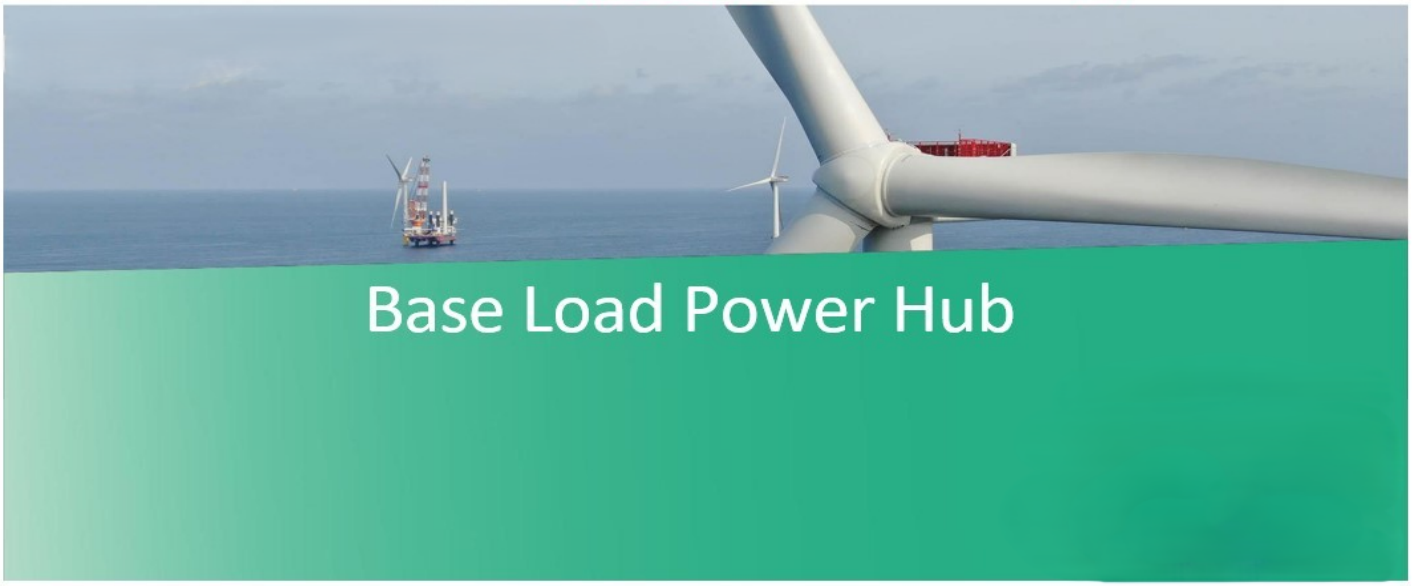
CROSSWIND

ROSETTI MARINO

PROVERLIS

PROJECT **123A90 - HOLLANDSE KUST NOORD WIND PARK**
BLPH Project



MECHANICAL COMPLETION DOSSIER (ONSHORE)

SYSTEM	83 Main Power Distribution Low Voltage 440 V
SUBSYSTEM	83-40 Normal Lighting Upper Deck

CROSSWIND	123A90 - HOLLANDSE KUST NOORD WIND PARK BLPH Project MECHANICAL COMPLETION DOSSIER INDEX	ROSETTI MARINO

Sub System N°:	83-40	Tick as appropriate	ONSHORE	O
Description:	Normal Lighting Upper Deck		OFFSHORE	NA

1.	***READY FOR COMMISSIONING CERTIFICATE*** *Ready For Commissioning Certificate (RFC)*	O
2.	***CONSOLIDATED PUNCH LISTS*** *Cleared and Residual Items*	O
3.	***SYSTEM/SUB-SYSTEM LIMIT DRAWINGS*** *Mark-up drawings showing the limits of the relevant System/Sub-System*	O
4.	***MECHANICAL COMPLETION STATUS INDEX – BUILDING DISCIPLINE*** *Building Sub-System Status Index (Print out) and Check/Test sheets*	NA
5.	***MECHANICAL COMPLETION STATUS INDEX – ELECTRICAL DISCIPLINE*** *Electrical Sub-System Status Index (Print out) and Check/Test Sheets* *Hazardous Area Equipment Detailed Inspection*	O
6.	***MECHANICAL COMPLETION STATUS INDEX - INSTRUMENTAL DISCIPLINE*** *Instrumental Sub-System Status Index (Print out) and Check/Test Sheets*	NA
7.	***MECHANICAL COMPLETION STATUS INDEX - MECHANICAL DISCIPLINE*** *Mechanical SubSystem Status Index (Print out) and Check/Test Sheets*	NA
8.	***MECHANICAL COMPLETION STATUS INDEX - TELECOMMUNICATION DISCIPLINE*** *Telecommunication Sub-System Status Index (Print out) and Check/Test Sheets*	NA
9.	***MECHANICAL COMPLETION STATUS INDEX - HVAC DISCIPLINE*** *HVAC Sub-System Status Index (Print out) and Check/Test Sheets*	NA
10.	***MECHANICAL COMPLETION STATUS INDEX - PIPING DISCIPLINE*** *Piping Sub-System Status Index and Check/Test Sheets*	NA
11.	***MECHANICAL COMPLETION INDEX - SAFETY DISCIPLINE*** *Safety Sub-System Status Index (Print out) and Check/Test Sheets*	NA
12.	***FAT / VENDOR REPORTS*** *Fat reports issued by vendors and/or vendor reports*	NA
13.	***MECHANICAL COMPLETION CHANGES / MARK-UPS*** *A copy of the changes initiated during the Mechanical Completion process pertaining to the relevant Sub-System will be incorporated in this section*	NA

Note: Under the generic terminology “Building” are also covered the following disciplines: **Structural, Painting**

Under the generic terminology “Instrumental” is also covered the following discipline: **Fire & Gas**

ROSETTI MARINO

123A90 - HOLLANDSE KUST NOORD WIND PARK
BLPH Project

CROSSWIND

Ready For Commissioning (RFC) Certificate

COMPLETE	●	PARTIAL	

Revision:	1		Issued on:	2025-01-27	
System:	83	/	Main Power Distribution Low Voltage 440 V		
SubSystem:	83-40	/	Normal Lighting Upper Deck		

1	COMPANY has, at its option and if required, reviewed the mechanical completion associated with the above-named system/sub-system of the SCOPE and observed that such functional sub-system has been brought into readiness for commencement of the associated pre-commissioning and commissioning activities, but for the outstanding punch list items, if any, attached and referred in this Certificate.
2	Issuance of this Certificate shall not release CONTRACTOR from any of his obligations, responsibilities or liabilities under the CONTRACT.
3	Mechanical Completion Status Index attached (per Discipline) Punch List report attached (Outstanding and Cleared)

PUNCH LIST	PENDING POINTS	
Note: All Category "A" Items must be cleared prior to issue a Ready For Commissioning (RFC) Certificate	A	B
	'0	128

REMARKS:

	CONTRACTOR Construction Manager	**CONTRACTOR** Commissioning Manager	**COMPANY** Construction Lead (if required)	**COMPANY** Commissioning Lead (if required)
Name	Wolmer Borghi	Anthony Iveson	CPY NOT PRESENT	CPY NOT PRESENT
Date	2025-01-28	2025-01-28	2025-01-28	2025-01-28
Signature	PROVERLIS Digitaly signed by Wolmer Borghi 2025-01-28T12:34:18.346Z	PROVERLIS Digitaly signed by Anthony Iveson 2025-01-28T12:52:56.081Z	PROVERLIS Digitaly signed by CPY NOT PRESEN 2025-01-28T13:50:17.471Z	PROVERLIS Digitaly signed by CPY NOT PRESEN 2025-01-28T13:50:27.880Z

CROSSWIND

ROSETTI MARINO

Project CROSSWIND

STATUS INDEX DETAIL

Filtered on subsystem: 83-40 & process: MC

Electrical	83-40 Normal Lighting Upper Deck						
ITEM		TASK					
Code	Description	Location	Code	Form	Progress	Date	Certificate
EJB-200N1-02-L1-10	JB - NORMAL LIGHTING	ONSHORE	C10001630	CPX31	100	2025-01-09	RFC 1
EJB-200N1-02-L1-14	JB - NORMAL LIGHTING	ONSHORE	C10001256	CPX31	100	2025-01-18	RFC 1
EJB-200N1-02-L1-20	Normal Lighting JB	ONSHORE	C10002369	CPX31	100	2025-01-24	RFC 1
ELF-200N1-02-L1-02	NORMAL LIGHT	ONSHORE	C10001338	CPX00	100	2024-12-06	RFC 1
ELF-200N1-02-L1-03	NORMAL LIGHT	ONSHORE	C10001361	CPX00	100	2025-01-10	RFC 1
ELF-200N1-02-L1-16	NORMAL LIGHT	ONSHORE	C10001671	CPX00	100	2024-12-07	RFC 1
ELF-200N1-02-L1-20	NORMAL LIGHT	ONSHORE	C10001354	CPX00	100	2024-12-06	RFC 1
ELF-200N1-02-L1-21	NORMAL LIGHT	ONSHORE	C10001355	CPX00	100	2024-12-06	RFC 1
ELF-200N1-02-L1-22	NORMAL LIGHT	ONSHORE	C10001356	CPX00	100	2024-12-07	RFC 1
P-EJB-200N1-02-L1-01	Lighting & Small Power DB BoP / Normal Lighting Upper Deck - Circuit No. 1	ONSHORE	C10000598	CPX09	100	2025-01-23	RFC 1
P-EJB-200N1-02-L1-02	Normal Lighting JB / Normal Lighting JB	ONSHORE	C10000665	CPX09	100	2025-01-11	RFC 1
P-EJB-200N1-02-L1-03	Normal Lighting JB / Normal Lighting JB	ONSHORE	C10000676	CPX09	100	2025-01-20	RFC 1
P-EJB-200N1-02-L1-05	Normal Lighting JB / Normal Lighting JB	ONSHORE	C10000670	CPX09	100	2025-01-09	RFC 1
P-EJB-200N1-02-L1-06	Normal Lighting JB / Normal Lighting JB	ONSHORE	C10000672	CPX09	100	2025-01-15	RFC 1
P-EJB-200N1-02-L1-07	Normal Lighting JB / Normal Lighting JB	ONSHORE	C10000674	CPX09	100	2025-01-25	RFC 1
P-EJB-200N1-02-L1-08	Normal Lighting JB / Normal Lighting JB	ONSHORE	C10000678	CPX09	100	2025-01-13	RFC 1
P-EJB-200N1-02-L1-09	Normal Lighting JB / Normal Lighting JB	ONSHORE	C10000680	CPX09	100	2025-01-09	RFC 1
P-EJB-200N1-02-L1-10	Normal Lighting JB / Normal Lighting JB	ONSHORE	C10000685	CPX09	100	2025-01-09	RFC 1
P-EJB-200N1-02-L1-11	Normal Lighting JB / Normal Lighting JB	ONSHORE	C10000687	CPX09	100	2024-12-28	RFC 1
P-EJB-200N1-02-L1-12	Normal Lighting JB / Normal Lighting JB	ONSHORE	C10000689	CPX09	100	2024-12-28	RFC 1
P-EJB-200N1-02-L1-13	Normal Lighting JB / Normal Lighting JB	ONSHORE	C10000691	CPX09	100	2024-12-30	RFC 1
P-EJB-200N1-02-L1-14	Normal Lighting JB / Normal Lighting JB	ONSHORE	C10000693	CPX09	100	2025-01-10	RFC 1
P-EJB-200N1-02-L1-15	Normal Lighting JB / Normal Lighting JB	ONSHORE	C10000695	CPX09	100	2024-12-06	RFC 1
P-EJB-200N1-02-L1-16	Normal Lighting JB / Normal Lighting JB	ONSHORE	C10000697	CPX09	100	2025-01-10	RFC 1
P-EJB-200N1-02-L1-17	Normal Lighting JB / Normal Lighting JB	ONSHORE	C10000699	CPX09	100	2024-12-28	RFC 1
P-EJB-200N1-02-L1-18	Normal Lighting JB / Normal Lighting JB	ONSHORE	C10000701	CPX09	100	2024-12-28	RFC 1
P-EJB-200N1-02-L1-19	Normal Lighting JB / Normal Lighting JB	ONSHORE	C10000703	CPX09	100	2024-12-24	RFC 1
P-EJB-200N1-02-L1-20	Normal Lighting JB / Normal Lighting JB	ONSHORE	C10002368	CPX09	100	2025-01-10	RFC 1
P-ELF-200N1-02-L1-01	Normal Lighting JB / Normal Lighting Fixture	ONSHORE	C10000662	CPX09	100	2025-01-14	RFC 1

Project CROSSWIND

STATUS INDEX DETAIL

Filtered on subsystem: 83-40 & process: MC

Electrical	83-40 Normal Lighting Upper Deck						
ITEM		TASK					
Code	Description	Location	Code	Form	Progress	Date	Certificate
P-ELF-200N1-02-L1-02	Normal Lighting Fixture / Normal Lighting Fixture	ONSHORE	C10000663	CPX09	100	2024-12-06	RFC 1
P-ELF-200N1-02-L1-03	Normal Lighting JB / Normal Lighting Fixture	ONSHORE	C10000664	CPX09	100	2025-01-10	RFC 1
P-ELF-200N1-02-L1-04	Normal Lighting JB / Normal Lighting Fixture	ONSHORE	C10000666	CPX09	100	2025-01-14	RFC 1
P-ELF-200N1-02-L1-05	Normal Lighting JB / Normal Lighting Fixture	ONSHORE	C10000671	CPX09	100	2025-01-14	RFC 1
P-ELF-200N1-02-L1-06	Normal Lighting Fixture / Normal Lighting Fixture	ONSHORE	C10000667	CPX09	100	2025-01-16	RFC 1
P-ELF-200N1-02-L1-07	Normal Lighting Fixture / Normal Lighting Fixture	ONSHORE	C10000668	CPX09	100	2025-01-15	RFC 1
P-ELF-200N1-02-L1-08	Normal Lighting JB / Normal Lighting Fixture	ONSHORE	C10000673	CPX09	100	2025-01-16	RFC 1
P-ELF-200N1-02-L1-09	Normal Lighting JB / Normal Lighting Fixture	ONSHORE	C10000675	CPX09	100	2025-01-22	RFC 1
P-ELF-200N1-02-L1-10	Normal Lighting Fixture / Normal Lighting Fixture	ONSHORE	C10000669	CPX09	100	2025-01-15	RFC 1
P-ELF-200N1-02-L1-11	Normal Lighting JB / Normal Lighting Fixture	ONSHORE	C10000679	CPX09	100	2025-01-13	RFC 1
P-ELF-200N1-02-L1-12	Normal Lighting JB / Normal Lighting Fixture	ONSHORE	C10000677	CPX09	100	2025-01-16	RFC 1
P-ELF-200N1-02-L1-13	Normal Lighting JB / Normal Lighting Fixture	ONSHORE	C10000681	CPX09	100	2025-01-13	RFC 1
P-ELF-200N1-02-L1-16	Normal Lighting JB / Normal Lighting Fixture	ONSHORE	C10000686	CPX09	100	2024-12-07	RFC 1
P-ELF-200N1-02-L1-17	Normal Lighting JB / Normal Lighting Fixture	ONSHORE	C10000688	CPX09	100	2024-12-06	RFC 1
P-ELF-200N1-02-L1-18	Normal Lighting JB / Normal Lighting Fixture	ONSHORE	C10000690	CPX09	100	2024-12-06	RFC 1
P-ELF-200N1-02-L1-19	Normal Lighting JB / Normal Lighting Fixture	ONSHORE	C10000692	CPX09	100	2024-12-06	RFC 1
P-ELF-200N1-02-L1-20	Normal Lighting JB / Normal Lighting Fixture	ONSHORE	C10000694	CPX09	100	2024-12-06	RFC 1
P-ELF-200N1-02-L1-21	Normal Lighting JB / Normal Lighting Fixture	ONSHORE	C10000696	CPX09	100	2024-12-06	RFC 1
P-ELF-200N1-02-L1-22	Normal Lighting JB / Normal Lighting Fixture	ONSHORE	C10000698	CPX09	100	2024-12-07	RFC 1
P-ELF-200N1-02-L1-23	Normal Lighting JB / Normal Lighting Fixture	ONSHORE	C10000700	CPX09	100	2024-12-06	RFC 1
P-ELF-200N1-02-L1-24	Normal Lighting JB / Normal Lighting Fixture	ONSHORE	C10000702	CPX09	100	2024-12-07	RFC 1
P-ELF-200N1-02-L1-25	Normal Lighting JB / Normal Lighting Fixture	ONSHORE	C10000704	CPX09	100	2024-12-07	RFC 1

Project CROSSWIND

STATUS INDEX DETAIL

Filtered on subsystem: 83-40 & process: MC

ATEX	83-40 Normal Lighting Upper Deck						
ITEM		TASK					
Code	Description	Location	Code	Form	Progress	Date	Certificate
EJB-200N1-02-L1-01	Normal Lighting Upper Deck - Circuit No. 1	ONSHORE	C10001281	CJX01	100	2025-01-23	RFC 1
EJB-200N1-02-L1-02	JB - NORMAL LIGHTING	ONSHORE	C10001652	CJX01	100	2025-01-27	RFC 1
EJB-200N1-02-L1-03	JB - NORMAL LIGHTING	ONSHORE	C10001653	CJX01	100	2025-01-18	RFC 1
EJB-200N1-02-L1-05	JB - NORMAL LIGHTING	ONSHORE	C10001626	CJX01	100	2025-01-18	RFC 1
EJB-200N1-02-L1-06	JB - NORMAL LIGHTING	ONSHORE	C10001627	CJX01	100	2025-01-18	RFC 1
EJB-200N1-02-L1-07	JB - NORMAL LIGHTING	ONSHORE	C10001628	CJX01	100	2025-01-18	RFC 1
EJB-200N1-02-L1-08	JB - NORMAL LIGHTING	ONSHORE	C10001629	CJX01	100	2025-01-17	RFC 1
EJB-200N1-02-L1-09	JB - NORMAL LIGHTING	ONSHORE	C10001632	CJX01	100	2025-01-18	RFC 1
EJB-200N1-02-L1-11	JB - NORMAL LIGHTING	ONSHORE	C10001631	CJX01	100	2024-12-31	RFC 1
EJB-200N1-02-L1-12	JB - NORMAL LIGHTING	ONSHORE	C10001633	CJX01	100	2025-01-02	RFC 1
EJB-200N1-02-L1-13	JB - NORMAL LIGHTING	ONSHORE	C10001634	CJX01	100	2025-01-18	RFC 1
EJB-200N1-02-L1-15	JB - NORMAL LIGHTING	ONSHORE	C10001257	CJX01	100	2025-01-22	RFC 1
EJB-200N1-02-L1-16	JB - NORMAL LIGHTING	ONSHORE	C10001258	CJX01	100	2025-01-18	RFC 1
EJB-200N1-02-L1-17	JB - NORMAL LIGHTING	ONSHORE	C10001635	CJX01	100	2025-01-07	RFC 1
EJB-200N1-02-L1-18	JB - NORMAL LIGHTING	ONSHORE	C10001636	CJX01	100	2025-01-07	RFC 1
EJB-200N1-02-L1-19	JB - NORMAL LIGHTING	ONSHORE	C10001637	CJX01	100	2025-01-09	RFC 1
ELF-200N1-02-L1-01	NORMAL LIGHT	ONSHORE	C10001337	CJX01	100	2025-01-14	RFC 1
ELF-200N1-02-L1-04	NORMAL LIGHT	ONSHORE	C10001357	CJX01	100	2025-01-14	RFC 1
ELF-200N1-02-L1-05	NORMAL LIGHT	ONSHORE	C10001665	CJX01	100	2025-01-14	RFC 1
ELF-200N1-02-L1-06	NORMAL LIGHT	ONSHORE	C10001664	CJX01	100	2025-01-16	RFC 1
ELF-200N1-02-L1-07	NORMAL LIGHT	ONSHORE	C10001663	CJX01	100	2025-01-15	RFC 1
ELF-200N1-02-L1-08	NORMAL LIGHT	ONSHORE	C10001662	CJX01	100	2025-01-16	RFC 1
ELF-200N1-02-L1-09	NORMAL LIGHT	ONSHORE	C10001661	CJX01	100	2025-01-22	RFC 1
ELF-200N1-02-L1-10	NORMAL LIGHT	ONSHORE	C10001660	CJX01	100	2025-01-15	RFC 1
ELF-200N1-02-L1-11	NORMAL LIGHT	ONSHORE	C10001666	CJX01	100	2025-01-13	RFC 1
ELF-200N1-02-L1-12	NORMAL LIGHT	ONSHORE	C10001667	CJX01	100	2025-01-16	RFC 1
ELF-200N1-02-L1-13	NORMAL LIGHT	ONSHORE	C10001668	CJX01	100	2025-01-13	RFC 1
ELF-200N1-02-L1-17	NORMAL LIGHT	ONSHORE	C10001672	CJX01	100	2024-12-14	RFC 1
ELF-200N1-02-L1-18	NORMAL LIGHT	ONSHORE	C10001673	CJX01	100	2024-12-14	RFC 1

Project CROSSWIND

STATUS INDEX DETAIL

Filtered on subsystem: 83-40 & process: MC

ATEX	83-40 Normal Lighting Upper Deck						
ITEM		TASK					
Code	Description	Location	Code	Form	Progress	Date	Certificate
ELF-200N1-02-L1-19	NORMAL LIGHT	ONSHORE	C10001674	CJX01	100	2024-12-14	RFC 1
ELF-200N1-02-L1-23	EMERGENCY LIGHT	ONSHORE	C10001697	CJX01	100	2024-12-12	RFC 1
ELF-200N1-02-L1-24	NORMAL LIGHT	ONSHORE	C10001675	CJX01	100	2024-12-14	RFC 1
ELF-200N1-02-L1-25	NORMAL LIGHT	ONSHORE	C10001676	CJX01	100	2024-12-14	RFC 1

Project CROSSWIND

PUNCH LIST REPORT

SYSTEM	83	Main Power Distribution Low Voltage 440 V
SUBSYSTEM	83-40	Normal Lighting Upper Deck

Electrical

CODE	CAT	ITEM	DEFECT DESCRIPTION	CORRECTIVE ACTION	PERFORMED ACTION	ISSUED	CARRIED	CHECKED	APPROVED
C30001465	A	P-ELF-200N1-02-L1-20 C10000694	Cable gland installation is not as per drawing 123A90-DDL-EL-DD-20091 rev 2 sheet 014 pos. 4 (cable gland earthing tag is missing)	.		Lmussi 2024-12-06	2024-12-14	Ecarotenuto 2024-12-14	2024-12-14
C30001470	A	P-ELF-200N1-02-L1-21 C10000696	Cable gland installation is not as per drawing 123A90-DDL-EL-DD-20091 rev 2 sheet 014 pos. 4 (cable gland earthing tag is missing)	.		Lmussi 2024-12-06	2024-12-14	Ecarotenuto 2024-12-14	2024-12-14
C30001473	A	P-ELF-200N1-02-L1-02 C10000663	the cable is damaged by cold flow (cable damaged termination to be redone)	.		AAndreani 2024-12-06	2025-01-20	AAndreani 2025-01-20	2025-01-20
C30001474	A	P-ELF-200N1-02-L1-02 C10000663	cable gland earthing tag is missing	.		AAndreani 2024-12-06	2024-12-14	Ecarotenuto 2024-12-14	2024-12-14
C30001476	A	P-ELF-200N1-02-L1-21 C10000696	On JB side, an adapter is present on tha cable gland (the adapter is not present on the cable list)	.		Lmussi 2024-12-06	2025-01-16	Ecarotenuto 2025-01-16	2025-01-16
C30001490	A	P-ELF-200N1-02-L1-19 C10000692	Cable gland installation is not as per drawing 123A90-DDL-EL-DD-20091 rev 2 sheet 014 pos. 4 (cable gland earthing tag is missing)	.		Lmussi 2024-12-06	2024-12-14	Ecarotenuto 2024-12-14	2024-12-14
C30001497	A	P-ELF-200N1-02-L1-23 C10000700	Cable gland installation is not as per drawing 123A90-DDL-EL-DD-20091 rev 2 sheet 014 pos. 4 (cable gland earthing tag is missing)	.		Lmussi 2024-12-06	2024-12-14	Ecarotenuto 2024-12-14	2024-12-14
C30001500	A	P-ELF-200N1-02-L1-17 C10000688	cable gland earthing tag is missing	.		AAndreani 2024-12-06	2024-12-14	Ecarotenuto 2024-12-14	2024-12-14
C30001502	A	P-EJB-200N1-02-L1-15 C10000695	On both JBs side, cable gland is connected to JB with an adapter (on cable list the adapter is not present)	.		Lmussi 2024-12-06	2025-01-16	Ecarotenuto 2025-01-16	2025-01-16

Project CROSSWIND

PUNCH LIST REPORT

SYSTEM 83 Main Power Distribution Low Voltage 440 V

SUBSYSTEM 83-40 Normal Lighting Upper Deck

Electrical

CODE	CAT	ITEM	DEFECT DESCRIPTION	CORRECTIVE ACTION	PERFORMED ACTION	ISSUED	CARRIED	CHECKED	APPROVED
C30001506	A	P-ELF-200N1-02-L1-18 C10000690	Cable gland installation is not as per drawing 123A90-DDL-EL-DD-20091 rev 2 sheet 014 pos. 4 (cable gland earthing tag is missing)	.		Lmussi 2024-12-06	2024-12-14	Ecarotenuto 2024-12-14	2024-12-14
C30001509	A	P-ELF-200N1-02-L1-22 C10000698	cable gland earthing tag is missing	.		AAndreani 2024-12-07	2024-12-14	Ecarotenuto 2024-12-14	2024-12-14
C30001529	A	P-ELF-200N1-02-L1-25 C10000704	cable gland earthing tag is missing	.		AAndreani 2024-12-07	2024-12-14	Ecarotenuto 2024-12-14	2024-12-14
C30001537	A	P-ELF-200N1-02-L1-16 C10000686	cable gland earthing tag is missing	.		AAndreani 2024-12-07	2024-12-14	Ecarotenuto 2024-12-14	2024-12-14
C30002127	A	P-EJB-200N1-02-L1-19 C10000703	cable glands are installed without serrated washer on both JBs side	.		AAndreani 2024-12-24	2025-01-13	Gtangianu 2025-01-13	2025-01-13
C30002192	A	P-EJB-200N1-02-L1-17 C10000699	Inside the JB (EJB-200N1-02-L1-17 & EJB-200N1-02-L1-18) the inner sheath of the cable does not properly exit from the cable	.		Lmussi 2024-12-28	2025-01-20	AAndreani 2025-01-20	2025-01-20
C30002193	A	P-EJB-200N1-02-L1-17 C10000699	Not enought threads are thightened between the lock nut and the cable gland body.	.		Lmussi 2024-12-28	2025-01-13	Gtangianu 2025-01-13	2025-01-13
C30002194	A	P-EJB-200N1-02-L1-17 C10000699	Ferrules to be replaced on EJB-200N1-02-L1-17 side.	.		Lmussi 2024-12-28	2025-01-13	Gtangianu 2025-01-13	2025-01-13
C30002202	A	P-EJB-200N1-02-L1-18 C10000701	On both JBs sides (EJB-200N1-02-L1-18 & EJB-200N1-02-L1-19) the inner sheath of the cable does not properly exit from the cable	.		Lmussi 2024-12-28	2025-01-13	Gtangianu 2025-01-13	2025-01-13

Project CROSSWIND

PUNCH LIST REPORT

SYSTEM	83	Main Power Distribution Low Voltage 440 V
SUBSYSTEM	83-40	Normal Lighting Upper Deck

Electrical

CODE	CAT	ITEM	DEFECT DESCRIPTION	CORRECTIVE ACTION	PERFORMED ACTION	ISSUED	CARRIED	CHECKED	APPROVED
C30002205	A	P-EJB-200N1-02-L1-18 C10000701	Not enought threads are thightened between the lock nut and the cable gland body.	.		Lmussi 2024-12-28	2025-01-13	Gtangianu 2025-01-13	2025-01-13
C30002208	A	P-EJB-200N1-02-L1-11 C10000687	Not enought threads are thightened between the lock nut and the cable gland body.	.		Lmussi 2024-12-28	2025-01-20	AAndreani 2025-01-20	2025-01-20
C30002210	A	P-EJB-200N1-02-L1-12 C10000689	Not enought threads are thightened between the lock nut and the cable gland body.	.		Lmussi 2024-12-28	2025-01-20	AAndreani 2025-01-20	2025-01-20
C30002211	A	P-EJB-200N1-02-L1-12 C10000689	On EJB-200N1-02-L1-12 side the inner sheath of the cable does not properly exit from the cable gland.See attached photo.	.		Lmussi 2024-12-28	2025-01-20	AAndreani 2025-01-20	2025-01-20
C30002213	A	P-EJB-200N1-02-L1-12 C10000689	On both JBs sides (EJB-200N1-02-L1-12 & EJB-200N1-02-L1-13), ferrules to be replaced.	.		Lmussi 2024-12-28	2025-01-20	AAndreani 2025-01-20	2025-01-20
C30002216	A	P-EJB-200N1-02-L1-13 C10000691	On JB: EJB-200N1-02-L1-13 side the inner sheath of the cable does not properly exit from the cable gland.See attached photo.	.		Lmussi 2024-12-30	2025-01-20	AAndreani 2025-01-20	2025-01-20
C30002217	A	P-EJB-200N1-02-L1-13 C10000691	On both JBs (EJB-200N1-02-L1-03 & EJB-200N1-02-L1-13) sides, no adapter is needed as per cable list.	.		Lmussi 2024-12-30	2025-01-13	Ecarotenuto 2025-01-13	2025-01-13
C30002502	A	P-EJB-200N1-02-L1-05 C10000670	adapter is present on the cable glandon both JB (EJB-200N1-02-L1-02 & EJB-200N1-02-L1-05) side; (adapter is not present on cable list)	.		AAndreani 2025-01-09	2025-01-17	Gtangianu 2025-01-17	2025-01-17
C30002503	A	P-EJB-200N1-02-L1-05 C10000670	Not enought threads are thightened between the lock nut and the cable gland body. on both JB (EJB-200N1-02-L1-02 & EJB-200N1-02-L1-05)	.		AAndreani 2025-01-09	2025-01-20	AAndreani 2025-01-20	2025-01-20

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SUBSYSTEM	83-40	Normal Lighting Upper Deck

Electrical

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C30002624	A	P-EJB-200N1-02-L1-20 C10002368	The cable gland lock nut and serrated washer must be removed and replaced with a suitable cable gland lock nut. side EJB-200N1-02-L1-14 /	.		APolo 2025-01-10	2025-01-20	AAndreani 2025-01-20	2025-01-20
C30002633	A	P-EJB-200N1-02-L1-14 C10000693	The cable gland lock nut and serrated washer must be removed and replaced with a suitable cable gland lock nut. side EJB-200N1-02-L1-14.	.		APolo 2025-01-10	2025-01-20	AAndreani 2025-01-20	2025-01-20
C30002662	A	ELF-200N1-02-L1-03 C10001361	The earthing cable of the lamp must be connected to the nearest earthing bar / plate / threaded stud	.		APolo 2025-01-10	2025-01-23	AAndreani 2025-01-23	2025-01-23
C30002719	A	P-EJB-200N1-02-L1-08 C10000678	adapter is present on the cable gland (adapter is not present on cable list)	.		AAndreani 2025-01-13	2025-01-17	Gtangianu 2025-01-17	2025-01-17
C30002724	A	P-ELF-200N1-02-L1-13 C10000681	Not enought threads are thightened between the lock nut and the cable gland body. on JB side	.		AAndreani 2025-01-13	2025-01-22	GBertuccelli 2025-01-22	2025-01-22
C30002882	A	P-EJB-200N1-02-L1-06 C10000672	installed M25 cable gland instead of M20 as per cable list (EJB-200N1-02-L1-07)	.		AAndreani 2025-01-15	2025-01-22	GBertuccelli 2025-01-22	2025-01-22
C30002937	A	P-ELF-200N1-02-L1-06 C10000667	installed M25 cable gland instead of M20 as per cable list (EJB-200N1-02-L1-05 side)	.		AAndreani 2025-01-16	2025-01-22	GBertuccelli 2025-01-22	2025-01-22
C30001425	B	P-EJB-200N1-02-L1-15 C10000695	Cable rounting clashes with sharp edge of cable tray	.		Lmussi 2024-12-06	2025-01-20	AAndreani 2025-01-20	2025-01-20
C30001426	B	P-EJB-200N1-02-L1-15 C10000695	On EJB-200N1-02-L2-15 side, core identification tags are missing for all wires.	.		Lmussi 2024-12-06			

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Electrical

CODE	CAT	ITEM	DEFECT DESCRIPTION	CORRECTIVE ACTION	PERFORMED ACTION	ISSUED	CARRIED	CHECKED	APPROVED
C30001427	B	P-EJB-200N1-02-L1-15 C10000695	On both JBs side, core labelling tag is missing	.		Lmussi 2024-12-06	2025-01-24	GBertuccelli 2025-01-24	2025-01-24
C30001447	B	ELF-200N1-02-L1-21 C10001355	Pole installation is not as per typical drawing 123A90-DDL-EL-DD-20091 rev 2 sheet 014 detail (it is not present the teflon sheet but teflon	.		Lmussi 2024-12-06	2024-12-19	AAndreani 2024-12-19	2024-12-19
C30001448	B	ELF-200N1-02-L1-21 C10001355	Light tag is missing	.		Lmussi 2024-12-06	2025-01-24	GBertuccelli 2025-01-24	2025-01-24
C30001449	B	ELF-200N1-02-L1-21 C10001355	The support is not well secured against vibration. another support needs to be added	.		Lmussi 2024-12-06			
C30001451	B	ELF-200N1-02-L1-21 C10001355	Waterproof washer is missing on the plug	.		Lmussi 2024-12-06	2025-01-02	Ecarotenuto 2025-01-02	2025-01-02
C30001455	B	ELF-200N1-02-L1-20 C10001354	The support is not well secured against vibration. another support needs to be added	.		Lmussi 2024-12-06			
C30001456	B	ELF-200N1-02-L1-20 C10001354	Light tag is missing	.		Lmussi 2024-12-06	2025-01-24	GBertuccelli 2025-01-24	2025-01-24
C30001459	B	ELF-200N1-02-L1-20 C10001354	Pole installation is not as per typical drawing 123A90-DDL-EL-DD-20091 rev 2 sheet 014 detail (it is not present the teflon sheet but teflon	.		Lmussi 2024-12-06	2024-12-19	AAndreani 2024-12-19	2024-12-19
C30001463	B	P-ELF-200N1-02-L1-20 C10000694	On light side cable labelling is missing	.		Lmussi 2024-12-06	2025-01-24	GBertuccelli 2025-01-24	2025-01-24

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Electrical

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C30001464	B	P-ELF-200N1-02-L1-20 C10000694	Core identification tags are missing for all wires	.		Lmussi 2024-12-06			
C30001466	B	P-ELF-200N1-02-L1-20 C10000694	Cable gland installation is not as per drawing 123A90-DDL-EL-DD-20091 rev 2 sheet 014 pos. 4. Cable is entering the Light cable gland	.		Lmussi 2024-12-06			
C30001467	B	P-ELF-200N1-02-L1-21 C10000696	Panduits on both sides (JB and light) are missing	.		Lmussi 2024-12-06			
C30001468	B	P-ELF-200N1-02-L1-21 C10000696	Core identification tags are missing for all wires	.		Lmussi 2024-12-06			
C30001469	B	P-ELF-200N1-02-L1-21 C10000696	Cable gland installation is not as per drawing 123A90-DDL-EL-DD-20091 rev 2 sheet 014 pos. 4. Cable is entering the Light cable gland	.		Lmussi 2024-12-06			
C30001471	B	ELF-200N1-02-L1-02 C10001338	missing tag	.		AAndreani 2024-12-06			
C30001472	B	ELF-200N1-02-L1-02 C10001338	Waterproof washer is missing on the plug	.		AAndreani 2024-12-06			
C30001475	B	P-ELF-200N1-02-L1-02 C10000663	Cable is entering the Light cable gland downwards while it should be upwards.	.		AAndreani 2024-12-06			
C30001477	B	P-ELF-200N1-02-L1-02 C10000663	missing cable labelling on both instrument and JB sides	.		AAndreani 2024-12-06			

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CODE	CAT	ITEM	DEFECT DESCRIPTION	CORRECTIVE ACTION	PERFORMED ACTION	ISSUED	CARRIED	CHECKED	APPROVED
C30001478	B	ELF-200N1-02-L1-02 C10001338	The support is not well secured against vibration. another support needs to be added	.		AAndreani 2024-12-06			
C30001479	B	ELF-200N1-02-L1-02 C10001338	Pole installation is not as per typical drawing 123A90-DDL-EL-DD-20091 rev 2 sheet 014 detail (it is not present the teflon sheet but teflon	.		AAndreani 2024-12-06	2024-12-28	Gtangianu 2024-12-28	2024-12-28
C30001485	B	P-ELF-200N1-02-L1-19 C10000692	On JB side, cable labelling is missing	.		Lmussi 2024-12-06	2025-01-24	GBertuccelli 2025-01-24	2025-01-24
C30001487	B	P-ELF-200N1-02-L1-19 C10000692	On JB side, core identification tags are missing for all wires	.		Lmussi 2024-12-06			
C30001489	B	P-ELF-200N1-02-L1-19 C10000692	Cable gland installation is not as per drawing 123A90-DDL-EL-DD-20091 rev 2 sheet 014 pos. 4. Cable is entering the Light cable gland	.		Lmussi 2024-12-06			
C30001494	B	P-ELF-200N1-02-L1-23 C10000700	On light side, cable labelling is missing	.		Lmussi 2024-12-06	2025-01-24	GBertuccelli 2025-01-24	2025-01-24
C30001495	B	P-ELF-200N1-02-L1-23 C10000700	On JB side, core identification tags are not as per Cross-Ferruling Philosophy for all wires	.		Lmussi 2024-12-06			
C30001496	B	P-ELF-200N1-02-L1-17 C10000688	missing cable labelling on both light sides	.		AAndreani 2024-12-06	2025-01-24	GBertuccelli 2025-01-24	2025-01-24
C30001498	B	P-ELF-200N1-02-L1-23 C10000700	Cable gland installation is not as per drawing 123A90-DDL-EL-DD-20091 rev 2 sheet 014 pos. 4. Cable is entering the Light cable gland	.		Lmussi 2024-12-06			

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C30001499	B	P-ELF-200N1-02-L1-17 C10000688	Core tag is missing for cable on both instrument and JB sides	.		AAndreani 2024-12-06			
C30001501	B	P-ELF-200N1-02-L1-17 C10000688	On Light side, cable is not dressed as per 123A90-XXXXXX rev. Y sheet ZZZ. Cable is entering the Light cable gland downwards while it	.		AAndreani 2024-12-06			
C30001503	B	P-ELF-200N1-02-L1-18 C10000690	On light side cable labelling is missing	.		Lmussi 2024-12-06	2025-01-24	GBertuccelli 2025-01-24	2025-01-24
C30001504	B	P-ELF-200N1-02-L1-18 C10000690	Core identification tag are not as per Cross-Ferruling Philosophy for all cores	.		Lmussi 2024-12-06			
C30001505	B	P-ELF-200N1-02-L1-18 C10000690	Cable gland installation is not as per drawing 123A90-DDL-EL-DD-20091 rev 2 sheet 014 pos. 4. Cable is entering the Light cable gland	.		Lmussi 2024-12-06			
C30001507	B	P-ELF-200N1-02-L1-22 C10000698	missing cable labelling on both instrument and JB sides	.		AAndreani 2024-12-07	2025-01-24	GBertuccelli 2025-01-24	2025-01-24
C30001508	B	P-ELF-200N1-02-L1-22 C10000698	Core tag is missing for cable on JB sides	.		AAndreani 2024-12-07			
C30001510	B	P-ELF-200N1-02-L1-22 C10000698	Cable is entering the Light cable gland downwards while it should be upwards	.		AAndreani 2024-12-07			
C30001511	B	ELF-200N1-02-L1-22 C10001356	The support is not well secured against vibration. another support needs to be added	.		AAndreani 2024-12-07			

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CODE	CAT	ITEM	DEFECT DESCRIPTION	CORRECTIVE ACTION	PERFORMED ACTION	ISSUED	CARRIED	CHECKED	APPROVED
C30001512	B	ELF-200N1-02-L1-22 C10001356	Pole installation is not as per typical drawing 123A90-DDL-EL-DD-20091 rev 2 sheet 014 detail (it is not present the teflon sheet but teflon	.		AAndreani 2024-12-07	2024-12-19	AAndreani 2024-12-19	2024-12-19
C30001514	B	ELF-200N1-02-L1-22 C10001356	missing tag	.		AAndreani 2024-12-07	2024-12-30	Ecarotenuto 2024-12-30	2024-12-30
C30001518	B	P-ELF-200N1-02-L1-24 C10000702	missing cable labelling on JB sides	.		AAndreani 2024-12-07	2025-01-24	GBertuccelli 2025-01-24	2025-01-24
C30001519	B	P-ELF-200N1-02-L1-24 C10000702	Core tag is missing for cable on JB sides	.		AAndreani 2024-12-07			
C30001522	B	P-ELF-200N1-02-L1-24 C10000702	Cable is entering the Light cable gland downwards while it should be upwards	.		AAndreani 2024-12-07			
C30001525	B	P-ELF-200N1-02-L1-25 C10000704	missing cable labelling on light sides	.		AAndreani 2024-12-07	2025-01-20	AAndreani 2025-01-20	2025-01-20
C30001527	B	P-ELF-200N1-02-L1-25 C10000704	Core tag is missing for cable on both instrument and JB sides	.		AAndreani 2024-12-07			
C30001532	B	P-ELF-200N1-02-L1-25 C10000704	Cable is entering the Light cable gland downwards while it should be upwards	.		AAndreani 2024-12-07			
C30001535	B	P-ELF-200N1-02-L1-16 C10000686	missing cable labelling on light sides	.		AAndreani 2024-12-07	2025-01-24	GBertuccelli 2025-01-24	2025-01-24

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C30001536	B	P-ELF-200N1-02-L1-16 C10000686	Core tag is wrong on JB side and missing on light side	.		AAndreani 2024-12-07			
C30001538	B	P-ELF-200N1-02-L1-16 C10000686	Cable is entering the Light cable gland downwards while it should be upwards	.		AAndreani 2024-12-07			
C30001539	B	ELF-200N1-02-L1-16 C10001671	The support is not well secured against vibration. another support needs to be added	.		AAndreani 2024-12-07			
C30001540	B	ELF-200N1-02-L1-16 C10001671	missing tag	.		AAndreani 2024-12-07			
C30001541	B	ELF-200N1-02-L1-16 C10001671	Waterproof washers are missing on the plugs	.		AAndreani 2024-12-07			
C30002128	B	P-EJB-200N1-02-L1-19 C10000703	missing SS cable tag on both JBs side	.		AAndreani 2024-12-24	2025-01-24	GBertuccelli 2025-01-24	2025-01-24
C30002129	B	P-EJB-200N1-02-L1-19 C10000703	Core tag is missing for cable on both JBs side	.		AAndreani 2024-12-24			
C30002191	B	P-EJB-200N1-02-L1-17 C10000699	SS cable tag is missing on both JB (EJB-200N1-02-L1-17 & EJB-200N1-02-L1-18) sides.	.		Lmussi 2024-12-28	2025-01-24	GBertuccelli 2025-01-24	2025-01-24
C30002201	B	P-EJB-200N1-02-L1-18 C10000701	SS cable tag is missing on both JBs sides (EJB-200N1-02-L1-18 & P-EJB-200N1-02-L1-19).	.		Lmussi 2024-12-28	2025-01-24	GBertuccelli 2025-01-24	2025-01-24

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C30002203	B	P-EJB-200N1-02-L1-18 C10000701	On both JBs sides (EJB-200N1-02-L1-18 & EJB-200N1-02-L1-19) core identification tags are missing for all wires.	.		Lmussi 2024-12-28			
C30002207	B	P-EJB-200N1-02-L1-11 C10000687	On both JBs sides (EJB-200N1-02-L1-11 & EJB-200N1-02-L1-12) SS cable tag is missing.	.		Lmussi 2024-12-28	2025-01-24	GBertuccelli 2025-01-24	2025-01-24
C30002209	B	P-EJB-200N1-02-L1-12 C10000689	On both JBs sides (EJB-200N1-02-L1-13 & EJB-200N1-02-L1-13) SS cable tag is missing.	.		Lmussi 2024-12-28	2025-01-24	GBertuccelli 2025-01-24	2025-01-24
C30002212	B	P-EJB-200N1-02-L1-12 C10000689	On both JBs side, core identification tags are missing for all wires.	.		Lmussi 2024-12-28			
C30002215	B	P-EJB-200N1-02-L1-13 C10000691	On both JBs sides (EJB-200N1-02-L1-13 & EJB-200N1-02-L1-03) SS cable tags are missing.	.		Lmussi 2024-12-30	2025-01-24	GBertuccelli 2025-01-24	2025-01-24
C30002218	B	P-EJB-200N1-02-L1-13 C10000691	On both JBs sides (EJB-200N1-02-L1-03 & EJB-200N1-02-L1-13) core identification tags are missing for all wires.	.		Lmussi 2024-12-30			
C30002490	B	P-EJB-200N1-02-L1-10 C10000685	Missing cable tag side the EJB-200N1-02-L1-10,	.		Gtangianu 2025-01-09	2025-01-24	GBertuccelli 2025-01-24	2025-01-24
C30002491	B	P-EJB-200N1-02-L1-10 C10000685	Missing identification wires tag both side the cables.	.		Gtangianu 2025-01-09			
C30002492	B	P-EJB-200N1-02-L1-09 C10000680	The cable is not protected below the (EJB-200N1-02-L1-09). Cable tray is short. See attached photo.	.		Gtangianu 2025-01-09			

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C30002493	B	P-EJB-200N1-02-L1-09 C10000680	Missing identification wires tag of both side. (P-EJB-200N1-02-L1-09/P-EJB-200N1-02-L1-08).	.		Gtangianu 2025-01-09			
C30002494	B	P-EJB-200N1-02-L1-09 C10000680	Missing cable tag bot side the cable (EJB-200N1-02-L1-09(EJB-200N1-02-L1-08).	.		Gtangianu 2025-01-09	2025-01-24	GBertuccelli 2025-01-24	2025-01-24
C30002495	B	P-EJB-200N1-02-L1-09 C10000680	Bending radius to be arranged better under the (EJB-200N1-02-L1-09). See attached photo.	.		Gtangianu 2025-01-09			
C30002504	B	P-EJB-200N1-02-L1-05 C10000670	missing SS cable tag on both JBs (EJB-200N1-02-L1-02 & EJB-200N1-02-L1-05) side	.		AAndreani 2025-01-09			
C30002505	B	P-EJB-200N1-02-L1-05 C10000670	Core tag is missing for cable on both JB (EJB-200N1-02-L1-02 & EJB-200N1-02-L1-05) side	.		AAndreani 2025-01-09			
C30002620	B	P-EJB-200N1-02-L1-16 C10000697	Missing cable tag SS , near the jb EJB-200N1-02-L1-15 / jb EJB-200N1-02-L1-16	.		APolo 2025-01-10	2025-01-20	AAndreani 2025-01-20	2025-01-20
C30002621	B	P-EJB-200N1-02-L1-16 C10000697	Missing cores identification tag. side EJB-200N1-02-L1-15 / EJB-200N1-02-L1-16 . (see document 123A90-DDL-EL-DD-20092	.		APolo 2025-01-10			
C30002622	B	P-EJB-200N1-02-L1-20 C10002368	Missing cable tag SS , near EJB-200N1-02-L1-14 / near EJB-200N1-02-L1-14.	.		APolo 2025-01-10			
C30002623	B	P-EJB-200N1-02-L1-20 C10002368	Wrong cores identification tag. side EJB-200N1-02-L1-14 / side EJB-200N1-02-L1-20. (see document 123A90-DDL-EL-DD-20092	.		APolo 2025-01-10			

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C30002625	B	P-EJB-200N1-02-L1-14 C10000693	Missing cable tag SS , near EJB-200N1-02-L1-13 / EJB-200N1-02-L1-14	.		APolo 2025-01-10	2025-01-20	AAndreani 2025-01-20	2025-01-20
C30002626	B	P-EJB-200N1-02-L1-14 C10000693	Missing cores identification tag. side EJB-200N1-02-L1-13 / side EJB-200N1-02-L1-14 . (see document 123A90-DDL-EL-DD-20092	.		APolo 2025-01-10			
C30002647	B	P-ELF-200N1-02-L1-03 C10000664	Missing cable tag SS , near EJB-200N1-02-L1-01 / ELF-200N1-02-L1-03	.		APolo 2025-01-10			
C30002652	B	ELF-200N1-02-L1-03 C10001361	The support is not well secured against vibration. another bracket needs to be added.	.		APolo 2025-01-10			
C30002653	B	ELF-200N1-02-L1-03 C10001361	Missing traffolyte tag side Lighting	.		APolo 2025-01-10			
C30002691	B	P-EJB-200N1-02-L1-02 C10000665	missing SS cable tag on both JBs (EJB-200N1-02-L1-02 & EJB-200N1-02-L1-01) side	.		AAndreani 2025-01-11			
C30002717	B	P-EJB-200N1-02-L1-08 C10000678	missing SS cable tag on both JBs (EJB-200N1-02-L1-03 & EJB-200N1-02-L1-08) side	.		AAndreani 2025-01-13			
C30002718	B	P-EJB-200N1-02-L1-08 C10000678	Core tag is missing for cable on both JBs (EJB-200N1-02-L1-03 & EJB-200N1-02-L1-08) side	.		AAndreani 2025-01-13			
C30002720	B	P-ELF-200N1-02-L1-11 C10000679	missing SS cable tag on both JB and light side	.		AAndreani 2025-01-13	2025-01-24	GBertuccelli 2025-01-24	2025-01-24

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SUBSYSTEM 83-40 Normal Lighting Upper Deck

Electrical

CODE	CAT	ITEM	DEFECT DESCRIPTION	CORRECTIVE ACTION	PERFORMED ACTION	ISSUED	CARRIED	CHECKED	APPROVED
C30002725	B	P-ELF-200N1-02-L1-13 C10000681	missing SS cable tag on both JB and light side	.		AAndreani 2025-01-13	2025-01-24	GBertuccelli 2025-01-24	2025-01-24
C30002761	B	P-ELF-200N1-02-L1-04 C10000666	missing SS cable tag on both JB and light side	.		AAndreani 2025-01-14	2025-01-24	GBertuccelli 2025-01-24	2025-01-24
C30002767	B	P-ELF-200N1-02-L1-01 C10000662	missing SS cable tag on both JB and light side	.		AAndreani 2025-01-14	2025-01-24	GBertuccelli 2025-01-24	2025-01-24
C30002774	B	P-ELF-200N1-02-L1-05 C10000671	missing SS cable tag on both JB and light side	.		AAndreani 2025-01-14	2025-01-24	GBertuccelli 2025-01-24	2025-01-24
C30002865	B	P-ELF-200N1-02-L1-07 C10000668	missing SS cable tag on both light (ELF-200N1-02-L1-06 & ELF-200N1-02-L1-07) side	.		AAndreani 2025-01-15	2025-01-24	GBertuccelli 2025-01-24	2025-01-24
C30002868	B	P-ELF-200N1-02-L1-07 C10000668	cable is not supported outside cable tray ELF-200N1-02-L1-07 side	.		AAndreani 2025-01-15	2025-01-25	Gtangianu 2025-01-25	2025-01-25
C30002873	B	P-ELF-200N1-02-L1-10 C10000669	missing SS cable tag on both JB and light side	.		AAndreani 2025-01-15	2025-01-24	GBertuccelli 2025-01-24	2025-01-24
C30002881	B	P-EJB-200N1-02-L1-06 C10000672	missing SS cable tag on both JB (EJB-200N1-02-L1-07 & EJB-200N1-02-L1-06) side	.		AAndreani 2025-01-15	2025-01-24	GBertuccelli 2025-01-24	2025-01-24
C30002919	B	P-ELF-200N1-02-L1-08 C10000673	missing SS cable tag on both JB and light side	.		AAndreani 2025-01-16	2025-01-24	GBertuccelli 2025-01-24	2025-01-24

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Electrical

CODE	CAT	ITEM	DEFECT DESCRIPTION	CORRECTIVE ACTION	PERFORMED ACTION	ISSUED	CARRIED	CHECKED	APPROVED
C30002921	B	P-ELF-200N1-02-L1-08 C10000673	cable is not supported light side	.		AAndreani 2025-01-16			
C30002932	B	P-ELF-200N1-02-L1-12 C10000677	missing SS cable tag on both JB and light side	,		AAndreani 2025-01-16	2025-01-24	GBertuccelli 2025-01-24	2025-01-24
C30002936	B	P-ELF-200N1-02-L1-06 C10000667	missing SS cable tag on both JB and light side	.		AAndreani 2025-01-16	2025-01-24	GBertuccelli 2025-01-24	2025-01-24
C30002968	B	P-ELF-200N1-02-L1-10 C10000669	secondary cable tray is fixed on instrument primary cable tray . To be moved	.		AAndreani 2025-01-16			
C30003070	B	EJB-200N1-02-L1-14 C10001256	Missing the indications on the terminals box	.		APolo 2025-01-18			
C30003071	B	EJB-200N1-02-L1-14 C10001256	Missing cores identification	.		APolo 2025-01-18			
C30003072	B	EJB-200N1-02-L1-14 C10001256	The "plain" Lock nut must be removed and replaced with a suitable cable gland lock nut.	.		APolo 2025-01-18			
C30003111	B	P-EJB-200N1-02-L1-03 C10000676	missing SS cable tag on both JB and light side	.		AAndreani 2025-01-20			
C30003173	B	P-EJB-200N1-02-L1-01 C10000598	missing SS cable tag on JB side and plastic cable tag on panel side	.		AAndreani 2025-01-23			

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SYSTEM	83	Main Power Distribution Low Voltage 440 V
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Electrical

CODE	CAT	ITEM	DEFECT DESCRIPTION	CORRECTIVE ACTION	PERFORMED ACTION	ISSUED	CARRIED	CHECKED	APPROVED
C30003183	B	EJB-200N1-02-L 1-20 C10002369	Trafolite tag is missing. See attached photo	.		GBertuccelli 2025-01-24			
C30003184	B	EJB-200N1-02-L 1-20 C10002369	The support is not well secured against vibration. Another support needs to be added	.		GBertuccelli 2025-01-24			
C30003185	B	EJB-200N1-02-L 1-20 C10002369	Identification tags on terminal block are missing	.		GBertuccelli 2025-01-24			

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ATEX

CODE	CAT	ITEM	DEFECT DESCRIPTION	CORRECTIVE ACTION	PERFORMED ACTION	ISSUED	CARRIED	CHECKED	APPROVED
C30002501	A	EJB-200N1-02-L1-19 C10001637	Missing earthing cable outside the JB. (EJB-200N1-02-L1-19). See attached photo.	.		Gtangianu 2025-01-09	2025-01-22	GBertuccelli 2025-01-22	2025-01-22
C30002765	A	ELF-200N1-02-L1-04 C10001357	missing earthing connection	.		AAndreani 2025-01-14	2025-01-20	AAndreani 2025-01-20	2025-01-20
C30002871	A	ELF-200N1-02-L1-07 C10001663	light is not connected to earth	.		AAndreani 2025-01-15	2025-01-20	AAndreani 2025-01-20	2025-01-20
C30002928	A	ELF-200N1-02-L1-08 C10001662	light not connected to earth	.		AAndreani 2025-01-16	2025-01-20	AAndreani 2025-01-20	2025-01-20
C30002933	A	ELF-200N1-02-L1-12 C10001667	light not connected to earth	.		AAndreani 2025-01-16	2025-01-20	AAndreani 2025-01-20	2025-01-20
C30002939	A	ELF-200N1-02-L1-06 C10001664	light not connected to earth	.		AAndreani 2025-01-16	2025-01-20	AAndreani 2025-01-20	2025-01-20
C30001711	B	ELF-200N1-02-L1-23 C10001697	the support is not well secured against vibration. another bracket needs to be added	.		AAndreani 2024-12-12			
C30001712	B	ELF-200N1-02-L1-18 C10001673	Pole installation is not as per typical drawing 123A90-DDL-EL-DD-20091 rev 2 sheet 014 detail (it is not present the teflon sheet but teflon	.		GBertuccelli 2024-12-12	2024-12-19	AAndreani 2024-12-19	2024-12-19
C30001713	B	ELF-200N1-02-L1-23 C10001697	missing tag	.		AAndreani 2024-12-12			

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CODE	CAT	ITEM	DEFECT DESCRIPTION	CORRECTIVE ACTION	PERFORMED ACTION	ISSUED	CARRIED	CHECKED	APPROVED
C30001714	B	ELF-200N1-02-L 1-23 C10001697	Missing traffolyte tag side instrument	.		AAndreani 2024-12-12	2024-12-27	Ecarotenuto 2024-12-27	2024-12-27
C30001716	B	ELF-200N1-02-L 1-18 C10001673	Missing traffolyte tag side instrument	.		GBertuccelli 2024-12-12	2024-12-27	Ecarotenuto 2024-12-27	2024-12-27
C30001717	B	ELF-200N1-02-L 1-18 C10001673	the support is not well secured against vibration. another bracket needs to be added.	.		GBertuccelli 2024-12-12			
C30001718	B	ELF-200N1-02-L 1-18 C10001673	Missing tag	.		GBertuccelli 2024-12-12	2024-12-31	Ecarotenuto 2024-12-31	2024-12-31
C30001873	B	ELF-200N1-02-L 1-17 C10001672	tag is missing	.		AAndreani 2024-12-14	2024-12-19	Lmussi 2024-12-19	2024-12-19
C30001874	B	ELF-200N1-02-L 1-17 C10001672	Trafolite tag is missing	.		AAndreani 2024-12-14	2024-12-19	Lmussi 2024-12-19	2024-12-19
C30001875	B	ELF-200N1-02-L 1-17 C10001672	Pole installation is not as per typical drawing 123A90-DDL-EL-DD-20091 rev 2 sheet 014 detail (it is not present the teflon sheet but teflon	.		AAndreani 2024-12-14	2024-12-19	AAndreani 2024-12-19	2024-12-19
C30001876	B	ELF-200N1-02-L 1-17 C10001672	The support is not well secured against vibration. another support needs to be added	.		AAndreani 2024-12-14			
C30001877	B	ELF-200N1-02-L 1-19 C10001674	The support is not well secured against vibration. another support needs to be added	.		AAndreani 2024-12-14			

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CODE	CAT	ITEM	DEFECT DESCRIPTION	CORRECTIVE ACTION	PERFORMED ACTION	ISSUED	CARRIED	CHECKED	APPROVED
C30001878	B	ELF-200N1-02-L 1-19 C10001674	Trafolite tag is missing	.		AAndreani 2024-12-14	2024-12-19	Lmussi 2024-12-19	2024-12-19
C30001879	B	ELF-200N1-02-L 1-19 C10001674	Tag is missing	.		AAndreani 2024-12-14	2024-12-19	Lmussi 2024-12-19	2024-12-19
C30001880	B	ELF-200N1-02-L 1-24 C10001675	The support is not well secured against vibration. another support needs to be added	.		AAndreani 2024-12-14			
C30001881	B	ELF-200N1-02-L 1-24 C10001675	Trafolite tag is missing	.		AAndreani 2024-12-14	2024-12-19	Lmussi 2024-12-19	2024-12-19
C30001882	B	ELF-200N1-02-L 1-24 C10001675	Tag is missing	.		AAndreani 2024-12-14	2024-12-19	Lmussi 2024-12-19	2024-12-19
C30001883	B	ELF-200N1-02-L 1-25 C10001676	The support is not well secured against vibration. another support needs to be added	.		AAndreani 2024-12-14			
C30001884	B	ELF-200N1-02-L 1-25 C10001676	Pole installation is not as per typical drawing 123A90-DDL-EL-DD-20091 rev 2 sheet 014 detail (it is not present the teflon sheet but teflon	.		AAndreani 2024-12-14	2024-12-19	AAndreani 2024-12-19	2024-12-19
C30001885	B	ELF-200N1-02-L 1-25 C10001676	Trafolite tag is missing	.		AAndreani 2024-12-14	2024-12-19	Lmussi 2024-12-19	2024-12-19
C30001886	B	ELF-200N1-02-L 1-25 C10001676	Tag is missing	.		AAndreani 2024-12-14	2024-12-19	Lmussi 2024-12-19	2024-12-19

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CODE	CAT	ITEM	DEFECT DESCRIPTION	CORRECTIVE ACTION	PERFORMED ACTION	ISSUED	CARRIED	CHECKED	APPROVED
C30002277	B	EJB-200N1-02-L 1-11 C10001631	Drainage valve (123A90-DDL-EL-DS-20067) is missing.	.		Lmussi 2024-12-31	2025-01-14	Ecarotenuto 2025-01-14	2025-01-14
C30002278	B	EJB-200N1-02-L 1-11 C10001631	ATEX-certified plug is missing (instead, plastic plug is present).	.		Lmussi 2024-12-31			
C30002279	B	EJB-200N1-02-L 1-11 C10001631	Serrated washer is missing.	.		Lmussi 2024-12-31			
C30002280	B	EJB-200N1-02-L 1-11 C10001631	Identification tags on termianl block are missing.	.		Lmussi 2024-12-31			
C30002281	B	EJB-200N1-02-L 1-11 C10001631	On ATEX register (123A90-DDL-EL-LIS-20094 sheet 19) JB Serial Number is 24P00297990056, but actual is 24P00297990030.	.		Lmussi 2024-12-31			
C30002286	B	EJB-200N1-02-L 1-12 C10001633	On ATEX register (123A90-DDL-EL-LIS-20094 sheet 19) JB Serial Number is 24P00297990055, but actual is 24P00297990031.	.		Lmussi 2025-01-02			
C30002287	B	EJB-200N1-02-L 1-12 C10001633	Drainage valve (as per 123A90-DDL-EL-DS-20067) is missing.	.		Lmussi 2025-01-02	2025-01-14	Ecarotenuto 2025-01-14	2025-01-14
C30002311	B	EJB-200N1-02-L 1-12 C10001633	Serrated washers are missing.	.		Lmussi 2025-01-02	2025-01-20	AAndreani 2025-01-20	2025-01-20
C30002313	B	EJB-200N1-02-L 1-12 C10001633	Identification tags on terminal block are missing	.		Lmussi 2025-01-02			

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C30002366	B	EJB-200N1-02-L 1-17 C10001635	On ATEX register (123A90-DDL-EL-LIS-20094 sheet ZZ) JB Serial Number is 24P00297990050, but actual is 24P00297990034.	.		Lmussi 2025-01-07			
C30002367	B	EJB-200N1-02-L 1-17 C10001635	Drainage valve (as per 123A90-DDL-EL-DS-20067) is missing.	.		Lmussi 2025-01-07	2025-01-14	Ecarotenuto 2025-01-14	2025-01-14
C30002368	B	EJB-200N1-02-L 1-17 C10001635	Serrated washer is missing on plugs	.		Lmussi 2025-01-07			
C30002369	B	EJB-200N1-02-L 1-17 C10001635	Identification tags on terminal block are missing.	.		Lmussi 2025-01-07			
C30002370	B	EJB-200N1-02-L 1-18 C10001636	On ATEX register (123A90-DDL-EL-LIS-20094 sheet ZZ) JB Serial Number is 24P00297990052, but actual is 24P00297990035.	.		Lmussi 2025-01-07			
C30002371	B	EJB-200N1-02-L 1-18 C10001636	Drainage valve (as per 123A90-DDL-EL-DS-20067) is missing.	.		Lmussi 2025-01-07	2025-01-14	Ecarotenuto 2025-01-14	2025-01-14
C30002506	B	EJB-200N1-02-L 1-19 C10001637	The washer on the plugs need to be change. See attached photo.	.		Gtangianu 2025-01-09			
C30002721	B	ELF-200N1-02-L 1-11 C10001666	missing all lock nuts for stopped the lamp	.		AAndreani 2025-01-13	2025-01-17	Lmussi 2025-01-17	2025-01-17
C30002722	B	ELF-200N1-02-L 1-11 C10001666	Trafolite tag is missing	.		AAndreani 2025-01-13			

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C30002723	B	ELF-200N1-02-L 1-11 C10001666	The support is not well secured against vibration. another support needs to be added	.		AAndreani 2025-01-13			
C30002726	B	ELF-200N1-02-L 1-13 C10001668	The support is not well secured against vibration. another support needs to be added	.		AAndreani 2025-01-13			
C30002727	B	ELF-200N1-02-L 1-13 C10001668	Trafolite tag is missing	.		AAndreani 2025-01-13			
C30002728	B	ELF-200N1-02-L 1-13 C10001668	missing all lock nuts for stopped the lamp	.		AAndreani 2025-01-13	2025-01-17	Lmussi 2025-01-17	2025-01-17
C30002762	B	ELF-200N1-02-L 1-04 C10001357	light contaminated by rust, see attached foto	.		AAndreani 2025-01-14			
C30002763	B	ELF-200N1-02-L 1-04 C10001357	nylon sheet is missing under the supports	.		AAndreani 2025-01-14			
C30002764	B	ELF-200N1-02-L 1-04 C10001357	missing all lock nuts for stopped the lamp	.		AAndreani 2025-01-14	2025-01-17	Lmussi 2025-01-17	2025-01-17
C30002766	B	ELF-200N1-02-L 1-04 C10001357	Trafolite tag is missing	.		AAndreani 2025-01-14			
C30002769	B	ELF-200N1-02-L 1-01 C10001337	nylon sheet is missing under the supports	.		AAndreani 2025-01-14			

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C30002770	B	ELF-200N1-02-L1-01 C10001337	missing all lock nuts for stopped the lamp	.		AAndreani 2025-01-14	2025-01-17	Lmussi 2025-01-17	2025-01-17
C30002771	B	ELF-200N1-02-L1-01 C10001337	missing earthing connection	.		AAndreani 2025-01-14			
C30002772	B	ELF-200N1-02-L1-01 C10001337	Trafolite tag is missing	.		AAndreani 2025-01-14			
C30002775	B	ELF-200N1-02-L1-05 C10001665	The support is not well secured against vibration. another support needs to be added	.		AAndreani 2025-01-14			
C30002776	B	ELF-200N1-02-L1-05 C10001665	missing all lock nuts for stopped the lamp	.		AAndreani 2025-01-14	2025-01-17	Lmussi 2025-01-17	2025-01-17
C30002869	B	ELF-200N1-02-L1-07 C10001663	Missing piece of black PVC between side caps and glass	.		AAndreani 2025-01-15	2025-01-17	Lmussi 2025-01-17	2025-01-17
C30002870	B	ELF-200N1-02-L1-07 C10001663	missing one screw on the cover	.		AAndreani 2025-01-15	2025-01-25	Gtangianu 2025-01-25	2025-01-25
C30002872	B	ELF-200N1-02-L1-07 C10001663	missing all lock nuts for stopped the lamp	.		AAndreani 2025-01-15	2025-01-17	Lmussi 2025-01-17	2025-01-17
C30002875	B	ELF-200N1-02-L1-10 C10001660	lighting pole not connected to earth	.		AAndreani 2025-01-15			

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C30002877	B	ELF-200N1-02-L1-10 C10001660	Trafolite tag is missing	.		AAndreani 2025-01-15			
C30002879	B	ELF-200N1-02-L1-10 C10001660	missing all lock nuts for stopped the lamp	.		AAndreani 2025-01-15	2025-01-17	Lmussi 2025-01-17	2025-01-17
C30002880	B	ELF-200N1-02-L1-07 C10001663	Trafolite tag is missing	.		AAndreani 2025-01-15	2025-01-25	Gtangianu 2025-01-25	2025-01-25
C30002925	B	ELF-200N1-02-L1-08 C10001662	trafolite tag is wrong	.		AAndreani 2025-01-16			
C30002926	B	ELF-200N1-02-L1-08 C10001662	The support is not well secured against vibration. another support needs to be added	.		AAndreani 2025-01-16			
C30002927	B	ELF-200N1-02-L1-08 C10001662	missing all lock nuts for stopped the lamp	.		AAndreani 2025-01-16	2025-01-17	Lmussi 2025-01-17	2025-01-17
C30002934	B	ELF-200N1-02-L1-12 C10001667	missing all lock nuts for stopped the lamp	.		AAndreani 2025-01-16	2025-01-17	Lmussi 2025-01-17	2025-01-17
C30002935	B	ELF-200N1-02-L1-12 C10001667	trafolite tag is missing	.		AAndreani 2025-01-16			
C30002938	B	ELF-200N1-02-L1-06 C10001664	trafolite tag is missing	.		AAndreani 2025-01-16			

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C30002940	B	ELF-200N1-02-L 1-06 C10001664	missing all lock nuts for stopped the lamp	.		AAndreani 2025-01-16	2025-01-17	Lmussi 2025-01-17	2025-01-17
C30002987	B	EJB-200N1-02-L 1-08 C10001629	On ATEX register (123A90-DDL-EL-LIS-20094 sheet ZZ) JB Serial Number is 24P00297990060, but actual is 24P00297990011	.		Lmussi 2025-01-17			
C30002988	B	EJB-200N1-02-L 1-08 C10001629	Ex e plug is missing	.		Lmussi 2025-01-17			
C30002989	B	EJB-200N1-02-L 1-08 C10001629	Antivibration washer is missing	.		Lmussi 2025-01-17			
C30002990	B	EJB-200N1-02-L 1-08 C10001629	Identification tags on terminal block are missing	.		Lmussi 2025-01-17			
C30003075	B	EJB-200N1-02-L 1-16 C10001258	The unused entries "are not plugged" with approved Stopping boxes.	.		APolo 2025-01-18			
C30003076	B	EJB-200N1-02-L 1-16 C10001258	Missing cores identification	.		APolo 2025-01-18			
C30003077	B	EJB-200N1-02-L 1-05 C10001626	The "plain" Lock nut must be removed and replaced with a suitable cable gland lock nut.	.		APolo 2025-01-18			
C30003078	B	EJB-200N1-02-L 1-05 C10001626	Wires inside JB have to be dressed properly	.		APolo 2025-01-18			

Project CROSSWIND

PUNCH LIST REPORT

SYSTEM	83	Main Power Distribution Low Voltage 440 V
SUBSYSTEM	83-40	Normal Lighting Upper Deck

ATEX

CODE	CAT	ITEM	DEFECT DESCRIPTION	CORRECTIVE ACTION	PERFORMED ACTION	ISSUED	CARRIED	CHECKED	APPROVED
C30003079	B	EJB-200N1-02-L 1-06 C10001627	the earth cable is not fixed	.		APolo 2025-01-18			
C30003080	B	EJB-200N1-02-L 1-06 C10001627	The "plain" Lock nut must be removed and replaced with a suitable cable gland lock nut.	.		APolo 2025-01-18			
C30003081	B	EJB-200N1-02-L 1-06 C10001627	Missing the indications on the terminals box	.		APolo 2025-01-18			
C30003082	B	EJB-200N1-02-L 1-06 C10001627	Wires inside JB have to be dressed properly	.		APolo 2025-01-18			
C30003083	B	EJB-200N1-02-L 1-07 C10001628	the earth cable is not fixed	.		APolo 2025-01-18			
C30003084	B	EJB-200N1-02-L 1-07 C10001628	The "plain" Lock nut must be removed and replaced with a suitable cable gland lock nut.	.		APolo 2025-01-18			
C30003085	B	EJB-200N1-02-L 1-07 C10001628	Wires inside JB have to be dressed properly	.		APolo 2025-01-18			
C30003086	B	EJB-200N1-02-L 1-09 C10001632	the earth cable is not fixed	.		APolo 2025-01-18			
C30003087	B	EJB-200N1-02-L 1-09 C10001632	The cable gland lock nut and serrated washer must be removed and replaced with a suitable lock nut on plug	.		APolo 2025-01-18			

Project CROSSWIND

PUNCH LIST REPORT

SYSTEM 83 Main Power Distribution Low Voltage 440 V
SUBSYSTEM 83-40 Normal Lighting Upper Deck

ATEX

CODE	CAT	ITEM	DEFECT DESCRIPTION	CORRECTIVE ACTION	PERFORMED ACTION	ISSUED	CARRIED	CHECKED	APPROVED
C30003088	B	EJB-200N1-02-L 1-09 C10001632	Wires inside JB have to be dressed properly	.		APolo 2025-01-18			
C30003089	B	EJB-200N1-02-L 1-13 C10001634	The "plain" Lock nut must be removed and replaced with a suitable lock nut.	.		APolo 2025-01-18			
C30003090	B	EJB-200N1-02-L 1-13 C10001634	Missing the indications on the terminals box	.		APolo 2025-01-18			
C30003091	B	EJB-200N1-02-L 1-13 C10001634	The cable gland is loose	.		APolo 2025-01-18			
C30003092	B	EJB-200N1-02-L 1-03 C10001653	the earth cable is not fixed	.		APolo 2025-01-18			
C30003093	B	EJB-200N1-02-L 1-03 C10001653	Missing the indications on the terminals box	.		APolo 2025-01-18			
C30003153	B	ELF-200N1-02-L 1-09 C10001661	The support is not well secured against vibration. another support needs to be added	.		AAndreani 2025-01-22			
C30003156	B	EJB-200N1-02-L 1-15 C10001257	On ATEX register (123A90-DDL-EL-LIS-20094 sh 19) JB serial number is 24P00297990052, but actual is 24P00297990027	.		AAndreani 2025-01-22			
C30003171	B	EJB-200N1-02-L 1-01 C10001281	Identification tags on terminal block are missing	.		GBertuccelli 2025-01-23			

Project CROSSWIND

PUNCH LIST REPORT

SYSTEM	83	Main Power Distribution Low Voltage 440 V
SUBSYSTEM	83-40	Normal Lighting Upper Deck

ATEX

CODE	CAT	ITEM	DEFECT DESCRIPTION	CORRECTIVE ACTION	PERFORMED ACTION	ISSUED	CARRIED	CHECKED	APPROVED
C30003172	B	EJB-200N1-02-L1-01 C10001281	On ATEX register 123A90-DDL-EL-LIS-20094 Sheet 19) JB serial number is 24P00297990045, but actual is 24P00297990083	.		GBertuccelli 2025-01-23			
C30003213	B	EJB-200N1-02-L1-02 C10001652	missing serrated washer on plug	.		AAndreani 2025-01-27			
C30003214	B	EJB-200N1-02-L1-02 C10001652	On ATEX register 123A90-DDL-EL-LIS-20094 Sheet 19) JB serial number is 24P00297990044, but actual is 24P00297990084	.		AAndreani 2025-01-27			
C30003215	B	EJB-200N1-02-L1-02 C10001652	Identification tags on terminal block are missing.	.		AAndreani 2025-01-27			

Section 2 CONSOLIDATED PUNCH LISTS

Project CROSSWIND

PUNCH LIST REPORT

SYSTEM	83	Main Power Distribution Low Voltage 440 V
SUBSYSTEM	83-40	Normal Lighting Upper Deck

Electrical

CODE	CAT	ITEM	DEFECT DESCRIPTION	CORRECTIVE ACTION	PERFORMED ACTION	ISSUED	CARRIED	CHECKED	APPROVED
C30001465	A	P-ELF-200N1-02-L1-20 C10000694	Cable gland installation is not as per drawing 123A90-DDL-EL-DD-20091 rev 2 sheet 014 pos. 4 (cable gland earthing tag is missing)	.		Lmussi 2024-12-06	2024-12-14	Ecarotenuto 2024-12-14	2024-12-14
C30001470	A	P-ELF-200N1-02-L1-21 C10000696	Cable gland installation is not as per drawing 123A90-DDL-EL-DD-20091 rev 2 sheet 014 pos. 4 (cable gland earthing tag is missing)	.		Lmussi 2024-12-06	2024-12-14	Ecarotenuto 2024-12-14	2024-12-14
C30001473	A	P-ELF-200N1-02-L1-02 C10000663	the cable is damaged by cold flow (cable damaged termination to be redone)	.		AAndreani 2024-12-06	2025-01-20	AAndreani 2025-01-20	2025-01-20
C30001474	A	P-ELF-200N1-02-L1-02 C10000663	cable gland earthing tag is missing	.		AAndreani 2024-12-06	2024-12-14	Ecarotenuto 2024-12-14	2024-12-14
C30001476	A	P-ELF-200N1-02-L1-21 C10000696	On JB side, an adapter is present on tha cable gland (the adapter is not present on the cable list)	.		Lmussi 2024-12-06	2025-01-16	Ecarotenuto 2025-01-16	2025-01-16
C30001490	A	P-ELF-200N1-02-L1-19 C10000692	Cable gland installation is not as per drawing 123A90-DDL-EL-DD-20091 rev 2 sheet 014 pos. 4 (cable gland earthing tag is missing)	.		Lmussi 2024-12-06	2024-12-14	Ecarotenuto 2024-12-14	2024-12-14
C30001497	A	P-ELF-200N1-02-L1-23 C10000700	Cable gland installation is not as per drawing 123A90-DDL-EL-DD-20091 rev 2 sheet 014 pos. 4 (cable gland earthing tag is missing)	.		Lmussi 2024-12-06	2024-12-14	Ecarotenuto 2024-12-14	2024-12-14
C30001500	A	P-ELF-200N1-02-L1-17 C10000688	cable gland earthing tag is missing	.		AAndreani 2024-12-06	2024-12-14	Ecarotenuto 2024-12-14	2024-12-14
C30001502	A	P-EJB-200N1-02-L1-15 C10000695	On both JBs side, cable gland is connected to JB with an adapter (on cable list the adapter is not present)	.		Lmussi 2024-12-06	2025-01-16	Ecarotenuto 2025-01-16	2025-01-16

Project CROSSWIND

PUNCH LIST REPORT

SYSTEM	83	Main Power Distribution Low Voltage 440 V
SUBSYSTEM	83-40	Normal Lighting Upper Deck

Electrical

CODE	CAT	ITEM	DEFECT DESCRIPTION	CORRECTIVE ACTION	PERFORMED ACTION	ISSUED	CARRIED	CHECKED	APPROVED
C30001506	A	P-ELF-200N1-02-L1-18 C10000690	Cable gland installation is not as per drawing 123A90-DDL-EL-DD-20091 rev 2 sheet 014 pos. 4 (cable gland earthing tag is missing)	.		Lmussi 2024-12-06	2024-12-14	Ecarotenuto 2024-12-14	2024-12-14
C30001509	A	P-ELF-200N1-02-L1-22 C10000698	cable gland earthing tag is missing	.		AAndreani 2024-12-07	2024-12-14	Ecarotenuto 2024-12-14	2024-12-14
C30001529	A	P-ELF-200N1-02-L1-25 C10000704	cable gland earthing tag is missing	.		AAndreani 2024-12-07	2024-12-14	Ecarotenuto 2024-12-14	2024-12-14
C30001537	A	P-ELF-200N1-02-L1-16 C10000686	cable gland earthing tag is missing	.		AAndreani 2024-12-07	2024-12-14	Ecarotenuto 2024-12-14	2024-12-14
C30002127	A	P-EJB-200N1-02-L1-19 C10000703	cable glands are installed without serrated washer on both JBs side	.		AAndreani 2024-12-24	2025-01-13	Gtangianu 2025-01-13	2025-01-13
C30002192	A	P-EJB-200N1-02-L1-17 C10000699	Inside the JB (EJB-200N1-02-L1-17 & EJB-200N1-02-L1-18) the inner sheath of the cable does not properly exit from the cable	.		Lmussi 2024-12-28	2025-01-20	AAndreani 2025-01-20	2025-01-20
C30002193	A	P-EJB-200N1-02-L1-17 C10000699	Not enought threads are thightened between the lock nut and the cable gland body.	.		Lmussi 2024-12-28	2025-01-13	Gtangianu 2025-01-13	2025-01-13
C30002194	A	P-EJB-200N1-02-L1-17 C10000699	Ferrules to be replaced on EJB-200N1-02-L1-17 side.	.		Lmussi 2024-12-28	2025-01-13	Gtangianu 2025-01-13	2025-01-13
C30002202	A	P-EJB-200N1-02-L1-18 C10000701	On both JBs sides (EJB-200N1-02-L1-18 & EJB-200N1-02-L1-19) the inner sheath of the cable does not properly exit from the cable	.		Lmussi 2024-12-28	2025-01-13	Gtangianu 2025-01-13	2025-01-13

Project CROSSWIND

PUNCH LIST REPORT

SYSTEM 83 Main Power Distribution Low Voltage 440 V

SUBSYSTEM 83-40 Normal Lighting Upper Deck

Electrical

CODE	CAT	ITEM	DEFECT DESCRIPTION	CORRECTIVE ACTION	PERFORMED ACTION	ISSUED	CARRIED	CHECKED	APPROVED
C30002205	A	P-EJB-200N1-02-L1-18 C10000701	Not enought threads are thightened between the lock nut and the cable gland body.	.		Lmussi 2024-12-28	2025-01-13	Gtangianu 2025-01-13	2025-01-13
C30002208	A	P-EJB-200N1-02-L1-11 C10000687	Not enought threads are thightened between the lock nut and the cable gland body.	.		Lmussi 2024-12-28	2025-01-20	AAndreani 2025-01-20	2025-01-20
C30002210	A	P-EJB-200N1-02-L1-12 C10000689	Not enought threads are thightened between the lock nut and the cable gland body.	.		Lmussi 2024-12-28	2025-01-20	AAndreani 2025-01-20	2025-01-20
C30002211	A	P-EJB-200N1-02-L1-12 C10000689	On EJB-200N1-02-L1-12 side the inner sheath of the cable does not properly exit from the cable gland.See attached photo.	.		Lmussi 2024-12-28	2025-01-20	AAndreani 2025-01-20	2025-01-20
C30002213	A	P-EJB-200N1-02-L1-12 C10000689	On both JBs sides (EJB-200N1-02-L1-12 & EJB-200N1-02-L1-13), ferrules to be replaced.	.		Lmussi 2024-12-28	2025-01-20	AAndreani 2025-01-20	2025-01-20
C30002216	A	P-EJB-200N1-02-L1-13 C10000691	On JB: EJB-200N1-02-L1-13 side the inner sheath of the cable does not properly exit from the cable gland.See attached photo.	.		Lmussi 2024-12-30	2025-01-20	AAndreani 2025-01-20	2025-01-20
C30002217	A	P-EJB-200N1-02-L1-13 C10000691	On both JBs (EJB-200N1-02-L1-03 & EJB-200N1-02-L1-13) sides, no adapter is needed as per cable list.	.		Lmussi 2024-12-30	2025-01-13	Ecarotenuto 2025-01-13	2025-01-13
C30002502	A	P-EJB-200N1-02-L1-05 C10000670	adapter is present on the cable glandon both JB (EJB-200N1-02-L1-02 & EJB-200N1-02-L1-05) side; (adapter is not present on cable list)	.		AAndreani 2025-01-09	2025-01-17	Gtangianu 2025-01-17	2025-01-17
C30002503	A	P-EJB-200N1-02-L1-05 C10000670	Not enought threads are thightened between the lock nut and the cable gland body. on both JB (EJB-200N1-02-L1-02 & EJB-200N1-02-L1-05)	.		AAndreani 2025-01-09	2025-01-20	AAndreani 2025-01-20	2025-01-20

Project CROSSWIND

PUNCH LIST REPORT

SYSTEM 83 Main Power Distribution Low Voltage 440 V
SUBSYSTEM 83-40 Normal Lighting Upper Deck

Electrical

CODE	CAT	ITEM	DEFECT DESCRIPTION	CORRECTIVE ACTION	PERFORMED ACTION	ISSUED	CARRIED	CHECKED	APPROVED
C30002624	A	P-EJB-200N1-02-L1-20 C10002368	The cable gland lock nut and serrated washer must be removed and replaced with a suitable cable gland lock nut. side EJB-200N1-02-L1-14 /	.		APolo 2025-01-10	2025-01-20	AAndreani 2025-01-20	2025-01-20
C30002633	A	P-EJB-200N1-02-L1-14 C10000693	The cable gland lock nut and serrated washer must be removed and replaced with a suitable cable gland lock nut. side EJB-200N1-02-L1-14.	.		APolo 2025-01-10	2025-01-20	AAndreani 2025-01-20	2025-01-20
C30002662	A	ELF-200N1-02-L1-03 C10001361	The earthing cable of the lamp must be connected to the nearest earthing bar / plate / threaded stud	.		APolo 2025-01-10	2025-01-23	AAndreani 2025-01-23	2025-01-23
C30002719	A	P-EJB-200N1-02-L1-08 C10000678	adapter is present on the cable gland (adapter is not present on cable list)	.		AAndreani 2025-01-13	2025-01-17	Gtangianu 2025-01-17	2025-01-17
C30002724	A	P-ELF-200N1-02-L1-13 C10000681	Not enought threads are thightened between the lock nut and the cable gland body. on JB side	.		AAndreani 2025-01-13	2025-01-22	GBertuccelli 2025-01-22	2025-01-22
C30002882	A	P-EJB-200N1-02-L1-06 C10000672	installed M25 cable gland instead of M20 as per cable list (EJB-200N1-02-L1-07)	.		AAndreani 2025-01-15	2025-01-22	GBertuccelli 2025-01-22	2025-01-22
C30002937	A	P-ELF-200N1-02-L1-06 C10000667	installed M25 cable gland instead of M20 as per cable list (EJB-200N1-02-L1-05 side)	.		AAndreani 2025-01-16	2025-01-22	GBertuccelli 2025-01-22	2025-01-22
C30001425	B	P-EJB-200N1-02-L1-15 C10000695	Cable rounting clashes with sharp edge of cable tray	.		Lmussi 2024-12-06	2025-01-20	AAndreani 2025-01-20	2025-01-20
C30001426	B	P-EJB-200N1-02-L1-15 C10000695	On EJB-200N1-02-L2-15 side, core identification tags are missing for all wires.	.		Lmussi 2024-12-06	2025-02-05	AAndreani 2025-02-05	2025-02-05

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PUNCH LIST REPORT

SYSTEM 83 Main Power Distribution Low Voltage 440 V
SUBSYSTEM 83-40 Normal Lighting Upper Deck

Electrical

CODE	CAT	ITEM	DEFECT DESCRIPTION	CORRECTIVE ACTION	PERFORMED ACTION	ISSUED	CARRIED	CHECKED	APPROVED
C30001427	B	P-EJB-200N1-02-L1-15 C10000695	On both JBs side, core labelling tag is missing	.		Lmussi 2024-12-06	2025-01-24	GBertuccelli 2025-01-24	2025-01-24
C30001447	B	ELF-200N1-02-L1-21 C10001355	Pole installation is not as per typical drawing 123A90-DDL-EL-DD-20091 rev 2 sheet 014 detail (it is not present the teflon sheet but teflon	.		Lmussi 2024-12-06	2024-12-19	AAndreani 2024-12-19	2024-12-19
C30001448	B	ELF-200N1-02-L1-21 C10001355	Light tag is missing	.		Lmussi 2024-12-06	2025-01-24	GBertuccelli 2025-01-24	2025-01-24
C30001449	B	ELF-200N1-02-L1-21 C10001355	The support is not well secured against vibration. another support needs to be added	.		Lmussi 2024-12-06	2025-03-07	Gtangianu 2025-03-07	2025-03-07
C30001451	B	ELF-200N1-02-L1-21 C10001355	Waterproof washer is missing on the plug	.		Lmussi 2024-12-06	2025-01-02	Ecarotenuto 2025-01-02	2025-01-02
C30001455	B	ELF-200N1-02-L1-20 C10001354	The support is not well secured against vibration. another support needs to be added	.		Lmussi 2024-12-06	2025-03-07	Gtangianu 2025-03-07	2025-03-07
C30001456	B	ELF-200N1-02-L1-20 C10001354	Light tag is missing	.		Lmussi 2024-12-06	2025-01-24	GBertuccelli 2025-01-24	2025-01-24
C30001459	B	ELF-200N1-02-L1-20 C10001354	Pole installation is not as per typical drawing 123A90-DDL-EL-DD-20091 rev 2 sheet 014 detail (it is not present the teflon sheet but teflon	.		Lmussi 2024-12-06	2024-12-19	AAndreani 2024-12-19	2024-12-19
C30001463	B	P-ELF-200N1-02-L1-20 C10000694	On light side cable labelling is missing	.		Lmussi 2024-12-06	2025-01-24	GBertuccelli 2025-01-24	2025-01-24

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SYSTEM 83 Main Power Distribution Low Voltage 440 V
SUBSYSTEM 83-40 Normal Lighting Upper Deck

Electrical

CODE	CAT	ITEM	DEFECT DESCRIPTION	CORRECTIVE ACTION	PERFORMED ACTION	ISSUED	CARRIED	CHECKED	APPROVED
C30001464	B	P-ELF-200N1-02-L1-20 C10000694	Core identification tags are missing for all wires	.		Lmussi 2024-12-06	2025-02-05	AAndreani 2025-02-05	2025-02-05
C30001466	B	P-ELF-200N1-02-L1-20 C10000694	Cable gland installation is not as per drawing 123A90-DDL-EL-DD-20091 rev 2 sheet 014 pos. 4. Cable is entering the Light cable gland	.		Lmussi 2024-12-06	2025-02-25	AAndreani 2025-02-25	2025-02-25
C30001467	B	P-ELF-200N1-02-L1-21 C10000696	Panduits on both sides (JB and light) are missing	.		Lmussi 2024-12-06	2025-01-30	AAndreani 2025-01-30	2025-01-30
C30001468	B	P-ELF-200N1-02-L1-21 C10000696	Core identification tags are missing for all wires	.		Lmussi 2024-12-06	2025-02-05	AAndreani 2025-02-05	2025-02-05
C30001469	B	P-ELF-200N1-02-L1-21 C10000696	Cable gland installation is not as per drawing 123A90-DDL-EL-DD-20091 rev 2 sheet 014 pos. 4. Cable is entering the Light cable gland	.		Lmussi 2024-12-06	2025-02-04	GBertuccelli 2025-02-04	2025-02-04
C30001471	B	ELF-200N1-02-L1-02 C10001338	missing tag	.		AAndreani 2024-12-06	2025-01-30	AAndreani 2025-01-30	2025-01-30
C30001472	B	ELF-200N1-02-L1-02 C10001338	Waterproof washer is missing on the plug	.		AAndreani 2024-12-06	2025-02-05	AAndreani 2025-02-05	2025-02-05
C30001475	B	P-ELF-200N1-02-L1-02 C10000663	Cable is entering the Light cable gland downwards while it should be upwards.	.		AAndreani 2024-12-06	2025-02-04	GBertuccelli 2025-02-04	2025-02-04
C30001477	B	P-ELF-200N1-02-L1-02 C10000663	missing cable labelling on both instrument and JB sides	.		AAndreani 2024-12-06	2025-01-30	AAndreani 2025-01-30	2025-01-30

Project CROSSWIND

PUNCH LIST REPORT

SYSTEM 83 Main Power Distribution Low Voltage 440 V

SUBSYSTEM 83-40 Normal Lighting Upper Deck

Electrical

CODE	CAT	ITEM	DEFECT DESCRIPTION	CORRECTIVE ACTION	PERFORMED ACTION	ISSUED	CARRIED	CHECKED	APPROVED
C30001478	B	ELF-200N1-02-L1-02 C10001338	The support is not well secured against vibration. another support needs to be added	.		AAndreani 2024-12-06	2025-03-07	Gtangianu 2025-03-07	2025-03-07
C30001479	B	ELF-200N1-02-L1-02 C10001338	Pole installation is not as per typical drawing 123A90-DDL-EL-DD-20091 rev 2 sheet 014 detail (it is not present the teflon sheet but teflon	.		AAndreani 2024-12-06	2024-12-28	Gtangianu 2024-12-28	2024-12-28
C30001485	B	P-ELF-200N1-02-L1-19 C10000692	On JB side, cable labelling is missing	.		Lmussi 2024-12-06	2025-01-24	GBertuccelli 2025-01-24	2025-01-24
C30001487	B	P-ELF-200N1-02-L1-19 C10000692	On JB side, core identification tags are missing for all wires	.		Lmussi 2024-12-06	2025-02-05	AAndreani 2025-02-05	2025-02-05
C30001489	B	P-ELF-200N1-02-L1-19 C10000692	Cable gland installation is not as per drawing 123A90-DDL-EL-DD-20091 rev 2 sheet 014 pos. 4. Cable is entering the Light cable gland	.		Lmussi 2024-12-06	2025-02-04	GBertuccelli 2025-02-04	2025-02-04
C30001494	B	P-ELF-200N1-02-L1-23 C10000700	On light side, cable labelling is missing	.		Lmussi 2024-12-06	2025-01-24	GBertuccelli 2025-01-24	2025-01-24
C30001495	B	P-ELF-200N1-02-L1-23 C10000700	On JB side, core identification tags are not as per Cross-Ferruling Philosophy for all wires	.		Lmussi 2024-12-06	2025-02-05	AAndreani 2025-02-05	2025-02-05
C30001496	B	P-ELF-200N1-02-L1-17 C10000688	missing cable labelling on both light sides	.		AAndreani 2024-12-06	2025-01-24	GBertuccelli 2025-01-24	2025-01-24
C30001498	B	P-ELF-200N1-02-L1-23 C10000700	Cable gland installation is not as per drawing 123A90-DDL-EL-DD-20091 rev 2 sheet 014 pos. 4. Cable is entering the Light cable gland	.		Lmussi 2024-12-06	2025-02-04	GBertuccelli 2025-02-04	2025-02-04

Project CROSSWIND

PUNCH LIST REPORT

SYSTEM 83 Main Power Distribution Low Voltage 440 V
SUBSYSTEM 83-40 Normal Lighting Upper Deck

Electrical

CODE	CAT	ITEM	DEFECT DESCRIPTION	CORRECTIVE ACTION	PERFORMED ACTION	ISSUED	CARRIED	CHECKED	APPROVED
C30001499	B	P-ELF-200N1-02-L1-17 C10000688	Core tag is missing for cable on both instrument and JB sides	.		AAndreani 2024-12-06	2025-02-05	AAndreani 2025-02-05	2025-02-05
C30001501	B	P-ELF-200N1-02-L1-17 C10000688	On Light side, cable is not dressed as per 123A90-XXXXXX rev. Y sheet ZZZ. Cable is entering the Light cable gland downwards while it	.		AAndreani 2024-12-06	2025-02-04	GBertuccelli 2025-02-04	2025-02-04
C30001503	B	P-ELF-200N1-02-L1-18 C10000690	On light side cable labelling is missing	.		Lmussi 2024-12-06	2025-01-24	GBertuccelli 2025-01-24	2025-01-24
C30001504	B	P-ELF-200N1-02-L1-18 C10000690	Core identification tag are not as per Cross-Ferruling Philosophy for all cores	.		Lmussi 2024-12-06	2025-02-05	AAndreani 2025-02-05	2025-02-05
C30001505	B	P-ELF-200N1-02-L1-18 C10000690	Cable gland installation is not as per drawing 123A90-DDL-EL-DD-20091 rev 2 sheet 014 pos. 4. Cable is entering the Light cable gland	.		Lmussi 2024-12-06	2025-02-04	GBertuccelli 2025-02-04	2025-02-04
C30001507	B	P-ELF-200N1-02-L1-22 C10000698	missing cable labelling on both instrument and JB sides	.		AAndreani 2024-12-07	2025-01-24	GBertuccelli 2025-01-24	2025-01-24
C30001508	B	P-ELF-200N1-02-L1-22 C10000698	Core tag is missing for cable on JB sides	.		AAndreani 2024-12-07	2025-02-05	AAndreani 2025-02-05	2025-02-05
C30001510	B	P-ELF-200N1-02-L1-22 C10000698	Cable is entering the Light cable gland downwards while it should be upwards	.		AAndreani 2024-12-07	2025-02-04	GBertuccelli 2025-02-04	2025-02-04
C30001511	B	ELF-200N1-02-L1-22 C10001356	The support is not well secured against vibration. another support needs to be added	.		AAndreani 2024-12-07	2025-03-07	Gtangianu 2025-03-07	2025-03-07

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PUNCH LIST REPORT

SYSTEM 83 Main Power Distribution Low Voltage 440 V

SUBSYSTEM 83-40 Normal Lighting Upper Deck

Electrical

CODE	CAT	ITEM	DEFECT DESCRIPTION	CORRECTIVE ACTION	PERFORMED ACTION	ISSUED	CARRIED	CHECKED	APPROVED
C30001512	B	ELF-200N1-02-L1-22 C10001356	Pole installation is not as per typical drawing 123A90-DDL-EL-DD-20091 rev 2 sheet 014 detail (it is not present the teflon sheet but teflon	.		AAndreani 2024-12-07	2024-12-19	AAndreani 2024-12-19	2024-12-19
C30001514	B	ELF-200N1-02-L1-22 C10001356	missing tag	.		AAndreani 2024-12-07	2024-12-30	Ecarotenuto 2024-12-30	2024-12-30
C30001518	B	P-ELF-200N1-02-L1-24 C10000702	missing cable labelling on JB sides	.		AAndreani 2024-12-07	2025-01-24	GBertuccelli 2025-01-24	2025-01-24
C30001519	B	P-ELF-200N1-02-L1-24 C10000702	Core tag is missing for cable on JB sides	.		AAndreani 2024-12-07	2025-02-05	AAndreani 2025-02-05	2025-02-05
C30001522	B	P-ELF-200N1-02-L1-24 C10000702	Cable is entering the Light cable gland downwards while it should be upwards	.		AAndreani 2024-12-07	2025-02-04	GBertuccelli 2025-02-04	2025-02-04
C30001525	B	P-ELF-200N1-02-L1-25 C10000704	missing cable labelling on light sides	.		AAndreani 2024-12-07	2025-01-20	AAndreani 2025-01-20	2025-01-20
C30001527	B	P-ELF-200N1-02-L1-25 C10000704	Core tag is missing for cable on both instrument and JB sides	.		AAndreani 2024-12-07	2025-02-05	AAndreani 2025-02-05	2025-02-05
C30001532	B	P-ELF-200N1-02-L1-25 C10000704	Cable is entering the Light cable gland downwards while it should be upwards	.		AAndreani 2024-12-07	2025-02-04	GBertuccelli 2025-02-04	2025-02-04
C30001535	B	P-ELF-200N1-02-L1-16 C10000686	missing cable labelling on light sides	.		AAndreani 2024-12-07	2025-01-24	GBertuccelli 2025-01-24	2025-01-24

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SYSTEM 83 Main Power Distribution Low Voltage 440 V

SUBSYSTEM 83-40 Normal Lighting Upper Deck

Electrical

CODE	CAT	ITEM	DEFECT DESCRIPTION	CORRECTIVE ACTION	PERFORMED ACTION	ISSUED	CARRIED	CHECKED	APPROVED
C30001536	B	P-ELF-200N1-02-L1-16 C10000686	Core tag is wrong on JB side and missing on light side	.		AAndreani 2024-12-07	2025-02-05	AAndreani 2025-02-05	2025-02-05
C30001538	B	P-ELF-200N1-02-L1-16 C10000686	Cable is entering the Light cable gland downwards while it should be upwards	.		AAndreani 2024-12-07	2025-02-04	GBertuccelli 2025-02-04	2025-02-04
C30001539	B	ELF-200N1-02-L1-16 C10001671	The support is not well secured against vibration. another support needs to be added	.		AAndreani 2024-12-07	2025-03-07	Gtangianu 2025-03-07	2025-03-07
C30001540	B	ELF-200N1-02-L1-16 C10001671	missing tag	.		AAndreani 2024-12-07	2025-01-31	Ecarotenuto 2025-01-31	2025-01-31
C30001541	B	ELF-200N1-02-L1-16 C10001671	Waterproof washers are missing on the plugs	.		AAndreani 2024-12-07	2025-02-05	AAndreani 2025-02-05	2025-02-05
C30002128	B	P-EJB-200N1-02-L1-19 C10000703	missing SS cable tag on both JBs side	.		AAndreani 2024-12-24	2025-01-24	GBertuccelli 2025-01-24	2025-01-24
C30002129	B	P-EJB-200N1-02-L1-19 C10000703	Core tag is missing for cable on both JBs side	.		AAndreani 2024-12-24	2025-02-05	AAndreani 2025-02-05	2025-02-05
C30002191	B	P-EJB-200N1-02-L1-17 C10000699	SS cable tag is missing on both JB (EJB-200N1-02-L1-17 & EJB-200N1-02-L1-18) sides.	.		Lmussi 2024-12-28	2025-01-24	GBertuccelli 2025-01-24	2025-01-24
C30002201	B	P-EJB-200N1-02-L1-18 C10000701	SS cable tag is missing on both JBs sides (EJB-200N1-02-L1-18 & P-EJB-200N1-02-L1-19).	.		Lmussi 2024-12-28	2025-01-24	GBertuccelli 2025-01-24	2025-01-24

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SYSTEM 83 Main Power Distribution Low Voltage 440 V
SUBSYSTEM 83-40 Normal Lighting Upper Deck

Electrical

CODE	CAT	ITEM	DEFECT DESCRIPTION	CORRECTIVE ACTION	PERFORMED ACTION	ISSUED	CARRIED	CHECKED	APPROVED
C30002203	B	P-EJB-200N1-02-L1-18 C10000701	On both JBs sides (EJB-200N1-02-L1-18 & EJB-200N1-02-L1-19) core identification tags are missing for all wires.	.		Lmussi 2024-12-28	2025-02-05	AAndreani 2025-02-05	2025-02-05
C30002207	B	P-EJB-200N1-02-L1-11 C10000687	On both JBs sides (EJB-200N1-02-L1-11 & EJB-200N1-02-L1-12) SS cable tag is missing.	.		Lmussi 2024-12-28	2025-01-24	GBertuccelli 2025-01-24	2025-01-24
C30002209	B	P-EJB-200N1-02-L1-12 C10000689	On both JBs sides (EJB-200N1-02-L1-13 & EJB-200N1-02-L1-13) SS cable tag is missing.	.		Lmussi 2024-12-28	2025-01-24	GBertuccelli 2025-01-24	2025-01-24
C30002212	B	P-EJB-200N1-02-L1-12 C10000689	On both JBs side, core identification tags are missing for all wires.	.		Lmussi 2024-12-28	2025-02-05	AAndreani 2025-02-05	2025-02-05
C30002215	B	P-EJB-200N1-02-L1-13 C10000691	On both JBs sides (EJB-200N1-02-L1-13 & EJB-200N1-02-L1-03) SS cable tags are missing.	.		Lmussi 2024-12-30	2025-01-24	GBertuccelli 2025-01-24	2025-01-24
C30002218	B	P-EJB-200N1-02-L1-13 C10000691	On both JBs sides (EJB-200N1-02-L1-03 & EJB-200N1-02-L1-13) core identification tags are missing for all wires.	.		Lmussi 2024-12-30	2025-02-05	AAndreani 2025-02-05	2025-02-05
C30002490	B	P-EJB-200N1-02-L1-10 C10000685	Missing cable tag side the EJB-200N1-02-L1-10,	.		Gtangianu 2025-01-09	2025-01-24	GBertuccelli 2025-01-24	2025-01-24
C30002491	B	P-EJB-200N1-02-L1-10 C10000685	Missing identification wires tag both side the cables.	.		Gtangianu 2025-01-09	2025-02-04	Gtangianu 2025-02-04	2025-02-04
C30002492	B	P-EJB-200N1-02-L1-09 C10000680	The cable is not protected below the (EJB-200N1-02-L1-09). Cable tray is short. See attached photo.	.		Gtangianu 2025-01-09	2025-01-30	AAndreani 2025-01-30	2025-01-30

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SYSTEM 83 Main Power Distribution Low Voltage 440 V
SUBSYSTEM 83-40 Normal Lighting Upper Deck

Electrical

CODE	CAT	ITEM	DEFECT DESCRIPTION	CORRECTIVE ACTION	PERFORMED ACTION	ISSUED	CARRIED	CHECKED	APPROVED
C30002493	B	P-EJB-200N1-02-L1-09 C10000680	Missing identification wires tag of both side. (P-EJB-200N1-02-L1-09/P-EJB-200N1-02-L1-08).	.		Gtangianu 2025-01-09	2025-02-04	Gtangianu 2025-02-04	2025-02-04
C30002494	B	P-EJB-200N1-02-L1-09 C10000680	Missing cable tag bot side the cable (EJB-200N1-02-L1-09(EJB-200N1-02-L1-08).	.		Gtangianu 2025-01-09	2025-01-24	GBertuccelli 2025-01-24	2025-01-24
C30002495	B	P-EJB-200N1-02-L1-09 C10000680	Bending radius to be arranged better under the (EJB-200N1-02-L1-09). See attached photo.	.		Gtangianu 2025-01-09	2025-01-30	AAndreani 2025-01-30	2025-01-30
C30002504	B	P-EJB-200N1-02-L1-05 C10000670	missing SS cable tag on both JBs (EJB-200N1-02-L1-02 & EJB-200N1-02-L1-05) side	.		AAndreani 2025-01-09	2025-02-03	APolo 2025-02-03	2025-02-03
C30002505	B	P-EJB-200N1-02-L1-05 C10000670	Core tag is missing for cable on both JB (EJB-200N1-02-L1-02 & EJB-200N1-02-L1-05) side	.		AAndreani 2025-01-09	2025-02-05	AAndreani 2025-02-05	2025-02-05
C30002620	B	P-EJB-200N1-02-L1-16 C10000697	Missing cable tag SS , near the jb EJB-200N1-02-L1-15 / jb EJB-200N1-02-L1-16	.		APolo 2025-01-10	2025-01-20	AAndreani 2025-01-20	2025-01-20
C30002621	B	P-EJB-200N1-02-L1-16 C10000697	Missing cores identification tag. side EJB-200N1-02-L1-15 / EJB-200N1-02-L1-16 . (see document 123A90-DDL-EL-DD-20092	.		APolo 2025-01-10	2025-02-05	AAndreani 2025-02-05	2025-02-05
C30002622	B	P-EJB-200N1-02-L1-20 C10002368	Missing cable tag SS , near EJB-200N1-02-L1-14 / near EJB-200N1-02-L1-14.	.		APolo 2025-01-10	2025-01-31	Ecarotenuto 2025-01-31	2025-01-31
C30002623	B	P-EJB-200N1-02-L1-20 C10002368	Wrong cores identification tag. side EJB-200N1-02-L1-14 / side EJB-200N1-02-L1-20. (see document 123A90-DDL-EL-DD-20092	.		APolo 2025-01-10	2025-02-04	APolo 2025-02-04	2025-02-04

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SYSTEM 83 Main Power Distribution Low Voltage 440 V
SUBSYSTEM 83-40 Normal Lighting Upper Deck

Electrical

CODE	CAT	ITEM	DEFECT DESCRIPTION	CORRECTIVE ACTION	PERFORMED ACTION	ISSUED	CARRIED	CHECKED	APPROVED
C30002625	B	P-EJB-200N1-02-L1-14 C10000693	Missing cable tag SS , near EJB-200N1-02-L1-13 / EJB-200N1-02-L1-14	.		APolo 2025-01-10	2025-01-20	AAndreani 2025-01-20	2025-01-20
C30002626	B	P-EJB-200N1-02-L1-14 C10000693	Missing cores identification tag. side EJB-200N1-02-L1-13 / side EJB-200N1-02-L1-14 . (see document 123A90-DDL-EL-DD-20092	.		APolo 2025-01-10	2025-02-05	GBertuccelli 2025-02-05	2025-02-05
C30002647	B	P-ELF-200N1-02-L1-03 C10000664	Missing cable tag SS , near EJB-200N1-02-L1-01 / ELF-200N1-02-L1-03	.		APolo 2025-01-10	2025-02-05	GBertuccelli 2025-02-05	2025-02-05
C30002652	B	ELF-200N1-02-L1-03 C10001361	The support is not well secured against vibration. another bracket needs to be added.	.		APolo 2025-01-10	2025-03-07	Gtangianu 2025-03-07	2025-03-07
C30002653	B	ELF-200N1-02-L1-03 C10001361	Missing traffolyte tag side Lighting	.		APolo 2025-01-10	2025-01-30	AAndreani 2025-01-30	2025-01-30
C30002691	B	P-EJB-200N1-02-L1-02 C10000665	missing SS cable tag on both JBs (EJB-200N1-02-L1-02 & EJB-200N1-02-L1-01) side	.		AAndreani 2025-01-11	2025-02-03	APolo 2025-02-03	2025-02-03
C30002717	B	P-EJB-200N1-02-L1-08 C10000678	missing SS cable tag on both JBs (EJB-200N1-02-L1-03 & EJB-200N1-02-L1-08) side	.		AAndreani 2025-01-13	2025-02-05	GBertuccelli 2025-02-05	2025-02-05
C30002718	B	P-EJB-200N1-02-L1-08 C10000678	Core tag is missing for cable on both JBs (EJB-200N1-02-L1-03 & EJB-200N1-02-L1-08) side	.		AAndreani 2025-01-13	2025-02-05	GBertuccelli 2025-02-05	2025-02-05
C30002720	B	P-ELF-200N1-02-L1-11 C10000679	missing SS cable tag on both JB and light side	.		AAndreani 2025-01-13	2025-01-24	GBertuccelli 2025-01-24	2025-01-24

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SUBSYSTEM 83-40 Normal Lighting Upper Deck

Electrical

CODE	CAT	ITEM	DEFECT DESCRIPTION	CORRECTIVE ACTION	PERFORMED ACTION	ISSUED	CARRIED	CHECKED	APPROVED
C30002725	B	P-ELF-200N1-02-L1-13 C10000681	missing SS cable tag on both JB and light side	.		AAndreani 2025-01-13	2025-01-24	GBertuccelli 2025-01-24	2025-01-24
C30002761	B	P-ELF-200N1-02-L1-04 C10000666	missing SS cable tag on both JB and light side	.		AAndreani 2025-01-14	2025-01-24	GBertuccelli 2025-01-24	2025-01-24
C30002767	B	P-ELF-200N1-02-L1-01 C10000662	missing SS cable tag on both JB and light side	.		AAndreani 2025-01-14	2025-01-24	GBertuccelli 2025-01-24	2025-01-24
C30002774	B	P-ELF-200N1-02-L1-05 C10000671	missing SS cable tag on both JB and light side	.		AAndreani 2025-01-14	2025-01-24	GBertuccelli 2025-01-24	2025-01-24
C30002865	B	P-ELF-200N1-02-L1-07 C10000668	missing SS cable tag on both light (ELF-200N1-02-L1-06 & ELF-200N1-02-L1-07) side	.		AAndreani 2025-01-15	2025-01-24	GBertuccelli 2025-01-24	2025-01-24
C30002868	B	P-ELF-200N1-02-L1-07 C10000668	cable is not supported outside cable tray ELF-200N1-02-L1-07 side	.		AAndreani 2025-01-15	2025-01-25	Gtangianu 2025-01-25	2025-01-25
C30002873	B	P-ELF-200N1-02-L1-10 C10000669	missing SS cable tag on both JB and light side	.		AAndreani 2025-01-15	2025-01-24	GBertuccelli 2025-01-24	2025-01-24
C30002881	B	P-EJB-200N1-02-L1-06 C10000672	missing SS cable tag on both JB (EJB-200N1-02-L1-07 & EJB-200N1-02-L1-06) side	.		AAndreani 2025-01-15	2025-01-24	GBertuccelli 2025-01-24	2025-01-24
C30002919	B	P-ELF-200N1-02-L1-08 C10000673	missing SS cable tag on both JB and light side	.		AAndreani 2025-01-16	2025-01-24	GBertuccelli 2025-01-24	2025-01-24

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SYSTEM	83	Main Power Distribution Low Voltage 440 V
SUBSYSTEM	83-40	Normal Lighting Upper Deck

Electrical

CODE	CAT	ITEM	DEFECT DESCRIPTION	CORRECTIVE ACTION	PERFORMED ACTION	ISSUED	CARRIED	CHECKED	APPROVED
C30002921	B	P-ELF-200N1-02-L1-08 C10000673	cable is not supported light side	.		AAndreani 2025-01-16	2025-01-31	GBertuccelli 2025-01-31	2025-01-31
C30002932	B	P-ELF-200N1-02-L1-12 C10000677	missing SS cable tag on both JB and light side	,		AAndreani 2025-01-16	2025-01-24	GBertuccelli 2025-01-24	2025-01-24
C30002936	B	P-ELF-200N1-02-L1-06 C10000667	missing SS cable tag on both JB and light side	.		AAndreani 2025-01-16	2025-01-24	GBertuccelli 2025-01-24	2025-01-24
C30002968	B	P-ELF-200N1-02-L1-10 C10000669	secondary cable tray is fixed on instrument primary cable tray . To be moved	.		AAndreani 2025-01-16	2025-02-05	GBertuccelli 2025-02-05	2025-02-05
C30003070	B	EJB-200N1-02-L1-14 C10001256	Missing the indications on the terminals box	.		APolo 2025-01-18	2025-02-05	GBertuccelli 2025-02-05	2025-02-05
C30003071	B	EJB-200N1-02-L1-14 C10001256	Missing cores identification	.		APolo 2025-01-18	2025-02-04	APolo 2025-02-04	2025-02-04
C30003072	B	EJB-200N1-02-L1-14 C10001256	The "plain" Lock nut must be removed and replaced with a suitable cable gland lock nut.	.		APolo 2025-01-18	2025-02-05	GBertuccelli 2025-02-05	2025-02-05
C30003111	B	P-EJB-200N1-02-L1-03 C10000676	missing SS cable tag on both JB and light side	.		AAndreani 2025-01-20	2025-01-31	GBertuccelli 2025-01-31	2025-01-31
C30003173	B	P-EJB-200N1-02-L1-01 C10000598	missing SS cable tag on JB side and plastic cable tag on panel side	.		AAndreani 2025-01-23	2025-02-05	GBertuccelli 2025-02-05	2025-02-05

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Electrical

CODE	CAT	ITEM	DEFECT DESCRIPTION	CORRECTIVE ACTION	PERFORMED ACTION	ISSUED	CARRIED	CHECKED	APPROVED
C30003183	B	EJB-200N1-02-L 1-20 C10002369	Trafolite tag is missing. See attached photo	.		GBertuccelli 2025-01-24	2025-02-21	JKrizanic 2025-02-21	2025-02-21
C30003184	B	EJB-200N1-02-L 1-20 C10002369	The support is not well secured against vibration. Another support needs to be added	.		GBertuccelli 2025-01-24	2025-03-07	Gtangianu 2025-03-07	2025-03-07
C30003185	B	EJB-200N1-02-L 1-20 C10002369	Identification tags on terminal block are missing	.		GBertuccelli 2025-01-24	2025-02-05	GBertuccelli 2025-02-05	2025-02-05

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SYSTEM 83 Main Power Distribution Low Voltage 440 V

SUBSYSTEM 83-40 Normal Lighting Upper Deck

ATEX

CODE	CAT	ITEM	DEFECT DESCRIPTION	CORRECTIVE ACTION	PERFORMED ACTION	ISSUED	CARRIED	CHECKED	APPROVED
C30002501	A	EJB-200N1-02-L1-19 C10001637	Missing earthing cable outside the JB. (EJB-200N1-02-L1-19). See attached photo.	.		Gtangianu 2025-01-09	2025-01-22	GBertuccelli 2025-01-22	2025-01-22
C30002765	A	ELF-200N1-02-L1-04 C10001357	missing earthing connection	.		AAndreani 2025-01-14	2025-01-20	AAndreani 2025-01-20	2025-01-20
C30002871	A	ELF-200N1-02-L1-07 C10001663	light is not connected to earth	.		AAndreani 2025-01-15	2025-01-20	AAndreani 2025-01-20	2025-01-20
C30002928	A	ELF-200N1-02-L1-08 C10001662	light not connected to earth	.		AAndreani 2025-01-16	2025-01-20	AAndreani 2025-01-20	2025-01-20
C30002933	A	ELF-200N1-02-L1-12 C10001667	light not connected to earth	.		AAndreani 2025-01-16	2025-01-20	AAndreani 2025-01-20	2025-01-20
C30002939	A	ELF-200N1-02-L1-06 C10001664	light not connected to earth	.		AAndreani 2025-01-16	2025-01-20	AAndreani 2025-01-20	2025-01-20
C30001711	B	ELF-200N1-02-L1-23 C10001697	the support is not well secured against vibration. another bracket needs to be added	.		AAndreani 2024-12-12	2025-03-07	Gtangianu 2025-03-07	2025-03-07
C30001712	B	ELF-200N1-02-L1-18 C10001673	Pole installation is not as per typical drawing 123A90-DDL-EL-DD-20091 rev 2 sheet 014 detail (it is not present the teflon sheet but teflon	.		GBertuccelli 2024-12-12	2024-12-19	AAndreani 2024-12-19	2024-12-19
C30001713	B	ELF-200N1-02-L1-23 C10001697	missing tag	.		AAndreani 2024-12-12	2025-01-30	AAndreani 2025-01-30	2025-01-30

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SYSTEM 83 Main Power Distribution Low Voltage 440 V
SUBSYSTEM 83-40 Normal Lighting Upper Deck

ATEX

CODE	CAT	ITEM	DEFECT DESCRIPTION	CORRECTIVE ACTION	PERFORMED ACTION	ISSUED	CARRIED	CHECKED	APPROVED
C30001714	B	ELF-200N1-02-L 1-23 C10001697	Missing traffolyte tag side instrument	.		AAndreani 2024-12-12	2024-12-27	Ecarotenuto 2024-12-27	2024-12-27
C30001716	B	ELF-200N1-02-L 1-18 C10001673	Missing traffolyte tag side instrument	.		GBertuccelli 2024-12-12	2024-12-27	Ecarotenuto 2024-12-27	2024-12-27
C30001717	B	ELF-200N1-02-L 1-18 C10001673	the support is not well secured against vibration. another bracket needs to be added.	.		GBertuccelli 2024-12-12	2025-03-07	Gtangianu 2025-03-07	2025-03-07
C30001718	B	ELF-200N1-02-L 1-18 C10001673	Missing tag	.		GBertuccelli 2024-12-12	2024-12-31	Ecarotenuto 2024-12-31	2024-12-31
C30001873	B	ELF-200N1-02-L 1-17 C10001672	tag is missing	.		AAndreani 2024-12-14	2024-12-19	Lmussi 2024-12-19	2024-12-19
C30001874	B	ELF-200N1-02-L 1-17 C10001672	Trafolite tag is missing	.		AAndreani 2024-12-14	2024-12-19	Lmussi 2024-12-19	2024-12-19
C30001875	B	ELF-200N1-02-L 1-17 C10001672	Pole installation is not as per typical drawing 123A90-DDL-EL-DD-20091 rev 2 sheet 014 detail (it is not present the teflon sheet but teflon	.		AAndreani 2024-12-14	2024-12-19	AAndreani 2024-12-19	2024-12-19
C30001876	B	ELF-200N1-02-L 1-17 C10001672	The support is not well secured against vibration. another support needs to be added	.		AAndreani 2024-12-14	2025-03-07	Gtangianu 2025-03-07	2025-03-07
C30001877	B	ELF-200N1-02-L 1-19 C10001674	The support is not well secured against vibration. another support needs to be added	.		AAndreani 2024-12-14	2025-03-07	Gtangianu 2025-03-07	2025-03-07

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C30001878	B	ELF-200N1-02-L 1-19 C10001674	Trafolite tag is missing	.		AAndreani 2024-12-14	2024-12-19	Lmussi 2024-12-19	2024-12-19
C30001879	B	ELF-200N1-02-L 1-19 C10001674	Tag is missing	.		AAndreani 2024-12-14	2024-12-19	Lmussi 2024-12-19	2024-12-19
C30001880	B	ELF-200N1-02-L 1-24 C10001675	The support is not well secured against vibration. another support needs to be added	.		AAndreani 2024-12-14	2025-03-07	Gtangianu 2025-03-07	2025-03-07
C30001881	B	ELF-200N1-02-L 1-24 C10001675	Trafolite tag is missing	.		AAndreani 2024-12-14	2024-12-19	Lmussi 2024-12-19	2024-12-19
C30001882	B	ELF-200N1-02-L 1-24 C10001675	Tag is missing	.		AAndreani 2024-12-14	2024-12-19	Lmussi 2024-12-19	2024-12-19
C30001883	B	ELF-200N1-02-L 1-25 C10001676	The support is not well secured against vibration. another support needs to be added	.		AAndreani 2024-12-14	2025-03-07	Gtangianu 2025-03-07	2025-03-07
C30001884	B	ELF-200N1-02-L 1-25 C10001676	Pole installation is not as per typical drawing 123A90-DDL-EL-DD-20091 rev 2 sheet 014 detail (it is not present the teflon sheet but teflon	.		AAndreani 2024-12-14	2024-12-19	AAndreani 2024-12-19	2024-12-19
C30001885	B	ELF-200N1-02-L 1-25 C10001676	Trafolite tag is missing	.		AAndreani 2024-12-14	2024-12-19	Lmussi 2024-12-19	2024-12-19
C30001886	B	ELF-200N1-02-L 1-25 C10001676	Tag is missing	.		AAndreani 2024-12-14	2024-12-19	Lmussi 2024-12-19	2024-12-19

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C30002277	B	EJB-200N1-02-L 1-11 C10001631	Drainage valve (123A90-DDL-EL-DS-20067) is missing.	.		Lmussi 2024-12-31	2025-01-14	Ecarotenuto 2025-01-14	2025-01-14
C30002278	B	EJB-200N1-02-L 1-11 C10001631	ATEX-certified plug is missing (instead, plastic plug is present).	.		Lmussi 2024-12-31	2025-01-30	AAndreani 2025-01-30	2025-01-30
C30002279	B	EJB-200N1-02-L 1-11 C10001631	Serrated washer is missing.	.		Lmussi 2024-12-31	2025-02-05	AAndreani 2025-02-05	2025-02-05
C30002280	B	EJB-200N1-02-L 1-11 C10001631	Identification tags on termianl block are missing.	.		Lmussi 2024-12-31	2025-02-05	AAndreani 2025-02-05	2025-02-05
C30002281	B	EJB-200N1-02-L 1-11 C10001631	On ATEX register (123A90-DDL-EL-LIS-20094 sheet 19) JB Serial Number is 24P00297990056, but actual is 24P00297990030.	.		Lmussi 2024-12-31	2025-04-17	Gtangianu 2025-04-17	2025-04-17
C30002286	B	EJB-200N1-02-L 1-12 C10001633	On ATEX register (123A90-DDL-EL-LIS-20094 sheet 19) JB Serial Number is 24P00297990055, but actual is 24P00297990031.	.		Lmussi 2025-01-02	2025-04-17	Gtangianu 2025-04-17	2025-04-17
C30002287	B	EJB-200N1-02-L 1-12 C10001633	Drainage valve (as per 123A90-DDL-EL-DS-20067) is missing.	.		Lmussi 2025-01-02	2025-01-14	Ecarotenuto 2025-01-14	2025-01-14
C30002311	B	EJB-200N1-02-L 1-12 C10001633	Serrated washers are missing.	.		Lmussi 2025-01-02	2025-01-20	AAndreani 2025-01-20	2025-01-20
C30002313	B	EJB-200N1-02-L 1-12 C10001633	Identification tags on terminal block are missing	.		Lmussi 2025-01-02	2025-02-05	AAndreani 2025-02-05	2025-02-05

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C30002366	B	EJB-200N1-02-L 1-17 C10001635	On ATEX register (123A90-DDL-EL-LIS-20094 sheet ZZ) JB Serial Number is 24P00297990050, but actual is 24P00297990034.	.		Lmussi 2025-01-07	2025-04-17	Gtangianu 2025-04-17	2025-04-17
C30002367	B	EJB-200N1-02-L 1-17 C10001635	Drainage valve (as per 123A90-DDL-EL-DS-20067) is missing.	.		Lmussi 2025-01-07	2025-01-14	Ecarotenuto 2025-01-14	2025-01-14
C30002368	B	EJB-200N1-02-L 1-17 C10001635	Serrated washer is missing on plugs	.		Lmussi 2025-01-07	2025-02-05	AAndreani 2025-02-05	2025-02-05
C30002369	B	EJB-200N1-02-L 1-17 C10001635	Identification tags on terminal block are missing.	.		Lmussi 2025-01-07	2025-02-05	AAndreani 2025-02-05	2025-02-05
C30002370	B	EJB-200N1-02-L 1-18 C10001636	On ATEX register (123A90-DDL-EL-LIS-20094 sheet ZZ) JB Serial Number is 24P00297990052, but actual is 24P00297990035.	.		Lmussi 2025-01-07	2025-04-17	Gtangianu 2025-04-17	2025-04-17
C30002371	B	EJB-200N1-02-L 1-18 C10001636	Drainage valve (as per 123A90-DDL-EL-DS-20067) is missing.	.		Lmussi 2025-01-07	2025-01-14	Ecarotenuto 2025-01-14	2025-01-14
C30002506	B	EJB-200N1-02-L 1-19 C10001637	The washer on the plugs need to be change. See attached photo.	.		Gtangianu 2025-01-09	2025-02-05	AAndreani 2025-02-05	2025-02-05
C30002721	B	ELF-200N1-02-L 1-11 C10001666	missing all lock nuts for stopped the lamp	.		AAndreani 2025-01-13	2025-01-17	Lmussi 2025-01-17	2025-01-17
C30002722	B	ELF-200N1-02-L 1-11 C10001666	Trafolite tag is missing	.		AAndreani 2025-01-13	2025-01-31	AAndreani 2025-01-31	2025-01-31

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C30002723	B	ELF-200N1-02-L 1-11 C10001666	The support is not well secured against vibration. another support needs to be added	.		AAndreani 2025-01-13	2025-03-07	Gtangianu 2025-03-07	2025-03-07
C30002726	B	ELF-200N1-02-L 1-13 C10001668	The support is not well secured against vibration. another support needs to be added	.		AAndreani 2025-01-13	2025-03-07	Gtangianu 2025-03-07	2025-03-07
C30002727	B	ELF-200N1-02-L 1-13 C10001668	Trafolite tag is missing	.		AAndreani 2025-01-13	2025-01-30	AAndreani 2025-01-30	2025-01-30
C30002728	B	ELF-200N1-02-L 1-13 C10001668	missing all lock nuts for stopped the lamp	.		AAndreani 2025-01-13	2025-01-17	Lmussi 2025-01-17	2025-01-17
C30002762	B	ELF-200N1-02-L 1-04 C10001357	light contaminated by rust, see attached foto	.		AAndreani 2025-01-14	2025-02-28	AAndreani 2025-02-28	2025-02-28
C30002763	B	ELF-200N1-02-L 1-04 C10001357	nylon sheet is missing under the supports	.		AAndreani 2025-01-14	2025-01-30	AAndreani 2025-01-30	2025-01-30
C30002764	B	ELF-200N1-02-L 1-04 C10001357	missing all lock nuts for stopped the lamp	.		AAndreani 2025-01-14	2025-01-17	Lmussi 2025-01-17	2025-01-17
C30002766	B	ELF-200N1-02-L 1-04 C10001357	Trafolite tag is missing	.		AAndreani 2025-01-14	2025-01-30	AAndreani 2025-01-30	2025-01-30
C30002769	B	ELF-200N1-02-L 1-01 C10001337	nylon sheet is missing under the supports	.		AAndreani 2025-01-14	2025-01-31	AAndreani 2025-01-31	2025-01-31

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C30002770	B	ELF-200N1-02-L1-01 C10001337	missing all lock nuts for stopped the lamp	.		AAndreani 2025-01-14	2025-01-17	Lmussi 2025-01-17	2025-01-17
C30002771	B	ELF-200N1-02-L1-01 C10001337	missing earthing connection	.		AAndreani 2025-01-14	2025-01-30	AAndreani 2025-01-30	2025-01-30
C30002772	B	ELF-200N1-02-L1-01 C10001337	Trafolite tag is missing	.		AAndreani 2025-01-14	2025-01-30	AAndreani 2025-01-30	2025-01-30
C30002775	B	ELF-200N1-02-L1-05 C10001665	The support is not well secured against vibration. another support needs to be added	.		AAndreani 2025-01-14	2025-03-07	Gtangianu 2025-03-07	2025-03-07
C30002776	B	ELF-200N1-02-L1-05 C10001665	missing all lock nuts for stopped the lamp	.		AAndreani 2025-01-14	2025-01-17	Lmussi 2025-01-17	2025-01-17
C30002869	B	ELF-200N1-02-L1-07 C10001663	Missing piece of black PVC between side caps and glass	.		AAndreani 2025-01-15	2025-01-17	Lmussi 2025-01-17	2025-01-17
C30002870	B	ELF-200N1-02-L1-07 C10001663	missing one screw on the cover	.		AAndreani 2025-01-15	2025-01-25	Gtangianu 2025-01-25	2025-01-25
C30002872	B	ELF-200N1-02-L1-07 C10001663	missing all lock nuts for stopped the lamp	.		AAndreani 2025-01-15	2025-01-17	Lmussi 2025-01-17	2025-01-17
C30002875	B	ELF-200N1-02-L1-10 C10001660	lighting pole not connected to earth	.		AAndreani 2025-01-15	2025-01-30	AAndreani 2025-01-30	2025-01-30

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C30002877	B	ELF-200N1-02-L1-10 C10001660	Trafolite tag is missing	.		AAndreani 2025-01-15	2025-01-31	GBertuccelli 2025-01-31	2025-01-31
C30002879	B	ELF-200N1-02-L1-10 C10001660	missing all lock nuts for stopped the lamp	.		AAndreani 2025-01-15	2025-01-17	Lmussi 2025-01-17	2025-01-17
C30002880	B	ELF-200N1-02-L1-07 C10001663	Trafolite tag is missing	.		AAndreani 2025-01-15	2025-01-25	Gtangianu 2025-01-25	2025-01-25
C30002925	B	ELF-200N1-02-L1-08 C10001662	trafolite tag is wrong	.		AAndreani 2025-01-16	2025-01-30	AAndreani 2025-01-30	2025-01-30
C30002926	B	ELF-200N1-02-L1-08 C10001662	The support is not well secured against vibration. another support needs to be added	.		AAndreani 2025-01-16	2025-03-07	Gtangianu 2025-03-07	2025-03-07
C30002927	B	ELF-200N1-02-L1-08 C10001662	missing all lock nuts for stopped the lamp	.		AAndreani 2025-01-16	2025-01-17	Lmussi 2025-01-17	2025-01-17
C30002934	B	ELF-200N1-02-L1-12 C10001667	missing all lock nuts for stopped the lamp	.		AAndreani 2025-01-16	2025-01-17	Lmussi 2025-01-17	2025-01-17
C30002935	B	ELF-200N1-02-L1-12 C10001667	trafolite tag is missing	.		AAndreani 2025-01-16	2025-01-30	GBertuccelli 2025-01-30	2025-01-30
C30002938	B	ELF-200N1-02-L1-06 C10001664	trafolite tag is missing	.		AAndreani 2025-01-16	2025-01-30	GBertuccelli 2025-01-30	2025-01-30

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C30002940	B	ELF-200N1-02-L1-06 C10001664	missing all lock nuts for stopped the lamp	.		AAndreani 2025-01-16	2025-01-17	Lmussi 2025-01-17	2025-01-17
C30002987	B	EJB-200N1-02-L1-08 C10001629	On ATEX register (123A90-DDL-EL-LIS-20094 sheet ZZ) JB Serial Number is 24P00297990060, but actual is 24P00297990011	.		Lmussi 2025-01-17	2025-04-17	Gtangianu 2025-04-17	2025-04-17
C30002988	B	EJB-200N1-02-L1-08 C10001629	Ex e plug is missing	.		Lmussi 2025-01-17	2025-02-05	GBertuccelli 2025-02-05	2025-02-05
C30002989	B	EJB-200N1-02-L1-08 C10001629	Antivibration washer is missing	.		Lmussi 2025-01-17	2025-03-03	Gtangianu 2025-03-03	2025-03-03
C30002990	B	EJB-200N1-02-L1-08 C10001629	Identification tags on terminal block are missing	.		Lmussi 2025-01-17	2025-02-05	GBertuccelli 2025-02-05	2025-02-05
C30003075	B	EJB-200N1-02-L1-16 C10001258	The unused entries "are not plugged" with approved Stopping boxes.	.		APolo 2025-01-18	2025-02-05	GBertuccelli 2025-02-05	2025-02-05
C30003076	B	EJB-200N1-02-L1-16 C10001258	Missing cores identification	.		APolo 2025-01-18	2025-02-04	APolo 2025-02-04	2025-02-04
C30003077	B	EJB-200N1-02-L1-05 C10001626	The "plain" Lock nut must be removed and replaced with a suitable cable gland lock nut.	.		APolo 2025-01-18	2025-02-06	GBertuccelli 2025-02-06	2025-02-06
C30003078	B	EJB-200N1-02-L1-05 C10001626	Wires inside JB have to be dressed properly	.		APolo 2025-01-18	2025-02-05	GBertuccelli 2025-02-05	2025-02-05

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C30003079	B	EJB-200N1-02-L 1-06 C10001627	the earth cable is not fixed	.		APolo 2025-01-18	2025-01-30	GBertuccelli 2025-01-30	2025-01-30
C30003080	B	EJB-200N1-02-L 1-06 C10001627	The "plain" Lock nut must be removed and replaced with a suitable cable gland lock nut.	.		APolo 2025-01-18	2025-02-05	GBertuccelli 2025-02-05	2025-02-05
C30003081	B	EJB-200N1-02-L 1-06 C10001627	Missing the indications on the terminals box	.		APolo 2025-01-18	2025-02-05	GBertuccelli 2025-02-05	2025-02-05
C30003082	B	EJB-200N1-02-L 1-06 C10001627	Wires inside JB have to be dressed properly	.		APolo 2025-01-18	2025-02-05	GBertuccelli 2025-02-05	2025-02-05
C30003083	B	EJB-200N1-02-L 1-07 C10001628	the earth cable is not fixed	.		APolo 2025-01-18	2025-01-30	GBertuccelli 2025-01-30	2025-01-30
C30003084	B	EJB-200N1-02-L 1-07 C10001628	The "plain" Lock nut must be removed and replaced with a suitable cable gland lock nut.	.		APolo 2025-01-18	2025-02-05	GBertuccelli 2025-02-05	2025-02-05
C30003085	B	EJB-200N1-02-L 1-07 C10001628	Wires inside JB have to be dressed properly	.		APolo 2025-01-18	2025-02-05	GBertuccelli 2025-02-05	2025-02-05
C30003086	B	EJB-200N1-02-L 1-09 C10001632	the earth cable is not fixed	.		APolo 2025-01-18	2025-01-30	GBertuccelli 2025-01-30	2025-01-30
C30003087	B	EJB-200N1-02-L 1-09 C10001632	The cable gland lock nut and serrated washer must be removed and replaced with a suitable lock nut on plug	.		APolo 2025-01-18	2025-02-05	GBertuccelli 2025-02-05	2025-02-05

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C30003088	B	EJB-200N1-02-L 1-09 C10001632	Wires inside JB have to be dressed properly	.		APolo 2025-01-18	2025-02-05	GBertuccelli 2025-02-05	2025-02-05
C30003089	B	EJB-200N1-02-L 1-13 C10001634	The "plain" Lock nut must be removed and replaced with a suitable lock nut.	.		APolo 2025-01-18	2025-02-05	GBertuccelli 2025-02-05	2025-02-05
C30003090	B	EJB-200N1-02-L 1-13 C10001634	Missing the indications on the terminals box	.		APolo 2025-01-18	2025-02-05	GBertuccelli 2025-02-05	2025-02-05
C30003091	B	EJB-200N1-02-L 1-13 C10001634	The cable gland is loose	.	Done.	APolo 2025-01-18	2025-01-30	GBertuccelli 2025-01-30	2025-01-30
C30003092	B	EJB-200N1-02-L 1-03 C10001653	the earth cable is not fixed	.		APolo 2025-01-18	2025-01-30	GBertuccelli 2025-01-30	2025-01-30
C30003093	B	EJB-200N1-02-L 1-03 C10001653	Missing the indications on the terminals box	.		APolo 2025-01-18	2025-02-05	GBertuccelli 2025-02-05	2025-02-05
C30003153	B	ELF-200N1-02-L 1-09 C10001661	The support is not well secured against vibration. another support needs to be added	.		AAndreani 2025-01-22	2025-03-07	Gtangianu 2025-03-07	2025-03-07
C30003156	B	EJB-200N1-02-L 1-15 C10001257	On ATEX register (123A90-DDL-EL-LIS-20094 sh 19) JB serial number is 24P00297990052, but actual is 24P00297990027	.		AAndreani 2025-01-22	2025-04-17	Gtangianu 2025-04-17	2025-04-17
C30003171	B	EJB-200N1-02-L 1-01 C10001281	Identification tags on terminal block are missing	.		GBertuccelli 2025-01-23	2025-02-05	GBertuccelli 2025-02-05	2025-02-05

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C30003172	B	EJB-200N1-02-L1-01 C10001281	On ATEX register 123A90-DDL-EL-LIS-20094 Sheet 19) JB serial number is 24P00297990045, but actual is 24P00297990083	.		GBertuccelli 2025-01-23	2025-04-17	Gtangianu 2025-04-17	2025-04-17
C30003213	B	EJB-200N1-02-L1-02 C10001652	missing serrated washer on plug	.		AAndreani 2025-01-27	2025-03-11	JKrizanic 2025-03-11	2025-03-11
C30003214	B	EJB-200N1-02-L1-02 C10001652	On ATEX register 123A90-DDL-EL-LIS-20094 Sheet 19) JB serial number is 24P00297990044, but actual is 24P00297990084	.		AAndreani 2025-01-27	2025-04-17	Gtangianu 2025-04-17	2025-04-17
C30003215	B	EJB-200N1-02-L1-02 C10001652	Identification tags on terminal block are missing.	.		AAndreani 2025-01-27	2025-02-05	GBertuccelli 2025-02-05	2025-02-05

ROSETTI MARINO CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30003214

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10001652	1.4 Discipline	ATEX
1.2 Item	EJB-200N1-02-L1-02	JB - NORMAL LIGHTING	
1.3 Subsystem	83-40	Normal Lighting Upper Deck	

2 - OBSERVATION

On ATEX register 123A90-DDL-EL-LIS-20094 Sheet 19) JB serial number is 24P00297990044, but actual is 24P00297990084

Name: Andrea Andreani

Date: 2025-01-27

Signature:

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Andrea Andreani
3.4 Activity code	MC Mechanical Completion	Date	2025-01-27
3.5 Action by	ENG Engineering	Signature	

4 - PERFORMED ACTION

Name:

Date:

Signature:

5 - CLEARANCE CHECK

ATEX register updated.

Name: Giovanni Tangianu

Date: 2025-04-17

Signature:

6- CLEARANCE APPROVAL

Name:

Date:

Signature:

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30003215

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10001652	1.4 Discipline	ATEX
1.2 Item	EJB-200N1-02-L1-02	JB - NORMAL LIGHTING	
1.3 Subsystem	83-40	Normal Lighting Upper Deck	

2 - OBSERVATION

Identification tags on terminal block are missing.

Name: Andrea Andreani

Date: 2025-01-27

Signature:

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Andrea Andreani
3.4 Activity code	MC Mechanical Completion	Date	2025-01-27
3.5 Action by	RM_CONSTR RM	Signature	

4 - PERFORMED ACTION

Name:

Date:

Signature:

5 - CLEARANCE CHECK

Done

Name: Gabriele Bertuccelli

Date: 2025-02-05

Signature:

6- CLEARANCE APPROVAL

Name:

Date:

Signature:

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30002870

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10001663	1.4 Discipline	ATEX
1.2 Item	ELF-200N1-02-L1-07	NORMAL LIGHT	
1.3 Subsystem	83-40	Normal Lighting Upper Deck	

2 - OBSERVATION

missing one screw on the cover

Name: Andrea Andreani

Date: 2025-01-15

Signature:

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Andrea Andreani
3.4 Activity code	MC Mechanical Completion	Date	2025-01-15
3.5 Action by	RM_CONSTR RM	Signature	

4 - PERFORMED ACTION

Name:

Date:

Signature:

5 - CLEARANCE CHECK

Installed.

Name: Giovanni Tangianu

Date: 2025-01-25

Signature:

6- CLEARANCE APPROVAL

Name:

Date:

Signature:

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30002871

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10001663	1.4 Discipline	ATEX
1.2 Item	ELF-200N1-02-L1-07	NORMAL LIGHT	
1.3 Subsystem	83-40	Normal Lighting Upper Deck	

2 - OBSERVATION

light is not connected to earth

Name: Andrea Andreani
Date: 2025-01-15
Signature:

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	A PL A	Name	Andrea Andreani
3.4 Activity code	MC Mechanical Completion	Date	2025-01-15
3.5 Action by	RM_CONSTR RM	Signature	

4 - PERFORMED ACTION

Name:
Date:
Signature:

5 - CLEARANCE CHECK

DONE

Name: Andrea Andreani
Date: 2025-01-20
Signature:

6- CLEARANCE APPROVAL

Name:
Date:
Signature:

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30002872

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10001663	1.4 Discipline	ATEX
1.2 Item	ELF-200N1-02-L1-07	NORMAL LIGHT	
1.3 Subsystem	83-40	Normal Lighting Upper Deck	

2 - OBSERVATION

missing all lock nuts for stopped the lamp

Name: Andrea Andreani

Date: 2025-01-15

Signature:

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Andrea Andreani
3.4 Activity code	MC Mechanical Completion	Date	2025-01-15
3.5 Action by	RM_CONSTR RM	Signature	

4 - PERFORMED ACTION

Name:

Date:

Signature:

5 - CLEARANCE CHECK

Point not applicable

Name: Luca Mussi

Date: 2025-01-17

Signature:

6- CLEARANCE APPROVAL

Name:

Date:

Signature:

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30002873

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10000669	1.4 Discipline	Electrical
1.2 Item	P-ELF-200N1-02-L1-10	Normal Lighting Fixture / Normal Lighting Fixture	
1.3 Subsystem	83-40	Normal Lighting Upper Deck	

2 - OBSERVATION

missing SS cable tag on both JB and light side

Name: Andrea Andreani

Date: 2025-01-15

Signature:

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Andrea Andreani
3.4 Activity code	MC Mechanical Completion	Date	2025-01-15
3.5 Action by	RM_CONSTR RM	Signature	

4 - PERFORMED ACTION

Name:

Date:

Signature:

5 - CLEARANCE CHECK

Done

Name: Gabriele Bertuccelli

Date: 2025-01-24

Signature:

6- CLEARANCE APPROVAL

Name:

Date:

Signature:

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30002875

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10001660	1.4 Discipline	ATEX
1.2 Item	ELF-200N1-02-L1-10	NORMAL LIGHT	
1.3 Subsystem	83-40	Normal Lighting Upper Deck	

2 - OBSERVATION

lighting pole not connected to earth

Name: Andrea Andreani

Date: 2025-01-15

Signature:

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Andrea Andreani
3.4 Activity code	MC Mechanical Completion	Date	2025-01-15
3.5 Action by	RM_CONSTR RM	Signature	

4 - PERFORMED ACTION

Name:

Date:

Signature:

5 - CLEARANCE CHECK

DONE

Name: Andrea Andreani

Date: 2025-01-30

Signature:

6- CLEARANCE APPROVAL

Name:

Date:

Signature:

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30002877

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10001660	1.4 Discipline	ATEX
1.2 Item	ELF-200N1-02-L1-10	NORMAL LIGHT	
1.3 Subsystem	83-40	Normal Lighting Upper Deck	

2 - OBSERVATION

Trafolite tag is missing

Name: Andrea Andreani

Date: 2025-01-15

Signature:

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Andrea Andreani
3.4 Activity code	MC Mechanical Completion	Date	2025-01-15
3.5 Action by	RM_CONSTR RM	Signature	

4 - PERFORMED ACTION

Name:

Date:

Signature:

5 - CLEARANCE CHECK

Done

Name: Gabriele Bertuccelli

Date: 2025-01-31

Signature:

6- CLEARANCE APPROVAL

Name:

Date:

Signature:

ROSETTI MARINO CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30002879

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10001660	1.4 Discipline	ATEX
1.2 Item	ELF-200N1-02-L1-10	NORMAL LIGHT	
1.3 Subsystem	83-40	Normal Lighting Upper Deck	

2 - OBSERVATION

missing all lock nuts for stopped the lamp

Name: Andrea Andreani

Date: 2025-01-15

Signature:

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Andrea Andreani
3.4 Activity code	MC Mechanical Completion	Date	2025-01-15
3.5 Action by	RM_CONSTR RM	Signature	

4 - PERFORMED ACTION

Name:

Date:

Signature:

5 - CLEARANCE CHECK

Point not applicable

Name: Luca Mussi

Date: 2025-01-17

Signature:

6- CLEARANCE APPROVAL

Name:

Date:

Signature:

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30002880

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10001663	1.4 Discipline	ATEX
1.2 Item	ELF-200N1-02-L1-07	NORMAL LIGHT	
1.3 Subsystem	83-40	Normal Lighting Upper Deck	

2 - OBSERVATION

Trafolite tag is missing

Name: Andrea Andreani

Date: 2025-01-15

Signature:

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Andrea Andreani
3.4 Activity code	MC Mechanical Completion	Date	2025-01-15
3.5 Action by	RM_CONSTR RM	Signature	

4 - PERFORMED ACTION

Name:

Date:

Signature:

5 - CLEARANCE CHECK

Installed.

Name: Giovanni Tangianu

Date: 2025-01-25

Signature:

6- CLEARANCE APPROVAL

Name:

Date:

Signature:

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30002881

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10000672	1.4 Discipline	Electrical
1.2 Item	P-EJB-200N1-02-L1-06	Normal Lighting JB / Normal Lighting JB	
1.3 Subsystem	83-40	Normal Lighting Upper Deck	

2 - OBSERVATION

missing SS cable tag on both JB (EJB-200N1-02-L1-07 & EJB-200N1-02-L1-06) side

Name: Andrea Andreani

Date: 2025-01-15

Signature:

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Andrea Andreani
3.4 Activity code	MC Mechanical Completion	Date	2025-01-15
3.5 Action by	RM_CONSTR RM	Signature	

4 - PERFORMED ACTION

Name:

Date:

Signature:

5 - CLEARANCE CHECK

Done

Name: Gabriele Bertuccelli

Date: 2025-01-24

Signature:

6- CLEARANCE APPROVAL

Name:

Date:

Signature:

ROSETTI MARINO CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30002882

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10000672	1.4 Discipline	Electrical
1.2 Item	P-EJB-200N1-02-L1-06	Normal Lighting JB / Normal Lighting JB	
1.3 Subsystem	83-40	Normal Lighting Upper Deck	

2 - OBSERVATION

installed M25 cable gland instead of M20 as per cable list (EJB-200N1-02-L1-07)

Name: Andrea Andreani

Date: 2025-01-15

Signature:

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	A PL A	Name	Andrea Andreani
3.4 Activity code	MC Mechanical Completion	Date	2025-01-15
3.5 Action by	RM_CONSTR RM	Signature	

4 - PERFORMED ACTION

Name:

Date:

Signature:

5 - CLEARANCE CHECK

Done

Name: Gabriele Bertuccelli

Date: 2025-01-22

Signature:

6- CLEARANCE APPROVAL

Name:

Date:

Signature:

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30002919

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10000673	1.4 Discipline	Electrical
1.2 Item	P-ELF-200N1-02-L1-08	Normal Lighting JB / Normal Lighting Fixture	
1.3 Subsystem	83-40	Normal Lighting Upper Deck	

2 - OBSERVATION

missing SS cable tag on both JB and light side

Name: Andrea Andreani

Date: 2025-01-16

Signature:

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Andrea Andreani
3.4 Activity code	MC Mechanical Completion	Date	2025-01-16
3.5 Action by	RM_CONSTR RM	Signature	

4 - PERFORMED ACTION

Name:

Date:

Signature:

5 - CLEARANCE CHECK

Done

Name: Gabriele Bertuccelli

Date: 2025-01-24

Signature:

6- CLEARANCE APPROVAL

Name:

Date:

Signature:

ROSETTI MARINO CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30002921

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10000673	1.4 Discipline	Electrical
1.2 Item	P-ELF-200N1-02-L1-08	Normal Lighting JB / Normal Lighting Fixture	
1.3 Subsystem	83-40	Normal Lighting Upper Deck	

2 - OBSERVATION

cable is not supported light side

Name: Andrea Andreani

Date: 2025-01-16

Signature:

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Andrea Andreani
3.4 Activity code	MC Mechanical Completion	Date	2025-01-16
3.5 Action by	RM_CONSTR RM	Signature	

4 - PERFORMED ACTION

Name:

Date:

Signature:

5 - CLEARANCE CHECK

Done

Name: Gabriele Bertuccelli

Date: 2025-01-31

Signature:

6- CLEARANCE APPROVAL

Name:

Date:

Signature:

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30002925

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10001662	1.4 Discipline	ATEX
1.2 Item	ELF-200N1-02-L1-08	NORMAL LIGHT	
1.3 Subsystem	83-40	Normal Lighting Upper Deck	

2 - OBSERVATION

trafolite tag is wrong

Name: Andrea Andreani

Date: 2025-01-16

Signature:

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Andrea Andreani
3.4 Activity code	MC Mechanical Completion	Date	2025-01-16
3.5 Action by	RM_CONSTR RM	Signature	

4 - PERFORMED ACTION

Name:

Date:

Signature:

5 - CLEARANCE CHECK

DONE

Name: Andrea Andreani

Date: 2025-01-30

Signature:

6- CLEARANCE APPROVAL

Name:

Date:

Signature:

ROSETTI MARINO CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30002926

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10001662	1.4 Discipline	ATEX
1.2 Item	ELF-200N1-02-L1-08	NORMAL LIGHT	
1.3 Subsystem	83-40	Normal Lighting Upper Deck	

2 - OBSERVATION

The support is not well secured against vibration. another support needs to be added

Name: Andrea Andreani

Date: 2025-01-16

Signature:

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Andrea Andreani
3.4 Activity code	MC Mechanical Completion	Date	2025-01-16
3.5 Action by	RM_CONSTR RM	Signature	

4 - PERFORMED ACTION

Name:

Date:

Signature:

5 - CLEARANCE CHECK

Installation carried out as per typical 123A90-DDL-EL-DD-20091 and 123A90-DDL-IN-DD-40017 drawing. Eng states that no additional support is needed.

Name: Giovanni Tangianu

Date: 2025-03-07

Signature:

6- CLEARANCE APPROVAL

Name:

Date:

Signature:

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30002927

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10001662	1.4 Discipline	ATEX
1.2 Item	ELF-200N1-02-L1-08	NORMAL LIGHT	
1.3 Subsystem	83-40	Normal Lighting Upper Deck	

2 - OBSERVATION

missing all lock nuts for stopped the lamp

Name: Andrea Andreani

Date: 2025-01-16

Signature:

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Andrea Andreani
3.4 Activity code	MC Mechanical Completion	Date	2025-01-16
3.5 Action by	RM_CONSTR RM	Signature	

4 - PERFORMED ACTION

Name:

Date:

Signature:

5 - CLEARANCE CHECK

Point not applicable

Name: Luca Mussi

Date: 2025-01-17

Signature:

6- CLEARANCE APPROVAL

Name:

Date:

Signature:

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30002928

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10001662	1.4 Discipline	ATEX
1.2 Item	ELF-200N1-02-L1-08	NORMAL LIGHT	
1.3 Subsystem	83-40	Normal Lighting Upper Deck	

2 - OBSERVATION

light not connected to earth

Name: Andrea Andreani

Date: 2025-01-16

Signature:

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	A PL A	Name	Andrea Andreani
3.4 Activity code	MC Mechanical Completion	Date	2025-01-16
3.5 Action by	RM_CONSTR RM	Signature	

4 - PERFORMED ACTION

Name:

Date:

Signature:

5 - CLEARANCE CHECK

DONE

Name: Andrea Andreani

Date: 2025-01-20

Signature:

6- CLEARANCE APPROVAL

Name:

Date:

Signature:

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30002932

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10000677	1.4 Discipline	Electrical
1.2 Item	P-ELF-200N1-02-L1-12	Normal Lighting JB / Normal Lighting Fixture	
1.3 Subsystem	83-40	Normal Lighting Upper Deck	

2 - OBSERVATION

missing SS cable tag on both JB and light side

Name: Andrea Andreani

Date: 2025-01-16

Signature:

3 - DEFECT ASSESSMENT

,

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Andrea Andreani
3.4 Activity code	MC Mechanical Completion	Date	2025-01-16
3.5 Action by	RM_CONSTR RM	Signature	

4 - PERFORMED ACTION

Name:

Date:

Signature:

5 - CLEARANCE CHECK

Done

Name: Gabriele Bertuccelli

Date: 2025-01-24

Signature:

6- CLEARANCE APPROVAL

Name:

Date:

Signature:

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30002933

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10001667	1.4 Discipline	ATEX
1.2 Item	ELF-200N1-02-L1-12	NORMAL LIGHT	
1.3 Subsystem	83-40	Normal Lighting Upper Deck	

2 - OBSERVATION

light not connected to earth

Name: Andrea Andreani

Date: 2025-01-16

Signature:

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	A PL A	Name	Andrea Andreani
3.4 Activity code	MC Mechanical Completion	Date	2025-01-16
3.5 Action by	RM_CONSTR RM	Signature	

4 - PERFORMED ACTION

Name:

Date:

Signature:

5 - CLEARANCE CHECK

DONE

Name: Andrea Andreani

Date: 2025-01-20

Signature:

6- CLEARANCE APPROVAL

Name:

Date:

Signature:

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30002934

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10001667	1.4 Discipline	ATEX
1.2 Item	ELF-200N1-02-L1-12	NORMAL LIGHT	
1.3 Subsystem	83-40	Normal Lighting Upper Deck	

2 - OBSERVATION

missing all lock nuts for stopped the lamp

Name: Andrea Andreani

Date: 2025-01-16

Signature:

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Andrea Andreani
3.4 Activity code	MC Mechanical Completion	Date	2025-01-16
3.5 Action by	RM_CONSTR RM	Signature	

4 - PERFORMED ACTION

Name:

Date:

Signature:

5 - CLEARANCE CHECK

Point not applicable

Name: Luca Mussi

Date: 2025-01-17

Signature:

6- CLEARANCE APPROVAL

Name:

Date:

Signature:

ROSETTI MARINO CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30002935

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10001667	1.4 Discipline	ATEX
1.2 Item	ELF-200N1-02-L1-12	NORMAL LIGHT	
1.3 Subsystem	83-40	Normal Lighting Upper Deck	

2 - OBSERVATION

trafolite tag is missing

Name: Andrea Andreani

Date: 2025-01-16

Signature:

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Andrea Andreani
3.4 Activity code	MC Mechanical Completion	Date	2025-01-16
3.5 Action by	RM_CONSTR RM	Signature	

4 - PERFORMED ACTION

Name:

Date:

Signature:

5 - CLEARANCE CHECK

Done

Name: Gabriele Bertuccelli

Date: 2025-01-30

Signature:

6- CLEARANCE APPROVAL

Name:

Date:

Signature:

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30002936

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10000667	1.4 Discipline	Electrical
1.2 Item	P-ELF-200N1-02-L1-06	Normal Lighting Fixture / Normal Lighting Fixture	
1.3 Subsystem	83-40	Normal Lighting Upper Deck	

2 - OBSERVATION

missing SS cable tag on both JB and light side

Name: Andrea Andreani

Date: 2025-01-16

Signature:

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Andrea Andreani
3.4 Activity code	MC Mechanical Completion	Date	2025-01-16
3.5 Action by	RM_CONSTR RM	Signature	

4 - PERFORMED ACTION

Name:

Date:

Signature:

5 - CLEARANCE CHECK

Done

Name: Gabriele Bertuccelli

Date: 2025-01-24

Signature:

6- CLEARANCE APPROVAL

Name:

Date:

Signature:

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30002937

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10000667	1.4 Discipline	Electrical
1.2 Item	P-ELF-200N1-02-L1-06	Normal Lighting Fixture / Normal Lighting Fixture	
1.3 Subsystem	83-40	Normal Lighting Upper Deck	

2 - OBSERVATION

installed M25 cable gland instead of M20 as per cable list (EJB-200N1-02-L1-05 side)

Name: Andrea Andreani

Date: 2025-01-16

Signature:

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	A PL A	Name	Andrea Andreani
3.4 Activity code	MC Mechanical Completion	Date	2025-01-16
3.5 Action by	RM_CONSTR RM	Signature	

4 - PERFORMED ACTION

Name:

Date:

Signature:

5 - CLEARANCE CHECK

Done

Name: Gabriele Bertuccelli

Date: 2025-01-22

Signature:

6- CLEARANCE APPROVAL

Name:

Date:

Signature:

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30002938

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10001664	1.4 Discipline	ATEX
1.2 Item	ELF-200N1-02-L1-06	NORMAL LIGHT	
1.3 Subsystem	83-40	Normal Lighting Upper Deck	

2 - OBSERVATION

trafolite tag is missing

Name: Andrea Andreani

Date: 2025-01-16

Signature:

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Andrea Andreani
3.4 Activity code	MC Mechanical Completion	Date	2025-01-16
3.5 Action by	RM_CONSTR RM	Signature	

4 - PERFORMED ACTION

Name:

Date:

Signature:

5 - CLEARANCE CHECK

Done

Name: Gabriele Bertuccelli

Date: 2025-01-30

Signature:

6- CLEARANCE APPROVAL

Name:

Date:

Signature:

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30002939

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10001664	1.4 Discipline	ATEX
1.2 Item	ELF-200N1-02-L1-06	NORMAL LIGHT	
1.3 Subsystem	83-40	Normal Lighting Upper Deck	

2 - OBSERVATION

light not connected to earth

Name: Andrea Andreani

Date: 2025-01-16

Signature:

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	A PL A	Name	Andrea Andreani
3.4 Activity code	MC Mechanical Completion	Date	2025-01-16
3.5 Action by	RM_CONSTR RM	Signature	

4 - PERFORMED ACTION

Name:

Date:

Signature:

5 - CLEARANCE CHECK

DONE

Name: Andrea Andreani

Date: 2025-01-20

Signature:

6- CLEARANCE APPROVAL

Name:

Date:

Signature:

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30002940

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10001664	1.4 Discipline	ATEX
1.2 Item	ELF-200N1-02-L1-06	NORMAL LIGHT	
1.3 Subsystem	83-40	Normal Lighting Upper Deck	

2 - OBSERVATION

missing all lock nuts for stopped the lamp

Name: Andrea Andreani

Date: 2025-01-16

Signature:

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Andrea Andreani
3.4 Activity code	MC Mechanical Completion	Date	2025-01-16
3.5 Action by	RM_CONSTR RM	Signature	

4 - PERFORMED ACTION

Name:

Date:

Signature:

5 - CLEARANCE CHECK

Point not applicable

Name: Luca Mussi

Date: 2025-01-17

Signature:

6- CLEARANCE APPROVAL

Name:

Date:

Signature:

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30002968

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10000669	1.4 Discipline	Electrical
1.2 Item	P-ELF-200N1-02-L1-10	Normal Lighting Fixture / Normal Lighting Fixture	
1.3 Subsystem	83-40	Normal Lighting Upper Deck	

2 - OBSERVATION

secondary cable tray is fixed on instrument primary cable tray . To be moved

Name: Andrea Andreani

Date: 2025-01-16

Signature:

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Andrea Andreani
3.4 Activity code	MC Mechanical Completion	Date	2025-01-16
3.5 Action by	RM_CONSTR RM	Signature	

4 - PERFORMED ACTION

Name:

Date:

Signature:

5 - CLEARANCE CHECK

Done

Name: Gabriele Bertuccelli

Date: 2025-02-05

Signature:

6- CLEARANCE APPROVAL

Name:

Date:

Signature:

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30002987

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10001629	1.4 Discipline	ATEX
1.2 Item	EJB-200N1-02-L1-08	JB - NORMAL LIGHTING	
1.3 Subsystem	83-40	Normal Lighting Upper Deck	

2 - OBSERVATION

On ATEX register (123A90-DDL-EL-LIS-20094 sheet ZZ) JB Serial Number is 24P00297990060, but actual is 24P00297990011

Name: Luca Mussi

Date: 2025-01-17

Signature:

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Luca Mussi
3.4 Activity code	MC Mechanical Completion	Date	2025-01-17
3.5 Action by	ENG Engineering	Signature	

4 - PERFORMED ACTION

Name:

Date:

Signature:

5 - CLEARANCE CHECK

ATEX register updated.

Name: Giovanni Tangianu

Date: 2025-04-17

Signature:

6- CLEARANCE APPROVAL

Name:

Date:

Signature:


A COMPANY OF
Via Italia 33 - 20060 Gessate (MI) ITALY
MADE IN ITALY
TYPE: AQ-252612P
230VAC 50Hz 20A
Max Dis. P. 6W
CE 0080 Ex II 2G II 2D
FIDI 21ATEX 0090X
IECEx FIDI 21.0015X
Year of construction: 2024
Ex eb IIC T6 Gb
Ex tb IIIC T85°C Db
IP66
T.amb. -20/+40°C
Serial Nr. 24P00297990011
WARNINGS DO NOT OPEN WHEN ENERGIZED

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30002988

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10001629	1.4 Discipline	ATEX
1.2 Item	EJB-200N1-02-L1-08	JB - NORMAL LIGHTING	
1.3 Subsystem	83-40	Normal Lighting Upper Deck	

2 - OBSERVATION

Ex e plug is missing

Name: Luca Mussi

Date: 2025-01-17

Signature:

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Luca Mussi
3.4 Activity code	MC Mechanical Completion	Date	2025-01-17
3.5 Action by	RM_CONSTR RM	Signature	

4 - PERFORMED ACTION

Name:

Date:

Signature:

5 - CLEARANCE CHECK

Done

Name: Gabriele Bertuccelli

Date: 2025-02-05

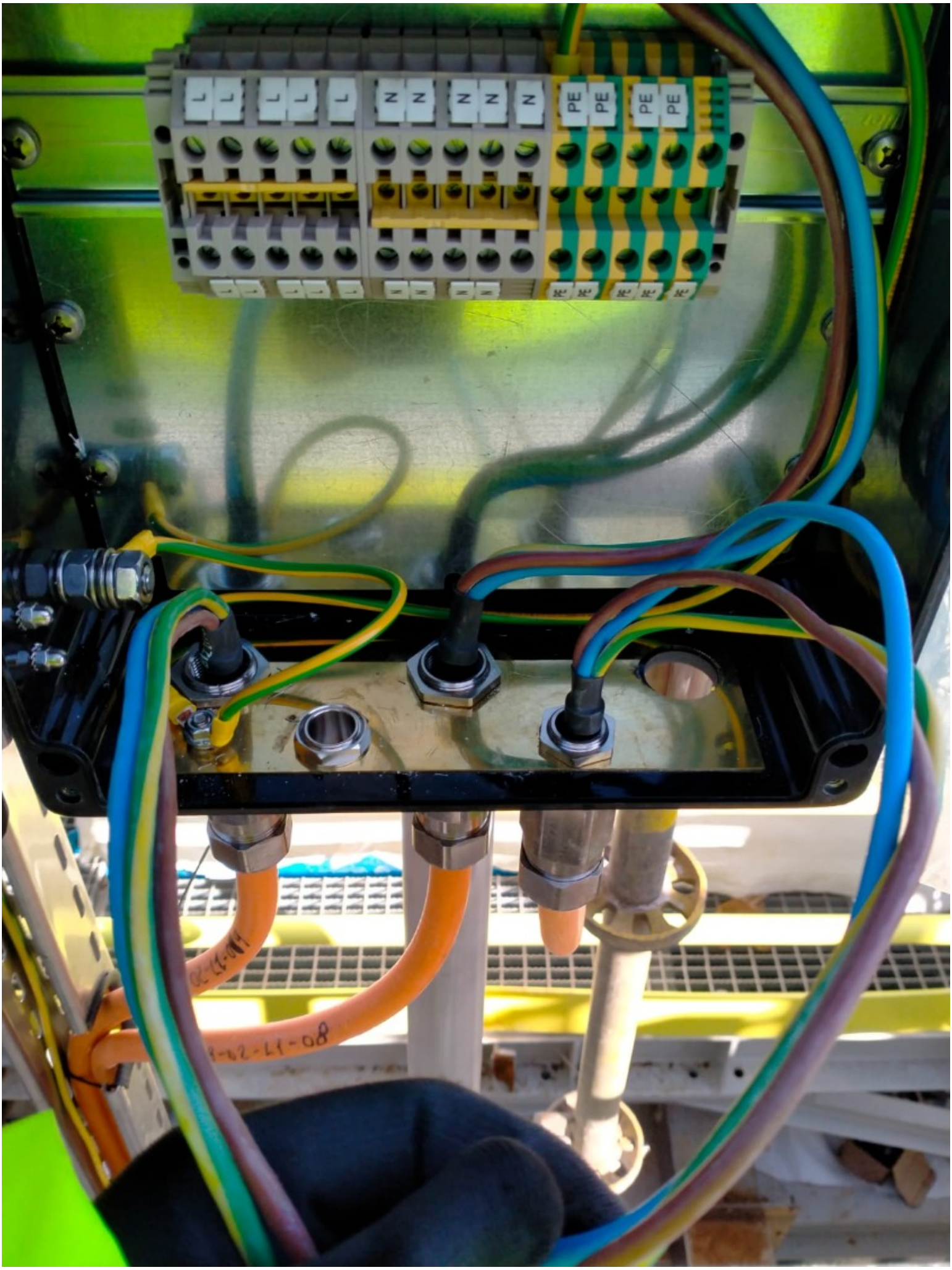
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6- CLEARANCE APPROVAL

Name:

Date:

Signature:


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N
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ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30002989

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10001629	1.4 Discipline	ATEX
1.2 Item	EJB-200N1-02-L1-08	JB - NORMAL LIGHTING	
1.3 Subsystem	83-40	Normal Lighting Upper Deck	

2 - OBSERVATION

Antivibration washer is missing

Name: Luca Mussi

Date: 2025-01-17

Signature:

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Luca Mussi
3.4 Activity code	MC Mechanical Completion	Date	2025-01-17
3.5 Action by	RM_CONSTR RM	Signature	

4 - PERFORMED ACTION

Name:

Date:

Signature:

5 - CLEARANCE CHECK

Installed.

Name: Giovanni Tangianu

Date: 2025-03-03

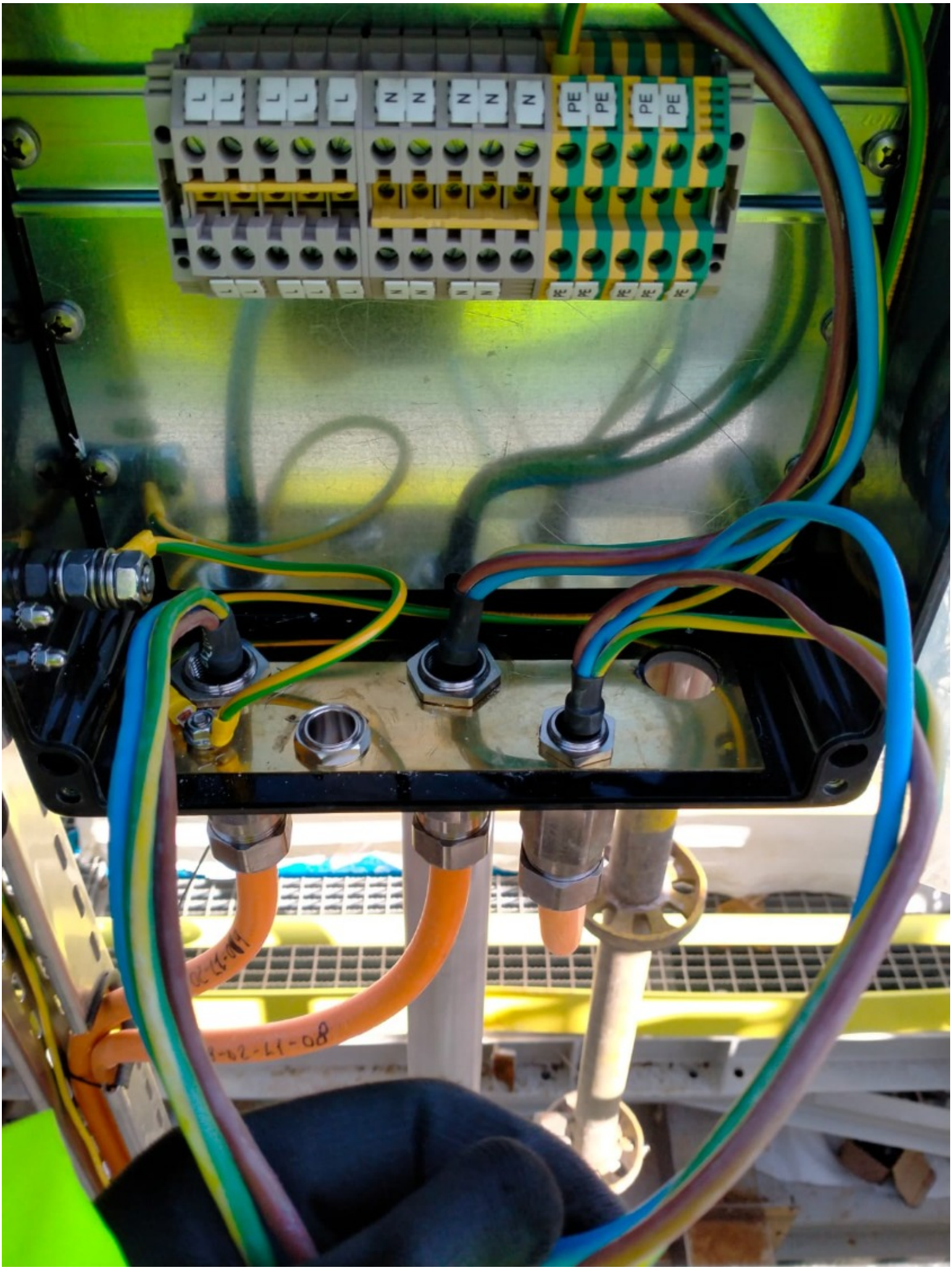
Signature:

6- CLEARANCE APPROVAL

Name:

Date:

Signature:


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N
PE

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30002990

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10001629	1.4 Discipline	ATEX
1.2 Item	EJB-200N1-02-L1-08	JB - NORMAL LIGHTING	
1.3 Subsystem	83-40	Normal Lighting Upper Deck	

2 - OBSERVATION

Identification tags on terminal block are missing

Name: Luca Mussi

Date: 2025-01-17

Signature:

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Luca Mussi
3.4 Activity code	MC Mechanical Completion	Date	2025-01-17
3.5 Action by	RM_CONSTR RM	Signature	

4 - PERFORMED ACTION

Name:

Date:

Signature:

5 - CLEARANCE CHECK

Done

Name: Gabriele Bertuccelli

Date: 2025-02-05

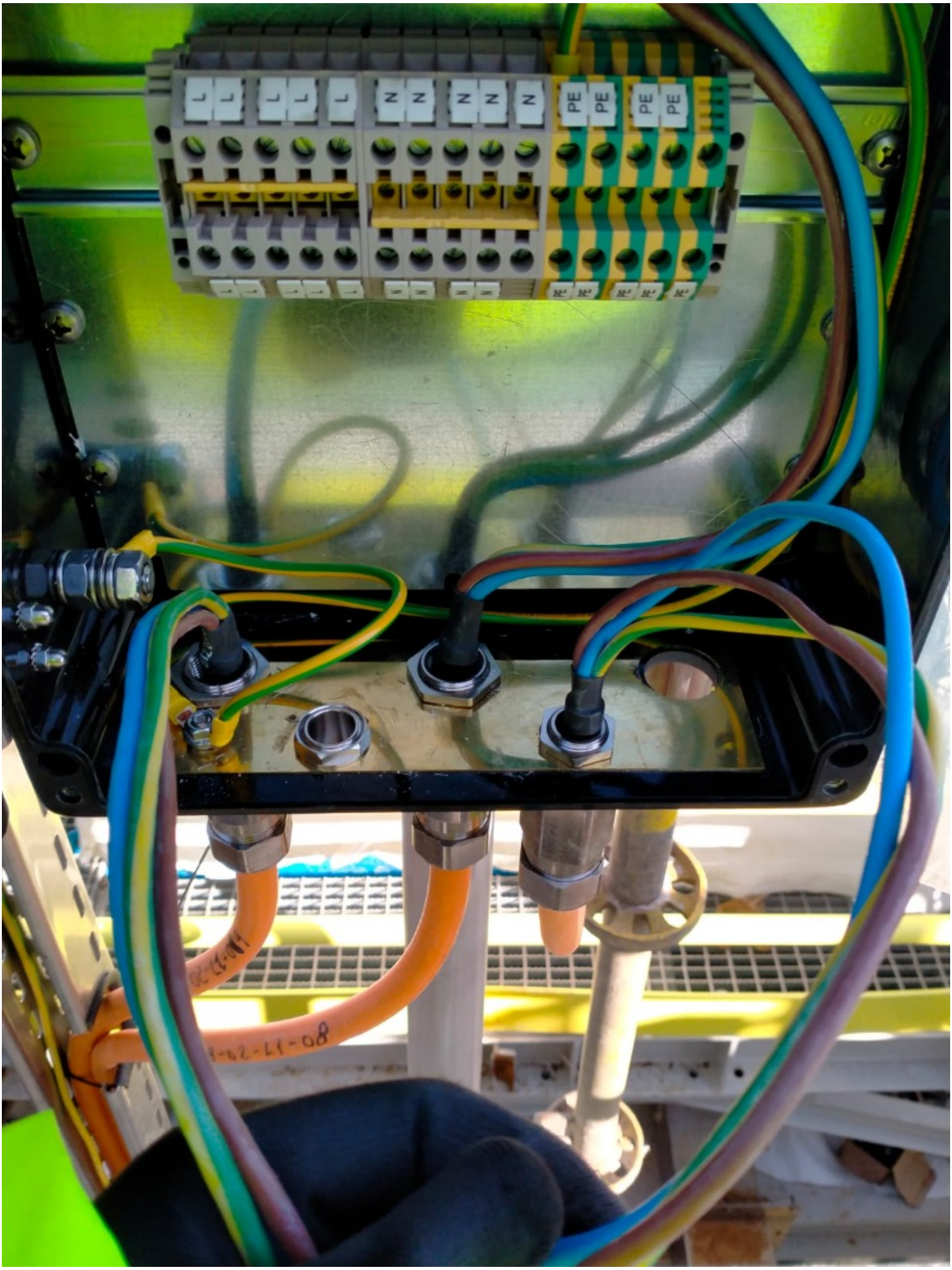
Signature:

6- CLEARANCE APPROVAL

Name:

Date:

Signature:


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N
PE

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30003070

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10001256	1.4 Discipline	Electrical
1.2 Item	EJB-200N1-02-L1-14		JB - NORMAL LIGHTING
1.3 Subsystem	83-40		Normal Lighting Upper Deck

2 - OBSERVATION

Missing the indications on the terminals box

Name: Alessio Polo

Date: 2025-01-18

Signature:

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Alessio Polo
3.4 Activity code	MC Mechanical Completion	Date	2025-01-18
3.5 Action by	RM_CONSTR RM	Signature	

4 - PERFORMED ACTION

Name:

Date:

Signature:

5 - CLEARANCE CHECK

Done

Name: Gabriele Bertuccelli

Date: 2025-02-05

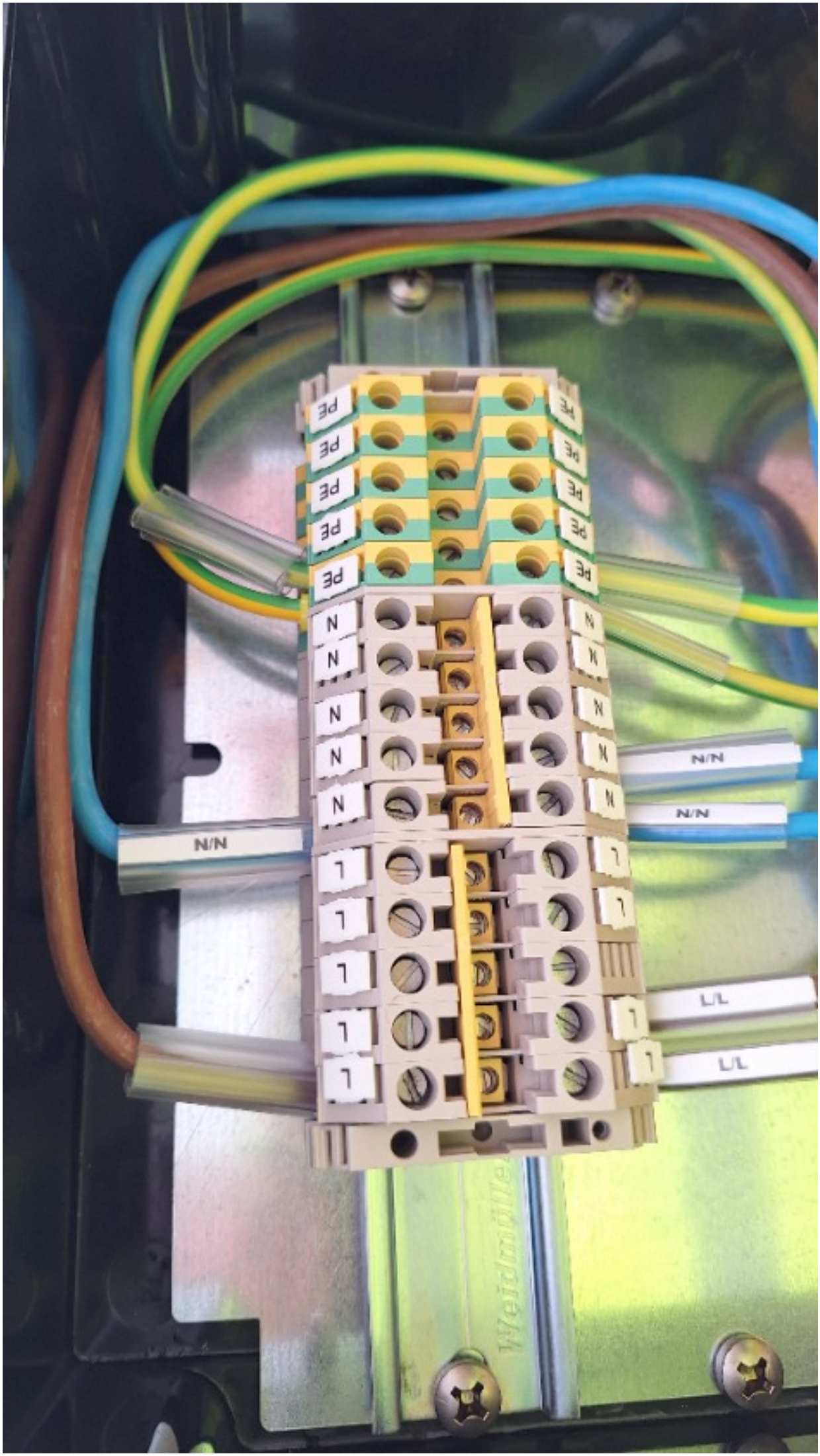
Signature:

6- CLEARANCE APPROVAL

Name:

Date:

Signature:


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N/N
N/N
N/N
L/L
L/L

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30003071

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10001256	1.4 Discipline	Electrical
1.2 Item	EJB-200N1-02-L1-14		JB - NORMAL LIGHTING
1.3 Subsystem	83-40		Normal Lighting Upper Deck

2 - OBSERVATION

Missing cores identification

Name: Alessio Polo

Date: 2025-01-18

Signature:

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Alessio Polo
3.4 Activity code	MC Mechanical Completion	Date	2025-01-18
3.5 Action by	RM_CONSTR RM	Signature	

4 - PERFORMED ACTION

Name:

Date:

Signature:

5 - CLEARANCE CHECK

DONE

Name: Alessio Polo

Date: 2025-02-04

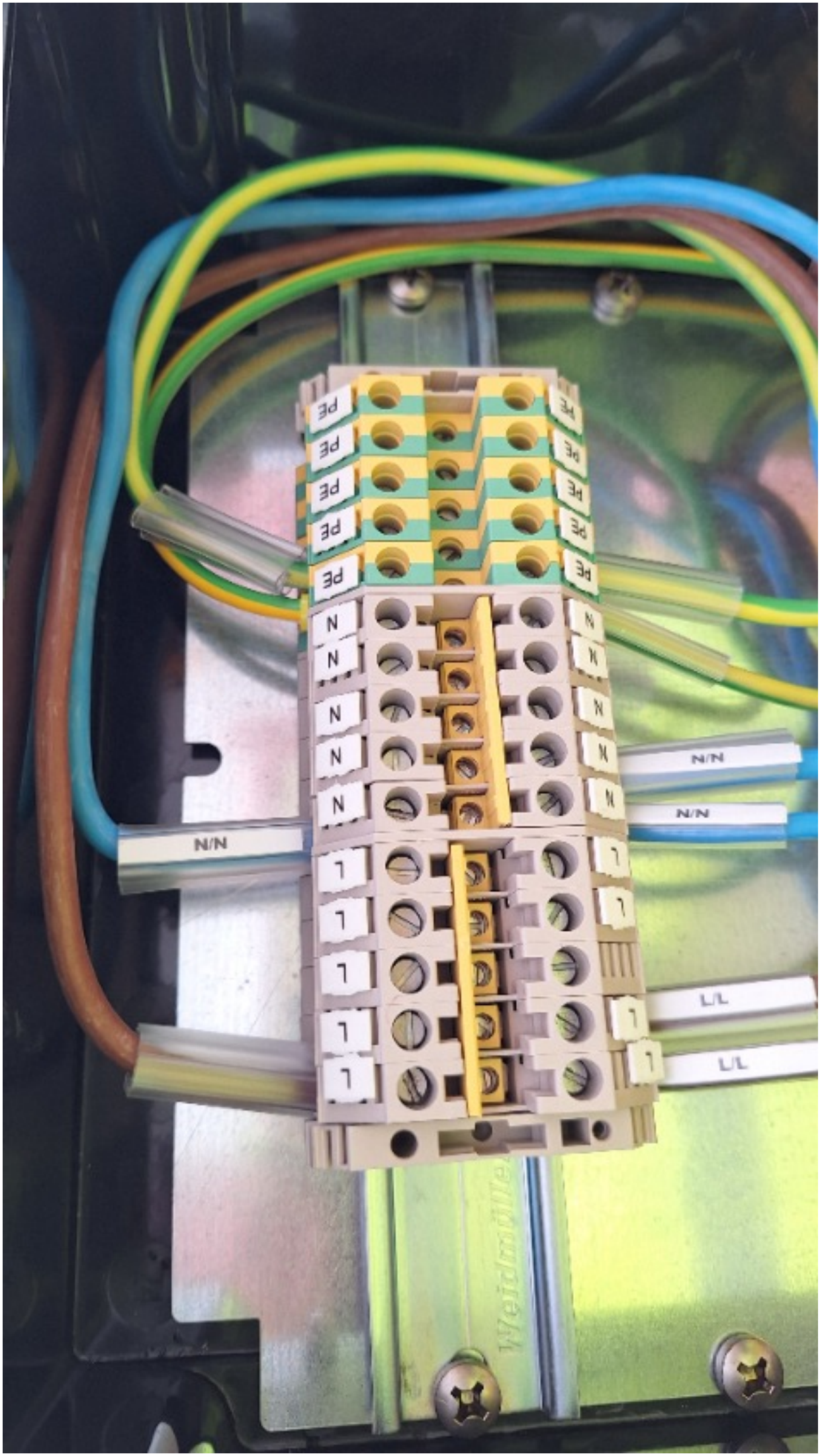
Signature:

6- CLEARANCE APPROVAL

Name:

Date:

Signature:


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N/N
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L/L

ROSETTI MARINO CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30003072

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10001256	1.4 Discipline	Electrical
1.2 Item	EJB-200N1-02-L1-14	JB - NORMAL LIGHTING	
1.3 Subsystem	83-40	Normal Lighting Upper Deck	

2 - OBSERVATION

The "plain" Lock nut must be removed and replaced with a suitable cable gland lock nut.

Name: Alessio Polo

Date: 2025-01-18

Signature:

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Alessio Polo
3.4 Activity code	MC Mechanical Completion	Date	2025-01-18
3.5 Action by	RM_CONSTR RM	Signature	

4 - PERFORMED ACTION

Name:

Date:

Signature:

5 - CLEARANCE CHECK

Done

Name: Gabriele Bertuccelli

Date: 2025-02-05

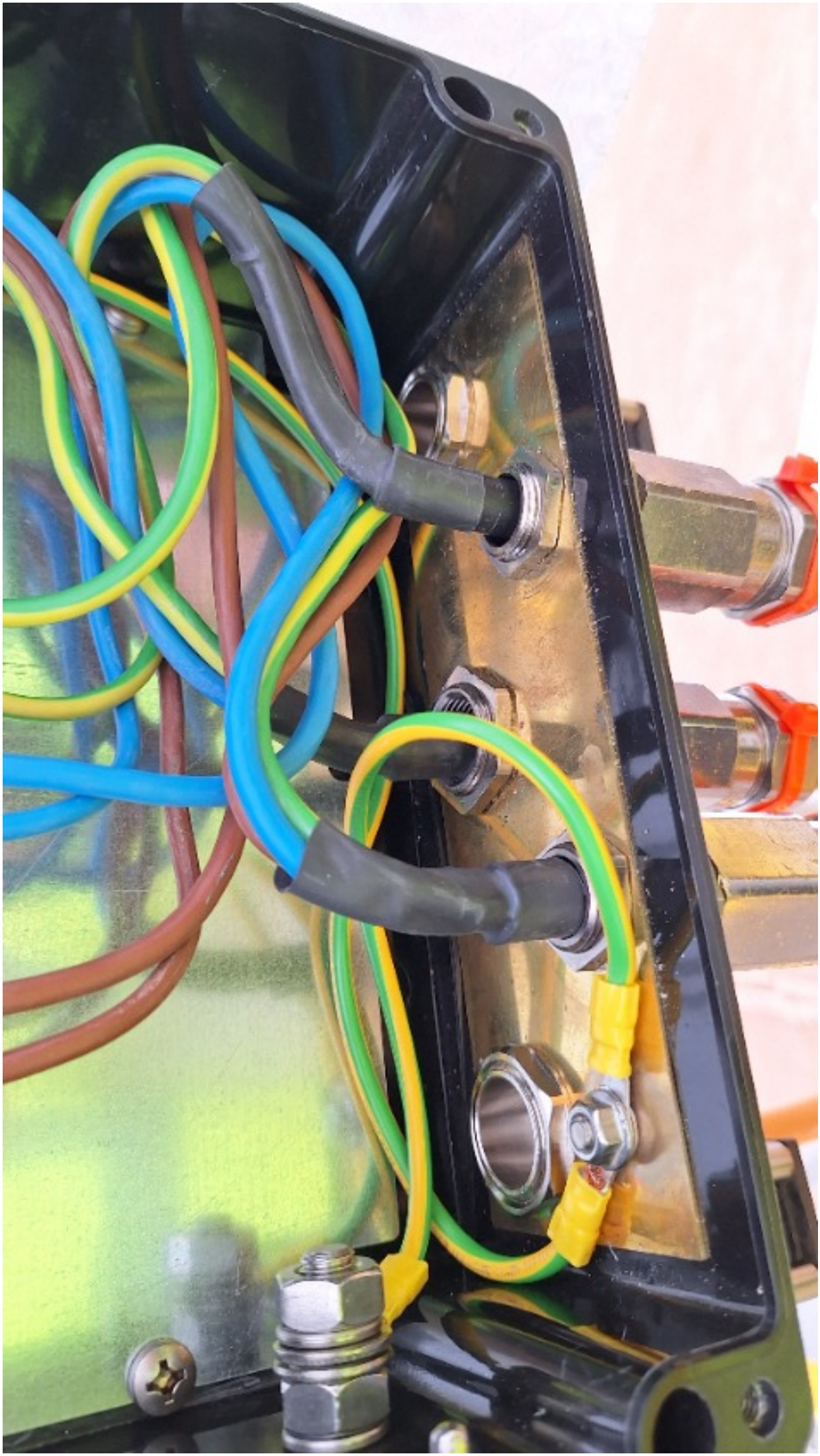
Signature:

6- CLEARANCE APPROVAL

Name:

Date:

Signature:



ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30003075

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10001258	1.4 Discipline	ATEX
1.2 Item	EJB-200N1-02-L1-16	JB - NORMAL LIGHTING	
1.3 Subsystem	83-40	Normal Lighting Upper Deck	

2 - OBSERVATION

The unused entries "are not plugged" with approved Stopping boxes.

Name: Alessio Polo
Date: 2025-01-18
Signature:

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Alessio Polo
3.4 Activity code	MC Mechanical Completion	Date	2025-01-18
3.5 Action by	RM_CONSTR RM	Signature	

4 - PERFORMED ACTION

Name:
Date:
Signature:

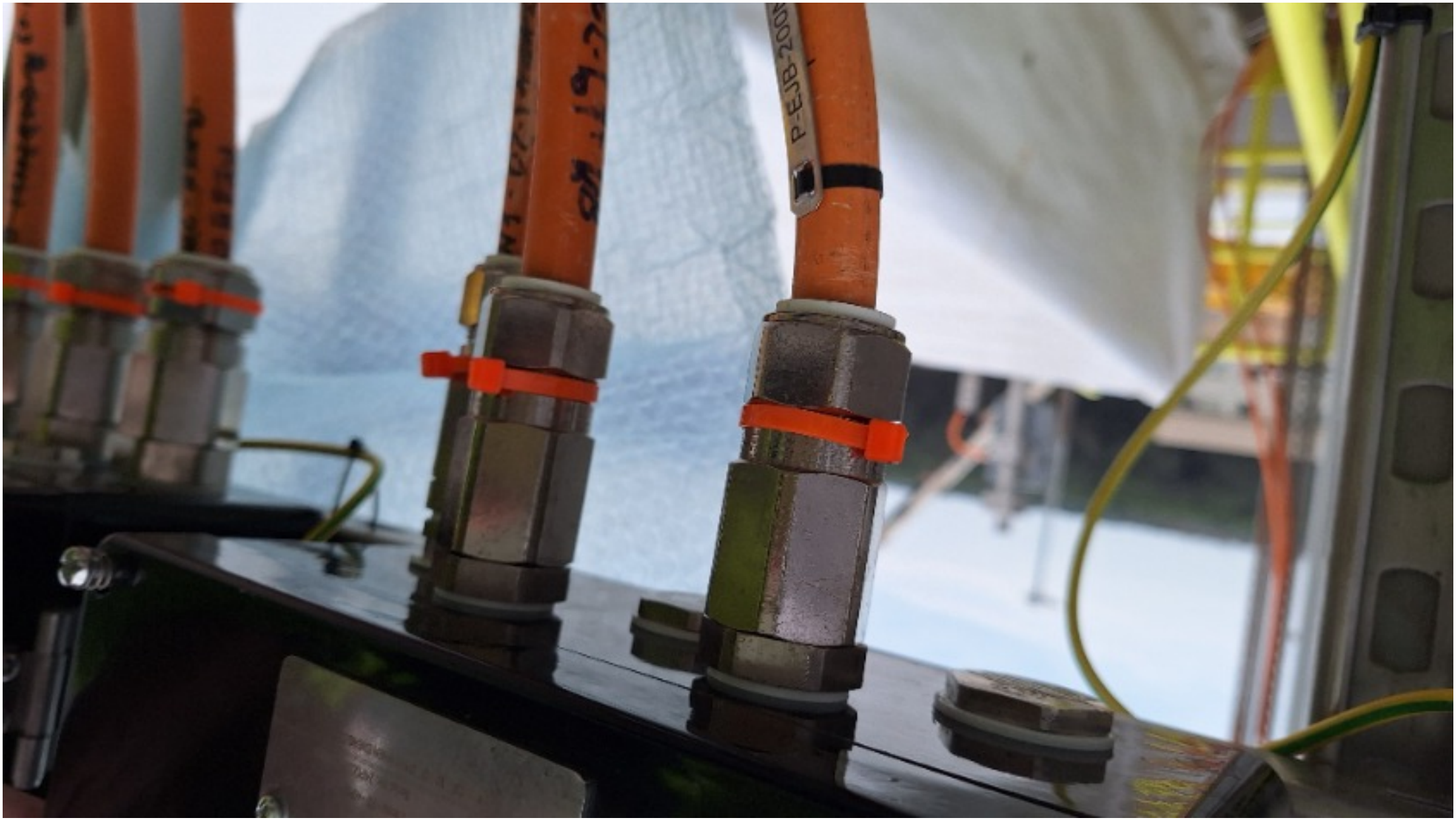
5 - CLEARANCE CHECK

Done

Name: Gabriele Bertuccelli
Date: 2025-02-05
Signature:

6- CLEARANCE APPROVAL

Name:
Date:
Signature:


P-EJB-200

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30003076

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10001258	1.4 Discipline	ATEX
1.2 Item	EJB-200N1-02-L1-16	JB - NORMAL LIGHTING	
1.3 Subsystem	83-40	Normal Lighting Upper Deck	

2 - OBSERVATION

Missing cores identification

Name: Alessio Polo

Date: 2025-01-18

Signature:

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Alessio Polo
3.4 Activity code	MC Mechanical Completion	Date	2025-01-18
3.5 Action by	RM_CONSTR RM	Signature	

4 - PERFORMED ACTION

Name:

Date:

Signature:

5 - CLEARANCE CHECK

DONE

Name: Alessio Polo

Date: 2025-02-04

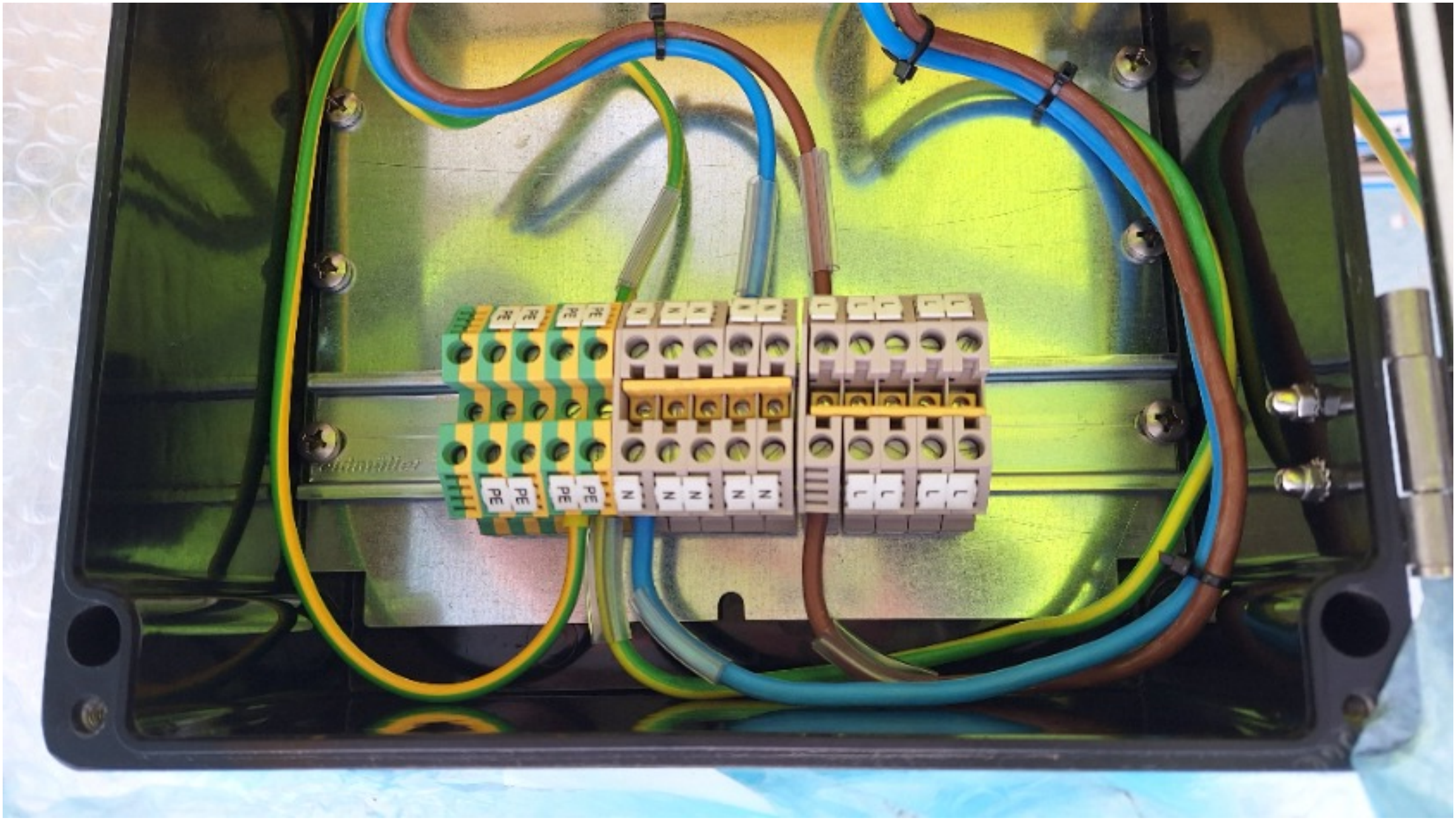
Signature:

6- CLEARANCE APPROVAL

Name:

Date:

Signature:


PE
PE
PE
PE
N
N
N
N
N

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30003077

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10001626	1.4 Discipline	ATEX
1.2 Item	EJB-200N1-02-L1-05	JB - NORMAL LIGHTING	
1.3 Subsystem	83-40	Normal Lighting Upper Deck	

2 - OBSERVATION

The "plain" Lock nut must be removed and replaced with a suitable cable gland lock nut.

Name: Alessio Polo
Date: 2025-01-18
Signature:

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Alessio Polo
3.4 Activity code	MC Mechanical Completion	Date	2025-01-18
3.5 Action by	RM_CONSTR RM	Signature	

4 - PERFORMED ACTION

Name:
Date:
Signature:

5 - CLEARANCE CHECK

Done

Name: Gabriele Bertuccelli
Date: 2025-02-06
Signature:

6- CLEARANCE APPROVAL

Name:
Date:
Signature:


BIZ 21705 18

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30003078

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10001626	1.4 Discipline	ATEX
1.2 Item	EJB-200N1-02-L1-05	JB - NORMAL LIGHTING	
1.3 Subsystem	83-40	Normal Lighting Upper Deck	

2 - OBSERVATION

Wires inside JB have to be dressed properly

Name: Alessio Polo

Date: 2025-01-18

Signature:

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Alessio Polo
3.4 Activity code	MC Mechanical Completion	Date	2025-01-18
3.5 Action by	RM_CONSTR RM	Signature	

4 - PERFORMED ACTION

Name:

Date:

Signature:

5 - CLEARANCE CHECK

Done

Name: Gabriele Bertuccelli

Date: 2025-02-05

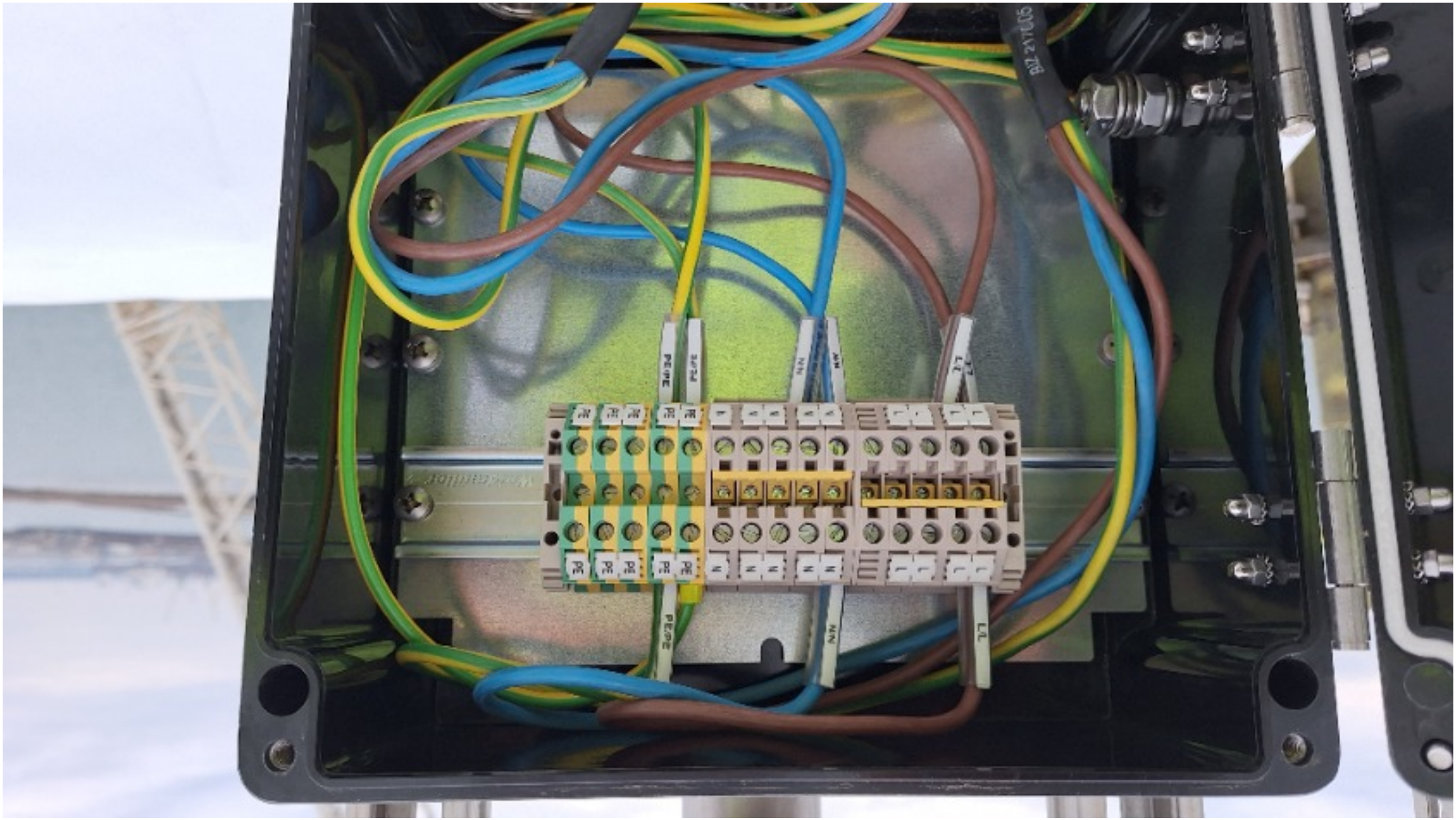
Signature:

6- CLEARANCE APPROVAL

Name:

Date:

Signature:


PE/PE
N/N
L1
PE/PE
N/N
L1

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30003079

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10001627	1.4 Discipline	ATEX
1.2 Item	EJB-200N1-02-L1-06	JB - NORMAL LIGHTING	
1.3 Subsystem	83-40	Normal Lighting Upper Deck	

2 - OBSERVATION

the earth cable is not fixed

Name: Alessio Polo

Date: 2025-01-18

Signature:

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Alessio Polo
3.4 Activity code	MC Mechanical Completion	Date	2025-01-18
3.5 Action by	RM_CONSTR RM	Signature	

4 - PERFORMED ACTION

Name:

Date:

Signature:

5 - CLEARANCE CHECK

Done

Name: Gabriele Bertuccelli

Date: 2025-01-30

Signature:

6- CLEARANCE APPROVAL

Name:

Date:

Signature:



ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30003080

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10001627	1.4 Discipline	ATEX
1.2 Item	EJB-200N1-02-L1-06	JB - NORMAL LIGHTING	
1.3 Subsystem	83-40	Normal Lighting Upper Deck	

2 - OBSERVATION

The "plain" Lock nut must be removed and replaced with a suitable cable gland lock nut.

Name: Alessio Polo
Date: 2025-01-18
Signature:

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Alessio Polo
3.4 Activity code	MC Mechanical Completion	Date	2025-01-18
3.5 Action by	RM_CONSTR RM	Signature	

4 - PERFORMED ACTION

Name:
Date:
Signature:

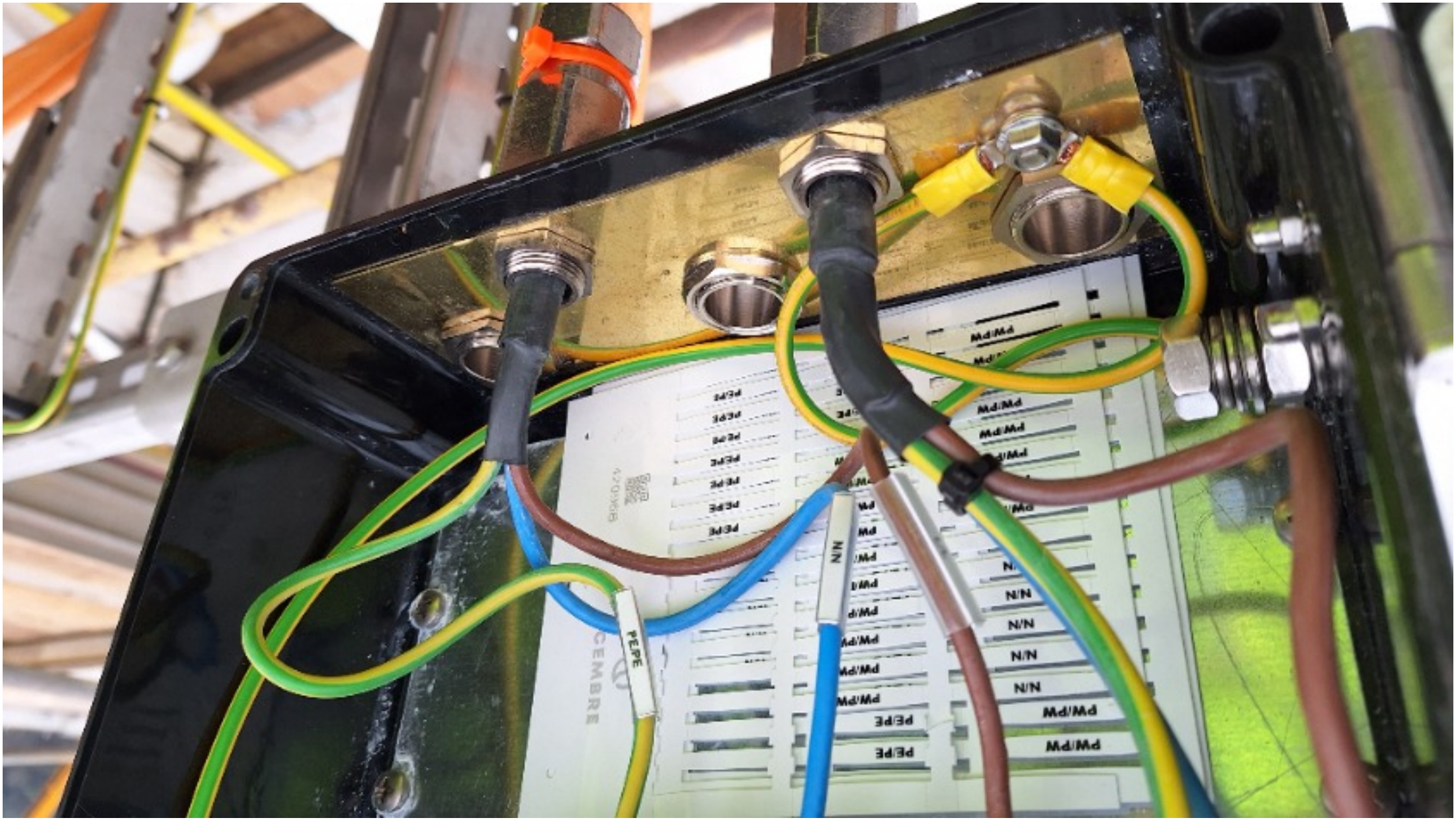
5 - CLEARANCE CHECK

Done

Name: Gabriele Bertuccelli
Date: 2025-02-05
Signature:

6- CLEARANCE APPROVAL

Name:
Date:
Signature:


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Md/Md
PE/PE
N/N
Md/Md
PE/PE
N/N
Md/Md

ROSETTI MARINO CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30003081

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10001627	1.4 Discipline	ATEX
1.2 Item	EJB-200N1-02-L1-06	JB - NORMAL LIGHTING	
1.3 Subsystem	83-40	Normal Lighting Upper Deck	

2 - OBSERVATION

Missing the indications on the terminals box

Name: Alessio Polo

Date: 2025-01-18

Signature:

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Alessio Polo
3.4 Activity code	MC Mechanical Completion	Date	2025-01-18
3.5 Action by	RM_CONSTR RM	Signature	

4 - PERFORMED ACTION

Name:

Date:

Signature:

5 - CLEARANCE CHECK

Done

Name: Gabriele Bertuccelli

Date: 2025-02-05

Signature:

6- CLEARANCE APPROVAL

Name:

Date:

Signature:

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30003082

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10001627	1.4 Discipline	ATEX
1.2 Item	EJB-200N1-02-L1-06	JB - NORMAL LIGHTING	
1.3 Subsystem	83-40	Normal Lighting Upper Deck	

2 - OBSERVATION

Wires inside JB have to be dressed properly

Name: Alessio Polo

Date: 2025-01-18

Signature:

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Alessio Polo
3.4 Activity code	MC Mechanical Completion	Date	2025-01-18
3.5 Action by	RM_CONSTR RM	Signature	

4 - PERFORMED ACTION

Name:

Date:

Signature:

5 - CLEARANCE CHECK

Done

Name: Gabriele Bertuccelli

Date: 2025-02-05

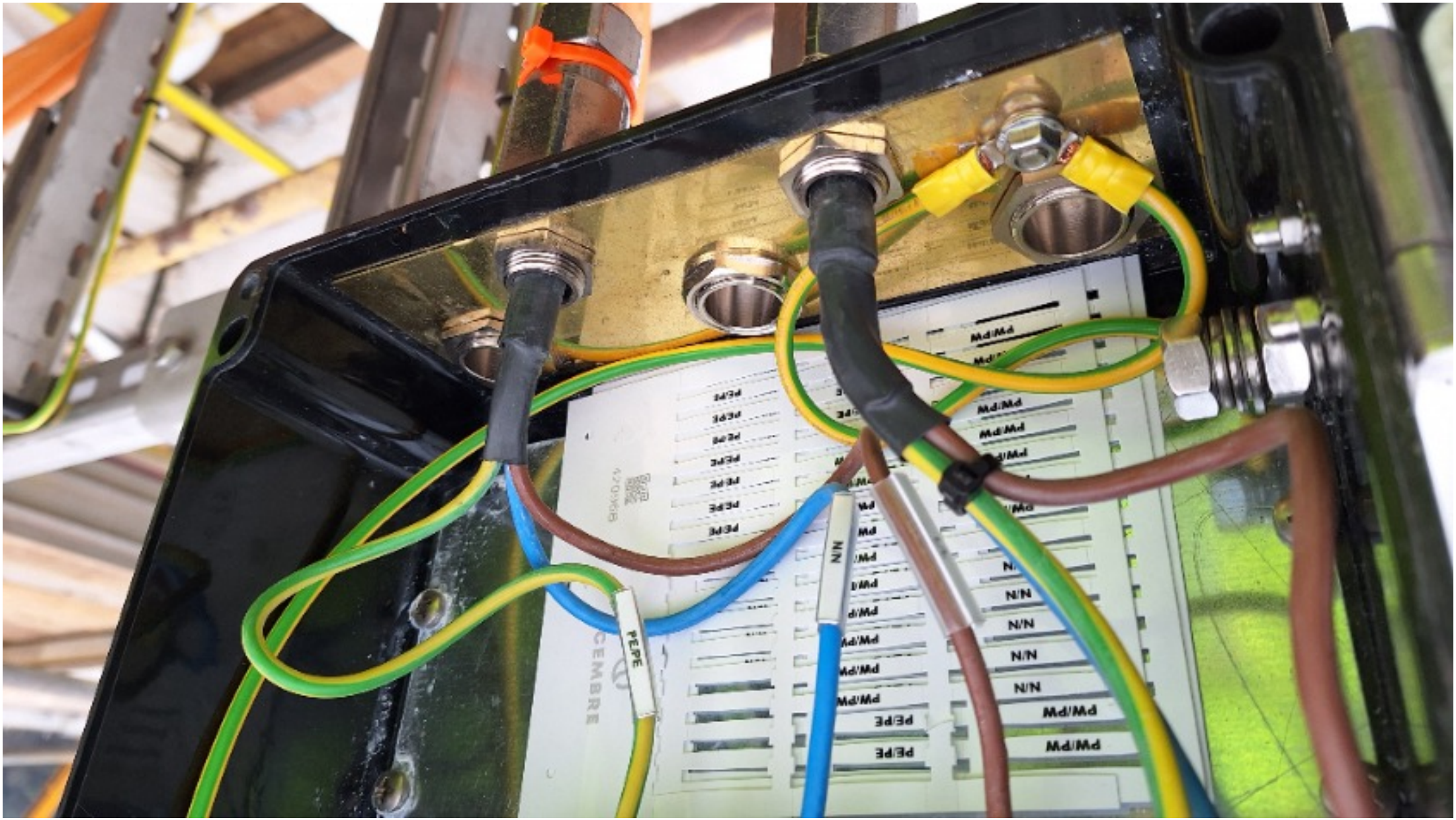
Signature:

6- CLEARANCE APPROVAL

Name:

Date:

Signature:


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PE/PE
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Md/Md
PE/PE
N/N
Md/Md

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30003083

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10001628	1.4 Discipline	ATEX
1.2 Item	EJB-200N1-02-L1-07	JB - NORMAL LIGHTING	
1.3 Subsystem	83-40	Normal Lighting Upper Deck	

2 - OBSERVATION

the earth cable is not fixed

Name: Alessio Polo

Date: 2025-01-18

Signature:

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Alessio Polo
3.4 Activity code	MC Mechanical Completion	Date	2025-01-18
3.5 Action by	RM_CONSTR RM	Signature	

4 - PERFORMED ACTION

Name:

Date:

Signature:

5 - CLEARANCE CHECK

Done

Name: Gabriele Bertuccelli

Date: 2025-01-30

Signature:

6- CLEARANCE APPROVAL

Name:

Date:

Signature:


P-EJB-200 N1-02-11-06
ELF 200 N1 02-11-10

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30003084

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10001628	1.4 Discipline	ATEX
1.2 Item	EJB-200N1-02-L1-07	JB - NORMAL LIGHTING	
1.3 Subsystem	83-40	Normal Lighting Upper Deck	

2 - OBSERVATION

The "plain" Lock nut must be removed and replaced with a suitable cable gland lock nut.

Name: Alessio Polo
Date: 2025-01-18
Signature:

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Alessio Polo
3.4 Activity code	MC Mechanical Completion	Date	2025-01-18
3.5 Action by	RM_CONSTR RM	Signature	

4 - PERFORMED ACTION

Name:
Date:
Signature:

5 - CLEARANCE CHECK

Done

Name: Gabriele Bertuccelli
Date: 2025-02-05
Signature:

6- CLEARANCE APPROVAL

Name:
Date:
Signature:

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30003085

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10001628	1.4 Discipline	ATEX
1.2 Item	EJB-200N1-02-L1-07	JB - NORMAL LIGHTING	
1.3 Subsystem	83-40	Normal Lighting Upper Deck	

2 - OBSERVATION

Wires inside JB have to be dressed properly

Name: Alessio Polo

Date: 2025-01-18

Signature:

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Alessio Polo
3.4 Activity code	MC Mechanical Completion	Date	2025-01-18
3.5 Action by	RM_CONSTR RM	Signature	

4 - PERFORMED ACTION

Name:

Date:

Signature:

5 - CLEARANCE CHECK

Done

Name: Gabriele Bertuccelli

Date: 2025-02-05

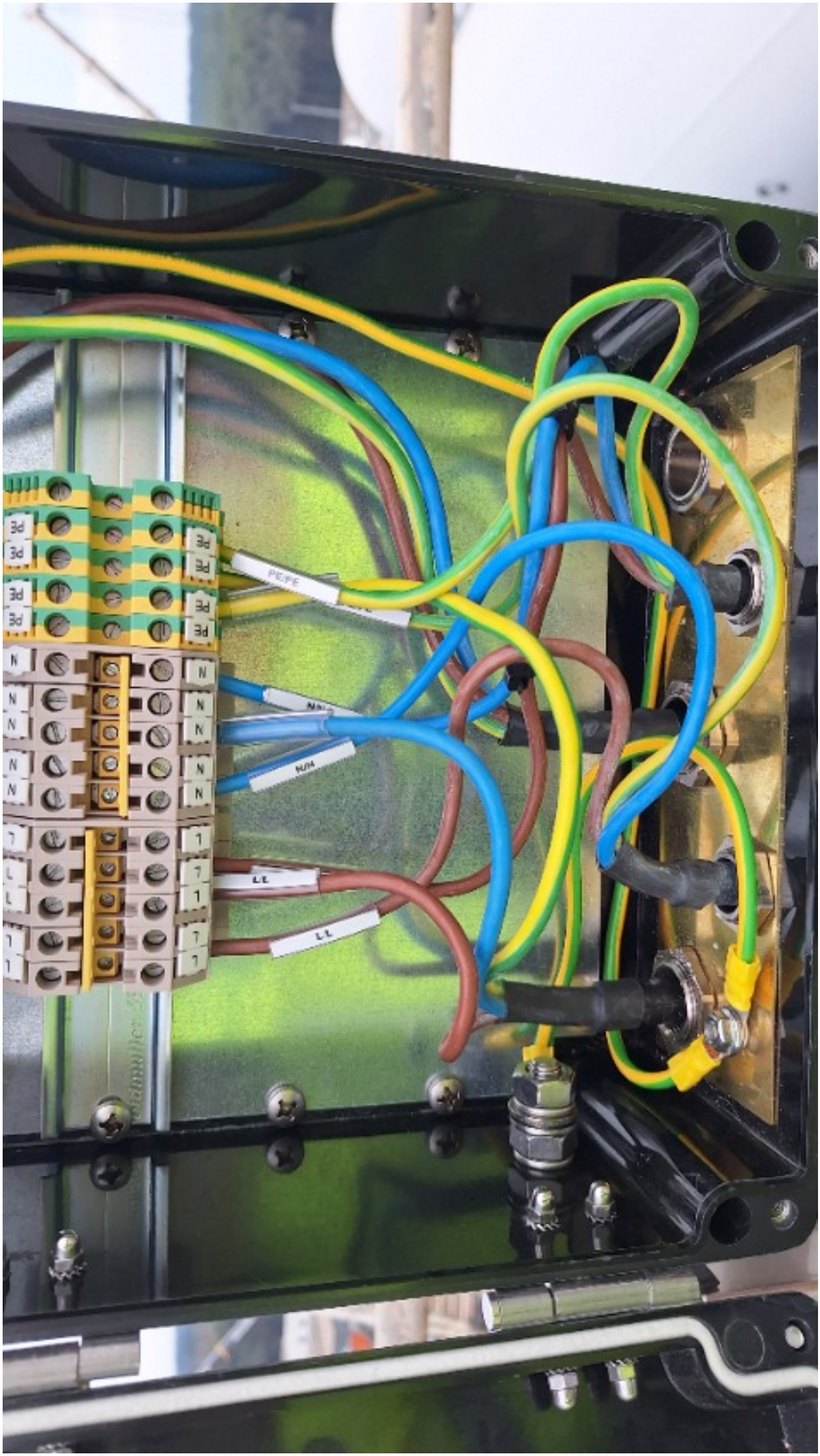
Signature:

6- CLEARANCE APPROVAL

Name:

Date:

Signature:


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ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30003086

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10001632	1.4 Discipline	ATEX
1.2 Item	EJB-200N1-02-L1-09	JB - NORMAL LIGHTING	
1.3 Subsystem	83-40	Normal Lighting Upper Deck	

2 - OBSERVATION

the earth cable is not fixed

Name: Alessio Polo
Date: 2025-01-18
Signature:

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Alessio Polo
3.4 Activity code	MC Mechanical Completion	Date	2025-01-18
3.5 Action by	RM_CONSTR RM	Signature	

4 - PERFORMED ACTION

Name:
Date:
Signature:

5 - CLEARANCE CHECK

Done

Name: Gabriele Bertuccelli
Date: 2025-01-30
Signature:

6- CLEARANCE APPROVAL

Name:
Date:
Signature:



ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30003087

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10001632	1.4 Discipline	ATEX
1.2 Item	EJB-200N1-02-L1-09	JB - NORMAL LIGHTING	
1.3 Subsystem	83-40	Normal Lighting Upper Deck	

2 - OBSERVATION

The cable gland lock nut and serrated washer must be removed and replaced with a suitable lock nut on plug

Name: Alessio Polo
Date: 2025-01-18
Signature:

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Alessio Polo
3.4 Activity code	MC Mechanical Completion	Date	2025-01-18
3.5 Action by	RM_CONSTR RM	Signature	

4 - PERFORMED ACTION

Name:
Date:
Signature:

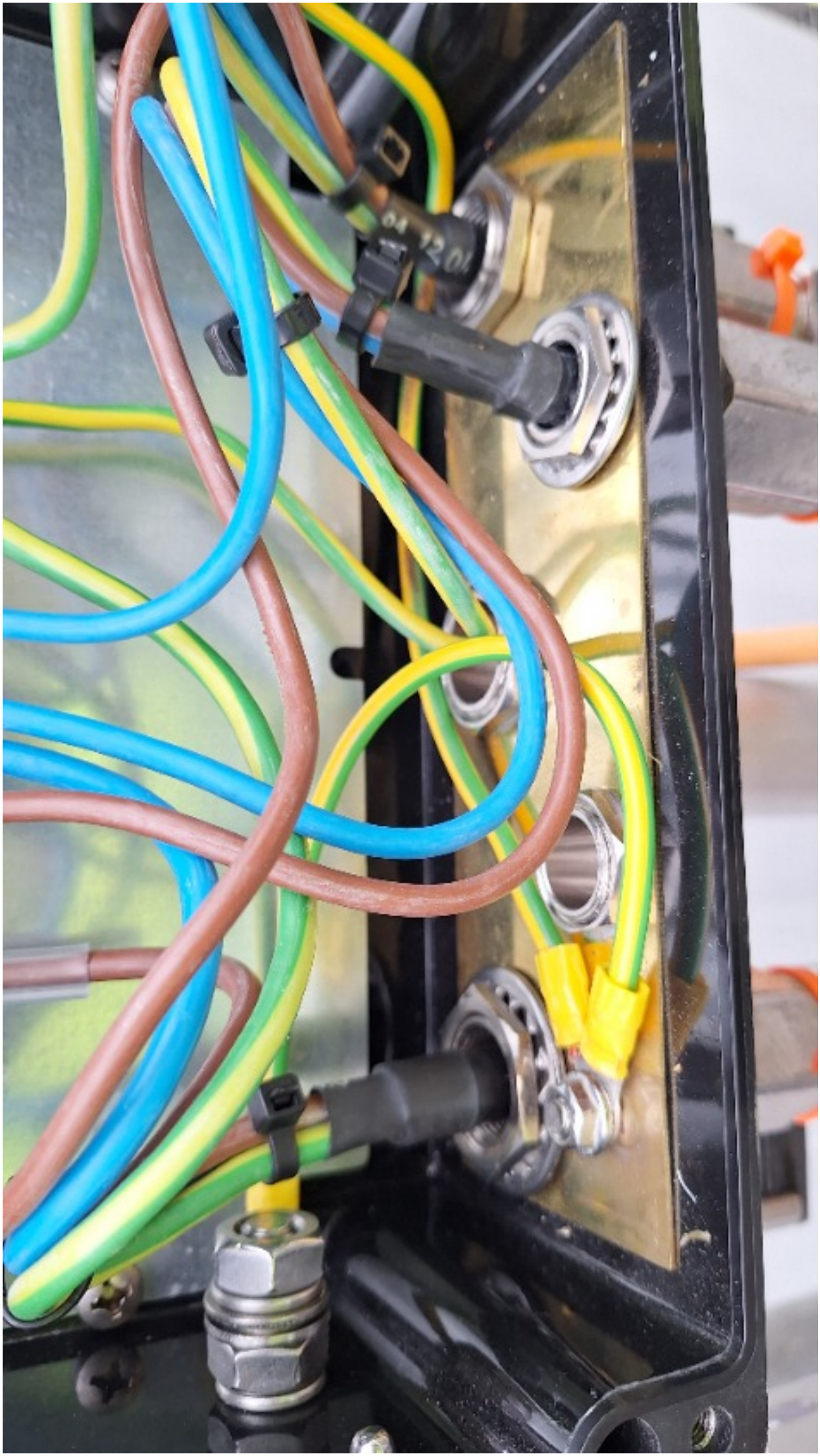
5 - CLEARANCE CHECK

Done

Name: Gabriele Bertuccelli
Date: 2025-02-05
Signature:

6- CLEARANCE APPROVAL

Name:
Date:
Signature:



ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30003088

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10001632	1.4 Discipline	ATEX
1.2 Item	EJB-200N1-02-L1-09	JB - NORMAL LIGHTING	
1.3 Subsystem	83-40	Normal Lighting Upper Deck	

2 - OBSERVATION

Wires inside JB have to be dressed properly

Name: Alessio Polo

Date: 2025-01-18

Signature:

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Alessio Polo
3.4 Activity code	MC Mechanical Completion	Date	2025-01-18
3.5 Action by	RM_CONSTR RM	Signature	

4 - PERFORMED ACTION

Name:

Date:

Signature:

5 - CLEARANCE CHECK

Done

Name: Gabriele Bertuccelli

Date: 2025-02-05

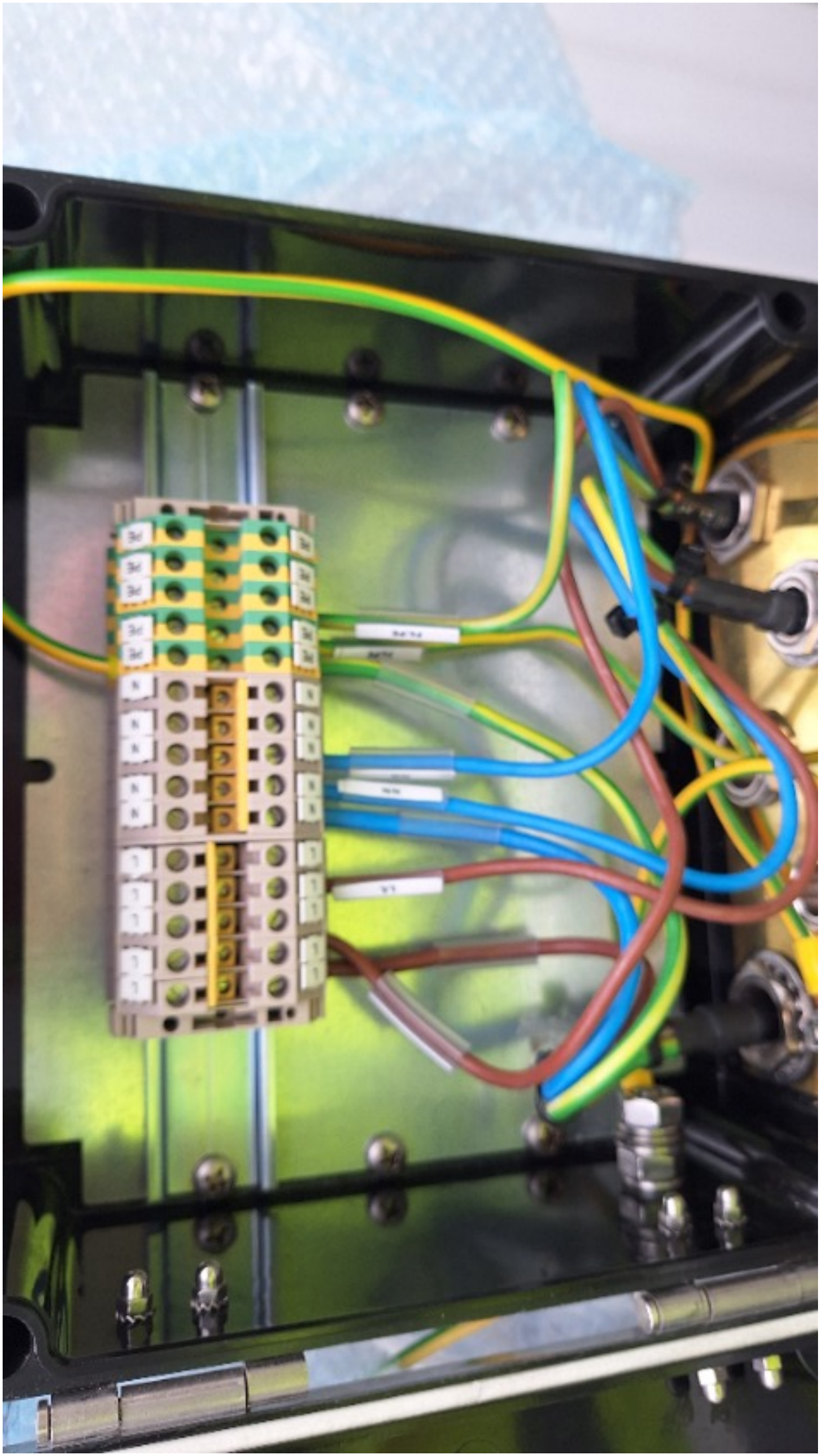
Signature:

6- CLEARANCE APPROVAL

Name:

Date:

Signature:



ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30003089

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10001634	1.4 Discipline	ATEX
1.2 Item	EJB-200N1-02-L1-13	JB - NORMAL LIGHTING	
1.3 Subsystem	83-40	Normal Lighting Upper Deck	

2 - OBSERVATION

The "plain" Lock nut must be removed and replaced with a suitable lock nut.

Name: Alessio Polo

Date: 2025-01-18

Signature:

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Alessio Polo
3.4 Activity code	MC Mechanical Completion	Date	2025-01-18
3.5 Action by	RM_CONSTR RM	Signature	

4 - PERFORMED ACTION

Name:

Date:

Signature:

5 - CLEARANCE CHECK

Done

Name: Gabriele Bertuccelli

Date: 2025-02-05

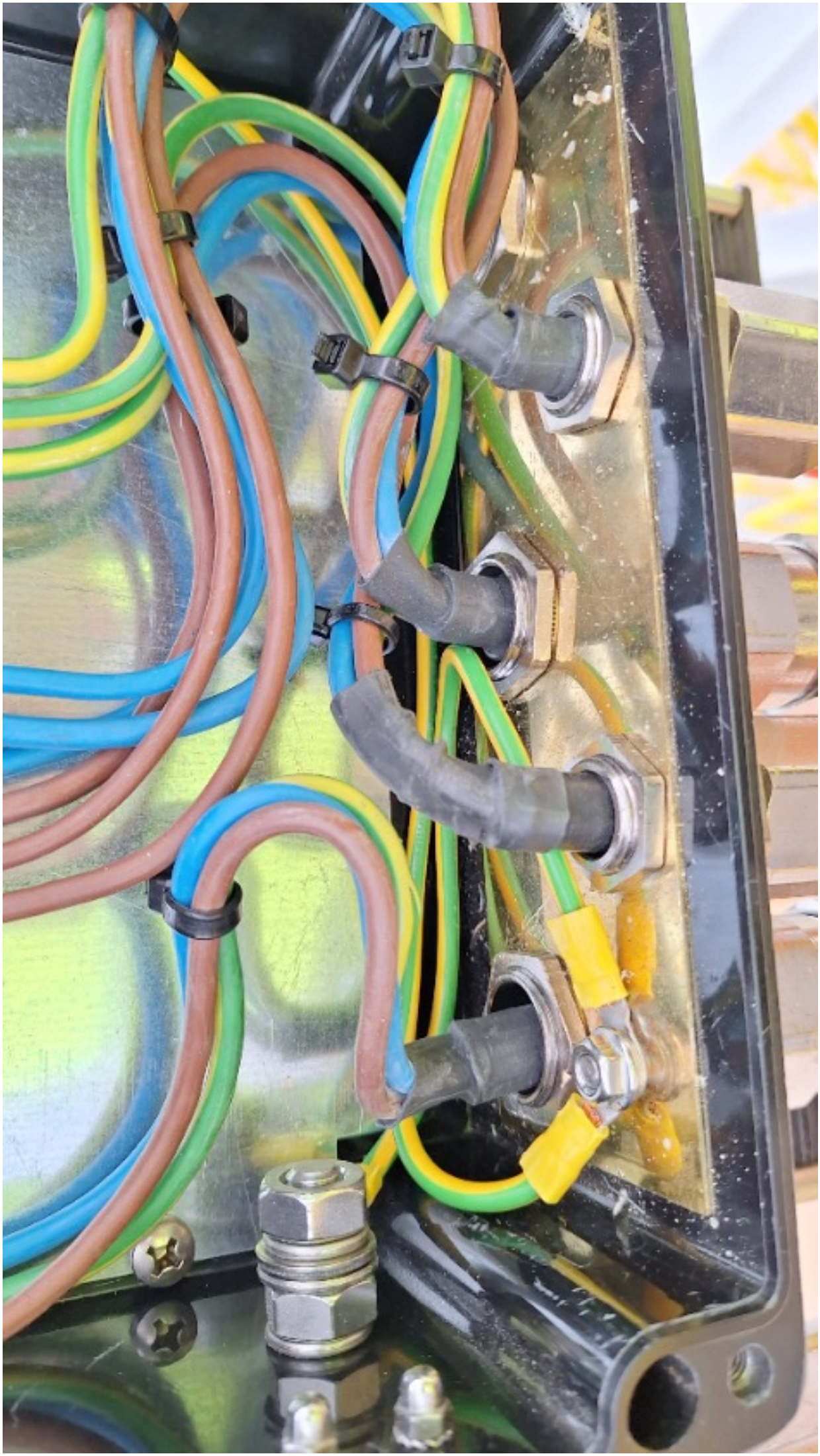
Signature:

6- CLEARANCE APPROVAL

Name:

Date:

Signature:



ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30002493

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10000680	1.4 Discipline	Electrical
1.2 Item	P-EJB-200N1-02-L1-09	Normal Lighting JB / Normal Lighting JB	
1.3 Subsystem	83-40	Normal Lighting Upper Deck	

2 - OBSERVATION

Missing identification wires tag of both side.
(P-EJB-200N1-02-L1-09/P-EJB-200N1-02-L1-08).

Name: Giovanni Tangianu
Date: 2025-01-09
Signature:

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Giovanni Tangianu
3.4 Activity code	MC Mechanical Completion	Date	2025-01-09
3.5 Action by	RM_CONSTR RM	Signature	

4 - PERFORMED ACTION

Name:
Date:
Signature:

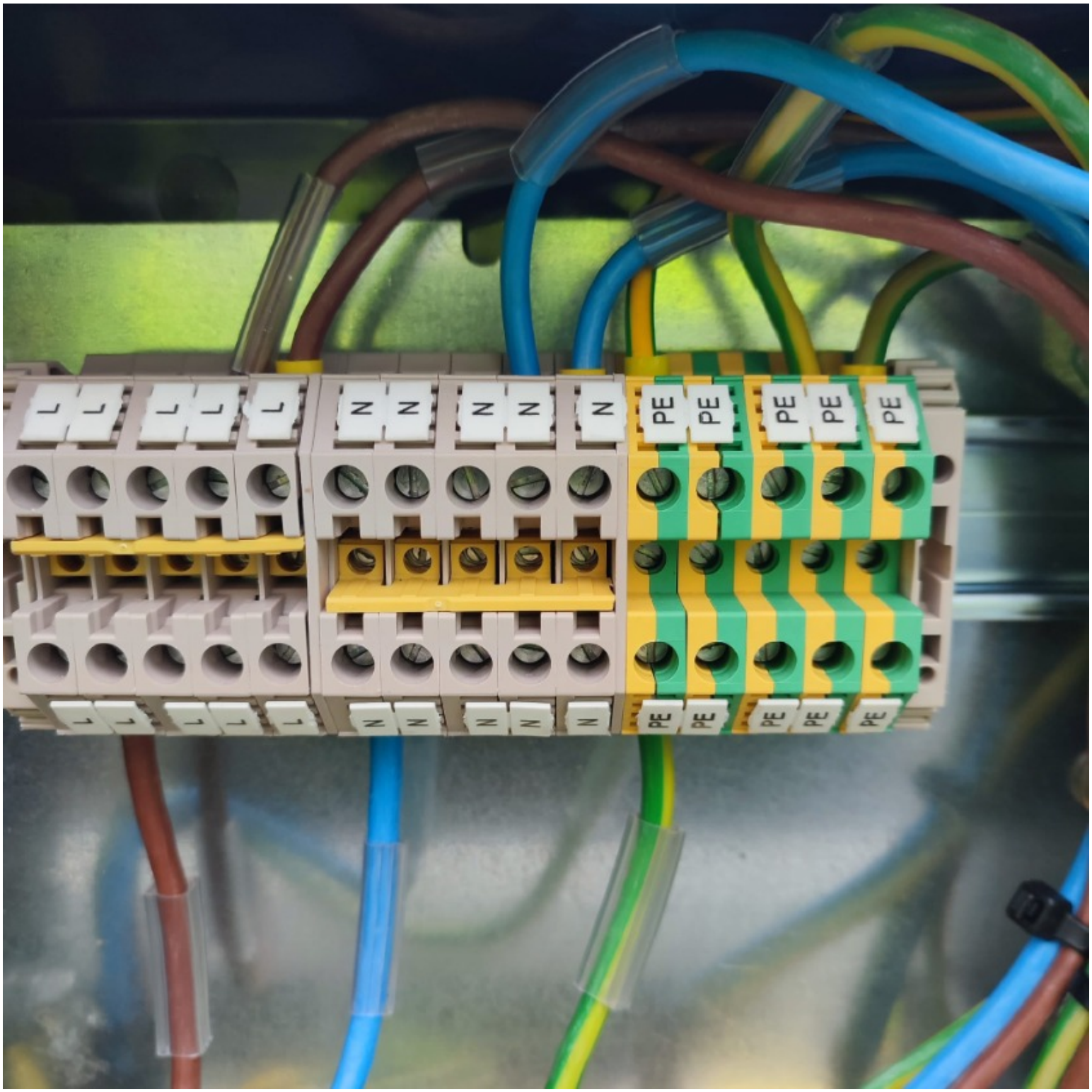
5 - CLEARANCE CHECK

Installed.

Name: Giovanni Tangianu
Date: 2025-02-04
Signature:

6- CLEARANCE APPROVAL

Name:
Date:
Signature:


L L L L L
N N N N N
PE PE PE PE PE

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30002494

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10000680	1.4 Discipline	Electrical
1.2 Item	P-EJB-200N1-02-L1-09	Normal Lighting JB / Normal Lighting JB	
1.3 Subsystem	83-40	Normal Lighting Upper Deck	

2 - OBSERVATION

Missing cable tag bot side the cable (EJB-200N1-02-L1-09(EJB-200N1-02-L1-08).

Name: Giovanni Tangianu

Date: 2025-01-09

Signature:

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Giovanni Tangianu
3.4 Activity code	MC Mechanical Completion	Date	2025-01-09
3.5 Action by	RM_CONSTR RM	Signature	

4 - PERFORMED ACTION

Name:

Date:

Signature:

5 - CLEARANCE CHECK

Done

Name: Gabriele Bertuccelli

Date: 2025-01-24

Signature:

6- CLEARANCE APPROVAL

Name:

Date:

Signature:

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30002495

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10000680	1.4 Discipline	Electrical
1.2 Item	P-EJB-200N1-02-L1-09	Normal Lighting JB / Normal Lighting JB	
1.3 Subsystem	83-40	Normal Lighting Upper Deck	

2 - OBSERVATION

Bending radius to be arranged better under the (EJB-200N1-02-L1-09). See attached photo.

Name: Giovanni Tangianu

Date: 2025-01-09

Signature:

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Giovanni Tangianu
3.4 Activity code	MC Mechanical Completion	Date	2025-01-09
3.5 Action by	RM_CONSTR RM	Signature	

4 - PERFORMED ACTION

Name:

Date:

Signature:

5 - CLEARANCE CHECK

DONE

Name: Andrea Andreani

Date: 2025-01-30

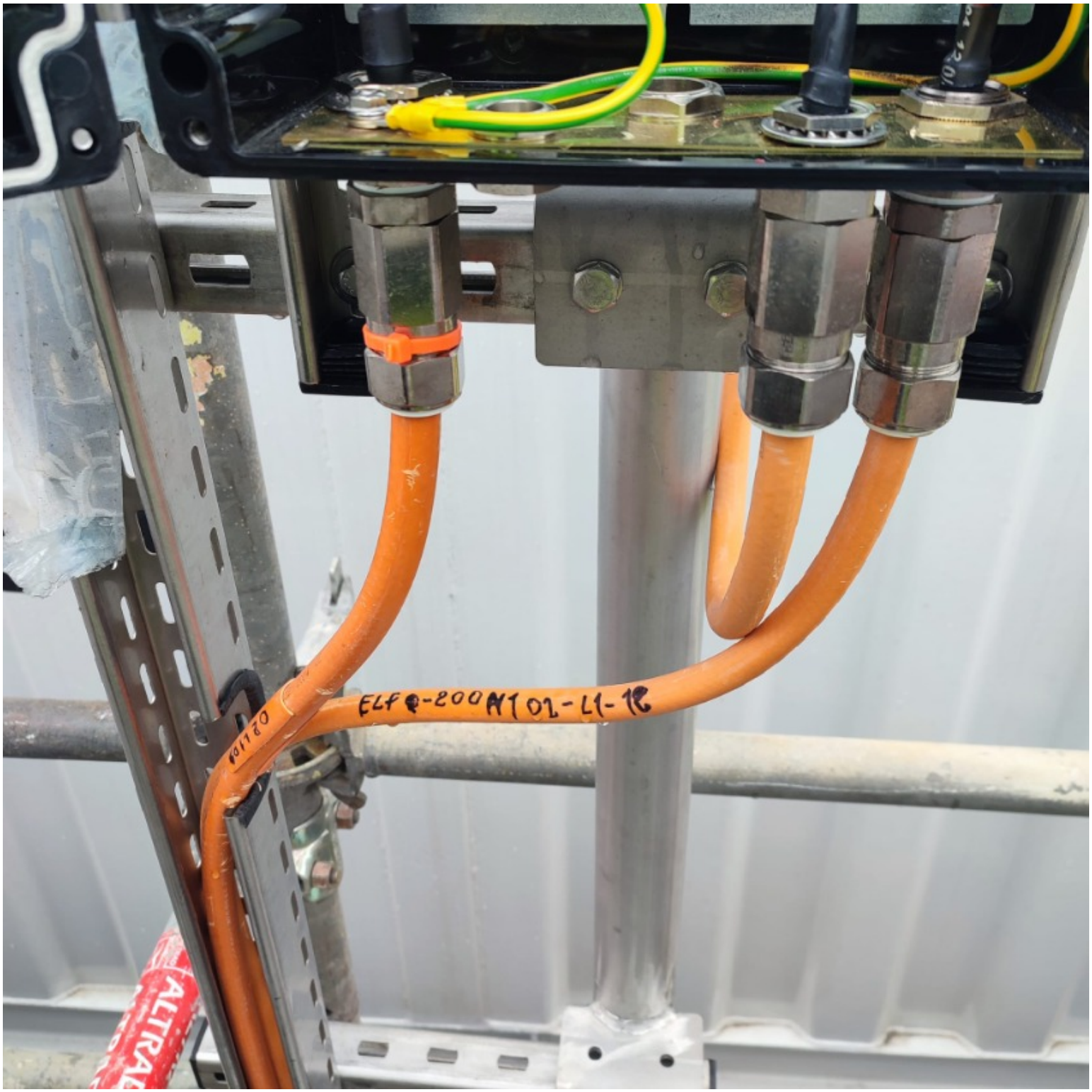
Signature:

6- CLEARANCE APPROVAL

Name:

Date:

Signature:


ELF-200M102-L1-1P
ALTRAD

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30002501

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10001637	1.4 Discipline	ATEX
1.2 Item	EJB-200N1-02-L1-19	JB - NORMAL LIGHTING	
1.3 Subsystem	83-40	Normal Lighting Upper Deck	

2 - OBSERVATION

Missing earthing cable outside the JB. (EJB-200N1-02-L1-19). See attached photo.

Name: Giovanni Tangianu
Date: 2025-01-09
Signature:

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	A PL A	Name	Giovanni Tangianu
3.4 Activity code	MC Mechanical Completion	Date	2025-01-09
3.5 Action by	RM_CONSTR RM	Signature	

4 - PERFORMED ACTION

Name:
Date:
Signature:

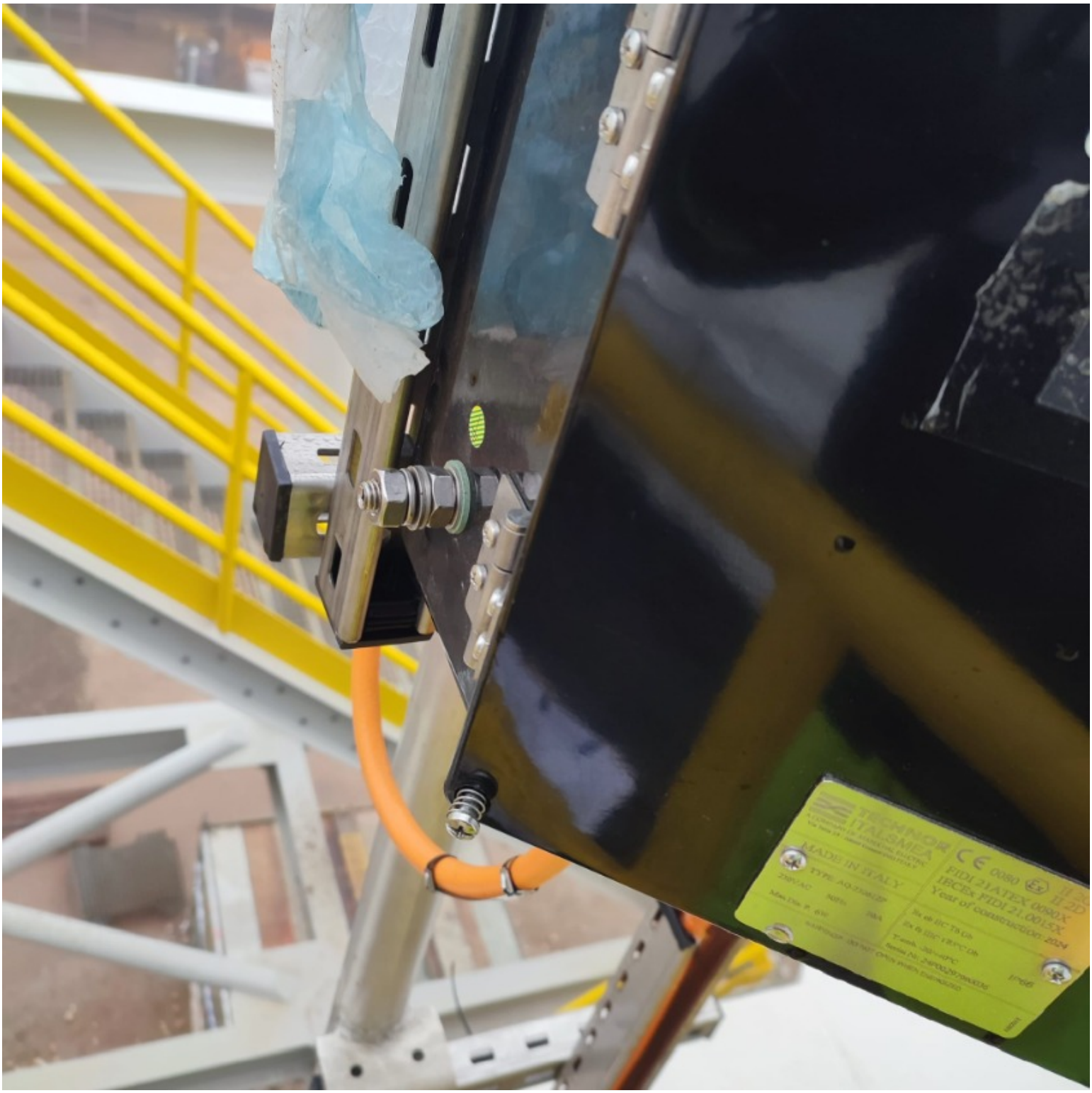
5 - CLEARANCE CHECK

Done

Name: Gabriele Bertuccelli
Date: 2025-01-22
Signature:

6- CLEARANCE APPROVAL

Name:
Date:
Signature:


MADE IN ITALY
CE 0080
FIDI 21ATEX 0080X
IECEx FIDI 21.0015X
Year of construction: 2024
IP65

ROSETTI MARINO CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30002502

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10000670	1.4 Discipline	Electrical
1.2 Item	P-EJB-200N1-02-L1-05	Normal Lighting JB / Normal Lighting JB	
1.3 Subsystem	83-40	Normal Lighting Upper Deck	

2 - OBSERVATION

adapter is present on the cable glandon both JB (EJB-200N1-02-L1-02 & EJB-200N1-02-L1-05) side; (adapter is not present on cable list)

Name: Andrea Andreani

Date: 2025-01-09

Signature:

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	A PL A	Name	Andrea Andreani
3.4 Activity code	MC Mechanical Completion	Date	2025-01-09
3.5 Action by	RM_CONSTR RM	Signature	

4 - PERFORMED ACTION

Name:

Date:

Signature:

5 - CLEARANCE CHECK

tThe cable gland was replaced.

Name: Giovanni Tangianu

Date: 2025-01-17

Signature:

6- CLEARANCE APPROVAL

Name:

Date:

Signature:

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30002503

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10000670	1.4 Discipline	Electrical
1.2 Item	P-EJB-200N1-02-L1-05	Normal Lighting JB / Normal Lighting JB	
1.3 Subsystem	83-40	Normal Lighting Upper Deck	

2 - OBSERVATION

Not enought threads are thightened between the lock nut and the cable gland body. on both JB (EJB-200N1-02-L1-02 & EJB-200N1-02-L1-05) side

Name: Andrea Andreani

Date: 2025-01-09

Signature:

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	A PL A	Name	Andrea Andreani
3.4 Activity code	MC Mechanical Completion	Date	2025-01-09
3.5 Action by	RM_CONSTR RM	Signature	

4 - PERFORMED ACTION

Name:

Date:

Signature:

5 - CLEARANCE CHECK

DONE

Name: Andrea Andreani

Date: 2025-01-20

Signature:

6- CLEARANCE APPROVAL

Name:

Date:

Signature:

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30002504

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10000670	1.4 Discipline	Electrical
1.2 Item	P-EJB-200N1-02-L1-05	Normal Lighting JB / Normal Lighting JB	
1.3 Subsystem	83-40	Normal Lighting Upper Deck	

2 - OBSERVATION

missing SS cable tag on both JBs (EJB-200N1-02-L1-02 & EJB-200N1-02-L1-05) side

Name: Andrea Andreani

Date: 2025-01-09

Signature:

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Andrea Andreani
3.4 Activity code	MC Mechanical Completion	Date	2025-01-09
3.5 Action by	RM_CONSTR RM	Signature	

4 - PERFORMED ACTION

Name:

Date:

Signature:

5 - CLEARANCE CHECK

DONE

Name: Alessio Polo

Date: 2025-02-03

Signature:

6- CLEARANCE APPROVAL

Name:

Date:

Signature:

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30002505

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10000670	1.4 Discipline	Electrical
1.2 Item	P-EJB-200N1-02-L1-05	Normal Lighting JB / Normal Lighting JB	
1.3 Subsystem	83-40	Normal Lighting Upper Deck	

2 - OBSERVATION

Core tag is missing for cable on both JB (EJB-200N1-02-L1-02 & EJB-200N1-02-L1-05) side

Name: Andrea Andreani

Date: 2025-01-09

Signature:

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Andrea Andreani
3.4 Activity code	MC Mechanical Completion	Date	2025-01-09
3.5 Action by	RM_CONSTR RM	Signature	

4 - PERFORMED ACTION

Name:

Date:

Signature:

5 - CLEARANCE CHECK

DONE

Name: Andrea Andreani

Date: 2025-02-05

Signature:

6- CLEARANCE APPROVAL

Name:

Date:

Signature:

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30002506

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10001637	1.4 Discipline	ATEX
1.2 Item	EJB-200N1-02-L1-19	JB - NORMAL LIGHTING	
1.3 Subsystem	83-40	Normal Lighting Upper Deck	

2 - OBSERVATION

The washer on the plugs need to be change.

See attached photo.

Name: Giovanni Tangianu

Date: 2025-01-09

Signature:

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Giovanni Tangianu
3.4 Activity code	MC Mechanical Completion	Date	2025-01-09
3.5 Action by	RM_CONSTR RM	Signature	

4 - PERFORMED ACTION

Name:

Date:

Signature:

5 - CLEARANCE CHECK

DONE

Name: Andrea Andreani

Date: 2025-02-05

Signature:

6- CLEARANCE APPROVAL

Name:

Date:

Signature:

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-200N1-02-L1-25/L

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30002620

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10000697	1.4 Discipline	Electrical
1.2 Item	P-EJB-200N1-02-L1-16	Normal Lighting JB / Normal Lighting JB	
1.3 Subsystem	83-40	Normal Lighting Upper Deck	

2 - OBSERVATION

Missing cable tag SS , near the jb EJB-200N1-02-L1-15 / jb EJB-200N1-02-L1-16

Name: Alessio Polo

Date: 2025-01-10

Signature:

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Alessio Polo
3.4 Activity code	MC Mechanical Completion	Date	2025-01-10
3.5 Action by	RM_CONSTR RM	Signature	

4 - PERFORMED ACTION

Name:

Date:

Signature:

5 - CLEARANCE CHECK

DONE

Name: Andrea Andreani

Date: 2025-01-20

Signature:

6- CLEARANCE APPROVAL

Name:

Date:

Signature:

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30002621

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10000697	1.4 Discipline	Electrical
1.2 Item	P-EJB-200N1-02-L1-16	Normal Lighting JB / Normal Lighting JB	
1.3 Subsystem	83-40	Normal Lighting Upper Deck	

2 - OBSERVATION

Missing cores identification tag. side EJB-200N1-02-L1-15 / EJB-200N1-02-L1-16 . (see document 123A90-DDL-EL-DD-20092 sh.7-8)

Name: Alessio Polo
Date: 2025-01-10
Signature:

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Alessio Polo
3.4 Activity code	MC Mechanical Completion	Date	2025-01-10
3.5 Action by	RM_CONSTR RM	Signature	

4 - PERFORMED ACTION

Name:
Date:
Signature:

5 - CLEARANCE CHECK

DONE

Name: Andrea Andreani
Date: 2025-02-05
Signature:

6- CLEARANCE APPROVAL

Name:
Date:
Signature:

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30002622

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10002368	1.4 Discipline	Electrical
1.2 Item	P-EJB-200N1-02-L1-20	Normal Lighting JB / Normal Lighting JB	
1.3 Subsystem	83-40	Normal Lighting Upper Deck	

2 - OBSERVATION

Missing cable tag SS , near EJB-200N1-02-L1-14 / near EJB-200N1-02-L1-14.

Name: Alessio Polo

Date: 2025-01-10

Signature:

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Alessio Polo
3.4 Activity code	MC Mechanical Completion	Date	2025-01-10
3.5 Action by	RM_CONSTR RM	Signature	

4 - PERFORMED ACTION

Name:

Date:

Signature:

5 - CLEARANCE CHECK

DONE

Name: Eleonora Carotenuto

Date: 2025-01-31

Signature:

6- CLEARANCE APPROVAL

Name:

Date:

Signature:

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30002623

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10002368	1.4 Discipline	Electrical
1.2 Item	P-EJB-200N1-02-L1-20	Normal Lighting JB / Normal Lighting JB	
1.3 Subsystem	83-40	Normal Lighting Upper Deck	

2 - OBSERVATION

Wrong cores identification tag. side EJB-200N1-02-L1-14 / side EJB-200N1-02-L1-20. (see document 123A90-DDL-EL-DD-20092 sh.7-8)

Name: Alessio Polo
Date: 2025-01-10
Signature:

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Alessio Polo
3.4 Activity code	MC Mechanical Completion	Date	2025-01-10
3.5 Action by	RM_CONSTR RM	Signature	

4 - PERFORMED ACTION

Name:
Date:
Signature:

5 - CLEARANCE CHECK

DONE

Name: Alessio Polo
Date: 2025-02-04
Signature:

6- CLEARANCE APPROVAL

Name:
Date:
Signature:

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30002624

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10002368	1.4 Discipline	Electrical
1.2 Item	P-EJB-200N1-02-L1-20	Normal Lighting JB / Normal Lighting JB	
1.3 Subsystem	83-40	Normal Lighting Upper Deck	

2 - OBSERVATION

The cable gland lock nut and serrated washer must be removed and replaced with a suitable cable gland lock nut. side EJB-200N1-02-L1-14 / side EJB-200N1-02-L1-20.

Name: Alessio Polo
Date: 2025-01-10
Signature:

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	A PL A	Name	Alessio Polo
3.4 Activity code	MC Mechanical Completion	Date	2025-01-10
3.5 Action by	RM_CONSTR RM	Signature	

4 - PERFORMED ACTION

Name:
Date:
Signature:

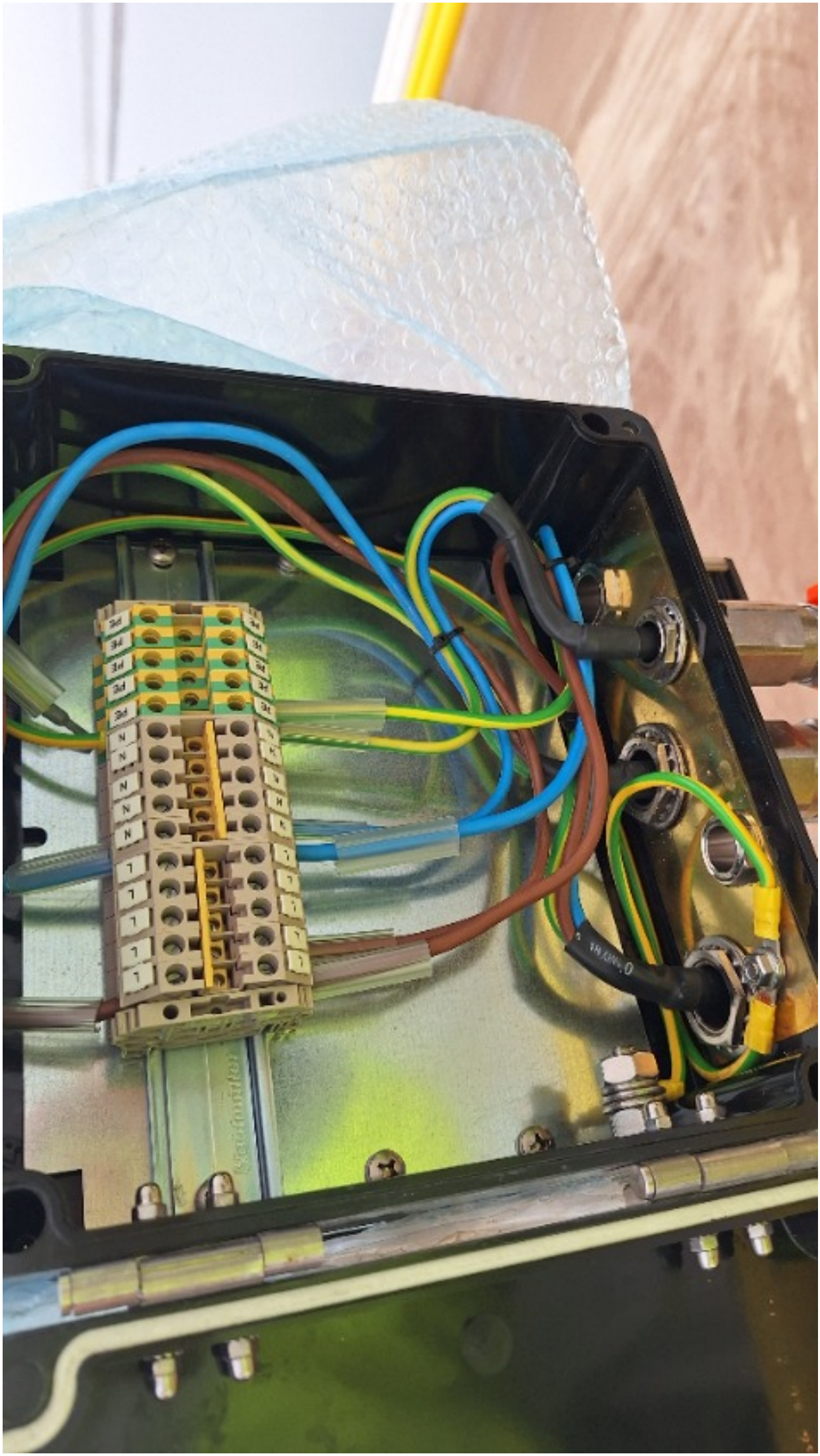
5 - CLEARANCE CHECK

DONE

Name: Andrea Andreani
Date: 2025-01-20
Signature:

6- CLEARANCE APPROVAL

Name:
Date:
Signature:



ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30002625

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10000693	1.4 Discipline	Electrical
1.2 Item	P-EJB-200N1-02-L1-14	Normal Lighting JB / Normal Lighting JB	
1.3 Subsystem	83-40	Normal Lighting Upper Deck	

2 - OBSERVATION

Missing cable tag SS , near EJB-200N1-02-L1-13 / EJB-200N1-02-L1-14

Name: Alessio Polo

Date: 2025-01-10

Signature:

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Alessio Polo
3.4 Activity code	MC Mechanical Completion	Date	2025-01-10
3.5 Action by	RM_CONSTR RM	Signature	

4 - PERFORMED ACTION

Name:

Date:

Signature:

5 - CLEARANCE CHECK

DONE

Name: Andrea Andreani

Date: 2025-01-20

Signature:

6- CLEARANCE APPROVAL

Name:

Date:

Signature:

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30002626

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10000693	1.4 Discipline	Electrical
1.2 Item	P-EJB-200N1-02-L1-14	Normal Lighting JB / Normal Lighting JB	
1.3 Subsystem	83-40	Normal Lighting Upper Deck	

2 - OBSERVATION

Missing cores identification tag. side EJB-200N1-02-L1-13 / side EJB-200N1-02-L1-14 . (see document 123A90-DDL-EL-DD-20092 sh.7-8)

Name: Alessio Polo
Date: 2025-01-10
Signature:

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Alessio Polo
3.4 Activity code	MC Mechanical Completion	Date	2025-01-10
3.5 Action by	RM_CONSTR RM	Signature	

4 - PERFORMED ACTION

Name:
Date:
Signature:

5 - CLEARANCE CHECK

Done

Name: Gabriele Bertuccelli
Date: 2025-02-05
Signature:

6- CLEARANCE APPROVAL

Name:
Date:
Signature:

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30002633

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10000693	1.4 Discipline	Electrical
1.2 Item	P-EJB-200N1-02-L1-14	Normal Lighting JB / Normal Lighting JB	
1.3 Subsystem	83-40	Normal Lighting Upper Deck	

2 - OBSERVATION

The cable gland lock nut and serrated washer must be removed and replaced with a suitable cable gland lock nut. side EJB-200N1-02-L1-14.

Name: Alessio Polo
Date: 2025-01-10
Signature:

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	A PL A	Name	Alessio Polo
3.4 Activity code	MC Mechanical Completion	Date	2025-01-10
3.5 Action by	RM_CONSTR RM	Signature	

4 - PERFORMED ACTION

Name:
Date:
Signature:

5 - CLEARANCE CHECK

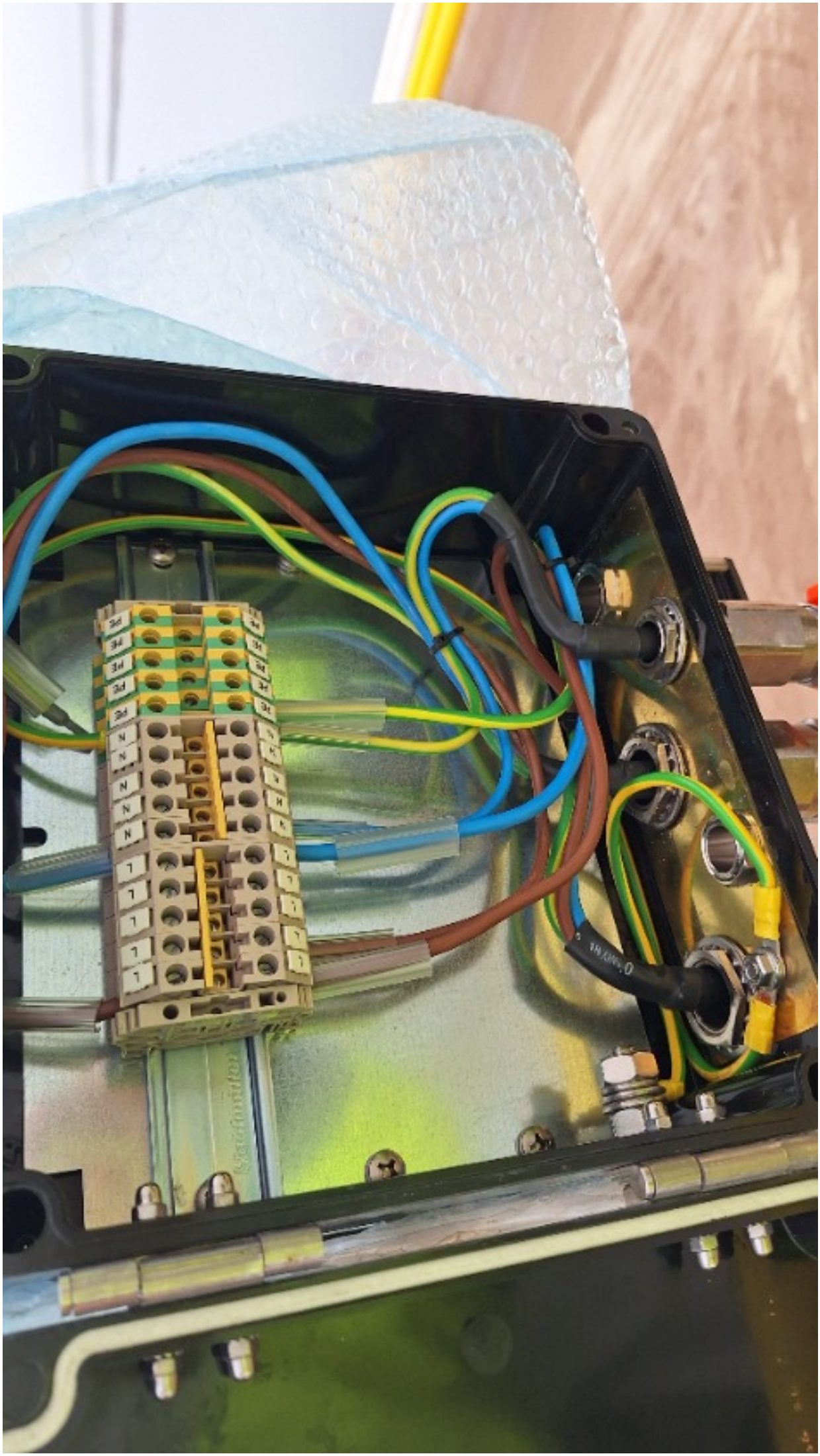
DONE

Name: Andrea Andreani
Date: 2025-01-20
Signature:

6- CLEARANCE APPROVAL

Name:
Date:
Signature:


EJB-200N1-02-L1-14



ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30002647

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10000664	1.4 Discipline	Electrical
1.2 Item	P-ELF-200N1-02-L1-03	Normal Lighting JB / Normal Lighting Fixture	
1.3 Subsystem	83-40	Normal Lighting Upper Deck	

2 - OBSERVATION

Missing cable tag SS , near EJB-200N1-02-L1-01 / ELF-200N1-02-L1-03

Name: Alessio Polo

Date: 2025-01-10

Signature:

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Alessio Polo
3.4 Activity code	MC Mechanical Completion	Date	2025-01-10
3.5 Action by	RM_CONSTR RM	Signature	

4 - PERFORMED ACTION

Name:

Date:

Signature:

5 - CLEARANCE CHECK

Done

Name: Gabriele Bertuccelli

Date: 2025-02-05

Signature:

6- CLEARANCE APPROVAL

Name:

Date:

Signature:

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30002652

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10001361	1.4 Discipline	Electrical
1.2 Item	ELF-200N1-02-L1-03	NORMAL LIGHT	
1.3 Subsystem	83-40	Normal Lighting Upper Deck	

2 - OBSERVATION

The support is not well secured against vibration. another bracket needs to be added.

Name: Alessio Polo

Date: 2025-01-10

Signature:

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Alessio Polo
3.4 Activity code	MC Mechanical Completion	Date	2025-01-10
3.5 Action by	RM_CONSTR RM	Signature	

4 - PERFORMED ACTION

Name:

Date:

Signature:

5 - CLEARANCE CHECK

Installation carried out as per typical 123A90-DDL-EL-DD-20091 and 123A90-DDL-IN-DD-40017 drawing. Eng states that no additional support is needed.

Name: Giovanni Tangianu

Date: 2025-03-07

Signature:

6- CLEARANCE APPROVAL

Name:

Date:

Signature:

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ICOU

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30002653

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10001361	1.4 Discipline	Electrical
1.2 Item	ELF-200N1-02-L1-03	NORMAL LIGHT	
1.3 Subsystem	83-40	Normal Lighting Upper Deck	

2 - OBSERVATION

Missing traffolyte tag side Lighting

Name: Alessio Polo

Date: 2025-01-10

Signature:

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Alessio Polo
3.4 Activity code	MC Mechanical Completion	Date	2025-01-10
3.5 Action by	RM_CONSTR RM	Signature	

4 - PERFORMED ACTION

Name:

Date:

Signature:

5 - CLEARANCE CHECK

DONE

Name: Andrea Andreani

Date: 2025-01-30

Signature:

6- CLEARANCE APPROVAL

Name:

Date:

Signature:

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30002662

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10001361	1.4 Discipline	Electrical
1.2 Item	ELF-200N1-02-L1-03	NORMAL LIGHT	
1.3 Subsystem	83-40	Normal Lighting Upper Deck	

2 - OBSERVATION

The earthing cable of the lamp must be connected to the nearest earthing bar / plate / threaded stud

Name: Alessio Polo
Date: 2025-01-10
Signature:

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	A PL A	Name	Alessio Polo
3.4 Activity code	MC Mechanical Completion	Date	2025-01-10
3.5 Action by	RM_CONSTR RM	Signature	

4 - PERFORMED ACTION

Name:
Date:
Signature:

5 - CLEARANCE CHECK

DONE

Name: Andrea Andreani
Date: 2025-01-23
Signature:

6- CLEARANCE APPROVAL

Name:
Date:
Signature:



ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30002691

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10000665	1.4 Discipline	Electrical
1.2 Item	P-EJB-200N1-02-L1-02	Normal Lighting JB / Normal Lighting JB	
1.3 Subsystem	83-40	Normal Lighting Upper Deck	

2 - OBSERVATION

missing SS cable tag on both JBs (EJB-200N1-02-L1-02 & EJB-200N1-02-L1-01) side

Name: Andrea Andreani

Date: 2025-01-11

Signature:

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Andrea Andreani
3.4 Activity code	MC Mechanical Completion	Date	2025-01-11
3.5 Action by	RM_CONSTR RM	Signature	

4 - PERFORMED ACTION

Name:

Date:

Signature:

5 - CLEARANCE CHECK

DONE

Name: Alessio Polo

Date: 2025-02-03

Signature:

6- CLEARANCE APPROVAL

Name:

Date:

Signature:

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30002717

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10000678	1.4 Discipline	Electrical
1.2 Item	P-EJB-200N1-02-L1-08	Normal Lighting JB / Normal Lighting JB	
1.3 Subsystem	83-40	Normal Lighting Upper Deck	

2 - OBSERVATION

missing SS cable tag on both JBs (EJB-200N1-02-L1-03 & EJB-200N1-02-L1-08) side

Name: Andrea Andreani

Date: 2025-01-13

Signature:

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Andrea Andreani
3.4 Activity code	MC Mechanical Completion	Date	2025-01-13
3.5 Action by	RM_CONSTR RM	Signature	

4 - PERFORMED ACTION

Name:

Date:

Signature:

5 - CLEARANCE CHECK

Done

Name: Gabriele Bertuccelli

Date: 2025-02-05

Signature:

6- CLEARANCE APPROVAL

Name:

Date:

Signature:

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30002718

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10000678	1.4 Discipline	Electrical
1.2 Item	P-EJB-200N1-02-L1-08	Normal Lighting JB / Normal Lighting JB	
1.3 Subsystem	83-40	Normal Lighting Upper Deck	

2 - OBSERVATION

Core tag is missing for cable on both JBs (EJB-200N1-02-L1-03 & EJB-200N1-02-L1-08) side

Name: Andrea Andreani

Date: 2025-01-13

Signature:

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Andrea Andreani
3.4 Activity code	MC Mechanical Completion	Date	2025-01-13
3.5 Action by	RM_CONSTR RM	Signature	

4 - PERFORMED ACTION

Name:

Date:

Signature:

5 - CLEARANCE CHECK

Done

Name: Gabriele Bertuccelli

Date: 2025-02-05

Signature:

6- CLEARANCE APPROVAL

Name:

Date:

Signature:

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30002719

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10000678	1.4 Discipline	Electrical
1.2 Item	P-EJB-200N1-02-L1-08	Normal Lighting JB / Normal Lighting JB	
1.3 Subsystem	83-40	Normal Lighting Upper Deck	

2 - OBSERVATION

adapter is present on the cable gland (adapter is not present on cable list)

Name: Andrea Andreani

Date: 2025-01-13

Signature:

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	A PL A	Name	Andrea Andreani
3.4 Activity code	MC Mechanical Completion	Date	2025-01-13
3.5 Action by	RM_CONSTR RM	Signature	

4 - PERFORMED ACTION

Name:

Date:

Signature:

5 - CLEARANCE CHECK

The activity is done.

Name: Giovanni Tangianu

Date: 2025-01-17

Signature:

6- CLEARANCE APPROVAL

Name:

Date:

Signature:

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30002720

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10000679	1.4 Discipline	Electrical
1.2 Item	P-ELF-200N1-02-L1-11	Normal Lighting JB / Normal Lighting Fixture	
1.3 Subsystem	83-40	Normal Lighting Upper Deck	

2 - OBSERVATION

missing SS cable tag on both JB and light side

Name: Andrea Andreani

Date: 2025-01-13

Signature:

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Andrea Andreani
3.4 Activity code	MC Mechanical Completion	Date	2025-01-13
3.5 Action by	RM_CONSTR RM	Signature	

4 - PERFORMED ACTION

Name:

Date:

Signature:

5 - CLEARANCE CHECK

Done

Name: Gabriele Bertuccelli

Date: 2025-01-24

Signature:

6- CLEARANCE APPROVAL

Name:

Date:

Signature:

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30002721

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10001666	1.4 Discipline	ATEX
1.2 Item	ELF-200N1-02-L1-11	NORMAL LIGHT	
1.3 Subsystem	83-40	Normal Lighting Upper Deck	

2 - OBSERVATION

missing all lock nuts for stopped the lamp

Name: Andrea Andreani

Date: 2025-01-13

Signature:

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Andrea Andreani
3.4 Activity code	MC Mechanical Completion	Date	2025-01-13
3.5 Action by	RM_CONSTR RM	Signature	

4 - PERFORMED ACTION

Name:

Date:

Signature:

5 - CLEARANCE CHECK

Point not applicable

Name: Luca Mussi

Date: 2025-01-17

Signature:

6- CLEARANCE APPROVAL

Name:

Date:

Signature:

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30002722

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10001666	1.4 Discipline	ATEX
1.2 Item	ELF-200N1-02-L1-11	NORMAL LIGHT	
1.3 Subsystem	83-40	Normal Lighting Upper Deck	

2 - OBSERVATION

Trafolite tag is missing

Name: Andrea Andreani

Date: 2025-01-13

Signature:

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Andrea Andreani
3.4 Activity code	MC Mechanical Completion	Date	2025-01-13
3.5 Action by	RM_CONSTR RM	Signature	

4 - PERFORMED ACTION

Name:

Date:

Signature:

5 - CLEARANCE CHECK

DONE

Name: Andrea Andreani

Date: 2025-01-31

Signature:

6- CLEARANCE APPROVAL

Name:

Date:

Signature:

ROSETTI MARINO CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30002723

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10001666	1.4 Discipline	ATEX
1.2 Item	ELF-200N1-02-L1-11	NORMAL LIGHT	
1.3 Subsystem	83-40	Normal Lighting Upper Deck	

2 - OBSERVATION

The support is not well secured against vibration. another support needs to be added

Name: Andrea Andreani

Date: 2025-01-13

Signature:

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Andrea Andreani
3.4 Activity code	MC Mechanical Completion	Date	2025-01-13
3.5 Action by	RM_CONSTR RM	Signature	

4 - PERFORMED ACTION

Name:

Date:

Signature:

5 - CLEARANCE CHECK

Installation carried out as per typical 123A90-DDL-EL-DD-20091 and 123A90-DDL-IN-DD-40017 drawing. Eng states that no additional support is needed.

Name: Giovanni Tangianu

Date: 2025-03-07

Signature:

6- CLEARANCE APPROVAL

Name:

Date:

Signature:

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30002724

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10000681	1.4 Discipline	Electrical
1.2 Item	P-ELF-200N1-02-L1-13	Normal Lighting JB / Normal Lighting Fixture	
1.3 Subsystem	83-40	Normal Lighting Upper Deck	

2 - OBSERVATION

Not enought threads are thightened between the lock nut and the cable gland body. on JB side

Name: Andrea Andreani

Date: 2025-01-13

Signature:

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	A PL A	Name	Andrea Andreani
3.4 Activity code	MC Mechanical Completion	Date	2025-01-13
3.5 Action by	RM_CONSTR RM	Signature	

4 - PERFORMED ACTION

Name:

Date:

Signature:

5 - CLEARANCE CHECK

Done

Name: Gabriele Bertuccelli

Date: 2025-01-22

Signature:

6- CLEARANCE APPROVAL

Name:

Date:

Signature:

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30002725

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10000681	1.4 Discipline	Electrical
1.2 Item	P-ELF-200N1-02-L1-13	Normal Lighting JB / Normal Lighting Fixture	
1.3 Subsystem	83-40	Normal Lighting Upper Deck	

2 - OBSERVATION

missing SS cable tag on both JB and light side

Name: Andrea Andreani

Date: 2025-01-13

Signature:

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Andrea Andreani
3.4 Activity code	MC Mechanical Completion	Date	2025-01-13
3.5 Action by	RM_CONSTR RM	Signature	

4 - PERFORMED ACTION

Name:

Date:

Signature:

5 - CLEARANCE CHECK

Done

Name: Gabriele Bertuccelli

Date: 2025-01-24

Signature:

6- CLEARANCE APPROVAL

Name:

Date:

Signature:

ROSETTI MARINO CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30002726

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10001668	1.4 Discipline	ATEX
1.2 Item	ELF-200N1-02-L1-13	NORMAL LIGHT	
1.3 Subsystem	83-40	Normal Lighting Upper Deck	

2 - OBSERVATION

The support is not well secured against vibration. another support needs to be added

Name: Andrea Andreani

Date: 2025-01-13

Signature:

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Andrea Andreani
3.4 Activity code	MC Mechanical Completion	Date	2025-01-13
3.5 Action by	RM_CONSTR RM	Signature	

4 - PERFORMED ACTION

Name:

Date:

Signature:

5 - CLEARANCE CHECK

Installation carried out as per typical 123A90-DDL-EL-DD-20091 and 123A90-DDL-IN-DD-40017 drawing. Eng states that no additional support is needed.

Name: Giovanni Tangianu

Date: 2025-03-07

Signature:

6- CLEARANCE APPROVAL

Name:

Date:

Signature:

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30002727

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10001668	1.4 Discipline	ATEX
1.2 Item	ELF-200N1-02-L1-13	NORMAL LIGHT	
1.3 Subsystem	83-40	Normal Lighting Upper Deck	

2 - OBSERVATION

Trafolite tag is missing

Name: Andrea Andreani

Date: 2025-01-13

Signature:

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Andrea Andreani
3.4 Activity code	MC Mechanical Completion	Date	2025-01-13
3.5 Action by	RM_CONSTR RM	Signature	

4 - PERFORMED ACTION

Name:

Date:

Signature:

5 - CLEARANCE CHECK

DONE

Name: Andrea Andreani

Date: 2025-01-30

Signature:

6- CLEARANCE APPROVAL

Name:

Date:

Signature:

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30002728

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10001668	1.4 Discipline	ATEX
1.2 Item	ELF-200N1-02-L1-13	NORMAL LIGHT	
1.3 Subsystem	83-40	Normal Lighting Upper Deck	

2 - OBSERVATION

missing all lock nuts for stopped the lamp

Name: Andrea Andreani

Date: 2025-01-13

Signature:

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Andrea Andreani
3.4 Activity code	MC Mechanical Completion	Date	2025-01-13
3.5 Action by	RM_CONSTR RM	Signature	

4 - PERFORMED ACTION

Name:

Date:

Signature:

5 - CLEARANCE CHECK

Point not applicable

Name: Luca Mussi

Date: 2025-01-17

Signature:

6- CLEARANCE APPROVAL

Name:

Date:

Signature:

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30002761

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10000666	1.4 Discipline	Electrical
1.2 Item	P-ELF-200N1-02-L1-04	Normal Lighting JB / Normal Lighting Fixture	
1.3 Subsystem	83-40	Normal Lighting Upper Deck	

2 - OBSERVATION

missing SS cable tag on both JB and light side

Name: Andrea Andreani

Date: 2025-01-14

Signature:

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Andrea Andreani
3.4 Activity code	MC Mechanical Completion	Date	2025-01-14
3.5 Action by	RM_CONSTR RM	Signature	

4 - PERFORMED ACTION

Name:

Date:

Signature:

5 - CLEARANCE CHECK

Done

Name: Gabriele Bertuccelli

Date: 2025-01-24

Signature:

6- CLEARANCE APPROVAL

Name:

Date:

Signature:

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30002762

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10001357	1.4 Discipline	ATEX
1.2 Item	ELF-200N1-02-L1-04	NORMAL LIGHT	
1.3 Subsystem	83-40	Normal Lighting Upper Deck	

2 - OBSERVATION

light contaminated by rust, see attached foto

Name: Andrea Andreani

Date: 2025-01-14

Signature:

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Andrea Andreani
3.4 Activity code	MC Mechanical Completion	Date	2025-01-14
3.5 Action by	RM_CONSTR RM	Signature	

4 - PERFORMED ACTION

Name:

Date:

Signature:

5 - CLEARANCE CHECK

DONE

Name: Andrea Andreani

Date: 2025-02-28

Signature:

6- CLEARANCE APPROVAL

Name:

Date:

Signature:


ELF-02-L1-04
Emergency exit
Do not block

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30002763

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10001357	1.4 Discipline	ATEX
1.2 Item	ELF-200N1-02-L1-04	NORMAL LIGHT	
1.3 Subsystem	83-40	Normal Lighting Upper Deck	

2 - OBSERVATION

nylon sheet is missing under the supports

Name: Andrea Andreani

Date: 2025-01-14

Signature:

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Andrea Andreani
3.4 Activity code	MC Mechanical Completion	Date	2025-01-14
3.5 Action by	RM_CONSTR RM	Signature	

4 - PERFORMED ACTION

Name:

Date:

Signature:

5 - CLEARANCE CHECK

DONE

Name: Andrea Andreani

Date: 2025-01-30

Signature:

6- CLEARANCE APPROVAL

Name:

Date:

Signature:

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30002764

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10001357	1.4 Discipline	ATEX
1.2 Item	ELF-200N1-02-L1-04	NORMAL LIGHT	
1.3 Subsystem	83-40	Normal Lighting Upper Deck	

2 - OBSERVATION

missing all lock nuts for stopped the lamp

Name: Andrea Andreani

Date: 2025-01-14

Signature:

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Andrea Andreani
3.4 Activity code	MC Mechanical Completion	Date	2025-01-14
3.5 Action by	RM_CONSTR RM	Signature	

4 - PERFORMED ACTION

Name:

Date:

Signature:

5 - CLEARANCE CHECK

Point not applicable

Name: Luca Mussi

Date: 2025-01-17

Signature:

6- CLEARANCE APPROVAL

Name:

Date:

Signature:

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30002765

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10001357	1.4 Discipline	ATEX
1.2 Item	ELF-200N1-02-L1-04	NORMAL LIGHT	
1.3 Subsystem	83-40	Normal Lighting Upper Deck	

2 - OBSERVATION

missing earthing connection

Name: Andrea Andreani

Date: 2025-01-14

Signature:

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	A PL A	Name	Andrea Andreani
3.4 Activity code	MC Mechanical Completion	Date	2025-01-14
3.5 Action by	RM_CONSTR RM	Signature	

4 - PERFORMED ACTION

Name:

Date:

Signature:

5 - CLEARANCE CHECK

DONE

Name: Andrea Andreani

Date: 2025-01-20

Signature:

6- CLEARANCE APPROVAL

Name:

Date:

Signature:

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30002766

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10001357	1.4 Discipline	ATEX
1.2 Item	ELF-200N1-02-L1-04	NORMAL LIGHT	
1.3 Subsystem	83-40	Normal Lighting Upper Deck	

2 - OBSERVATION

Trafolite tag is missing

Name: Andrea Andreani

Date: 2025-01-14

Signature:

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Andrea Andreani
3.4 Activity code	MC Mechanical Completion	Date	2025-01-14
3.5 Action by	RM_CONSTR RM	Signature	

4 - PERFORMED ACTION

Name:

Date:

Signature:

5 - CLEARANCE CHECK

DONE

Name: Andrea Andreani

Date: 2025-01-30

Signature:

6- CLEARANCE APPROVAL

Name:

Date:

Signature:

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30002767

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10000662	1.4 Discipline	Electrical
1.2 Item	P-ELF-200N1-02-L1-01	Normal Lighting JB / Normal Lighting Fixture	
1.3 Subsystem	83-40	Normal Lighting Upper Deck	

2 - OBSERVATION

missing SS cable tag on both JB and light side

Name: Andrea Andreani

Date: 2025-01-14

Signature:

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Andrea Andreani
3.4 Activity code	MC Mechanical Completion	Date	2025-01-14
3.5 Action by	RM_CONSTR RM	Signature	

4 - PERFORMED ACTION

Name:

Date:

Signature:

5 - CLEARANCE CHECK

Done

Name: Gabriele Bertuccelli

Date: 2025-01-24

Signature:

6- CLEARANCE APPROVAL

Name:

Date:

Signature:

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30002769

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10001337	1.4 Discipline	ATEX
1.2 Item	ELF-200N1-02-L1-01	NORMAL LIGHT	
1.3 Subsystem	83-40	Normal Lighting Upper Deck	

2 - OBSERVATION

nylon sheet is missing under the supports

Name: Andrea Andreani

Date: 2025-01-14

Signature:

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Andrea Andreani
3.4 Activity code	MC Mechanical Completion	Date	2025-01-14
3.5 Action by	RM_CONSTR RM	Signature	

4 - PERFORMED ACTION

Name:

Date:

Signature:

5 - CLEARANCE CHECK

DONE

Name: Andrea Andreani

Date: 2025-01-31

Signature:

6- CLEARANCE APPROVAL

Name:

Date:

Signature:

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30002770

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10001337	1.4 Discipline	ATEX
1.2 Item	ELF-200N1-02-L1-01	NORMAL LIGHT	
1.3 Subsystem	83-40	Normal Lighting Upper Deck	

2 - OBSERVATION

missing all lock nuts for stopped the lamp

Name: Andrea Andreani

Date: 2025-01-14

Signature:

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Andrea Andreani
3.4 Activity code	MC Mechanical Completion	Date	2025-01-14
3.5 Action by	RM_CONSTR RM	Signature	

4 - PERFORMED ACTION

Name:

Date:

Signature:

5 - CLEARANCE CHECK

Point not applicable

Name: Luca Mussi

Date: 2025-01-17

Signature:

6- CLEARANCE APPROVAL

Name:

Date:

Signature:

ROSETTI MARINO CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30002771

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10001337	1.4 Discipline	ATEX
1.2 Item	ELF-200N1-02-L1-01	NORMAL LIGHT	
1.3 Subsystem	83-40	Normal Lighting Upper Deck	

2 - OBSERVATION

missing earthing connection

Name: Andrea Andreani

Date: 2025-01-14

Signature:

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Andrea Andreani
3.4 Activity code	MC Mechanical Completion	Date	2025-01-14
3.5 Action by	RM_CONSTR RM	Signature	

4 - PERFORMED ACTION

Name:

Date:

Signature:

5 - CLEARANCE CHECK

DONE

Name: Andrea Andreani

Date: 2025-01-30

Signature:

6- CLEARANCE APPROVAL

Name:

Date:

Signature:

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30002772

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10001337	1.4 Discipline	ATEX
1.2 Item	ELF-200N1-02-L1-01	NORMAL LIGHT	
1.3 Subsystem	83-40	Normal Lighting Upper Deck	

2 - OBSERVATION

Trafolite tag is missing

Name: Andrea Andreani

Date: 2025-01-14

Signature:

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Andrea Andreani
3.4 Activity code	MC Mechanical Completion	Date	2025-01-14
3.5 Action by	RM_CONSTR RM	Signature	

4 - PERFORMED ACTION

Name:

Date:

Signature:

5 - CLEARANCE CHECK

DONE

Name: Andrea Andreani

Date: 2025-01-30

Signature:

6- CLEARANCE APPROVAL

Name:

Date:

Signature:

ROSETTI MARINO CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30002774

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10000671	1.4 Discipline	Electrical
1.2 Item	P-ELF-200N1-02-L1-05	Normal Lighting JB / Normal Lighting Fixture	
1.3 Subsystem	83-40	Normal Lighting Upper Deck	

2 - OBSERVATION

missing SS cable tag on both JB and light side

Name: Andrea Andreani

Date: 2025-01-14

Signature:

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Andrea Andreani
3.4 Activity code	MC Mechanical Completion	Date	2025-01-14
3.5 Action by	RM_CONSTR RM	Signature	

4 - PERFORMED ACTION

Name:

Date:

Signature:

5 - CLEARANCE CHECK

Done

Name: Gabriele Bertuccelli

Date: 2025-01-24

Signature:

6- CLEARANCE APPROVAL

Name:

Date:

Signature:

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30002775

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10001665	1.4 Discipline	ATEX
1.2 Item	ELF-200N1-02-L1-05	NORMAL LIGHT	
1.3 Subsystem	83-40	Normal Lighting Upper Deck	

2 - OBSERVATION

The support is not well secured against vibration. another support needs to be added

Name: Andrea Andreani

Date: 2025-01-14

Signature:

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Andrea Andreani
3.4 Activity code	MC Mechanical Completion	Date	2025-01-14
3.5 Action by	RM_CONSTR RM	Signature	

4 - PERFORMED ACTION

Name:

Date:

Signature:

5 - CLEARANCE CHECK

Installation carried out as per typical 123A90-DDL-EL-DD-20091 and 123A90-DDL-IN-DD-40017 drawing. Eng states that no additional support is needed.

Name: Giovanni Tangianu

Date: 2025-03-07

Signature:

6- CLEARANCE APPROVAL

Name:

Date:

Signature:

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30002776

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10001665	1.4 Discipline	ATEX
1.2 Item	ELF-200N1-02-L1-05	NORMAL LIGHT	
1.3 Subsystem	83-40	Normal Lighting Upper Deck	

2 - OBSERVATION

missing all lock nuts for stopped the lamp

Name: Andrea Andreani

Date: 2025-01-14

Signature:

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Andrea Andreani
3.4 Activity code	MC Mechanical Completion	Date	2025-01-14
3.5 Action by	RM_CONSTR RM	Signature	

4 - PERFORMED ACTION

Name:

Date:

Signature:

5 - CLEARANCE CHECK

Point not applicable

Name: Luca Mussi

Date: 2025-01-17

Signature:

6- CLEARANCE APPROVAL

Name:

Date:

Signature:

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30002865

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10000668	1.4 Discipline	Electrical
1.2 Item	P-ELF-200N1-02-L1-07	Normal Lighting Fixture / Normal Lighting Fixture	
1.3 Subsystem	83-40	Normal Lighting Upper Deck	

2 - OBSERVATION

missing SS cable tag on both light (ELF-200N1-02-L1-06 & ELF-200N1-02-L1-07) side

Name: Andrea Andreani

Date: 2025-01-15

Signature:

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Andrea Andreani
3.4 Activity code	MC Mechanical Completion	Date	2025-01-15
3.5 Action by	RM_CONSTR RM	Signature	

4 - PERFORMED ACTION

Name:

Date:

Signature:

5 - CLEARANCE CHECK

Done

Name: Gabriele Bertuccelli

Date: 2025-01-24

Signature:

6- CLEARANCE APPROVAL

Name:

Date:

Signature:

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30002868

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10000668	1.4 Discipline	Electrical
1.2 Item	P-ELF-200N1-02-L1-07	Normal Lighting Fixture / Normal Lighting Fixture	
1.3 Subsystem	83-40	Normal Lighting Upper Deck	

2 - OBSERVATION

cable is not supported outside cable tray ELF-200N1-02-L1-07 side

Name: Andrea Andreani

Date: 2025-01-15

Signature:

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Andrea Andreani
3.4 Activity code	MC Mechanical Completion	Date	2025-01-15
3.5 Action by	RM_CONSTR RM	Signature	

4 - PERFORMED ACTION

Name:

Date:

Signature:

5 - CLEARANCE CHECK

INSTALLED.

Name: Giovanni Tangianu

Date: 2025-01-25

Signature:

6- CLEARANCE APPROVAL

Name:

Date:

Signature:

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30002869

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10001663	1.4 Discipline	ATEX
1.2 Item	ELF-200N1-02-L1-07	NORMAL LIGHT	
1.3 Subsystem	83-40	Normal Lighting Upper Deck	

2 - OBSERVATION

Missing piece of black PVC between side caps and glass

Name: Andrea Andreani

Date: 2025-01-15

Signature:

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Andrea Andreani
3.4 Activity code	MC Mechanical Completion	Date	2025-01-15
3.5 Action by	RM_CONSTR RM	Signature	

4 - PERFORMED ACTION

Name:

Date:

Signature:

5 - CLEARANCE CHECK

Point not applicable

Name: Luca Mussi

Date: 2025-01-17

Signature:

6- CLEARANCE APPROVAL

Name:

Date:

Signature:

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30002127

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10000703	1.4 Discipline	Electrical
1.2 Item	P-EJB-200N1-02-L1-19	Normal Lighting JB / Normal Lighting JB	
1.3 Subsystem	83-40	Normal Lighting Upper Deck	

2 - OBSERVATION

cable glands are installed without serrated washer on both JBs side

Name: Andrea Andreani

Date: 2024-12-24

Signature:

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	A PL A	Name	Andrea Andreani
3.4 Activity code	MC Mechanical Completion	Date	2024-12-24
3.5 Action by	RM_CONSTR RM	Signature	

4 - PERFORMED ACTION

Name:

Date:

Signature:

5 - CLEARANCE CHECK

Done.

Name: Giovanni Tangianu

Date: 2025-01-13

Signature:

6- CLEARANCE APPROVAL

Name:

Date:

Signature:

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30002128

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10000703	1.4 Discipline	Electrical
1.2 Item	P-EJB-200N1-02-L1-19	Normal Lighting JB / Normal Lighting JB	
1.3 Subsystem	83-40	Normal Lighting Upper Deck	

2 - OBSERVATION

missing SS cable tag on both JBs side

Name: Andrea Andreani

Date: 2024-12-24

Signature:

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Andrea Andreani
3.4 Activity code	MC Mechanical Completion	Date	2024-12-24
3.5 Action by	RM_CONSTR RM	Signature	

4 - PERFORMED ACTION

Name:

Date:

Signature:

5 - CLEARANCE CHECK

Done

Name: Gabriele Bertuccelli

Date: 2025-01-24

Signature:

6- CLEARANCE APPROVAL

Name:

Date:

Signature:

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30002129

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10000703	1.4 Discipline	Electrical
1.2 Item	P-EJB-200N1-02-L1-19	Normal Lighting JB / Normal Lighting JB	
1.3 Subsystem	83-40	Normal Lighting Upper Deck	

2 - OBSERVATION

Core tag is missing for cable on both JBs side

Name: Andrea Andreani

Date: 2024-12-24

Signature:

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Andrea Andreani
3.4 Activity code	MC Mechanical Completion	Date	2024-12-24
3.5 Action by	RM_CONSTR RM	Signature	

4 - PERFORMED ACTION

Name:

Date:

Signature:

5 - CLEARANCE CHECK

DONE

Name: Andrea Andreani

Date: 2025-02-05

Signature:

6- CLEARANCE APPROVAL

Name:

Date:

Signature:

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30002191

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10000699	1.4 Discipline	Electrical
1.2 Item	P-EJB-200N1-02-L1-17	Normal Lighting JB / Normal Lighting JB	
1.3 Subsystem	83-40	Normal Lighting Upper Deck	

2 - OBSERVATION

SS cable tag is missing on both JB (EJB-200N1-02-L1-17 & EJB-200N1-02-L1-18) sides.

Name: Luca Mussi

Date: 2024-12-28

Signature:

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Luca Mussi
3.4 Activity code	MC Mechanical Completion	Date	2024-12-28
3.5 Action by	RM_CONSTR RM	Signature	

4 - PERFORMED ACTION

Name:

Date:

Signature:

5 - CLEARANCE CHECK

Done

Name: Gabriele Bertuccelli

Date: 2025-01-24

Signature:

6- CLEARANCE APPROVAL

Name:

Date:

Signature:

AEI ELECTRIC CABLE - 1000V 3G4 SQMM - MGT
IEC 60332-1-2
F-ESB-200N1-02-11-24
F-ESB-200N1-02-11-24

ROSETTI MARINO CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30002192

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10000699	1.4 Discipline	Electrical
1.2 Item	P-EJB-200N1-02-L1-17	Normal Lighting JB / Normal Lighting JB	
1.3 Subsystem	83-40	Normal Lighting Upper Deck	

2 - OBSERVATION

Inside the JB (EJB-200N1-02-L1-17 & EJB-200N1-02-L1-18) the inner sheath of the cable does not properly exit from the cable gland.See attached photo.

Name: Luca Mussi

Date: 2024-12-28

Signature:

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	A PL A	Name	Luca Mussi
3.4 Activity code	MC Mechanical Completion	Date	2024-12-28
3.5 Action by	RM_CONSTR RM	Signature	

4 - PERFORMED ACTION

Name:

Date:

Signature:

5 - CLEARANCE CHECK

DONE

Name: Andrea Andreani

Date: 2025-01-20

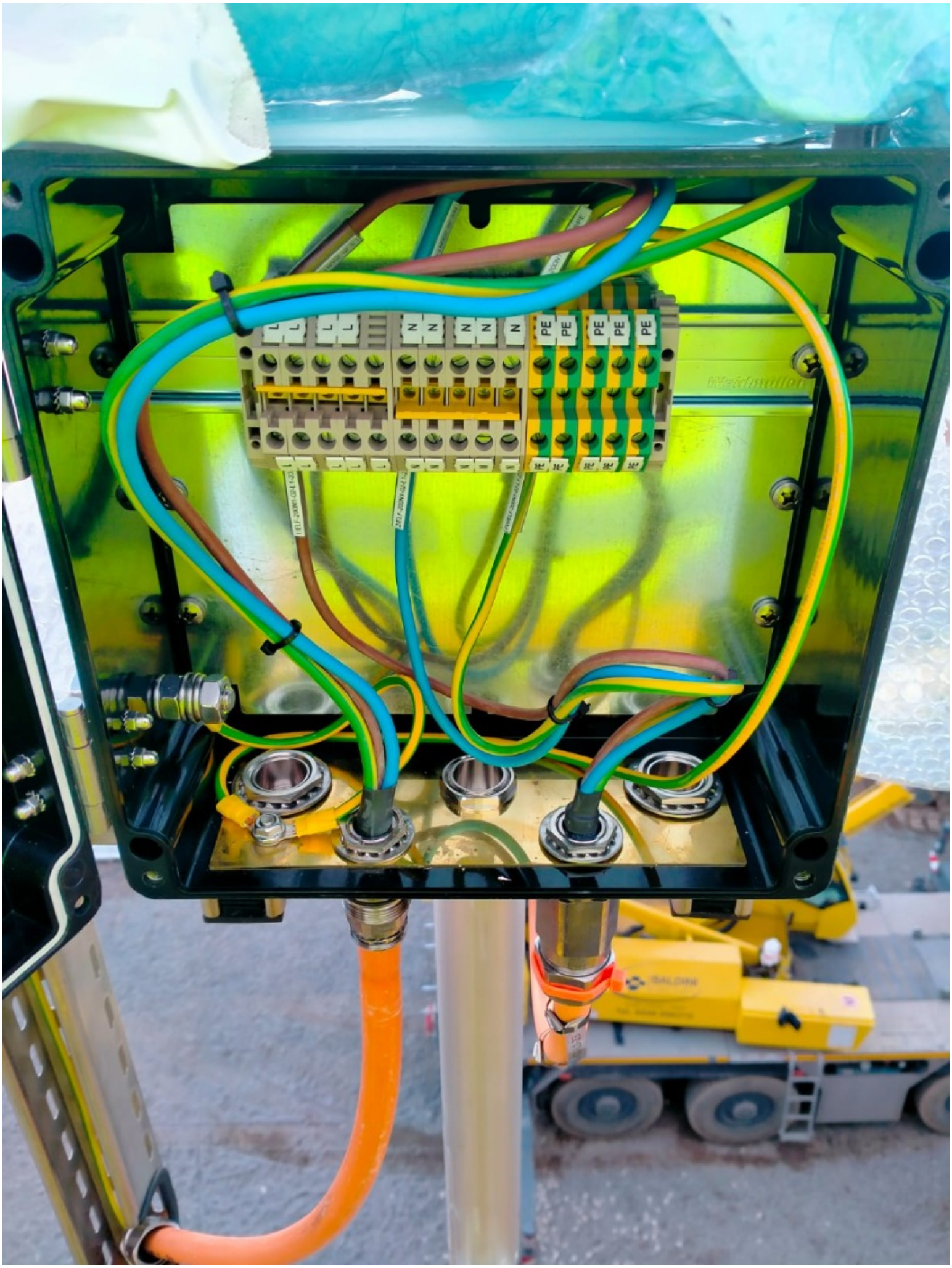
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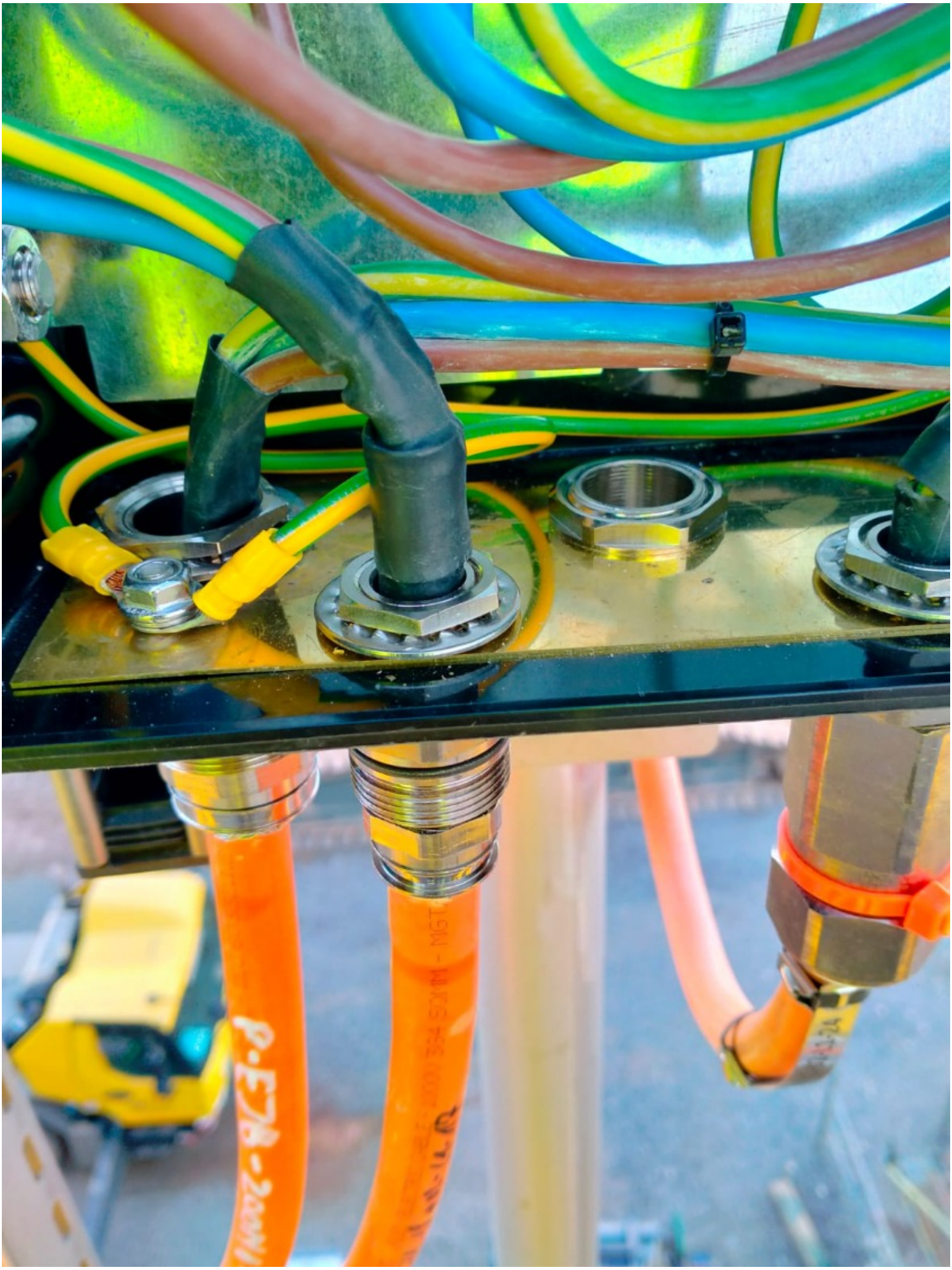
6- CLEARANCE APPROVAL

Name:

Date:

Signature:


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Weidmüller



ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30002193

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10000699	1.4 Discipline	Electrical
1.2 Item	P-EJB-200N1-02-L1-17	Normal Lighting JB / Normal Lighting JB	
1.3 Subsystem	83-40	Normal Lighting Upper Deck	

2 - OBSERVATION

Not enought threads are thightened between the lock nut and the cable gland body.

Name: Luca Mussi
Date: 2024-12-28
Signature:

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	A PL A	Name	Luca Mussi
3.4 Activity code	MC Mechanical Completion	Date	2024-12-28
3.5 Action by	RM_CONSTR RM	Signature	

4 - PERFORMED ACTION

Name:
Date:
Signature:

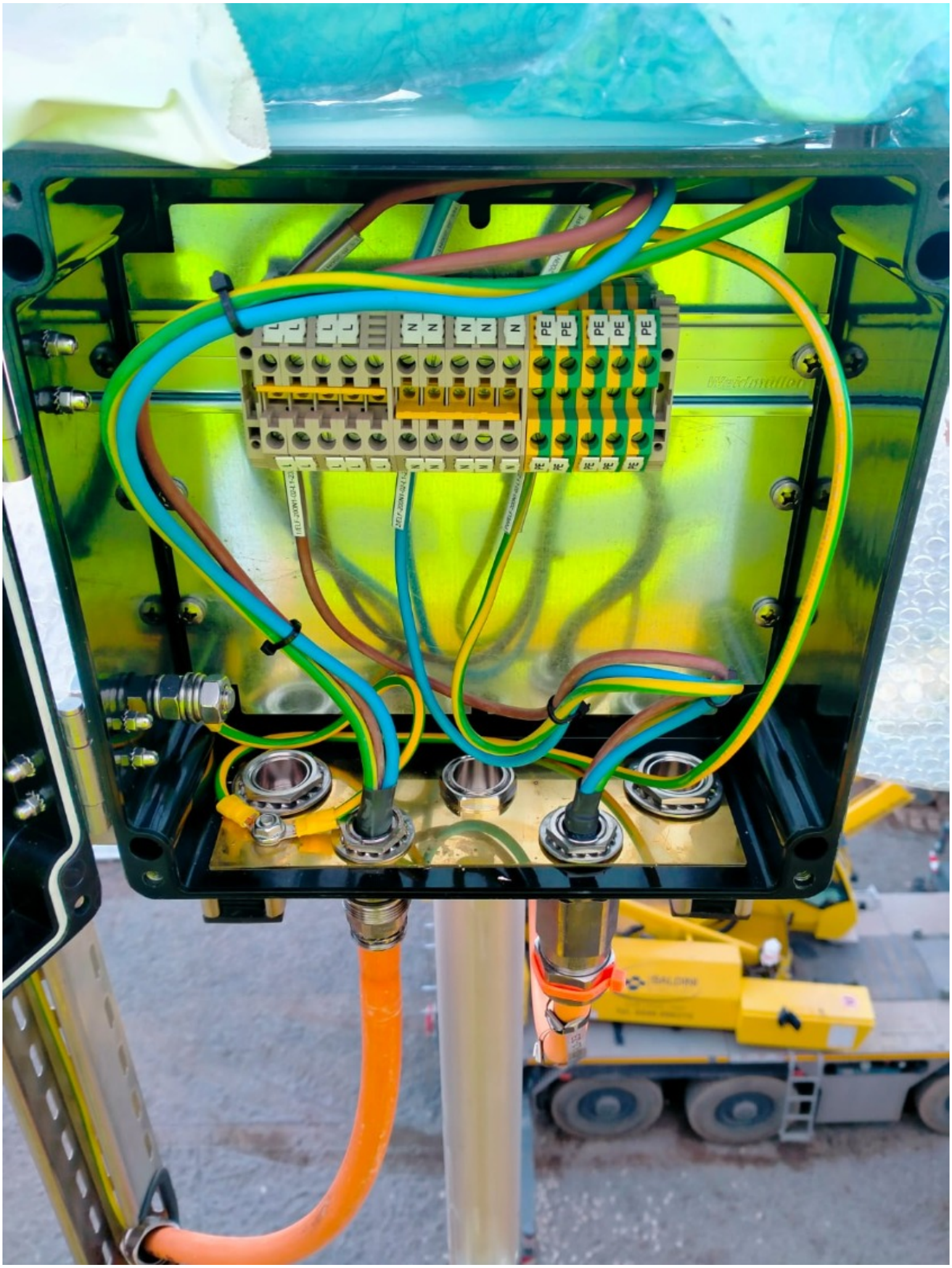
5 - CLEARANCE CHECK

Done.

Name: Giovanni Tangianu
Date: 2025-01-13
Signature:

6- CLEARANCE APPROVAL

Name:
Date:
Signature:


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N
PE
Weidmüller

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30002194

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10000699	1.4 Discipline	Electrical
1.2 Item	P-EJB-200N1-02-L1-17	Normal Lighting JB / Normal Lighting JB	
1.3 Subsystem	83-40	Normal Lighting Upper Deck	

2 - OBSERVATION

Ferrules to be replaced on EJB-200N1-02-L1-17 side.

Name: Luca Mussi

Date: 2024-12-28

Signature:

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	A PL A	Name	Luca Mussi
3.4 Activity code	MC Mechanical Completion	Date	2024-12-28
3.5 Action by	RM_CONSTR RM	Signature	

4 - PERFORMED ACTION

Name:

Date:

Signature:

5 - CLEARANCE CHECK

Done.

Name: Giovanni Tangianu

Date: 2025-01-13

Signature:

6- CLEARANCE APPROVAL

Name:

Date:

Signature:

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30002201

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10000701	1.4 Discipline	Electrical
1.2 Item	P-EJB-200N1-02-L1-18	Normal Lighting JB / Normal Lighting JB	
1.3 Subsystem	83-40	Normal Lighting Upper Deck	

2 - OBSERVATION

SS cable tag is missing on both JBs sides (EJB-200N1-02-L1-18 & P-EJB-200N1-02-L1-19).

Name: Luca Mussi

Date: 2024-12-28

Signature:

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Luca Mussi
3.4 Activity code	MC Mechanical Completion	Date	2024-12-28
3.5 Action by	RM_CONSTR RM	Signature	

4 - PERFORMED ACTION

Name:

Date:

Signature:

5 - CLEARANCE CHECK

Done

Name: Gabriele Bertuccelli

Date: 2025-01-24

Signature:

6- CLEARANCE APPROVAL

Name:

Date:

Signature:


P-230-ZONE1-02-17



ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30002202

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10000701	1.4 Discipline	Electrical
1.2 Item	P-EJB-200N1-02-L1-18	Normal Lighting JB / Normal Lighting JB	
1.3 Subsystem	83-40	Normal Lighting Upper Deck	

2 - OBSERVATION

On both JBs sides (EJB-200N1-02-L1-18 & EJB-200N1-02-L1-19) the inner sheath of the cable does not properly exit from the cable gland.See attached photo.

Name: Luca Mussi
Date: 2024-12-28
Signature:

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	A PL A	Name	Luca Mussi
3.4 Activity code	MC Mechanical Completion	Date	2024-12-28
3.5 Action by	RM_CONSTR RM	Signature	

4 - PERFORMED ACTION

Name:
Date:
Signature:

5 - CLEARANCE CHECK

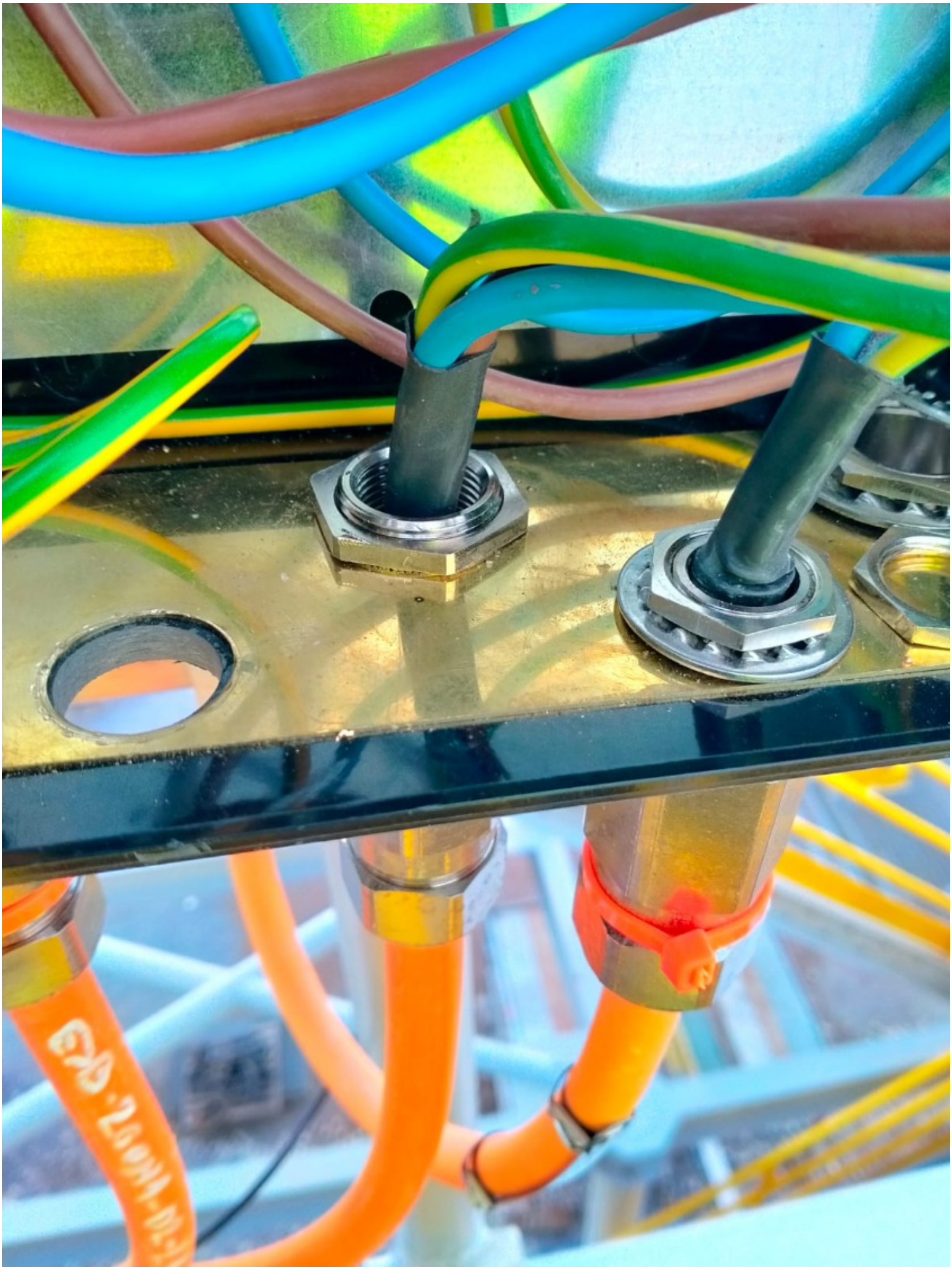
Done.

Name: Giovanni Tangianu
Date: 2025-01-13
Signature:

6- CLEARANCE APPROVAL

Name:
Date:
Signature:





ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30002203

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10000701	1.4 Discipline	Electrical
1.2 Item	P-EJB-200N1-02-L1-18	Normal Lighting JB / Normal Lighting JB	
1.3 Subsystem	83-40	Normal Lighting Upper Deck	

2 - OBSERVATION

On both JBs sides (EJB-200N1-02-L1-18 & EJB-200N1-02-L1-19) core identification tags are missing for all wires.

Name: Luca Mussi
Date: 2024-12-28
Signature:

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Luca Mussi
3.4 Activity code	MC Mechanical Completion	Date	2024-12-28
3.5 Action by	RM_CONSTR RM	Signature	

4 - PERFORMED ACTION

Name:
Date:
Signature:

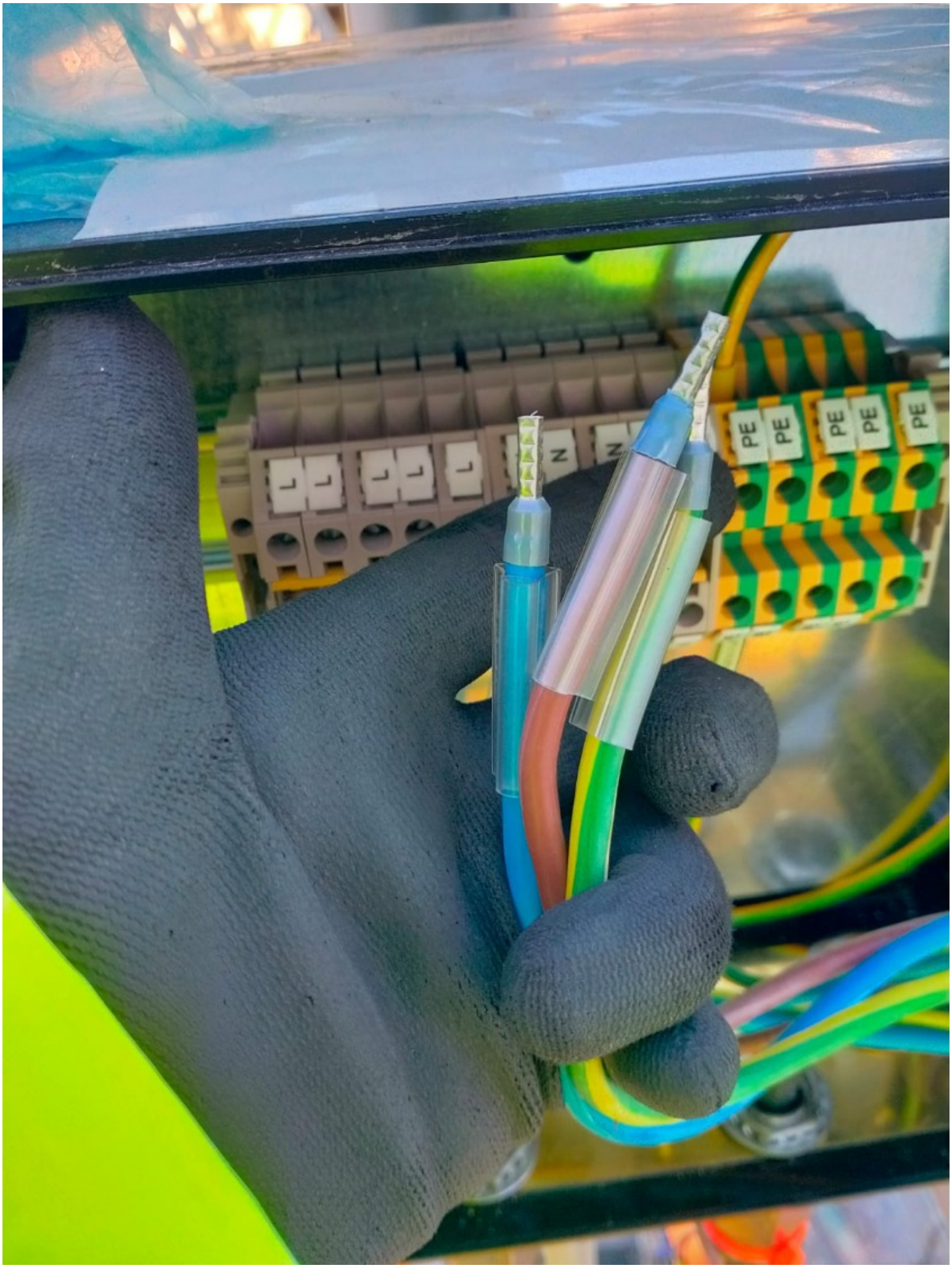
5 - CLEARANCE CHECK

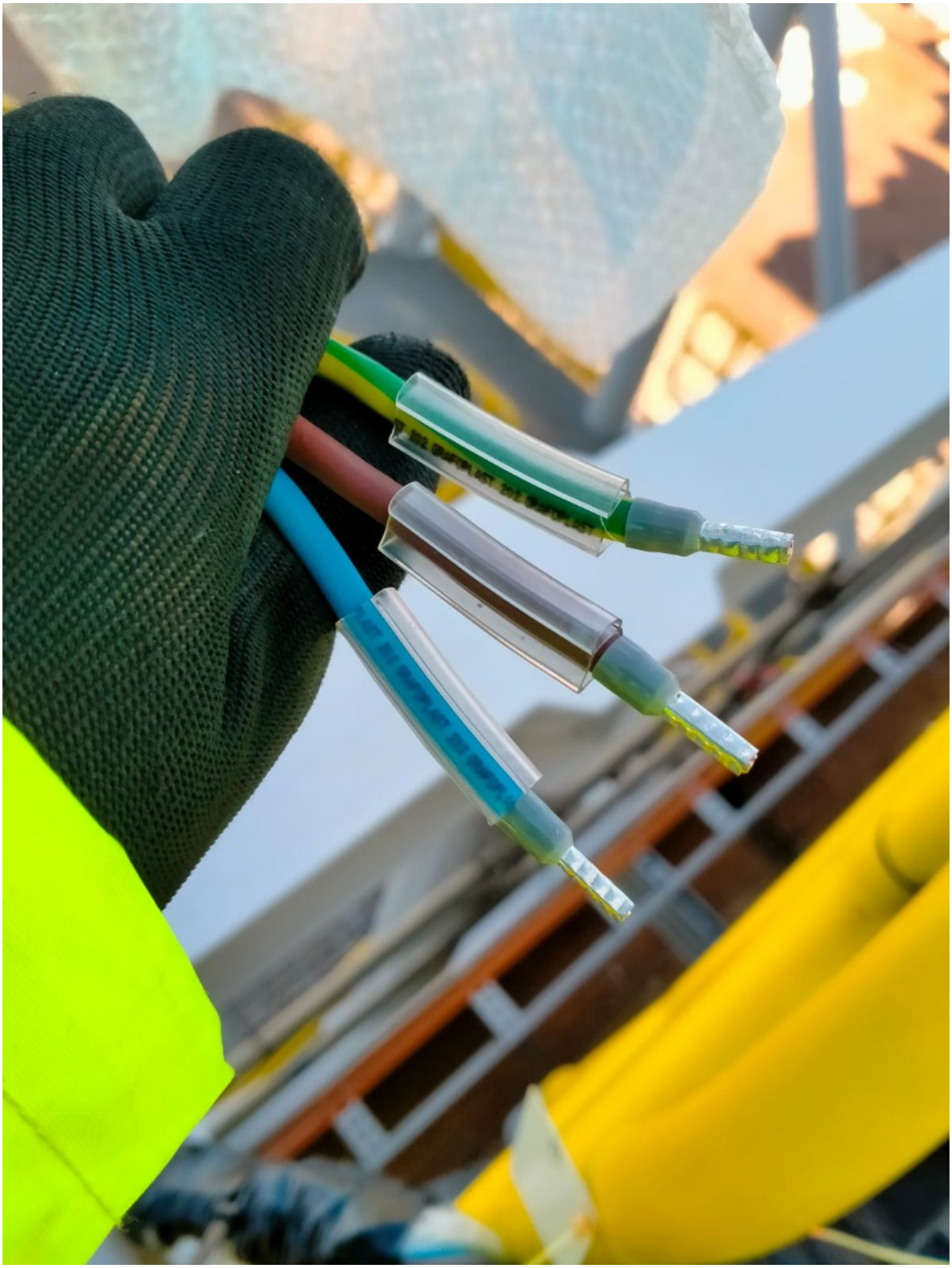
DONE

Name: Andrea Andreani
Date: 2025-02-05
Signature:

6- CLEARANCE APPROVAL

Name:
Date:
Signature:


PE
PE
PE
PE
PE



ROSETTI MARINO CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30002205

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10000701	1.4 Discipline	Electrical
1.2 Item	P-EJB-200N1-02-L1-18	Normal Lighting JB / Normal Lighting JB	
1.3 Subsystem	83-40	Normal Lighting Upper Deck	

2 - OBSERVATION

Not enought threads are thightened between the lock nut and the cable gland body.

Name: Luca Mussi

Date: 2024-12-28

Signature:

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	A PL A	Name	Luca Mussi
3.4 Activity code	MC Mechanical Completion	Date	2024-12-28
3.5 Action by	RM_CONSTR RM	Signature	

4 - PERFORMED ACTION

Name:

Date:

Signature:

5 - CLEARANCE CHECK

Done.

Name: Giovanni Tangianu

Date: 2025-01-13

Signature:

6- CLEARANCE APPROVAL

Name:

Date:

Signature:





ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30002207

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10000687	1.4 Discipline	Electrical
1.2 Item	P-EJB-200N1-02-L1-11	Normal Lighting JB / Normal Lighting JB	
1.3 Subsystem	83-40	Normal Lighting Upper Deck	

2 - OBSERVATION

On both JBs sides (EJB-200N1-02-L1-11 & EJB-200N1-02-L1-12) SS cable tag is missing.

Name: Luca Mussi

Date: 2024-12-28

Signature:

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Luca Mussi
3.4 Activity code	MC Mechanical Completion	Date	2024-12-28
3.5 Action by	RM_CONSTR RM	Signature	

4 - PERFORMED ACTION

Name:

Date:

Signature:

5 - CLEARANCE CHECK

Done

Name: Gabriele Bertuccelli

Date: 2025-01-24

Signature:

6- CLEARANCE APPROVAL

Name:

Date:

Signature:

TEC 101
Device

CORTEC 101
VpCI Device

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30002208

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10000687	1.4 Discipline	Electrical
1.2 Item	P-EJB-200N1-02-L1-11	Normal Lighting JB / Normal Lighting JB	
1.3 Subsystem	83-40	Normal Lighting Upper Deck	

2 - OBSERVATION

Not enought threads are thightened between the lock nut and the cable gland body.

Name: Luca Mussi
Date: 2024-12-28
Signature:

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	A PL A	Name	Luca Mussi
3.4 Activity code	MC Mechanical Completion	Date	2024-12-28
3.5 Action by	RM_CONSTR RM	Signature	

4 - PERFORMED ACTION

Name
Date
Signature

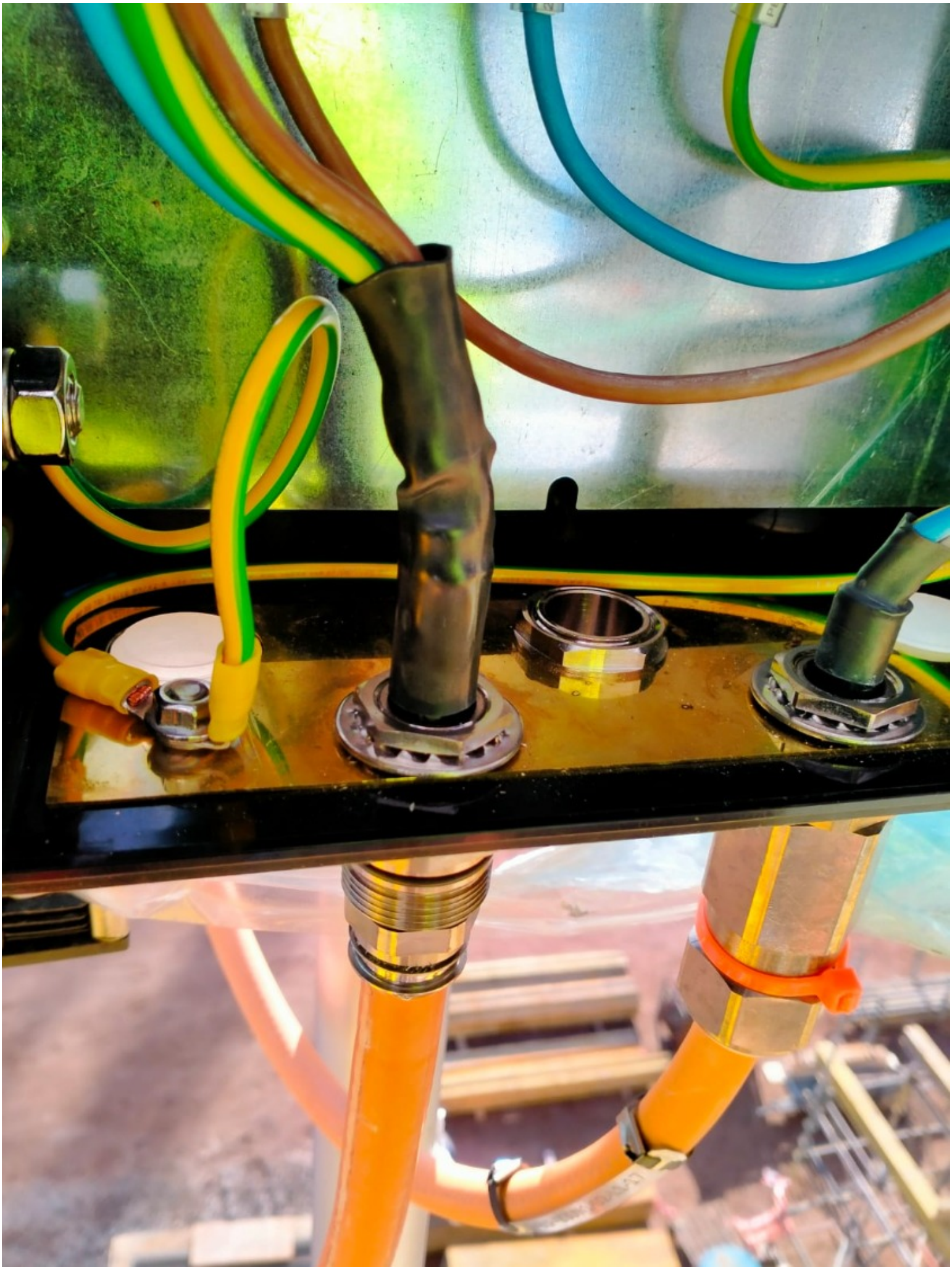
5 - CLEARANCE CHECK

DONE

Name: Andrea Andreani
Date: 2025-01-20
Signature:

6- CLEARANCE APPROVAL

Name
Date
Signature



ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30002209

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10000689	1.4 Discipline	Electrical
1.2 Item	P-EJB-200N1-02-L1-12	Normal Lighting JB / Normal Lighting JB	
1.3 Subsystem	83-40	Normal Lighting Upper Deck	

2 - OBSERVATION

On both JBs sides (EJB-200N1-02-L1-13 & EJB-200N1-02-L1-13) SS cable tag is missing.

Name: Luca Mussi
Date: 2024-12-28
Signature:

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Luca Mussi
3.4 Activity code	MC Mechanical Completion	Date	2024-12-28
3.5 Action by	RM_CONSTR RM	Signature	

4 - PERFORMED ACTION

Name:
Date:
Signature:

5 - CLEARANCE CHECK

Done

Name: Gabriele Bertuccelli
Date: 2025-01-24
Signature:

6- CLEARANCE APPROVAL

Name:
Date:
Signature:


EJB-200N1-02-L
EJB-200N1-02-L1-14
EJB-200N1-02-L1-13

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30002210

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10000689	1.4 Discipline	Electrical
1.2 Item	P-EJB-200N1-02-L1-12	Normal Lighting JB / Normal Lighting JB	
1.3 Subsystem	83-40	Normal Lighting Upper Deck	

2 - OBSERVATION

Not enought threads are thightened between the lock nut and the cable gland body.

Name: Luca Mussi

Date: 2024-12-28

Signature:

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	A PL A	Name	Luca Mussi
3.4 Activity code	MC Mechanical Completion	Date	2024-12-28
3.5 Action by	RM_CONSTR RM	Signature	

4 - PERFORMED ACTION

Name:

Date:

Signature:

5 - CLEARANCE CHECK

DONE

Name: Andrea Andreani

Date: 2025-01-20

Signature:

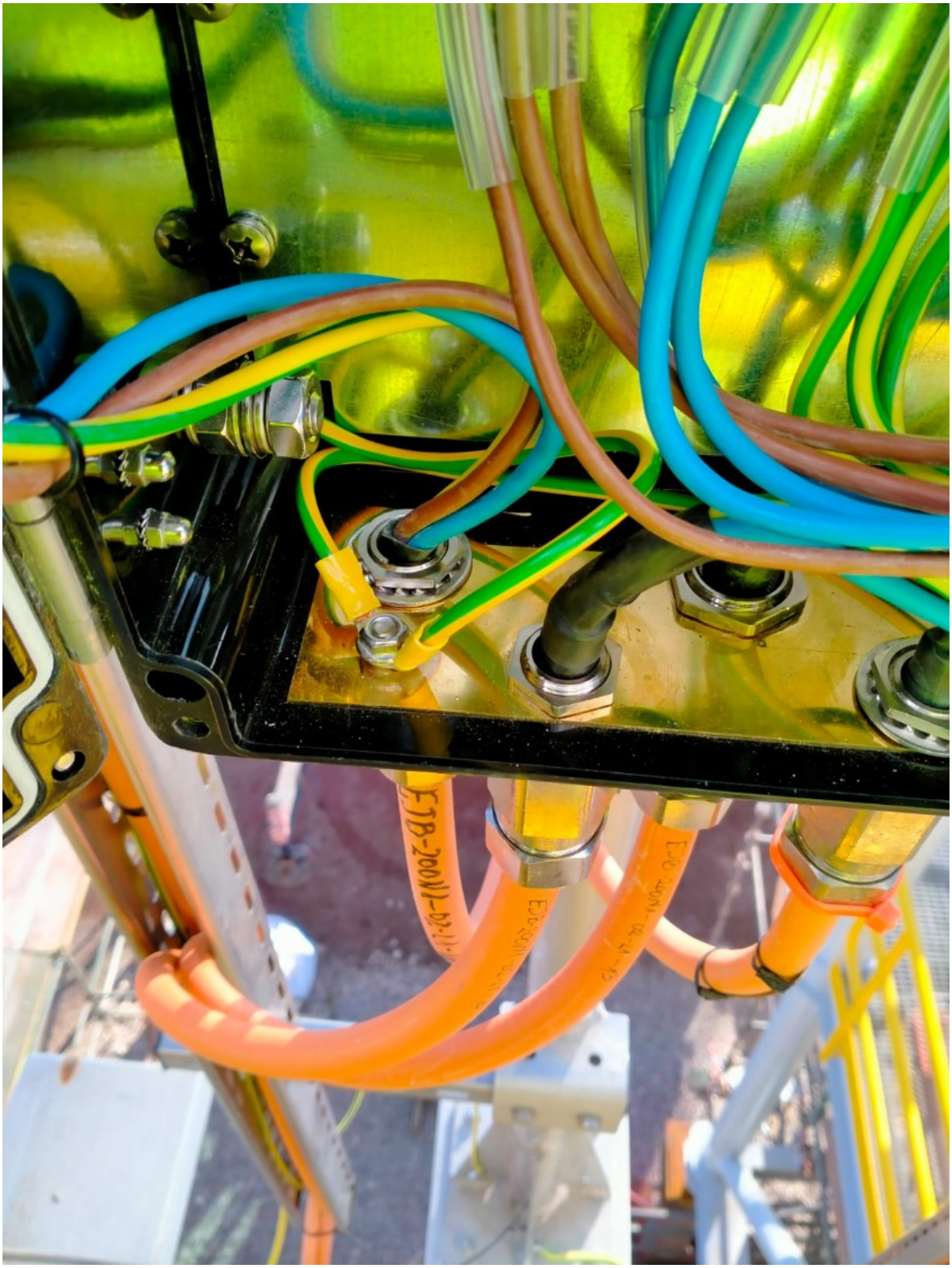
6- CLEARANCE APPROVAL

Name:

Date:

Signature:


EJB-200N1-02-L
EJB-200N1-02-L1-14
EJB-200N1-02-L1-13



ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30002211

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10000689	1.4 Discipline	Electrical
1.2 Item	P-EJB-200N1-02-L1-12	Normal Lighting JB / Normal Lighting JB	
1.3 Subsystem	83-40	Normal Lighting Upper Deck	

2 - OBSERVATION

On EJB-200N1-02-L1-12 side the inner sheath of the cable does not properly exit from the cable gland.See attached photo.

Name: Luca Mussi
Date: 2024-12-28
Signature:

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	A PL A	Name	Luca Mussi
3.4 Activity code	MC Mechanical Completion	Date	2024-12-28
3.5 Action by	RM_CONSTR RM	Signature	

4 - PERFORMED ACTION

Name:
Date:
Signature:

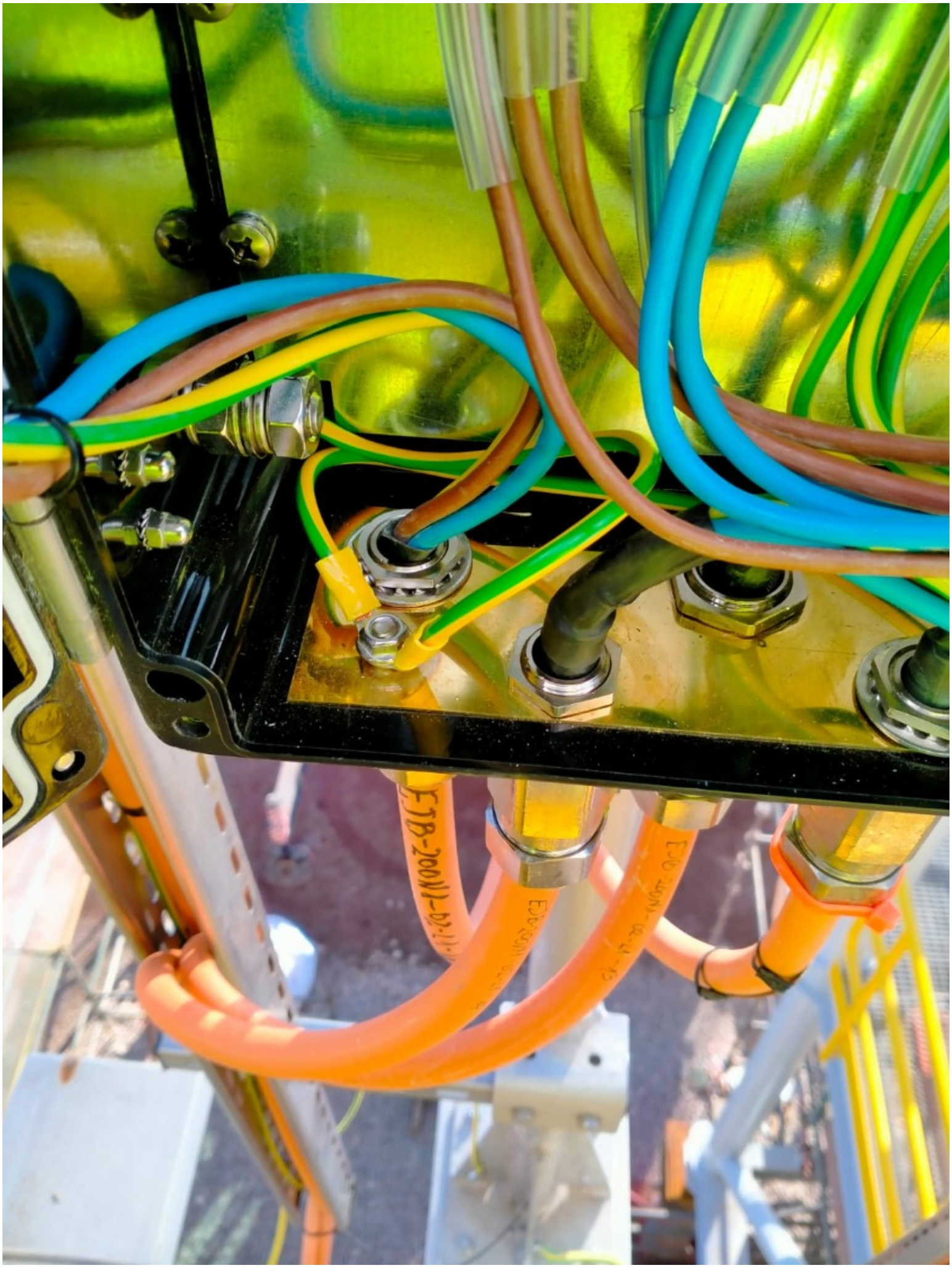
5 - CLEARANCE CHECK

DONE

Name: Andrea Andreani
Date: 2025-01-20
Signature:

6- CLEARANCE APPROVAL

Name:
Date:
Signature:



ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30002212

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10000689	1.4 Discipline	Electrical
1.2 Item	P-EJB-200N1-02-L1-12	Normal Lighting JB / Normal Lighting JB	
1.3 Subsystem	83-40	Normal Lighting Upper Deck	

2 - OBSERVATION

On both JBs side, core identification tags are missing for all wires.

Name: Luca Mussi

Date: 2024-12-28

Signature:

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Luca Mussi
3.4 Activity code	MC Mechanical Completion	Date	2024-12-28
3.5 Action by	RM_CONSTR RM	Signature	

4 - PERFORMED ACTION

Name:

Date:

Signature:

5 - CLEARANCE CHECK

DONE

Name: Andrea Andreani

Date: 2025-02-05

Signature:

6- CLEARANCE APPROVAL

Name:

Date:

Signature:



ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30002213

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10000689	1.4 Discipline	Electrical
1.2 Item	P-EJB-200N1-02-L1-12	Normal Lighting JB / Normal Lighting JB	
1.3 Subsystem	83-40	Normal Lighting Upper Deck	

2 - OBSERVATION

On both JBs sides (EJB-200N1-02-L1-12 & EJB-200N1-02-L1-13), ferrules to be replaced.

Name: Luca Mussi

Date: 2024-12-28

Signature:

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	A PL A	Name	Luca Mussi
3.4 Activity code	MC Mechanical Completion	Date	2024-12-28
3.5 Action by	RM_CONSTR RM	Signature	

4 - PERFORMED ACTION

Name:

Date:

Signature:

5 - CLEARANCE CHECK

DONE

Name: Andrea Andreani

Date: 2025-01-20

Signature:

6- CLEARANCE APPROVAL

Name:

Date:

Signature:


EC 101
Device

ROSETTI MARINO CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30002215

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10000691	1.4 Discipline	Electrical
1.2 Item	P-EJB-200N1-02-L1-13	Normal Lighting JB / Normal Lighting JB	
1.3 Subsystem	83-40	Normal Lighting Upper Deck	

2 - OBSERVATION

On both JBs sides (EJB-200N1-02-L1-13 & EJB-200N1-02-L1-03) SS cable tags are missing.

Name: Luca Mussi

Date: 2024-12-30

Signature:

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Luca Mussi
3.4 Activity code	MC Mechanical Completion	Date	2024-12-30
3.5 Action by	RM_CONSTR RM	Signature	

4 - PERFORMED ACTION

Name:

Date:

Signature:

5 - CLEARANCE CHECK

Done

Name: Gabriele Bertuccelli

Date: 2025-01-24

Signature:

6- CLEARANCE APPROVAL

Name:

Date:

Signature:

EJB-200N1-02-L1-14
EJB-200N1-02-L1-13


P-EJB-2001-11-02
P-EJB-2001-11-03

ROSETTI MARINO CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30002216

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10000691	1.4 Discipline	Electrical
1.2 Item	P-EJB-200N1-02-L1-13	Normal Lighting JB / Normal Lighting JB	
1.3 Subsystem	83-40	Normal Lighting Upper Deck	

2 - OBSERVATION

On JB: EJB-200N1-02-L1-13 side the inner sheath of the cable does not properly exit from the cable gland.See attached photo.

Name: Luca Mussi

Date: 2024-12-30

Signature:

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	A PL A	Name	Luca Mussi
3.4 Activity code	MC Mechanical Completion	Date	2024-12-30
3.5 Action by	RM_CONSTR RM	Signature	

4 - PERFORMED ACTION

Name:

Date:

Signature:

5 - CLEARANCE CHECK

DONE

Name: Andrea Andreani

Date: 2025-01-20

Signature:

6- CLEARANCE APPROVAL

Name:

Date:

Signature:

EJ0-200N1-02-L1-13
EJ0-200N1-02-L1-14
EJ0-200N1-02-L1-12

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30002217

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10000691	1.4 Discipline	Electrical
1.2 Item	P-EJB-200N1-02-L1-13	Normal Lighting JB / Normal Lighting JB	
1.3 Subsystem	83-40	Normal Lighting Upper Deck	

2 - OBSERVATION

On both JBs (EJB-200N1-02-L1-03 & EJB-200N1-02-L1-13) sides, no adapter is needed as per cable list.

Name: Luca Mussi

Date: 2024-12-30

Signature:

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	A PL A	Name	Luca Mussi
3.4 Activity code	MC Mechanical Completion	Date	2024-12-30
3.5 Action by	RM_CONSTR RM	Signature	

4 - PERFORMED ACTION

Name:

Date:

Signature:

5 - CLEARANCE CHECK

DONE

Name: Eleonora Carotenuto

Date: 2025-01-13

Signature:

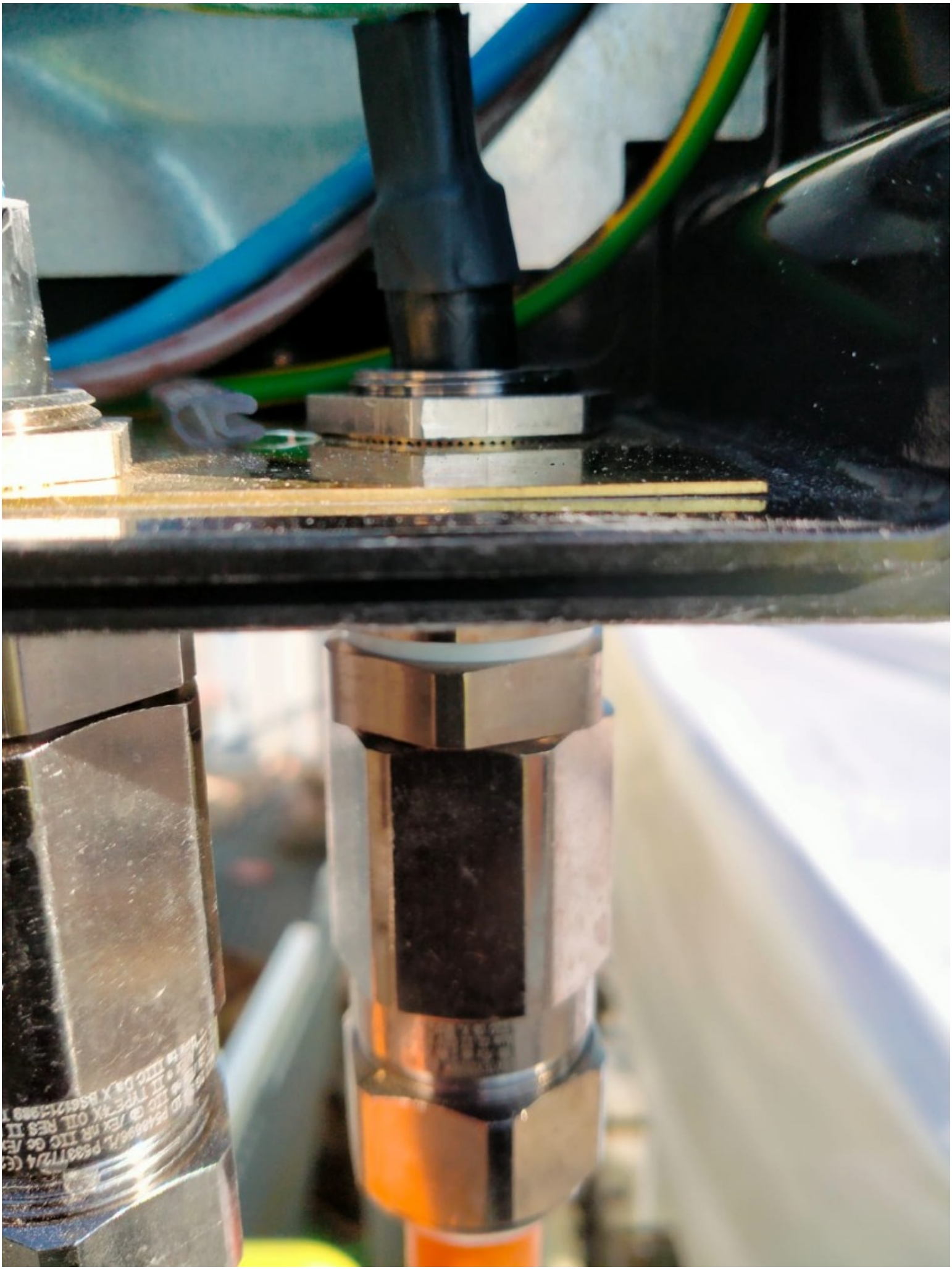
6- CLEARANCE APPROVAL

Name:

Date:

Signature:


230VAC
Max Dis. P. 6W
WARNINGS : DO NOT OPEN WHEN ENERGIZED
EJB-200N1-02-L1
EJB-200N1-02-L1



ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30002218

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10000691	1.4 Discipline	Electrical
1.2 Item	P-EJB-200N1-02-L1-13	Normal Lighting JB / Normal Lighting JB	
1.3 Subsystem	83-40	Normal Lighting Upper Deck	

2 - OBSERVATION

On both JBs sides (EJB-200N1-02-L1-03 & EJB-200N1-02-L1-13) core identification tags are missing for all wires.

Name: Luca Mussi
Date: 2024-12-30
Signature:

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Luca Mussi
3.4 Activity code	MC Mechanical Completion	Date	2024-12-30
3.5 Action by	RM_CONSTR RM	Signature	

4 - PERFORMED ACTION

Name:
Date:
Signature:

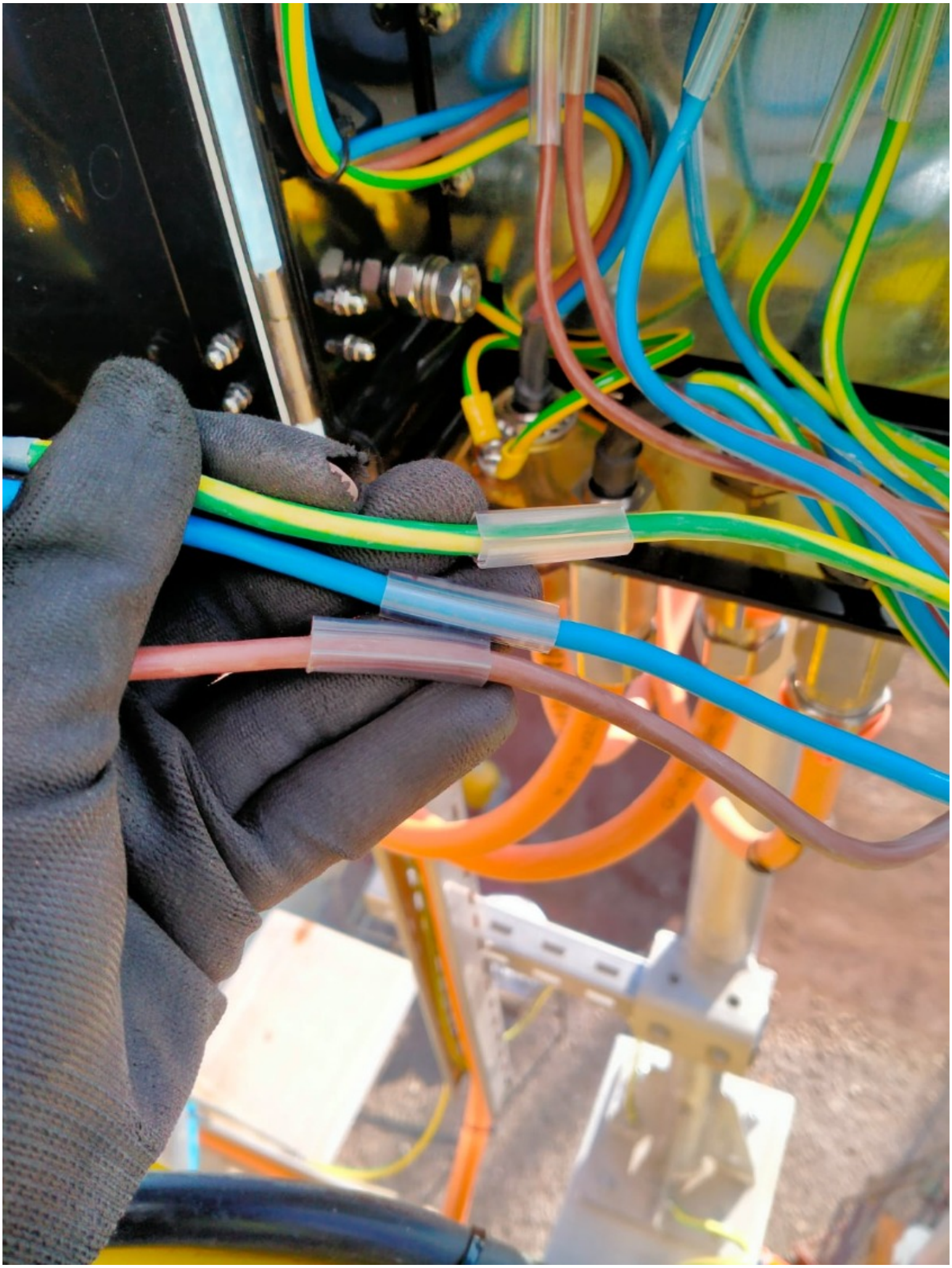
5 - CLEARANCE CHECK

DONE

Name: Andrea Andreani
Date: 2025-02-05
Signature:

6- CLEARANCE APPROVAL

Name:
Date:
Signature:





ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30002277

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10001631	1.4 Discipline	ATEX
1.2 Item	EJB-200N1-02-L1-11	JB - NORMAL LIGHTING	
1.3 Subsystem	83-40	Normal Lighting Upper Deck	

2 - OBSERVATION

Drainage valve (123A90-DDL-EL-DS-20067) is missing.

Name: Luca Mussi

Date: 2024-12-31

Signature:

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Luca Mussi
3.4 Activity code	MC Mechanical Completion	Date	2024-12-31
3.5 Action by	RM_CONSTR RM	Signature	

4 - PERFORMED ACTION

Name:

Date:

Signature:

5 - CLEARANCE CHECK

TDS is superseded by TBE and Vendor GA, drain valve not required

Name: Eleonora Carotenuto

Date: 2025-01-14

Signature:

6- CLEARANCE APPROVAL

Name:

Date:

Signature:

200N1-02-11-17

ROSETTI MARINO CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30002278

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10001631	1.4 Discipline	ATEX
1.2 Item	EJB-200N1-02-L1-11	JB - NORMAL LIGHTING	
1.3 Subsystem	83-40	Normal Lighting Upper Deck	

2 - OBSERVATION

ATEX-certified plug is missing (instead, plastic plug is present).

Name: Luca Mussi

Date: 2024-12-31

Signature:

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Luca Mussi
3.4 Activity code	MC Mechanical Completion	Date	2024-12-31
3.5 Action by	RM_CONSTR RM	Signature	

4 - PERFORMED ACTION

Name:

Date:

Signature:

5 - CLEARANCE CHECK

DONE

Name: Andrea Andreani

Date: 2025-01-30

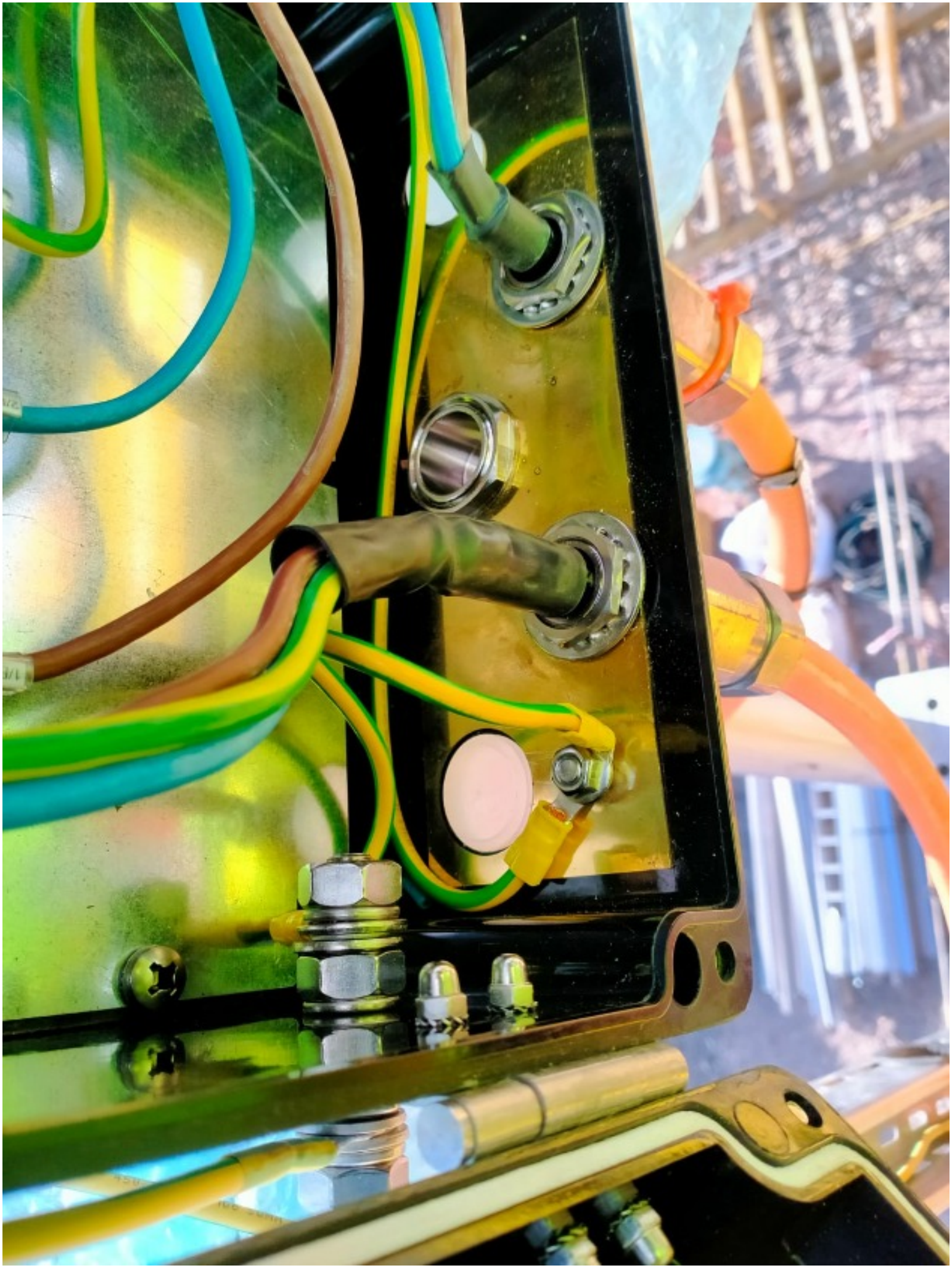
Signature:

6- CLEARANCE APPROVAL

Name:

Date:

Signature:



ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30002279

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10001631	1.4 Discipline	ATEX
1.2 Item	EJB-200N1-02-L1-11	JB - NORMAL LIGHTING	
1.3 Subsystem	83-40	Normal Lighting Upper Deck	

2 - OBSERVATION

Serrated washer is missing.

Name: Luca Mussi

Date: 2024-12-31

Signature:

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Luca Mussi
3.4 Activity code	MC Mechanical Completion	Date	2024-12-31
3.5 Action by	RM_CONSTR RM	Signature	

4 - PERFORMED ACTION

Name:

Date:

Signature:

5 - CLEARANCE CHECK

DONE

Name: Andrea Andreani

Date: 2025-02-05

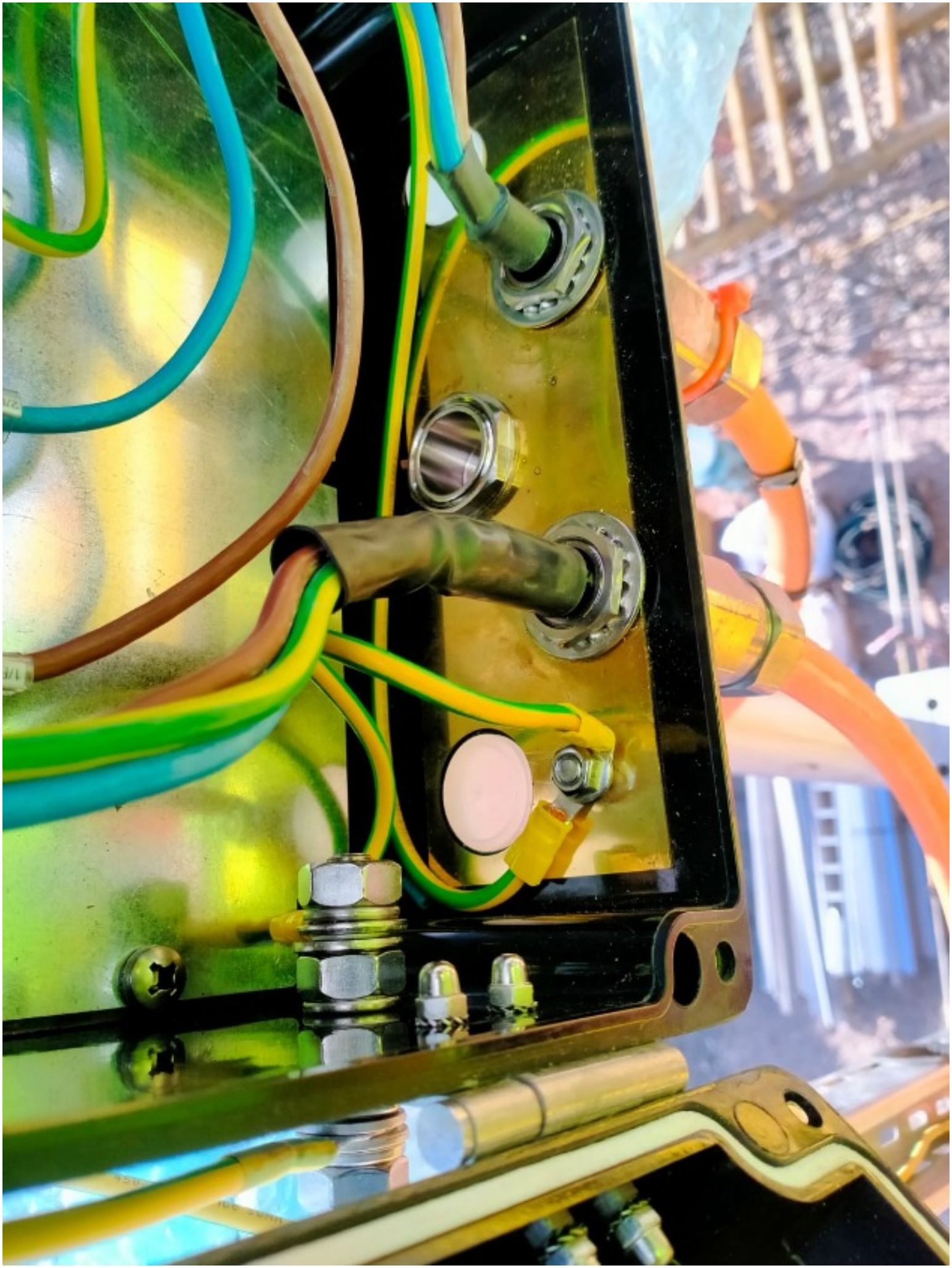
Signature:

6- CLEARANCE APPROVAL

Name:

Date:

Signature:



ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30002280

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10001631	1.4 Discipline	ATEX
1.2 Item	EJB-200N1-02-L1-11	JB - NORMAL LIGHTING	
1.3 Subsystem	83-40	Normal Lighting Upper Deck	

2 - OBSERVATION

Identification tags on termianl block are missing.

Name: Luca Mussi

Date: 2024-12-31

Signature:

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Luca Mussi
3.4 Activity code	MC Mechanical Completion	Date	2024-12-31
3.5 Action by	RM_CONSTR RM	Signature	

4 - PERFORMED ACTION

Name:

Date:

Signature:

5 - CLEARANCE CHECK

DONE

Name: Andrea Andreani

Date: 2025-02-05

Signature:

6- CLEARANCE APPROVAL

Name:

Date:

Signature:

PE
PE
PE
PE
PE
N
N
N
L
L
L
L
L
N/E-JB-200N1-02-L1-12N
L/E-JB-200N1-02-L1-12L

ROSETTI MARINO CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30002281

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10001631	1.4 Discipline	ATEX
1.2 Item	EJB-200N1-02-L1-11	JB - NORMAL LIGHTING	
1.3 Subsystem	83-40	Normal Lighting Upper Deck	

2 - OBSERVATION

On ATEX register (123A90-DDL-EL-LIS-20094 sheet 19) JB Serial Number is 24P00297990056, but actual is 24P00297990030.

Name: Luca Mussi

Date: 2024-12-31

Signature:

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Luca Mussi
3.4 Activity code	MC Mechanical Completion	Date	2024-12-31
3.5 Action by	ENG Engineering	Signature	

4 - PERFORMED ACTION

Name:

Date:

Signature:

5 - CLEARANCE CHECK

ATEX register updated.

Name: Giovanni Tangianu

Date: 2025-04-17

Signature:

6- CLEARANCE APPROVAL

Name:

Date:

Signature:

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30002286

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10001633	1.4 Discipline	ATEX
1.2 Item	EJB-200N1-02-L1-12	JB - NORMAL LIGHTING	
1.3 Subsystem	83-40	Normal Lighting Upper Deck	

2 - OBSERVATION

On ATEX register (123A90-DDL-EL-LIS-20094 sheet 19) JB Serial Number is 24P00297990055, but actual is 24P00297990031.

Name: Luca Mussi
Date: 2025-01-02
Signature:

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Luca Mussi
3.4 Activity code	MC Mechanical Completion	Date	2025-01-02
3.5 Action by	ENG Engineering	Signature	

4 - PERFORMED ACTION

Name:
Date:
Signature:

5 - CLEARANCE CHECK

ATEX register updated.

Name: Giovanni Tangianu
Date: 2025-04-17
Signature:

6- CLEARANCE APPROVAL

Name:
Date:
Signature:

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30002287

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10001633	1.4 Discipline	ATEX
1.2 Item	EJB-200N1-02-L1-12	JB - NORMAL LIGHTING	
1.3 Subsystem	83-40	Normal Lighting Upper Deck	

2 - OBSERVATION

Drainage valve (as per 123A90-DDL-EL-DS-20067) is missing.

Name: Luca Mussi

Date: 2025-01-02

Signature:

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Luca Mussi
3.4 Activity code	MC Mechanical Completion	Date	2025-01-02
3.5 Action by	RM_CONSTR RM	Signature	

4 - PERFORMED ACTION

Name:

Date:

Signature:

5 - CLEARANCE CHECK

TDS is superseded by TBE and Vendor GA, drain valve not required

Name: Eleonora Carotenuto

Date: 2025-01-14

Signature:

6- CLEARANCE APPROVAL

Name:

Date:

Signature:



ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30002311

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10001633	1.4 Discipline	ATEX
1.2 Item	EJB-200N1-02-L1-12	JB - NORMAL LIGHTING	
1.3 Subsystem	83-40	Normal Lighting Upper Deck	

2 - OBSERVATION

Serrated washers are missing.

Name: Luca Mussi

Date: 2025-01-02

Signature:

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Luca Mussi
3.4 Activity code	MC Mechanical Completion	Date	2025-01-02
3.5 Action by	RM_CONSTR RM	Signature	

4 - PERFORMED ACTION

Name:

Date:

Signature:

5 - CLEARANCE CHECK

DONE

Name: Andrea Andreani

Date: 2025-01-20

Signature:

6- CLEARANCE APPROVAL

Name:

Date:

Signature:



ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30002313

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10001633	1.4 Discipline	ATEX
1.2 Item	EJB-200N1-02-L1-12	JB - NORMAL LIGHTING	
1.3 Subsystem	83-40	Normal Lighting Upper Deck	

2 - OBSERVATION

Identification tags on terminal block are missing

Name: Luca Mussi

Date: 2025-01-02

Signature:

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Luca Mussi
3.4 Activity code	MC Mechanical Completion	Date	2025-01-02
3.5 Action by	RM_CONSTR RM	Signature	

4 - PERFORMED ACTION

Name:

Date:

Signature:

5 - CLEARANCE CHECK

DONE

Name: Andrea Andreani

Date: 2025-02-05

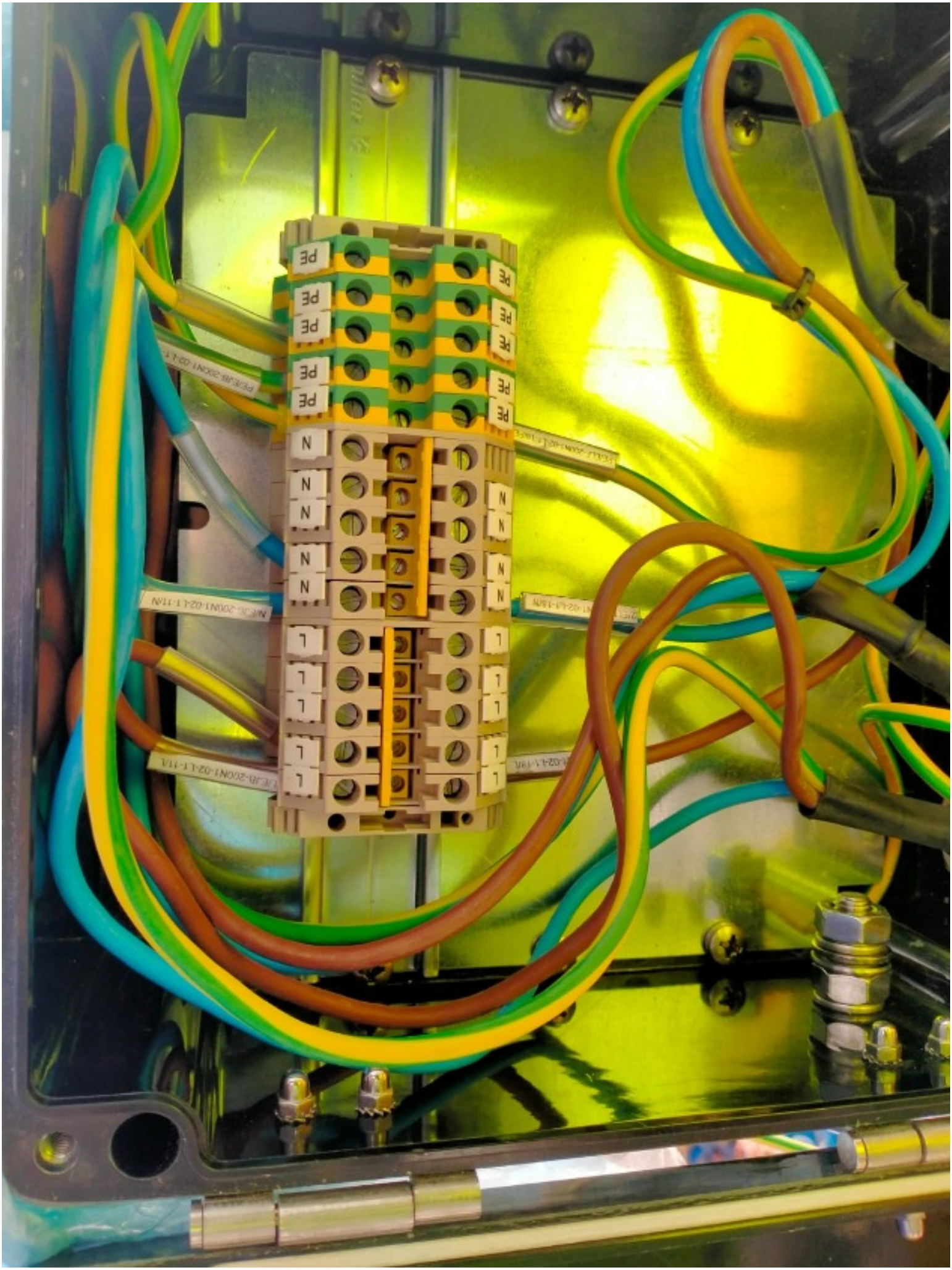
Signature:

6- CLEARANCE APPROVAL

Name:

Date:

Signature:


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ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30002366

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10001635	1.4 Discipline	ATEX
1.2 Item	EJB-200N1-02-L1-17	JB - NORMAL LIGHTING	
1.3 Subsystem	83-40	Normal Lighting Upper Deck	

2 - OBSERVATION

On ATEX register (123A90-DDL-EL-LIS-20094 sheet ZZ) JB Serial Number is 24P00297990050, but actual is 24P00297990034.

Name: Luca Mussi
Date: 2025-01-07
Signature:

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Luca Mussi
3.4 Activity code	MC Mechanical Completion	Date	2025-01-07
3.5 Action by	ENG Engineering	Signature	

4 - PERFORMED ACTION

Name:
Date:
Signature:

5 - CLEARANCE CHECK

ATEX register updated.

Name: Giovanni Tangianu
Date: 2025-04-17
Signature:

6- CLEARANCE APPROVAL

Name:
Date:
Signature:

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30002367

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10001635	1.4 Discipline	ATEX
1.2 Item	EJB-200N1-02-L1-17	JB - NORMAL LIGHTING	
1.3 Subsystem	83-40	Normal Lighting Upper Deck	

2 - OBSERVATION

Drainage valve (as per 123A90-DDL-EL-DS-20067) is missing.

Name: Luca Mussi

Date: 2025-01-07

Signature:

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Luca Mussi
3.4 Activity code	MC Mechanical Completion	Date	2025-01-07
3.5 Action by	RM_CONSTR RM	Signature	

4 - PERFORMED ACTION

Name:

Date:

Signature:

5 - CLEARANCE CHECK

TDS is superseded by TBE and Vendor GA, drain valve not required

Name: Eleonora Carotenuto

Date: 2025-01-14

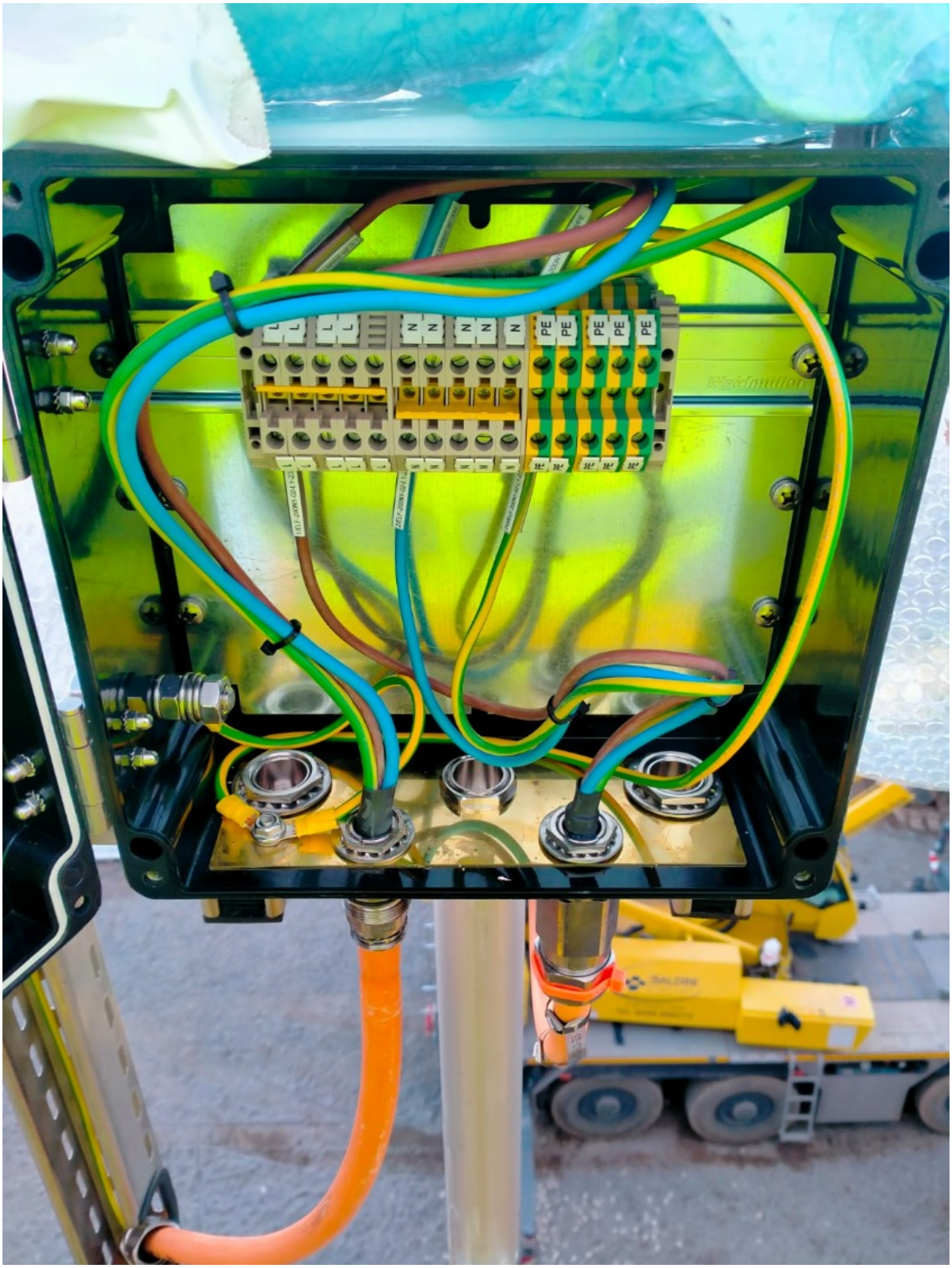
Signature:

6- CLEARANCE APPROVAL

Name:

Date:

Signature:


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Weidmüller

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30002368

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10001635	1.4 Discipline	ATEX
1.2 Item	EJB-200N1-02-L1-17	JB - NORMAL LIGHTING	
1.3 Subsystem	83-40	Normal Lighting Upper Deck	

2 - OBSERVATION

Serrated washer is missing on plugs

Name: Luca Mussi

Date: 2025-01-07

Signature:

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Luca Mussi
3.4 Activity code	MC Mechanical Completion	Date	2025-01-07
3.5 Action by	RM_CONSTR RM	Signature	

4 - PERFORMED ACTION

Name:

Date:

Signature:

5 - CLEARANCE CHECK

DONE

Name: Andrea Andreani

Date: 2025-02-05

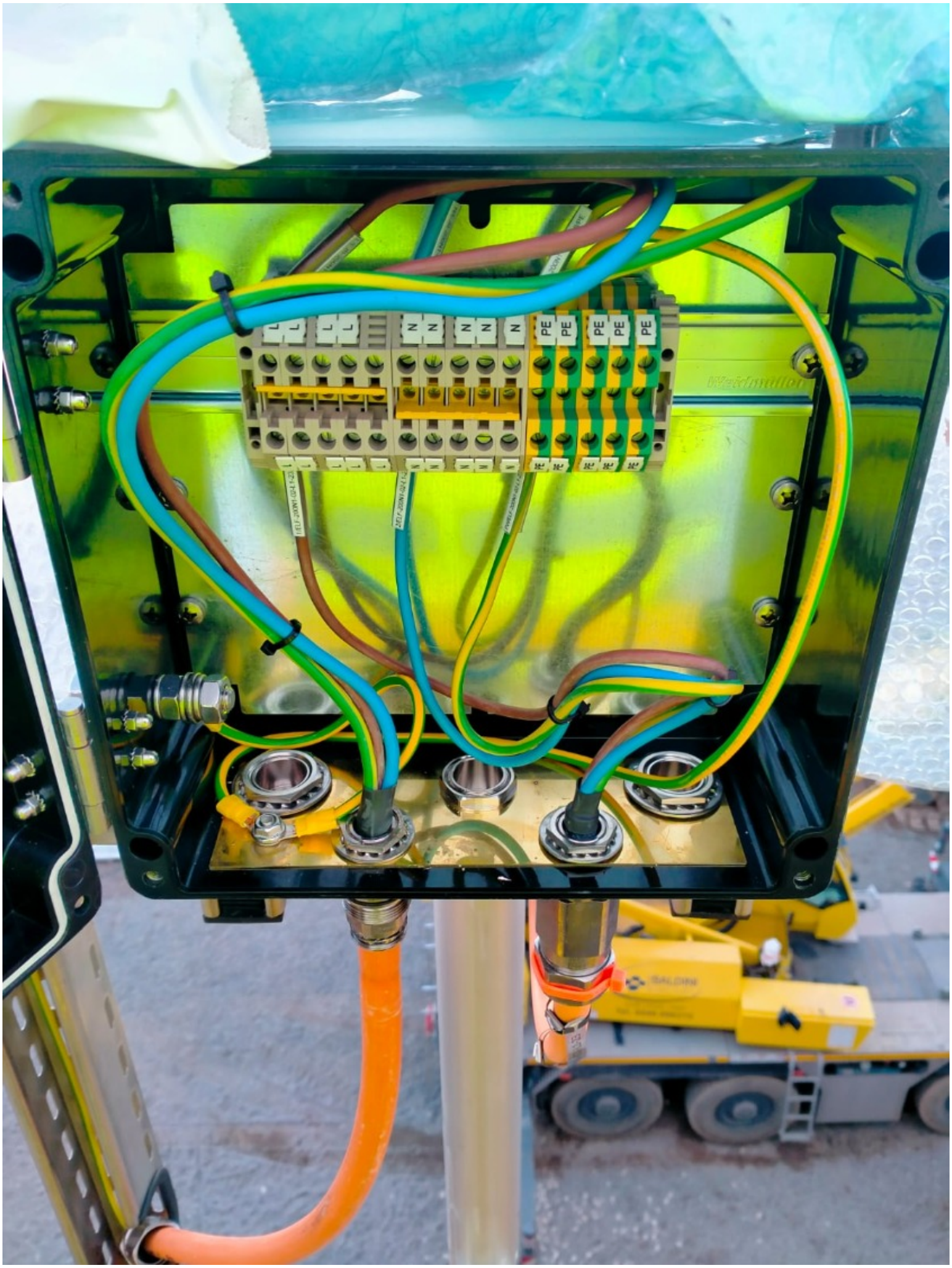
Signature:

6- CLEARANCE APPROVAL

Name:

Date:

Signature:


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Weidmüller

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30002369

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10001635	1.4 Discipline	ATEX
1.2 Item	EJB-200N1-02-L1-17	JB - NORMAL LIGHTING	
1.3 Subsystem	83-40	Normal Lighting Upper Deck	

2 - OBSERVATION

Identification tags on terminal block are missing.

Name: Luca Mussi

Date: 2025-01-07

Signature:

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Luca Mussi
3.4 Activity code	MC Mechanical Completion	Date	2025-01-07
3.5 Action by	RM_CONSTR RM	Signature	

4 - PERFORMED ACTION

Name:

Date:

Signature:

5 - CLEARANCE CHECK

DONE

Name: Andrea Andreani

Date: 2025-02-05

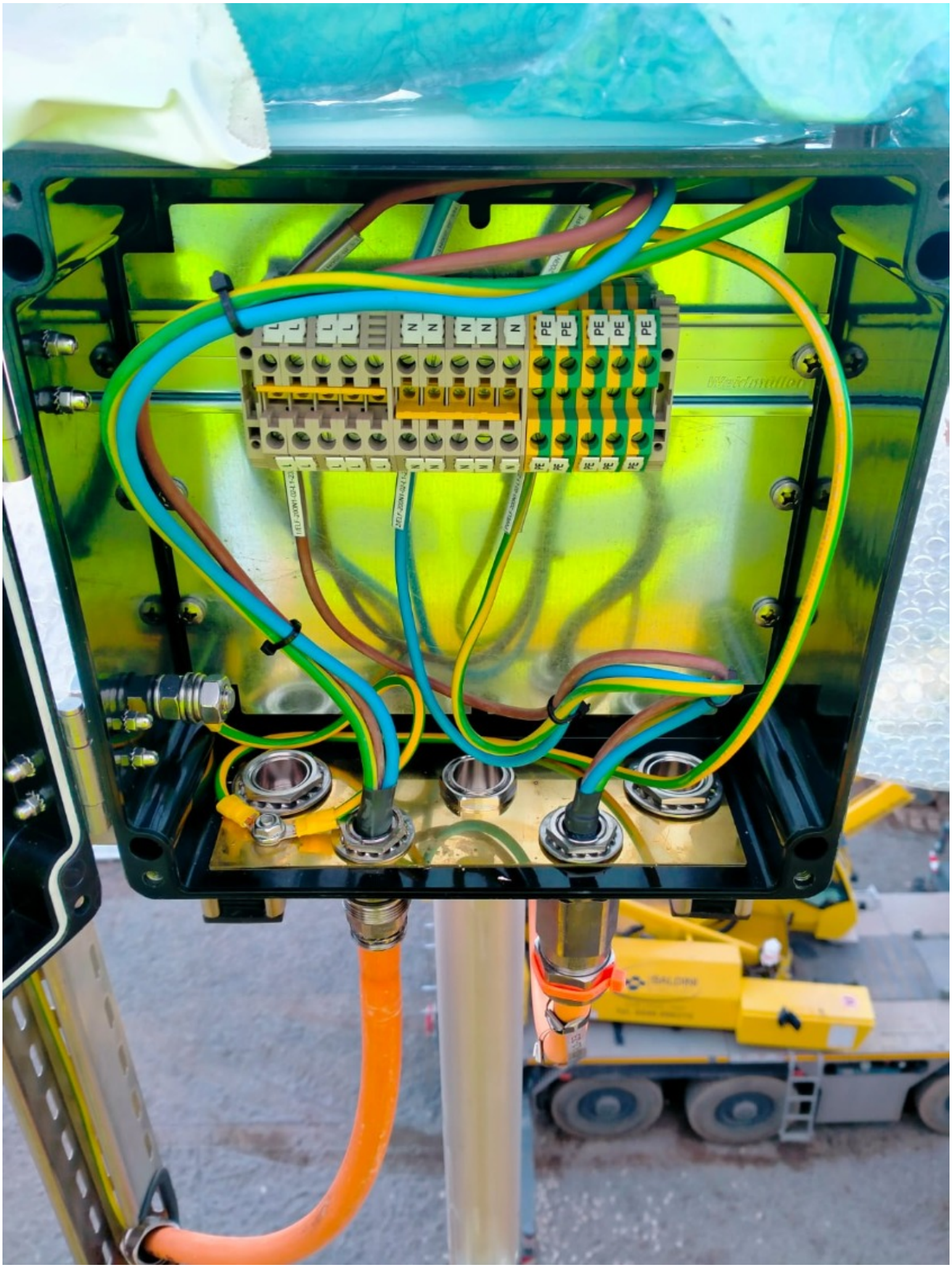
Signature:

6- CLEARANCE APPROVAL

Name:

Date:

Signature:


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Weidmüller

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30002370

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10001636	1.4 Discipline	ATEX
1.2 Item	EJB-200N1-02-L1-18	JB - NORMAL LIGHTING	
1.3 Subsystem	83-40	Normal Lighting Upper Deck	

2 - OBSERVATION

On ATEX register (123A90-DDL-EL-LIS-20094 sheet ZZ) JB Serial Number is 24P00297990052, but actual is 24P00297990035.

Name: Luca Mussi
Date: 2025-01-07
Signature:

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Luca Mussi
3.4 Activity code	MC Mechanical Completion	Date	2025-01-07
3.5 Action by	ENG Engineering	Signature	

4 - PERFORMED ACTION

Name:
Date:
Signature:

5 - CLEARANCE CHECK

ATEX register updated.

Name: Giovanni Tangianu
Date: 2025-04-17
Signature:

6- CLEARANCE APPROVAL

Name:
Date:
Signature:

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30002371

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10001636	1.4 Discipline	ATEX
1.2 Item	EJB-200N1-02-L1-18	JB - NORMAL LIGHTING	
1.3 Subsystem	83-40	Normal Lighting Upper Deck	

2 - OBSERVATION

Drainage valve (as per 123A90-DDL-EL-DS-20067) is missing.

Name: Luca Mussi

Date: 2025-01-07

Signature:

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Luca Mussi
3.4 Activity code	MC Mechanical Completion	Date	2025-01-07
3.5 Action by	RM_CONSTR RM	Signature	

4 - PERFORMED ACTION

Name:

Date:

Signature:

5 - CLEARANCE CHECK

TDS is superseded by TBE and Vendor GA, drain valve not required

Name: Eleonora Carotenuto

Date: 2025-01-14

Signature:

6- CLEARANCE APPROVAL

Name:

Date:

Signature:


1-24

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30002490

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10000685	1.4 Discipline	Electrical
1.2 Item	P-EJB-200N1-02-L1-10	Normal Lighting JB / Normal Lighting JB	
1.3 Subsystem	83-40	Normal Lighting Upper Deck	

2 - OBSERVATION

Missing cable tag side the EJB-200N1-02-L1-10,

Name: Giovanni Tangianu

Date: 2025-01-09

Signature:

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Giovanni Tangianu
3.4 Activity code	MC Mechanical Completion	Date	2025-01-09
3.5 Action by	RM_CONSTR RM	Signature	

4 - PERFORMED ACTION

Name:

Date:

Signature:

5 - CLEARANCE CHECK

Done

Name: Gabriele Bertuccelli

Date: 2025-01-24

Signature:

6- CLEARANCE APPROVAL

Name:

Date:

Signature:


EJB-200N1-02-L1-10
CORTEC
TECHNOR ITALSMEA
MADE IN ITALY

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30002491

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10000685	1.4 Discipline	Electrical
1.2 Item	P-EJB-200N1-02-L1-10	Normal Lighting JB / Normal Lighting JB	
1.3 Subsystem	83-40	Normal Lighting Upper Deck	

2 - OBSERVATION

Missing identification wires tag both side the cables.

Name: Giovanni Tangianu

Date: 2025-01-09

Signature:

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Giovanni Tangianu
3.4 Activity code	MC Mechanical Completion	Date	2025-01-09
3.5 Action by	RM_CONSTR RM	Signature	

4 - PERFORMED ACTION

Name:

Date:

Signature:

5 - CLEARANCE CHECK

Installed.

Name: Giovanni Tangianu

Date: 2025-02-04

Signature:

6- CLEARANCE APPROVAL

Name:

Date:

Signature:

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30002492

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10000680	1.4 Discipline	Electrical
1.2 Item	P-EJB-200N1-02-L1-09	Normal Lighting JB / Normal Lighting JB	
1.3 Subsystem	83-40	Normal Lighting Upper Deck	

2 - OBSERVATION

The cable is not protected below the (EJB-200N1-02-L1-09).
Cable tray is short.
See attached photo.

Name: Giovanni Tangianu
Date: 2025-01-09
Signature:

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Giovanni Tangianu
3.4 Activity code	MC Mechanical Completion	Date	2025-01-09
3.5 Action by	RM_CONSTR RM	Signature	

4 - PERFORMED ACTION

Name:
Date:
Signature:

5 - CLEARANCE CHECK

DONE

Name: Andrea Andreani
Date: 2025-01-30
Signature:

6- CLEARANCE APPROVAL

Name:
Date:
Signature:



ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30001501

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10000688	1.4 Discipline	Electrical
1.2 Item	P-ELF-200N1-02-L1-17	Normal Lighting JB / Normal Lighting Fixture	
1.3 Subsystem	83-40	Normal Lighting Upper Deck	

2 - OBSERVATION

On Light side, cable is not dressed as per 123A90-XXXXXX rev. Y sheet ZZZ. Cable is entering the Light cable gland downwards while it should be upwards.

Name: Andrea Andreani

Date: 2024-12-06

Signature:

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Andrea Andreani
3.4 Activity code	MC Mechanical Completion	Date	2024-12-06
3.5 Action by	RM_CONSTR RM	Signature	

4 - PERFORMED ACTION

Name:

Date:

Signature:

5 - CLEARANCE CHECK

Done

Name: Gabriele Bertuccelli

Date: 2025-02-04

Signature:

6- CLEARANCE APPROVAL

Name:

Date:

Signature:

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30001502

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10000695	1.4 Discipline	Electrical
1.2 Item	P-EJB-200N1-02-L1-15	Normal Lighting JB / Normal Lighting JB	
1.3 Subsystem	83-40	Normal Lighting Upper Deck	

2 - OBSERVATION

On both JBs side, cable gland is connected to JB with an adapter (on cable list the adapter is not present)

Name: Luca Mussi
Date: 2024-12-06
Signature:

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	A PL A	Name	Luca Mussi
3.4 Activity code	MC Mechanical Completion	Date	2024-12-06
3.5 Action by	RM_CONSTR RM	Signature	

4 - PERFORMED ACTION

Name:
Date:
Signature:

5 - CLEARANCE CHECK

Replaced

Name: Eleonora Carotenuto
Date: 2025-01-16
Signature:

6- CLEARANCE APPROVAL

Name:
Date:
Signature:



ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30001503

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10000690	1.4 Discipline	Electrical
1.2 Item	P-ELF-200N1-02-L1-18		Normal Lighting JB / Normal Lighting Fixture
1.3 Subsystem	83-40		Normal Lighting Upper Deck

2 - OBSERVATION

On light side cable labelling is missing

Name: Luca Mussi

Date: 2024-12-06

Signature:

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Luca Mussi
3.4 Activity code	MC Mechanical Completion	Date	2024-12-06
3.5 Action by	RM_CONSTR RM	Signature	

4 - PERFORMED ACTION

Name:

Date:

Signature:

5 - CLEARANCE CHECK

Done

Name: Gabriele Bertuccelli

Date: 2025-01-24

Signature:

6- CLEARANCE APPROVAL

Name:

Date:

Signature:


Life

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30001504

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10000690	1.4 Discipline	Electrical
1.2 Item	P-ELF-200N1-02-L1-18		Normal Lighting JB / Normal Lighting Fixture
1.3 Subsystem	83-40		Normal Lighting Upper Deck

2 - OBSERVATION

Core identification tag are not as per Cross-Ferruling Philosophy for all cores

Name: Luca Mussi

Date: 2024-12-06

Signature:

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Luca Mussi
3.4 Activity code	MC Mechanical Completion	Date	2024-12-06
3.5 Action by	RM_CONSTR RM	Signature	

4 - PERFORMED ACTION

Name:

Date:

Signature:

5 - CLEARANCE CHECK

DONE

Name: Andrea Andreani

Date: 2025-02-05

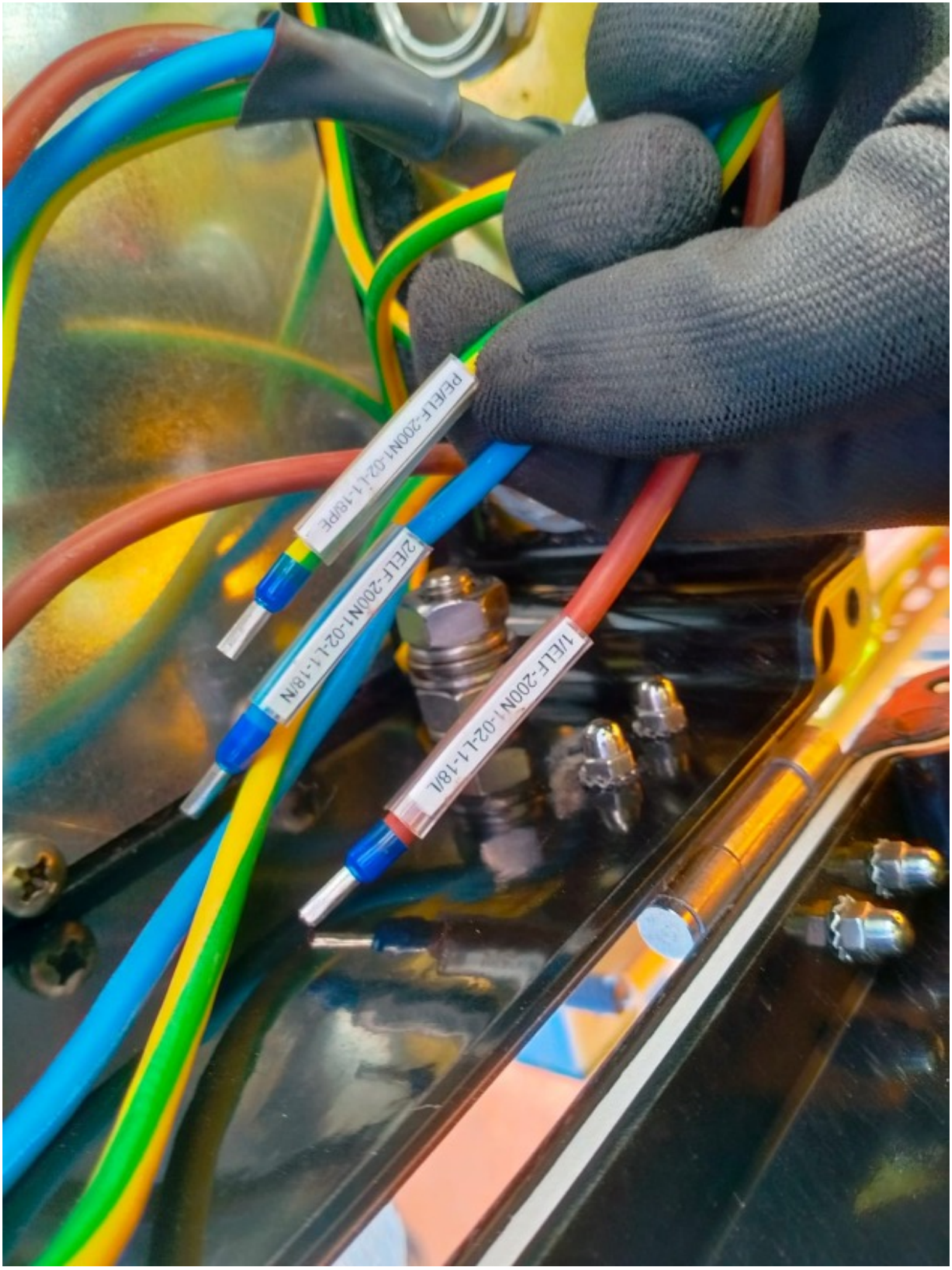
Signature:

6- CLEARANCE APPROVAL

Name:

Date:

Signature:


PE/ELF-200N1-02-L1-18/PE
2/ELF-200N1-02-L1-18/N
1/ELF-200N1-02-L1-18/L

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30001505

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10000690	1.4 Discipline	Electrical
1.2 Item	P-ELF-200N1-02-L1-18		Normal Lighting JB / Normal Lighting Fixture
1.3 Subsystem	83-40		Normal Lighting Upper Deck

2 - OBSERVATION

Cable gland installation is not as per drawing 123A90-DDL-EL-DD-20091 rev 2 sheet 014 pos. 4. Cable is entering the Light cable gland downwards while it should be upwards.

Name: Luca Mussi
Date: 2024-12-06
Signature:

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Luca Mussi
3.4 Activity code	MC Mechanical Completion	Date	2024-12-06
3.5 Action by	RM_CONSTR RM	Signature	

4 - PERFORMED ACTION

Name:
Date:
Signature:

5 - CLEARANCE CHECK

Done

Name: Gabriele Bertuccelli
Date: 2025-02-04
Signature:

6- CLEARANCE APPROVAL

Name:
Date:
Signature:


Lirex

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30001506

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10000690	1.4 Discipline	Electrical
1.2 Item	P-ELF-200N1-02-L1-18	Normal Lighting JB / Normal Lighting Fixture	
1.3 Subsystem	83-40	Normal Lighting Upper Deck	

2 - OBSERVATION

Cable gland installation is not as per drawing 123A90-DDL-EL-DD-20091 rev 2 sheet 014 pos. 4 (cable gland earthing tag is missing)

Name: Luca Mussi
Date: 2024-12-06
Signature:

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	A PL A	Name	Luca Mussi
3.4 Activity code	MC Mechanical Completion	Date	2024-12-06
3.5 Action by	RM_CONSTR RM	Signature	

4 - PERFORMED ACTION

Name:
Date:
Signature:

5 - CLEARANCE CHECK

RLMU done for 123A90-FDL-EL-DD-20091, sh.14, Rev.2

Name: Eleonora Carotenuto
Date: 2024-12-14
Signature:

6- CLEARANCE APPROVAL

Name:
Date:
Signature:


Lirex

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30001507

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10000698	1.4 Discipline	Electrical
1.2 Item	P-ELF-200N1-02-L1-22		Normal Lighting JB / Normal Lighting Fixture
1.3 Subsystem	83-40		Normal Lighting Upper Deck

2 - OBSERVATION

missing cable labelling on both instrument and JB sides

Name: Andrea Andreani

Date: 2024-12-07

Signature:

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Andrea Andreani
3.4 Activity code	MC Mechanical Completion	Date	2024-12-07
3.5 Action by	RM_CONSTR RM	Signature	

4 - PERFORMED ACTION

Name:

Date:

Signature:

5 - CLEARANCE CHECK

Done

Name: Gabriele Bertuccelli

Date: 2025-01-24

Signature:

6- CLEARANCE APPROVAL

Name:

Date:

Signature:

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30001508

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10000698	1.4 Discipline	Electrical
1.2 Item	P-ELF-200N1-02-L1-22		Normal Lighting JB / Normal Lighting Fixture
1.3 Subsystem	83-40		Normal Lighting Upper Deck

2 - OBSERVATION

Core tag is missing for cable on JB sides

Name: Andrea Andreani

Date: 2024-12-07

Signature:

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Andrea Andreani
3.4 Activity code	MC Mechanical Completion	Date	2024-12-07
3.5 Action by	RM_CONSTR RM	Signature	

4 - PERFORMED ACTION

Name:

Date:

Signature:

5 - CLEARANCE CHECK

DONE

Name: Andrea Andreani

Date: 2025-02-05

Signature:

6- CLEARANCE APPROVAL

Name:

Date:

Signature:

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30001509

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10000698	1.4 Discipline	Electrical
1.2 Item	P-ELF-200N1-02-L1-22	Normal Lighting JB / Normal Lighting Fixture	
1.3 Subsystem	83-40	Normal Lighting Upper Deck	

2 - OBSERVATION

cable gland earthing tag is missing

Name: Andrea Andreani

Date: 2024-12-07

Signature:

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	A PL A	Name	Andrea Andreani
3.4 Activity code	MC Mechanical Completion	Date	2024-12-07
3.5 Action by	RM_CONSTR RM	Signature	

4 - PERFORMED ACTION

Name:

Date:

Signature:

5 - CLEARANCE CHECK

RLMU done for 123A90-FDL-EL-DD-20091, sh.14, Rev.2

Name: Eleonora Carotenuto

Date: 2024-12-14

Signature:

6- CLEARANCE APPROVAL

Name:

Date:

Signature:

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30001510

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10000698	1.4 Discipline	Electrical
1.2 Item	P-ELF-200N1-02-L1-22	Normal Lighting JB / Normal Lighting Fixture	
1.3 Subsystem	83-40	Normal Lighting Upper Deck	

2 - OBSERVATION

Cable is entering the Light cable gland downwards while it should be upwards

Name: Andrea Andreani

Date: 2024-12-07

Signature:

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Andrea Andreani
3.4 Activity code	MC Mechanical Completion	Date	2024-12-07
3.5 Action by	RM_CONSTR RM	Signature	

4 - PERFORMED ACTION

Name:

Date:

Signature:

5 - CLEARANCE CHECK

Done

Name: Gabriele Bertuccelli

Date: 2025-02-04

Signature:

6- CLEARANCE APPROVAL

Name:

Date:

Signature:

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30001511

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10001356	1.4 Discipline	Electrical
1.2 Item	ELF-200N1-02-L1-22	NORMAL LIGHT	
1.3 Subsystem	83-40	Normal Lighting Upper Deck	

2 - OBSERVATION

The support is not well secured against vibration. another support needs to be added

Name: Andrea Andreani

Date: 2024-12-07

Signature:

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Andrea Andreani
3.4 Activity code	MC Mechanical Completion	Date	2024-12-07
3.5 Action by	RM_CONSTR RM	Signature	

4 - PERFORMED ACTION

Name:

Date:

Signature:

5 - CLEARANCE CHECK

Installation carried out as per typical 123A90-DDL-EL-DD-20091 and 123A90-DDL-IN-DD-40017 drawing. Eng states that no additional support is needed.

Name: Giovanni Tangianu

Date: 2025-03-07

Signature:

6- CLEARANCE APPROVAL

Name:

Date:

Signature:

ROSETTI MARINO CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30001512

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10001356	1.4 Discipline	Electrical
1.2 Item	ELF-200N1-02-L1-22	NORMAL LIGHT	
1.3 Subsystem	83-40	Normal Lighting Upper Deck	

2 - OBSERVATION

Pole installation is not as per typical drawing 123A90-DDL-EL-DD-20091 rev 2 sheet 014 detail (it is not present the teflon sheet but teflon washers intead)

Name: Andrea Andreani

Date: 2024-12-07

Signature:

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Andrea Andreani
3.4 Activity code	MC Mechanical Completion	Date	2024-12-07
3.5 Action by	RM_CONSTR RM	Signature	

4 - PERFORMED ACTION

Name:

Date:

Signature:

5 - CLEARANCE CHECK

done

Name: Andrea Andreani

Date: 2024-12-19

Signature:

6- CLEARANCE APPROVAL

Name:

Date:

Signature:

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30001514

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10001356	1.4 Discipline	Electrical
1.2 Item	ELF-200N1-02-L1-22	NORMAL LIGHT	
1.3 Subsystem	83-40	Normal Lighting Upper Deck	

2 - OBSERVATION

missing tag

Name: Andrea Andreani

Date: 2024-12-07

Signature:

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Andrea Andreani
3.4 Activity code	MC Mechanical Completion	Date	2024-12-07
3.5 Action by	RM_CONSTR RM	Signature	

4 - PERFORMED ACTION

Name:

Date:

Signature:

5 - CLEARANCE CHECK

DONE

Name: Eleonora Carotenuto

Date: 2024-12-30

Signature:

6- CLEARANCE APPROVAL

Name:

Date:

Signature:

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30001518

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10000702	1.4 Discipline	Electrical
1.2 Item	P-ELF-200N1-02-L1-24	Normal Lighting JB / Normal Lighting Fixture	
1.3 Subsystem	83-40	Normal Lighting Upper Deck	

2 - OBSERVATION

missing cable labelling on JB sides

Name: Andrea Andreani

Date: 2024-12-07

Signature:

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Andrea Andreani
3.4 Activity code	MC Mechanical Completion	Date	2024-12-07
3.5 Action by	RM_CONSTR RM	Signature	

4 - PERFORMED ACTION

Name:

Date:

Signature:

5 - CLEARANCE CHECK

Done

Name: Gabriele Bertuccelli

Date: 2025-01-24

Signature:

6- CLEARANCE APPROVAL

Name:

Date:

Signature:

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30001519

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10000702	1.4 Discipline	Electrical
1.2 Item	P-ELF-200N1-02-L1-24	Normal Lighting JB / Normal Lighting Fixture	
1.3 Subsystem	83-40	Normal Lighting Upper Deck	

2 - OBSERVATION

Core tag is missing for cable on JB sides

Name: Andrea Andreani

Date: 2024-12-07

Signature:

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Andrea Andreani
3.4 Activity code	MC Mechanical Completion	Date	2024-12-07
3.5 Action by	RM_CONSTR RM	Signature	

4 - PERFORMED ACTION

Name:

Date:

Signature:

5 - CLEARANCE CHECK

DONE

Name: Andrea Andreani

Date: 2025-02-05

Signature:

6- CLEARANCE APPROVAL

Name:

Date:

Signature:

ROSETTI MARINO CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30001522

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10000702	1.4 Discipline	Electrical
1.2 Item	P-ELF-200N1-02-L1-24	Normal Lighting JB / Normal Lighting Fixture	
1.3 Subsystem	83-40	Normal Lighting Upper Deck	

2 - OBSERVATION

Cable is entering the Light cable gland downwards while it should be upwards

Name: Andrea Andreani

Date: 2024-12-07

Signature:

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Andrea Andreani
3.4 Activity code	MC Mechanical Completion	Date	2024-12-07
3.5 Action by	RM_CONSTR RM	Signature	

4 - PERFORMED ACTION

Name:

Date:

Signature:

5 - CLEARANCE CHECK

Done

Name: Gabriele Bertuccelli

Date: 2025-02-04

Signature:

6- CLEARANCE APPROVAL

Name:

Date:

Signature:

ROSETTI MARINO CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30001525

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10000704	1.4 Discipline	Electrical
1.2 Item	P-ELF-200N1-02-L1-25	Normal Lighting JB / Normal Lighting Fixture	
1.3 Subsystem	83-40	Normal Lighting Upper Deck	

2 - OBSERVATION

missing cable labelling on light sides

Name: Andrea Andreani

Date: 2024-12-07

Signature:

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Andrea Andreani
3.4 Activity code	MC Mechanical Completion	Date	2024-12-07
3.5 Action by	RM_CONSTR RM	Signature	

4 - PERFORMED ACTION

Name:

Date:

Signature:

5 - CLEARANCE CHECK

DONE

Name: Andrea Andreani

Date: 2025-01-20

Signature:

6- CLEARANCE APPROVAL

Name:

Date:

Signature:

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30001527

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10000704	1.4 Discipline	Electrical
1.2 Item	P-ELF-200N1-02-L1-25		Normal Lighting JB / Normal Lighting Fixture
1.3 Subsystem	83-40		Normal Lighting Upper Deck

2 - OBSERVATION

Core tag is missing for cable on both instrument and JB sides

Name: Andrea Andreani

Date: 2024-12-07

Signature:

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Andrea Andreani
3.4 Activity code	MC Mechanical Completion	Date	2024-12-07
3.5 Action by	RM_CONSTR RM	Signature	

4 - PERFORMED ACTION

Name:

Date:

Signature:

5 - CLEARANCE CHECK

DONE

Name: Andrea Andreani

Date: 2025-02-05

Signature:

6- CLEARANCE APPROVAL

Name:

Date:

Signature:

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30001529

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10000704	1.4 Discipline	Electrical
1.2 Item	P-ELF-200N1-02-L1-25	Normal Lighting JB / Normal Lighting Fixture	
1.3 Subsystem	83-40	Normal Lighting Upper Deck	

2 - OBSERVATION

cable gland earthing tag is missing

Name: Andrea Andreani

Date: 2024-12-07

Signature:

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	A PL A	Name	Andrea Andreani
3.4 Activity code	MC Mechanical Completion	Date	2024-12-07
3.5 Action by	RM_CONSTR RM	Signature	

4 - PERFORMED ACTION

Name:

Date:

Signature:

5 - CLEARANCE CHECK

RLMU done for 123A90-FDL-EL-DD-20091, sh.14, Rev.2

Name: Eleonora Carotenuto

Date: 2024-12-14

Signature:

6- CLEARANCE APPROVAL

Name:

Date:

Signature:

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30001532

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10000704	1.4 Discipline	Electrical
1.2 Item	P-ELF-200N1-02-L1-25		Normal Lighting JB / Normal Lighting Fixture
1.3 Subsystem	83-40		Normal Lighting Upper Deck

2 - OBSERVATION

Cable is entering the Light cable gland downwards while it should be upwards

Name: Andrea Andreani

Date: 2024-12-07

Signature:

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Andrea Andreani
3.4 Activity code	MC Mechanical Completion	Date	2024-12-07
3.5 Action by	RM_CONSTR RM	Signature	

4 - PERFORMED ACTION

Name:

Date:

Signature:

5 - CLEARANCE CHECK

Done

Name: Gabriele Bertuccelli

Date: 2025-02-04

Signature:

6- CLEARANCE APPROVAL

Name:

Date:

Signature:

ROSETTI MARINO CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30001535

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10000686	1.4 Discipline	Electrical
1.2 Item	P-ELF-200N1-02-L1-16	Normal Lighting JB / Normal Lighting Fixture	
1.3 Subsystem	83-40	Normal Lighting Upper Deck	

2 - OBSERVATION

missing cable labelling on light sides

Name: Andrea Andreani

Date: 2024-12-07

Signature:

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Andrea Andreani
3.4 Activity code	MC Mechanical Completion	Date	2024-12-07
3.5 Action by	RM_CONSTR RM	Signature	

4 - PERFORMED ACTION

Name:

Date:

Signature:

5 - CLEARANCE CHECK

Done

Name: Gabriele Bertuccelli

Date: 2025-01-24

Signature:

6- CLEARANCE APPROVAL

Name:

Date:

Signature:

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30001536

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10000686	1.4 Discipline	Electrical
1.2 Item	P-ELF-200N1-02-L1-16	Normal Lighting JB / Normal Lighting Fixture	
1.3 Subsystem	83-40	Normal Lighting Upper Deck	

2 - OBSERVATION

Core tag is wrong on JB side and missing on light side

Name: Andrea Andreani

Date: 2024-12-07

Signature:

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Andrea Andreani
3.4 Activity code	MC Mechanical Completion	Date	2024-12-07
3.5 Action by	RM_CONSTR RM	Signature	

4 - PERFORMED ACTION

Name:

Date:

Signature:

5 - CLEARANCE CHECK

DONE

Name: Andrea Andreani

Date: 2025-02-05

Signature:

6- CLEARANCE APPROVAL

Name:

Date:

Signature:

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30001537

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10000686	1.4 Discipline	Electrical
1.2 Item	P-ELF-200N1-02-L1-16	Normal Lighting JB / Normal Lighting Fixture	
1.3 Subsystem	83-40	Normal Lighting Upper Deck	

2 - OBSERVATION

cable gland earthing tag is missing

Name: Andrea Andreani

Date: 2024-12-07

Signature:

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	A PL A	Name	Andrea Andreani
3.4 Activity code	MC Mechanical Completion	Date	2024-12-07
3.5 Action by	RM_CONSTR RM	Signature	

4 - PERFORMED ACTION

Name:

Date:

Signature:

5 - CLEARANCE CHECK

RLMU done for 123A90-FDL-EL-DD-20091, sh.14, Rev.2

Name: Eleonora Carotenuto

Date: 2024-12-14

Signature:

6- CLEARANCE APPROVAL

Name:

Date:

Signature:

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30001538

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10000686	1.4 Discipline	Electrical
1.2 Item	P-ELF-200N1-02-L1-16		Normal Lighting JB / Normal Lighting Fixture
1.3 Subsystem	83-40		Normal Lighting Upper Deck

2 - OBSERVATION

Cable is entering the Light cable gland downwards while it should be upwards

Name: Andrea Andreani

Date: 2024-12-07

Signature:

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Andrea Andreani
3.4 Activity code	MC Mechanical Completion	Date	2024-12-07
3.5 Action by	RM_CONSTR RM	Signature	

4 - PERFORMED ACTION

Name:

Date:

Signature:

5 - CLEARANCE CHECK

Done

Name: Gabriele Bertuccelli

Date: 2025-02-04

Signature:

6- CLEARANCE APPROVAL

Name:

Date:

Signature:

ROSETTI MARINO CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30001539

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10001671	1.4 Discipline	Electrical
1.2 Item	ELF-200N1-02-L1-16	NORMAL LIGHT	
1.3 Subsystem	83-40	Normal Lighting Upper Deck	

2 - OBSERVATION

The support is not well secured against vibration. another support needs to be added

Name: Andrea Andreani

Date: 2024-12-07

Signature:

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Andrea Andreani
3.4 Activity code	MC Mechanical Completion	Date	2024-12-07
3.5 Action by	RM_CONSTR RM	Signature	

4 - PERFORMED ACTION

Name:

Date:

Signature:

5 - CLEARANCE CHECK

Installation carried out as per typical 123A90-DDL-EL-DD-20091 and 123A90-DDL-IN-DD-40017 drawing. Eng states that no additional support is needed.

Name: Giovanni Tangianu

Date: 2025-03-07

Signature:

6- CLEARANCE APPROVAL

Name:

Date:

Signature:

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30001540

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10001671	1.4 Discipline	Electrical
1.2 Item	ELF-200N1-02-L1-16	NORMAL LIGHT	
1.3 Subsystem	83-40	Normal Lighting Upper Deck	

2 - OBSERVATION

missing tag

Name: Andrea Andreani

Date: 2024-12-07

Signature:

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Andrea Andreani
3.4 Activity code	MC Mechanical Completion	Date	2024-12-07
3.5 Action by	RM_CONSTR RM	Signature	

4 - PERFORMED ACTION

Name:

Date:

Signature:

5 - CLEARANCE CHECK

DONE

Name: Eleonora Carotenuto

Date: 2025-01-31

Signature:

6- CLEARANCE APPROVAL

Name:

Date:

Signature:

ROSETTI MARINO CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30001541

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10001671	1.4 Discipline	Electrical
1.2 Item	ELF-200N1-02-L1-16	NORMAL LIGHT	
1.3 Subsystem	83-40	Normal Lighting Upper Deck	

2 - OBSERVATION

Waterproof washers are missing on the plugs

Name: Andrea Andreani

Date: 2024-12-07

Signature:

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Andrea Andreani
3.4 Activity code	MC Mechanical Completion	Date	2024-12-07
3.5 Action by	RM_CONSTR RM	Signature	

4 - PERFORMED ACTION

Name:

Date:

Signature:

5 - CLEARANCE CHECK

DONE

Name: Andrea Andreani

Date: 2025-02-05

Signature:

6- CLEARANCE APPROVAL

Name:

Date:

Signature:

ROSETTI MARINO CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30001711

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10001697	1.4 Discipline	ATEX
1.2 Item	ELF-200N1-02-L1-23	EMERGENCY LIGHT	
1.3 Subsystem	83-40	Normal Lighting Upper Deck	

2 - OBSERVATION

the support is not well secured against vibration. another bracket needs to be added

Name: Andrea Andreani

Date: 2024-12-12

Signature:

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Andrea Andreani
3.4 Activity code	MC Mechanical Completion	Date	2024-12-12
3.5 Action by	RM_CONSTR RM	Signature	

4 - PERFORMED ACTION

Name:

Date:

Signature:

5 - CLEARANCE CHECK

Installation carried out as per typical 123A90-DDL-EL-DD-20091 and 123A90-DDL-IN-DD-40017 drawing. Eng states that no additional support is needed.

Name: Giovanni Tangianu

Date: 2025-03-07

Signature:

6- CLEARANCE APPROVAL

Name:

Date:

Signature:

ROSETTI MARINO CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30001712

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10001673	1.4 Discipline	ATEX
1.2 Item	ELF-200N1-02-L1-18	NORMAL LIGHT	
1.3 Subsystem	83-40	Normal Lighting Upper Deck	

2 - OBSERVATION

Pole installation is not as per typical drawing 123A90-DDL-EL-DD-20091 rev 2 sheet 014 detail (it is not present the teflon sheet but teflon washers intead)

Name: Gabriele Bertuccelli

Date: 2024-12-12

Signature:

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Gabriele Bertuccelli
3.4 Activity code	MC Mechanical Completion	Date	2024-12-12
3.5 Action by	RM_CONSTR RM	Signature	

4 - PERFORMED ACTION

Name:

Date:

Signature:

5 - CLEARANCE CHECK

done

Name: Andrea Andreani

Date: 2024-12-19

Signature:

6- CLEARANCE APPROVAL

Name:

Date:

Signature:

ROSETTI MARINO CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30001713

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10001697	1.4 Discipline	ATEX
1.2 Item	ELF-200N1-02-L1-23	EMERGENCY LIGHT	
1.3 Subsystem	83-40	Normal Lighting Upper Deck	

2 - OBSERVATION

missing tag

Name: Andrea Andreani

Date: 2024-12-12

Signature:

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Andrea Andreani
3.4 Activity code	MC Mechanical Completion	Date	2024-12-12
3.5 Action by	RM_CONSTR RM	Signature	

4 - PERFORMED ACTION

Name:

Date:

Signature:

5 - CLEARANCE CHECK

DONE

Name: Andrea Andreani

Date: 2025-01-30

Signature:

6- CLEARANCE APPROVAL

Name:

Date:

Signature:

ROSETTI MARINO CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30001714

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10001697	1.4 Discipline	ATEX
1.2 Item	ELF-200N1-02-L1-23	EMERGENCY LIGHT	
1.3 Subsystem	83-40	Normal Lighting Upper Deck	

2 - OBSERVATION

Missing traffolyte tag side instrument

Name: Andrea Andreani

Date: 2024-12-12

Signature:

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Andrea Andreani
3.4 Activity code	MC Mechanical Completion	Date	2024-12-12
3.5 Action by	RM_CONSTR RM	Signature	

4 - PERFORMED ACTION

Name:

Date:

Signature:

5 - CLEARANCE CHECK

DONE

Name: Eleonora Carotenuto

Date: 2024-12-27

Signature:

6- CLEARANCE APPROVAL

Name:

Date:

Signature:

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30001716

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10001673	1.4 Discipline	ATEX
1.2 Item	ELF-200N1-02-L1-18	NORMAL LIGHT	
1.3 Subsystem	83-40	Normal Lighting Upper Deck	

2 - OBSERVATION

Missing traffolyte tag side instrument

Name: Gabriele Bertuccelli

Date: 2024-12-12

Signature:

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Gabriele Bertuccelli
3.4 Activity code	MC Mechanical Completion	Date	2024-12-12
3.5 Action by	RM_CONSTR RM	Signature	

4 - PERFORMED ACTION

Name:

Date:

Signature:

5 - CLEARANCE CHECK

DONE

Name: Eleonora Carotenuto

Date: 2024-12-27

Signature:

6- CLEARANCE APPROVAL

Name:

Date:

Signature:

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30001717

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10001673	1.4 Discipline	ATEX
1.2 Item	ELF-200N1-02-L1-18	NORMAL LIGHT	
1.3 Subsystem	83-40	Normal Lighting Upper Deck	

2 - OBSERVATION

the support is not well secured against vibration. another bracket needs to be added.

Name: Gabriele Bertuccelli

Date: 2024-12-12

Signature:

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Gabriele Bertuccelli
3.4 Activity code	MC Mechanical Completion	Date	2024-12-12
3.5 Action by	RM_CONSTR RM	Signature	

4 - PERFORMED ACTION

Name:

Date:

Signature:

5 - CLEARANCE CHECK

Installation carried out as per typical 123A90-DDL-EL-DD-20091 and 123A90-DDL-IN-DD-40017 drawing. Eng states that no additional support is needed.

Name: Giovanni Tangianu

Date: 2025-03-07

Signature:

6- CLEARANCE APPROVAL

Name:

Date:

Signature:

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30001718

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10001673	1.4 Discipline	ATEX
1.2 Item	ELF-200N1-02-L1-18	NORMAL LIGHT	
1.3 Subsystem	83-40	Normal Lighting Upper Deck	

2 - OBSERVATION

Missing tag

Name: Gabriele Bertuccelli

Date: 2024-12-12

Signature:

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Gabriele Bertuccelli
3.4 Activity code	MC Mechanical Completion	Date	2024-12-12
3.5 Action by	RM_CONSTR RM	Signature	

4 - PERFORMED ACTION

Name:

Date:

Signature:

5 - CLEARANCE CHECK

DONE

Name: Eleonora Carotenuto

Date: 2024-12-31

Signature:

6- CLEARANCE APPROVAL

Name:

Date:

Signature:

ROSETTI MARINO CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30001873

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10001672	1.4 Discipline	ATEX
1.2 Item	ELF-200N1-02-L1-17	NORMAL LIGHT	
1.3 Subsystem	83-40	Normal Lighting Upper Deck	

2 - OBSERVATION

tag is missing

Name: Andrea Andreani

Date: 2024-12-14

Signature:

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Andrea Andreani
3.4 Activity code	MC Mechanical Completion	Date	2024-12-14
3.5 Action by	RM_CONSTR RM	Signature	

4 - PERFORMED ACTION

Name:

Date:

Signature:

5 - CLEARANCE CHECK

Done

Name: Luca Mussi

Date: 2024-12-19

Signature:

6- CLEARANCE APPROVAL

Name:

Date:

Signature:


ELF-200N1-02-L1-17

ROSETTI MARINO CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30001874

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10001672	1.4 Discipline	ATEX
1.2 Item	ELF-200N1-02-L1-17	NORMAL LIGHT	
1.3 Subsystem	83-40	Normal Lighting Upper Deck	

2 - OBSERVATION

Trafolite tag is missing

Name: Andrea Andreani

Date: 2024-12-14

Signature:

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Andrea Andreani
3.4 Activity code	MC Mechanical Completion	Date	2024-12-14
3.5 Action by	RM_CONSTR RM	Signature	

4 - PERFORMED ACTION

Name:

Date:

Signature:

5 - CLEARANCE CHECK

Done

Name: Luca Mussi

Date: 2024-12-19

Signature:

6- CLEARANCE APPROVAL

Name:

Date:

Signature:


ELF-200N1-02-L1-17

ROSETTI MARINO CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30001875

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10001672	1.4 Discipline	ATEX
1.2 Item	ELF-200N1-02-L1-17	NORMAL LIGHT	
1.3 Subsystem	83-40	Normal Lighting Upper Deck	

2 - OBSERVATION

Pole installation is not as per typical drawing 123A90-DDL-EL-DD-20091 rev 2 sheet 014 detail (it is not present the teflon sheet but teflon washers intead)

Name: Andrea Andreani

Date: 2024-12-14

Signature:

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Andrea Andreani
3.4 Activity code	MC Mechanical Completion	Date	2024-12-14
3.5 Action by	RM_CONSTR RM	Signature	

4 - PERFORMED ACTION

Name:

Date:

Signature:

5 - CLEARANCE CHECK

done

Name: Andrea Andreani

Date: 2024-12-19

Signature:

6- CLEARANCE APPROVAL

Name:

Date:

Signature:

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30001876

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10001672	1.4 Discipline	ATEX
1.2 Item	ELF-200N1-02-L1-17	NORMAL LIGHT	
1.3 Subsystem	83-40	Normal Lighting Upper Deck	

2 - OBSERVATION

The support is not well secured against vibration. another support needs to be added

Name: Andrea Andreani

Date: 2024-12-14

Signature:

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Andrea Andreani
3.4 Activity code	MC Mechanical Completion	Date	2024-12-14
3.5 Action by	RM_CONSTR RM	Signature	

4 - PERFORMED ACTION

Name:

Date:

Signature:

5 - CLEARANCE CHECK

Installation carried out as per typical 123A90-DDL-EL-DD-20091 and 123A90-DDL-IN-DD-40017 drawing. Eng states that no additional support is needed.

Name: Giovanni Tangianu

Date: 2025-03-07

Signature:

6- CLEARANCE APPROVAL

Name:

Date:

Signature:

ROSETTI MARINO CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30001877

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10001674	1.4 Discipline	ATEX
1.2 Item	ELF-200N1-02-L1-19	NORMAL LIGHT	
1.3 Subsystem	83-40	Normal Lighting Upper Deck	

2 - OBSERVATION

The support is not well secured against vibration. another support needs to be added

Name: Andrea Andreani

Date: 2024-12-14

Signature:

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Andrea Andreani
3.4 Activity code	MC Mechanical Completion	Date	2024-12-14
3.5 Action by	RM_CONSTR RM	Signature	

4 - PERFORMED ACTION

Name:

Date:

Signature:

5 - CLEARANCE CHECK

Installation carried out as per typical 123A90-DDL-EL-DD-20091 and 123A90-DDL-IN-DD-40017 drawing. Eng states that no additional support is needed.

Name: Giovanni Tangianu

Date: 2025-03-07

Signature:

6- CLEARANCE APPROVAL

Name:

Date:

Signature:

ROSETTI MARINO CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30001878

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10001674	1.4 Discipline	ATEX
1.2 Item	ELF-200N1-02-L1-19	NORMAL LIGHT	
1.3 Subsystem	83-40	Normal Lighting Upper Deck	

2 - OBSERVATION

Trafolite tag is missing

Name: Andrea Andreani

Date: 2024-12-14

Signature:

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Andrea Andreani
3.4 Activity code	MC Mechanical Completion	Date	2024-12-14
3.5 Action by	RM_CONSTR RM	Signature	

4 - PERFORMED ACTION

Name:

Date:

Signature:

5 - CLEARANCE CHECK

Done

Name: Luca Mussi

Date: 2024-12-19

Signature:

6- CLEARANCE APPROVAL

Name:

Date:

Signature:


ELF-200N1-02-L1-19

ROSETTI MARINO CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30001879

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10001674	1.4 Discipline	ATEX
1.2 Item	ELF-200N1-02-L1-19	NORMAL LIGHT	
1.3 Subsystem	83-40	Normal Lighting Upper Deck	

2 - OBSERVATION

Tag is missing

Name: Andrea Andreani

Date: 2024-12-14

Signature:

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Andrea Andreani
3.4 Activity code	MC Mechanical Completion	Date	2024-12-14
3.5 Action by	RM_CONSTR RM	Signature	

4 - PERFORMED ACTION

Name:

Date:

Signature:

5 - CLEARANCE CHECK

Done

Name: Luca Mussi

Date: 2024-12-19

Signature:

6- CLEARANCE APPROVAL

Name:

Date:

Signature:


ELF-200N1-02-L1-19

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30001880

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10001675	1.4 Discipline	ATEX
1.2 Item	ELF-200N1-02-L1-24	NORMAL LIGHT	
1.3 Subsystem	83-40	Normal Lighting Upper Deck	

2 - OBSERVATION

The support is not well secured against vibration. another support needs to be added

Name: Andrea Andreani

Date: 2024-12-14

Signature:

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Andrea Andreani
3.4 Activity code	MC Mechanical Completion	Date	2024-12-14
3.5 Action by	RM_CONSTR RM	Signature	

4 - PERFORMED ACTION

Name:

Date:

Signature:

5 - CLEARANCE CHECK

Installation carried out as per typical 123A90-DDL-EL-DD-20091 and 123A90-DDL-IN-DD-40017 drawing. Eng states that no additional support is needed.

Name: Giovanni Tangianu

Date: 2025-03-07

Signature:

6- CLEARANCE APPROVAL

Name:

Date:

Signature:

ROSETTI MARINO CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30001881

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10001675	1.4 Discipline	ATEX
1.2 Item	ELF-200N1-02-L1-24	NORMAL LIGHT	
1.3 Subsystem	83-40	Normal Lighting Upper Deck	

2 - OBSERVATION

Trafolite tag is missing

Name: Andrea Andreani

Date: 2024-12-14

Signature:

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Andrea Andreani
3.4 Activity code	MC Mechanical Completion	Date	2024-12-14
3.5 Action by	RM_CONSTR RM	Signature	

4 - PERFORMED ACTION

Name:

Date:

Signature:

5 - CLEARANCE CHECK

Done

Name: Luca Mussi

Date: 2024-12-19

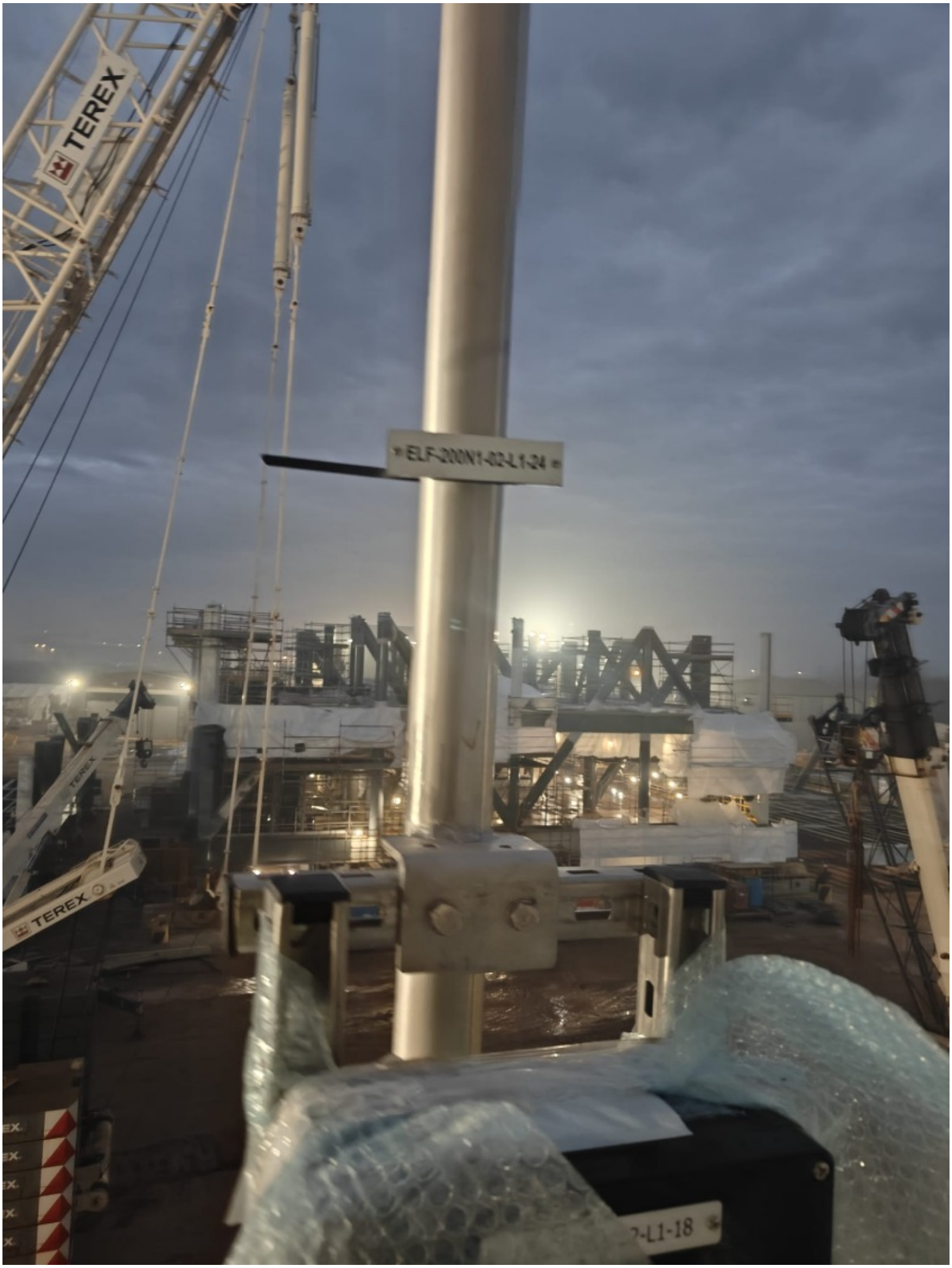
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6- CLEARANCE APPROVAL

Name:

Date:

Signature:


TEREX
ELF-200N1-02-L1-24
TEREX
TEREX
-L1-18

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30001882

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10001675	1.4 Discipline	ATEX
1.2 Item	ELF-200N1-02-L1-24	NORMAL LIGHT	
1.3 Subsystem	83-40	Normal Lighting Upper Deck	

2 - OBSERVATION

Tag is missing

Name: Andrea Andreani

Date: 2024-12-14

Signature:

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Andrea Andreani
3.4 Activity code	MC Mechanical Completion	Date	2024-12-14
3.5 Action by	RM_CONSTR RM	Signature	

4 - PERFORMED ACTION

Name:

Date:

Signature:

5 - CLEARANCE CHECK

Done

Name: Luca Mussi

Date: 2024-12-19

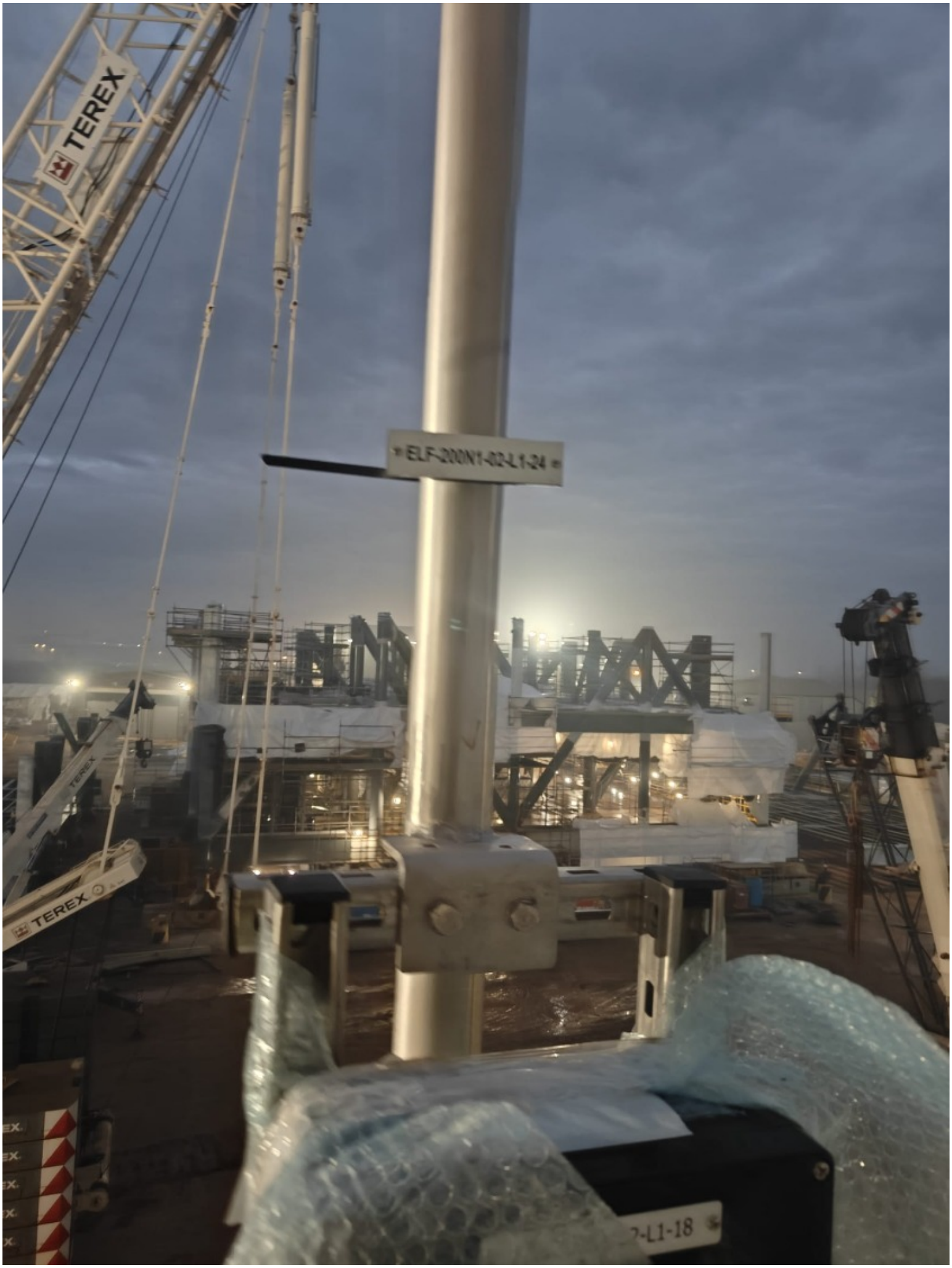
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6- CLEARANCE APPROVAL

Name:

Date:

Signature:


TEREX
ELF-200N1-02-L1-24
TEREX
TEREX
-L1-18

ROSETTI MARINO CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30001883

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10001676	1.4 Discipline	ATEX
1.2 Item	ELF-200N1-02-L1-25	NORMAL LIGHT	
1.3 Subsystem	83-40	Normal Lighting Upper Deck	

2 - OBSERVATION

The support is not well secured against vibration. another support needs to be added

Name: Andrea Andreani

Date: 2024-12-14

Signature:

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Andrea Andreani
3.4 Activity code	MC Mechanical Completion	Date	2024-12-14
3.5 Action by	RM_CONSTR RM	Signature	

4 - PERFORMED ACTION

Name:

Date:

Signature:

5 - CLEARANCE CHECK

Installation carried out as per typical 123A90-DDL-EL-DD-20091 and 123A90-DDL-IN-DD-40017 drawing. Eng states that no additional support is needed.

Name: Giovanni Tangianu

Date: 2025-03-07

Signature:

6- CLEARANCE APPROVAL

Name:

Date:

Signature:

ROSETTI MARINO CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30001884

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10001676	1.4 Discipline	ATEX
1.2 Item	ELF-200N1-02-L1-25	NORMAL LIGHT	
1.3 Subsystem	83-40	Normal Lighting Upper Deck	

2 - OBSERVATION

Pole installation is not as per typical drawing 123A90-DDL-EL-DD-20091 rev 2 sheet 014 detail (it is not present the teflon sheet but teflon washers intead)

Name: Andrea Andreani

Date: 2024-12-14

Signature:

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Andrea Andreani
3.4 Activity code	MC Mechanical Completion	Date	2024-12-14
3.5 Action by	RM_CONSTR RM	Signature	

4 - PERFORMED ACTION

Name:

Date:

Signature:

5 - CLEARANCE CHECK

done

Name: Andrea Andreani

Date: 2024-12-19

Signature:

6- CLEARANCE APPROVAL

Name:

Date:

Signature:

ROSETTI MARINO CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30001885

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10001676	1.4 Discipline	ATEX
1.2 Item	ELF-200N1-02-L1-25	NORMAL LIGHT	
1.3 Subsystem	83-40	Normal Lighting Upper Deck	

2 - OBSERVATION

Trafolite tag is missing

Name: Andrea Andreani

Date: 2024-12-14

Signature:

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Andrea Andreani
3.4 Activity code	MC Mechanical Completion	Date	2024-12-14
3.5 Action by	RM_CONSTR RM	Signature	

4 - PERFORMED ACTION

Name:

Date:

Signature:

5 - CLEARANCE CHECK

DONE

Name: Luca Mussi

Date: 2024-12-19

Signature:

6- CLEARANCE APPROVAL

Name:

Date:

Signature:


ELF-200N1-02-L1-25
EJB-200N1-02-L1-19

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30001886

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10001676	1.4 Discipline	ATEX
1.2 Item	ELF-200N1-02-L1-25	NORMAL LIGHT	
1.3 Subsystem	83-40	Normal Lighting Upper Deck	

2 - OBSERVATION

Tag is missing

Name: Andrea Andreani

Date: 2024-12-14

Signature:

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Andrea Andreani
3.4 Activity code	MC Mechanical Completion	Date	2024-12-14
3.5 Action by	RM_CONSTR RM	Signature	

4 - PERFORMED ACTION

Name:

Date:

Signature:

5 - CLEARANCE CHECK

Done

Name: Luca Mussi

Date: 2024-12-19

Signature:

6- CLEARANCE APPROVAL

Name:

Date:

Signature:


ELF-200N1-02-L1-25
EJB-200N1-02-L1-19

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30001425

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10000695	1.4 Discipline	Electrical
1.2 Item	P-EJB-200N1-02-L1-15	Normal Lighting JB / Normal Lighting JB	
1.3 Subsystem	83-40	Normal Lighting Upper Deck	

2 - OBSERVATION

Cable rounting clashes with sharp edge of cable tray

Name: Luca Mussi

Date: 2024-12-06

Signature:

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Luca Mussi
3.4 Activity code	MC Mechanical Completion	Date	2024-12-06
3.5 Action by	RM_CONSTR RM	Signature	

4 - PERFORMED ACTION

Name:

Date:

Signature:

5 - CLEARANCE CHECK

DONE

Name: Andrea Andreani

Date: 2025-01-20

Signature:

6- CLEARANCE APPROVAL

Name:

Date:

Signature:



ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30001426

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10000695	1.4 Discipline	Electrical
1.2 Item	P-EJB-200N1-02-L1-15	Normal Lighting JB / Normal Lighting JB	
1.3 Subsystem	83-40	Normal Lighting Upper Deck	

2 - OBSERVATION

On EJB-200N1-02-L2-15 side, core identification tags are missing for all wires.

Name: Luca Mussi

Date: 2024-12-06

Signature:

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Luca Mussi
3.4 Activity code	MC Mechanical Completion	Date	2024-12-06
3.5 Action by	RM_CONSTR RM	Signature	

4 - PERFORMED ACTION

Name:

Date:

Signature:

5 - CLEARANCE CHECK

DONE

Name: Andrea Andreani

Date: 2025-02-05

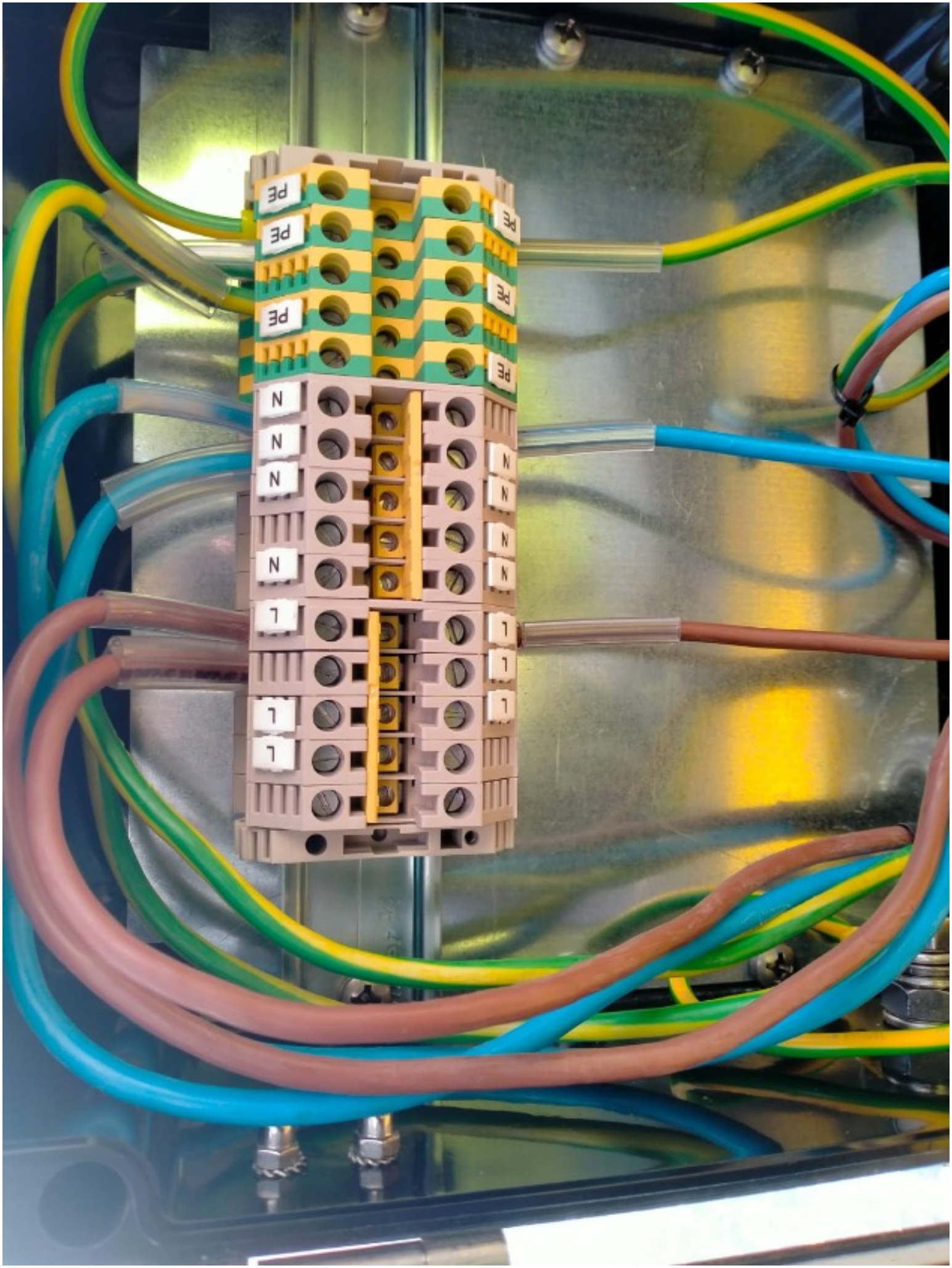
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6- CLEARANCE APPROVAL

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Date:

Signature:


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ROSETTI MARINO CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30001427

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10000695	1.4 Discipline	Electrical
1.2 Item	P-EJB-200N1-02-L1-15	Normal Lighting JB / Normal Lighting JB	
1.3 Subsystem	83-40	Normal Lighting Upper Deck	

2 - OBSERVATION

On both JBs side, core labelling tag is missing

Name: Luca Mussi

Date: 2024-12-06

Signature:

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Luca Mussi
3.4 Activity code	MC Mechanical Completion	Date	2024-12-06
3.5 Action by	RM_CONSTR RM	Signature	

4 - PERFORMED ACTION

Name:

Date:

Signature:

5 - CLEARANCE CHECK

Done

Name: Gabriele Bertuccelli

Date: 2025-01-24

Signature:

6- CLEARANCE APPROVAL

Name:

Date:

Signature:

ROSETTI MARINO CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30001447

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10001355	1.4 Discipline	Electrical
1.2 Item	ELF-200N1-02-L1-21	NORMAL LIGHT	
1.3 Subsystem	83-40	Normal Lighting Upper Deck	

2 - OBSERVATION

Pole installation is not as per typical drawing 123A90-DDL-EL-DD-20091 rev 2 sheet 014 detail (it is not present the teflon sheet but teflon washers intead)

Name: Luca Mussi

Date: 2024-12-06

Signature:

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Luca Mussi
3.4 Activity code	MC Mechanical Completion	Date	2024-12-06
3.5 Action by	RM_CONSTR RM	Signature	

4 - PERFORMED ACTION

Name:

Date:

Signature:

5 - CLEARANCE CHECK

done

Name: Andrea Andreani

Date: 2024-12-19

Signature:

6- CLEARANCE APPROVAL

Name:

Date:

Signature:



ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30001448

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10001355	1.4 Discipline	Electrical
1.2 Item	ELF-200N1-02-L1-21	NORMAL LIGHT	
1.3 Subsystem	83-40	Normal Lighting Upper Deck	

2 - OBSERVATION

Light tag is missing

Name: Luca Mussi

Date: 2024-12-06

Signature:

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Luca Mussi
3.4 Activity code	MC Mechanical Completion	Date	2024-12-06
3.5 Action by	RM_CONSTR RM	Signature	

4 - PERFORMED ACTION

Name:

Date:

Signature:

5 - CLEARANCE CHECK

Done

Name: Gabriele Bertuccelli

Date: 2025-01-24

Signature:

6- CLEARANCE APPROVAL

Name:

Date:

Signature:



ROSETTI MARINO CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30001449

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10001355	1.4 Discipline	Electrical
1.2 Item	ELF-200N1-02-L1-21	NORMAL LIGHT	
1.3 Subsystem	83-40	Normal Lighting Upper Deck	

2 - OBSERVATION

The support is not well secured against vibration. another support needs to be added

Name: Luca Mussi

Date: 2024-12-06

Signature:

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Luca Mussi
3.4 Activity code	MC Mechanical Completion	Date	2024-12-06
3.5 Action by	RM_CONSTR RM	Signature	

4 - PERFORMED ACTION

Name:

Date:

Signature:

5 - CLEARANCE CHECK

Installation carried out as per typical 123A90-DDL-EL-DD-20091 and 123A90-DDL-IN-DD-40017 drawing. Eng states that no additional support is needed.

Name: Giovanni Tangianu

Date: 2025-03-07

Signature:

6- CLEARANCE APPROVAL

Name:

Date:

Signature:

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30001451

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10001355	1.4 Discipline	Electrical
1.2 Item	ELF-200N1-02-L1-21	NORMAL LIGHT	
1.3 Subsystem	83-40	Normal Lighting Upper Deck	

2 - OBSERVATION

Waterproof washer is missing on the plug

Name: Luca Mussi

Date: 2024-12-06

Signature:

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Luca Mussi
3.4 Activity code	MC Mechanical Completion	Date	2024-12-06
3.5 Action by	RM_CONSTR RM	Signature	

4 - PERFORMED ACTION

Name:

Date:

Signature:

5 - CLEARANCE CHECK

DONE

Name: Eleonora Carotenuto

Date: 2025-01-02

Signature:

6- CLEARANCE APPROVAL

Name:

Date:

Signature:


Lifex

ROSETTI MARINO CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30001455

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10001354	1.4 Discipline	Electrical
1.2 Item	ELF-200N1-02-L1-20	NORMAL LIGHT	
1.3 Subsystem	83-40	Normal Lighting Upper Deck	

2 - OBSERVATION

The support is not well secured against vibration. another support needs to be added

Name: Luca Mussi

Date: 2024-12-06

Signature:

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Luca Mussi
3.4 Activity code	MC Mechanical Completion	Date	2024-12-06
3.5 Action by	RM_CONSTR RM	Signature	

4 - PERFORMED ACTION

Name:

Date:

Signature:

5 - CLEARANCE CHECK

Installation carried out as per typical 123A90-DDL-EL-DD-20091 and 123A90-DDL-IN-DD-40017 drawing. Eng states that no additional support is needed.

Name: Giovanni Tangianu

Date: 2025-03-07

Signature:

6- CLEARANCE APPROVAL

Name:

Date:

Signature:

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30001456

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10001354	1.4 Discipline	Electrical
1.2 Item	ELF-200N1-02-L1-20	NORMAL LIGHT	
1.3 Subsystem	83-40	Normal Lighting Upper Deck	

2 - OBSERVATION

Light tag is missing

Name: Luca Mussi

Date: 2024-12-06

Signature:

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Luca Mussi
3.4 Activity code	MC Mechanical Completion	Date	2024-12-06
3.5 Action by	RM_CONSTR RM	Signature	

4 - PERFORMED ACTION

Name:

Date:

Signature:

5 - CLEARANCE CHECK

Done

Name: Gabriele Bertuccelli

Date: 2025-01-24

Signature:

6- CLEARANCE APPROVAL

Name:

Date:

Signature:

ROSETTI MARINO CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30001459

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10001354	1.4 Discipline	Electrical
1.2 Item	ELF-200N1-02-L1-20	NORMAL LIGHT	
1.3 Subsystem	83-40	Normal Lighting Upper Deck	

2 - OBSERVATION

Pole installation is not as per typical drawing 123A90-DDL-EL-DD-20091 rev 2 sheet 014 detail (it is not present the teflon sheet but teflon washers intead)

Name: Luca Mussi

Date: 2024-12-06

Signature:

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Luca Mussi
3.4 Activity code	MC Mechanical Completion	Date	2024-12-06
3.5 Action by	RM_CONSTR RM	Signature	

4 - PERFORMED ACTION

Name:

Date:

Signature:

5 - CLEARANCE CHECK

done

Name: Andrea Andreani

Date: 2024-12-19

Signature:

6- CLEARANCE APPROVAL

Name:

Date:

Signature:



ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30001463

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10000694	1.4 Discipline	Electrical
1.2 Item	P-ELF-200N1-02-L1-20		Normal Lighting JB / Normal Lighting Fixture
1.3 Subsystem	83-40		Normal Lighting Upper Deck

2 - OBSERVATION

On light side cable labelling is missing

Name: Luca Mussi

Date: 2024-12-06

Signature:

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Luca Mussi
3.4 Activity code	MC Mechanical Completion	Date	2024-12-06
3.5 Action by	RM_CONSTR RM	Signature	

4 - PERFORMED ACTION

Name:

Date:

Signature:

5 - CLEARANCE CHECK

Done

Name: Gabriele Bertuccelli

Date: 2025-01-24

Signature:

6- CLEARANCE APPROVAL

Name:

Date:

Signature:

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ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30001464

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10000694	1.4 Discipline	Electrical
1.2 Item	P-ELF-200N1-02-L1-20		Normal Lighting JB / Normal Lighting Fixture
1.3 Subsystem	83-40		Normal Lighting Upper Deck

2 - OBSERVATION

Core identification tags are missing for all wires

Name: Luca Mussi

Date: 2024-12-06

Signature:

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Luca Mussi
3.4 Activity code	MC Mechanical Completion	Date	2024-12-06
3.5 Action by	RM_CONSTR RM	Signature	

4 - PERFORMED ACTION

Name:

Date:

Signature:

5 - CLEARANCE CHECK

DONE

Name: Andrea Andreani

Date: 2025-02-05

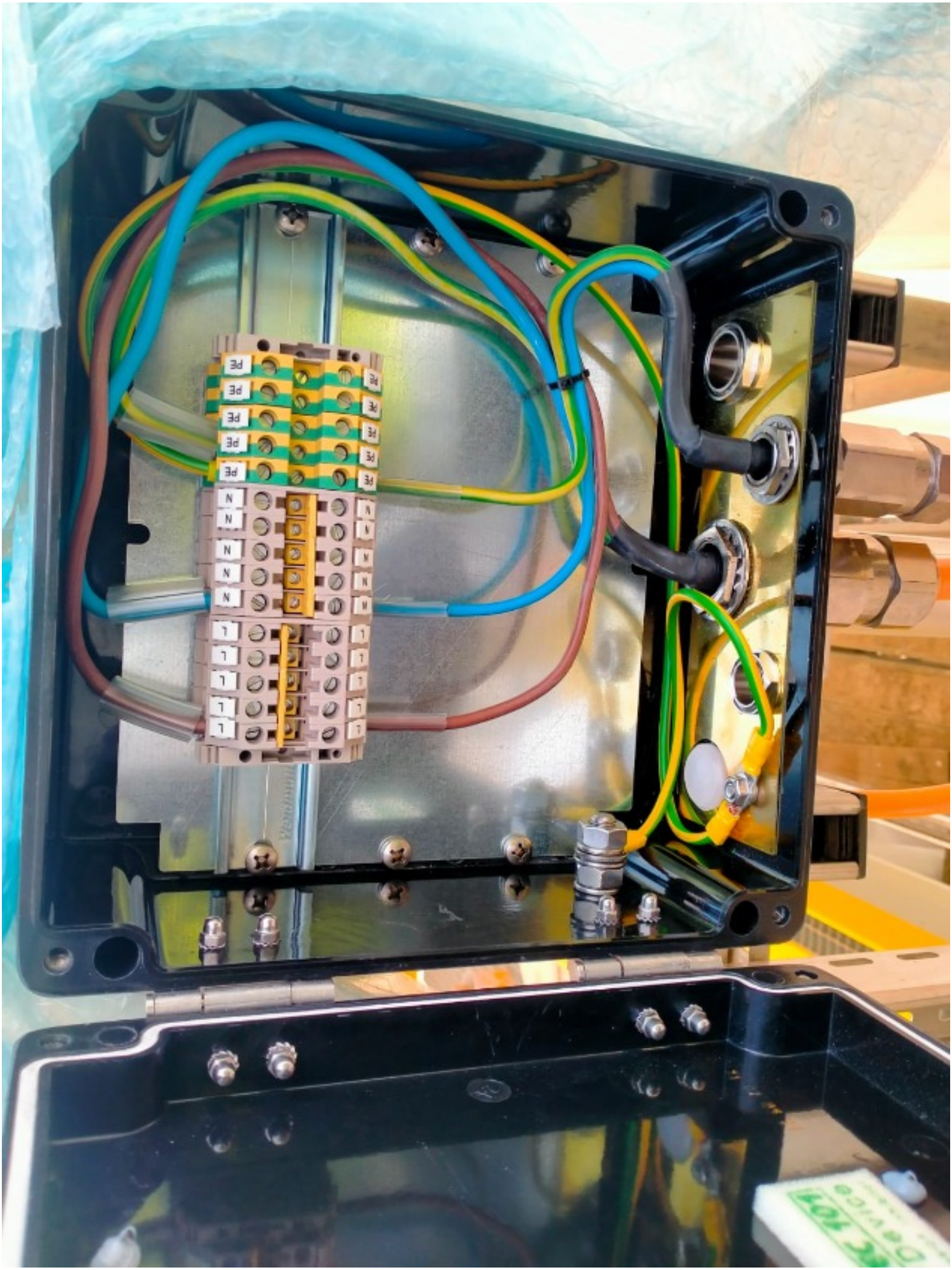
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6- CLEARANCE APPROVAL

Name:

Date:

Signature:


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ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30001465

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10000694	1.4 Discipline	Electrical
1.2 Item	P-ELF-200N1-02-L1-20	Normal Lighting JB / Normal Lighting Fixture	
1.3 Subsystem	83-40	Normal Lighting Upper Deck	

2 - OBSERVATION

Cable gland installation is not as per drawing 123A90-DDL-EL-DD-20091 rev 2 sheet 014 pos. 4 (cable gland earthing tag is missing)

Name: Luca Mussi
Date: 2024-12-06
Signature:

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	A PL A	Name	Luca Mussi
3.4 Activity code	MC Mechanical Completion	Date	2024-12-06
3.5 Action by	RM_CONSTR RM	Signature	

4 - PERFORMED ACTION

Name:
Date:
Signature:

5 - CLEARANCE CHECK

RLMU done for 123A90-FDL-EL-DD-20091, sh.14, Rev.2

Name: Eleonora Carotenuto
Date: 2024-12-14
Signature:

6- CLEARANCE APPROVAL

Name:
Date:
Signature:

ROSETTI MARINO CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30001466

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10000694	1.4 Discipline	Electrical
1.2 Item	P-ELF-200N1-02-L1-20	Normal Lighting JB / Normal Lighting Fixture	
1.3 Subsystem	83-40	Normal Lighting Upper Deck	

2 - OBSERVATION

Cable gland installation is not as per drawing 123A90-DDL-EL-DD-20091 rev 2 sheet 014 pos. 4. Cable is entering the Light cable gland downwards while it should be upwards.

Name: Luca Mussi

Date: 2024-12-06

Signature:

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Luca Mussi
3.4 Activity code	MC Mechanical Completion	Date	2024-12-06
3.5 Action by	RM_CONSTR RM	Signature	

4 - PERFORMED ACTION

Name:

Date:

Signature:

5 - CLEARANCE CHECK

DONE

Name: Andrea Andreani

Date: 2025-02-25

Signature:

6- CLEARANCE APPROVAL

Name:

Date:

Signature:

ROSETTI MARINO CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30001467

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10000696	1.4 Discipline	Electrical
1.2 Item	P-ELF-200N1-02-L1-21	Normal Lighting JB / Normal Lighting Fixture	
1.3 Subsystem	83-40	Normal Lighting Upper Deck	

2 - OBSERVATION

Panduits on both sides (JB and light) are missing

Name: Luca Mussi

Date: 2024-12-06

Signature:

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Luca Mussi
3.4 Activity code	MC Mechanical Completion	Date	2024-12-06
3.5 Action by	RM_CONSTR RM	Signature	

4 - PERFORMED ACTION

Name:

Date:

Signature:

5 - CLEARANCE CHECK

DONE

Name: Andrea Andreani

Date: 2025-01-30

Signature:

6- CLEARANCE APPROVAL

Name:

Date:

Signature:


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FIDI 21ATEX 0090X
IECEx FIDI 21.0015X
Year of construction: 2024
IP66



ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30001468

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10000696	1.4 Discipline	Electrical
1.2 Item	P-ELF-200N1-02-L1-21		Normal Lighting JB / Normal Lighting Fixture
1.3 Subsystem	83-40		Normal Lighting Upper Deck

2 - OBSERVATION

Core identification tags are missing for all wires

Name: Luca Mussi

Date: 2024-12-06

Signature:

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Luca Mussi
3.4 Activity code	MC Mechanical Completion	Date	2024-12-06
3.5 Action by	RM_CONSTR RM	Signature	

4 - PERFORMED ACTION

Name:

Date:

Signature:

5 - CLEARANCE CHECK

DONE

Name: Andrea Andreani

Date: 2025-02-05

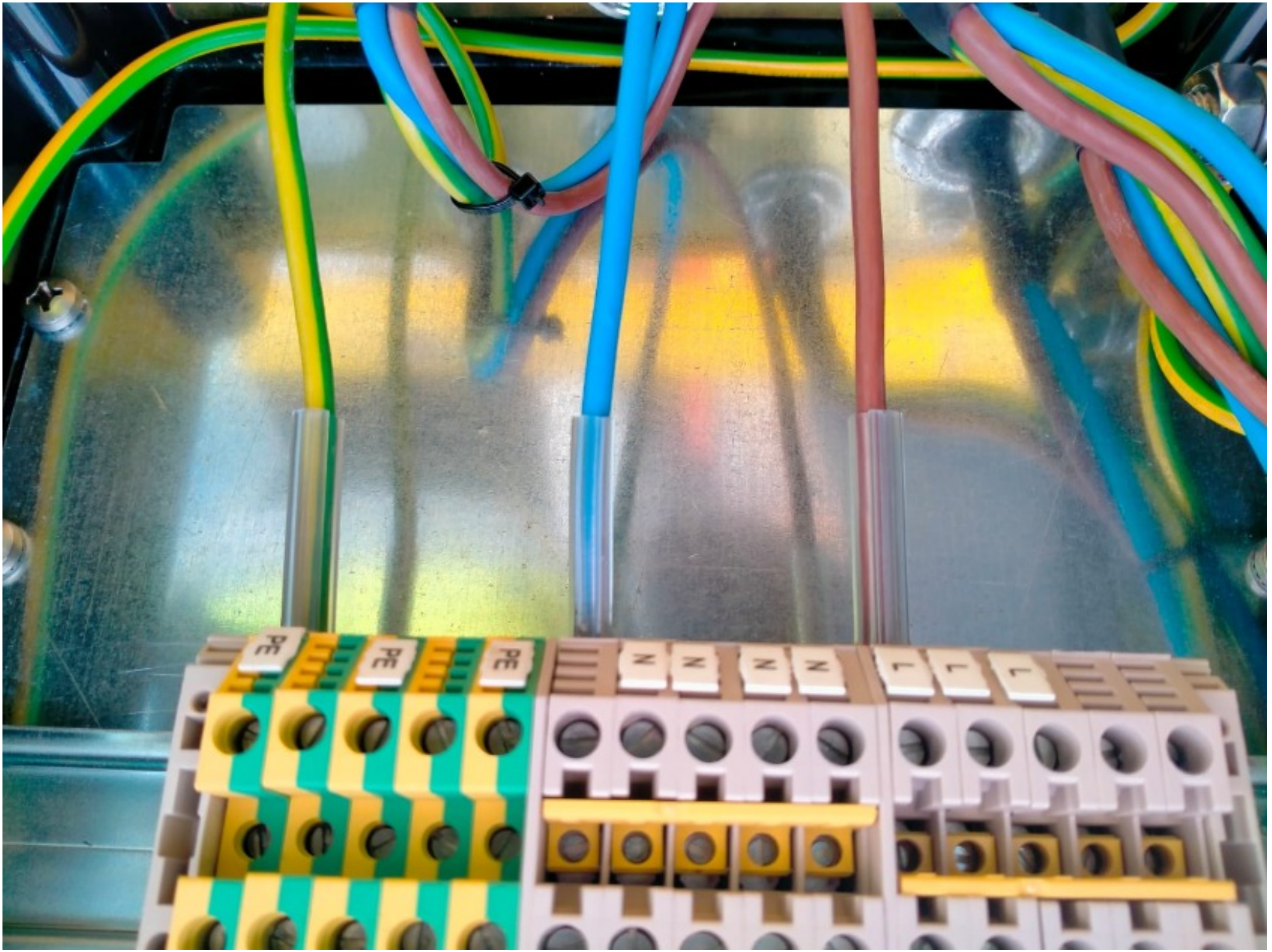
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6- CLEARANCE APPROVAL

Name:

Date:

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ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30001469

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10000696	1.4 Discipline	Electrical
1.2 Item	P-ELF-200N1-02-L1-21	Normal Lighting JB / Normal Lighting Fixture	
1.3 Subsystem	83-40	Normal Lighting Upper Deck	

2 - OBSERVATION

Cable gland installation is not as per drawing 123A90-DDL-EL-DD-20091 rev 2 sheet 014 pos. 4. Cable is entering the Light cable gland downwards while it should be upwards.

Name: Luca Mussi
Date: 2024-12-06
Signature:

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Luca Mussi
3.4 Activity code	MC Mechanical Completion	Date	2024-12-06
3.5 Action by	RM_CONSTR RM	Signature	

4 - PERFORMED ACTION

Name:
Date:
Signature:

5 - CLEARANCE CHECK

Done

Name: Gabriele Bertuccelli
Date: 2025-02-04
Signature:

6- CLEARANCE APPROVAL

Name:
Date:
Signature:



ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30001470

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10000696	1.4 Discipline	Electrical
1.2 Item	P-ELF-200N1-02-L1-21	Normal Lighting JB / Normal Lighting Fixture	
1.3 Subsystem	83-40	Normal Lighting Upper Deck	

2 - OBSERVATION

Cable gland installation is not as per drawing 123A90-DDL-EL-DD-20091 rev 2 sheet 014 pos. 4 (cable gland earthing tag is missing)

Name: Luca Mussi
Date: 2024-12-06
Signature:

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	A PL A	Name	Luca Mussi
3.4 Activity code	MC Mechanical Completion	Date	2024-12-06
3.5 Action by	RM_CONSTR RM	Signature	

4 - PERFORMED ACTION

Name:
Date:
Signature:

5 - CLEARANCE CHECK

RLMU done for 123A90-FDL-EL-DD-20091, sh.14, Rev.2

Name: Eleonora Carotenuto
Date: 2024-12-14
Signature:

6- CLEARANCE APPROVAL

Name:
Date:
Signature:


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ROSETTI MARINO CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30001471

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10001338	1.4 Discipline	Electrical
1.2 Item	ELF-200N1-02-L1-02	NORMAL LIGHT	
1.3 Subsystem	83-40	Normal Lighting Upper Deck	

2 - OBSERVATION

missing tag

Name: Andrea Andreani

Date: 2024-12-06

Signature:

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Andrea Andreani
3.4 Activity code	MC Mechanical Completion	Date	2024-12-06
3.5 Action by	RM_CONSTR RM	Signature	

4 - PERFORMED ACTION

Name:

Date:

Signature:

5 - CLEARANCE CHECK

DONE

Name: Andrea Andreani

Date: 2025-01-30

Signature:

6- CLEARANCE APPROVAL

Name:

Date:

Signature:

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30001472

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10001338	1.4 Discipline	Electrical
1.2 Item	ELF-200N1-02-L1-02	NORMAL LIGHT	
1.3 Subsystem	83-40	Normal Lighting Upper Deck	

2 - OBSERVATION

Waterproof washer is missing on the plug

Name: Andrea Andreani

Date: 2024-12-06

Signature:

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Andrea Andreani
3.4 Activity code	MC Mechanical Completion	Date	2024-12-06
3.5 Action by	RM_CONSTR RM	Signature	

4 - PERFORMED ACTION

Name:

Date:

Signature:

5 - CLEARANCE CHECK

DONE

Name: Andrea Andreani

Date: 2025-02-05

Signature:

6- CLEARANCE APPROVAL

Name:

Date:

Signature:

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30001473

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10000663	1.4 Discipline	Electrical
1.2 Item	P-ELF-200N1-02-L1-02	Normal Lighting Fixture / Normal Lighting Fixture	
1.3 Subsystem	83-40	Normal Lighting Upper Deck	

2 - OBSERVATION

the cable is damaged by cold flow (cable damaged termination to be redone)

Name: Andrea Andreani

Date: 2024-12-06

Signature:

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	A PL A	Name	Andrea Andreani
3.4 Activity code	MC Mechanical Completion	Date	2024-12-06
3.5 Action by	RM_CONSTR RM	Signature	

4 - PERFORMED ACTION

Name:

Date:

Signature:

5 - CLEARANCE CHECK

DONE

Name: Andrea Andreani

Date: 2025-01-20

Signature:

6- CLEARANCE APPROVAL

Name:

Date:

Signature:

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30001474

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10000663	1.4 Discipline	Electrical
1.2 Item	P-ELF-200N1-02-L1-02	Normal Lighting Fixture / Normal Lighting Fixture	
1.3 Subsystem	83-40	Normal Lighting Upper Deck	

2 - OBSERVATION

cable gland earthing tag is missing

Name: Andrea Andreani

Date: 2024-12-06

Signature:

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	A PL A	Name	Andrea Andreani
3.4 Activity code	MC Mechanical Completion	Date	2024-12-06
3.5 Action by	RM_CONSTR RM	Signature	

4 - PERFORMED ACTION

Name:

Date:

Signature:

5 - CLEARANCE CHECK

RLMU done for 123A90-FDL-EL-DD-20091, sh.14, Rev.2

Name: Eleonora Carotenuto

Date: 2024-12-14

Signature:

6- CLEARANCE APPROVAL

Name:

Date:

Signature:

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30001475

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10000663	1.4 Discipline	Electrical
1.2 Item	P-ELF-200N1-02-L1-02	Normal Lighting Fixture / Normal Lighting Fixture	
1.3 Subsystem	83-40	Normal Lighting Upper Deck	

2 - OBSERVATION

Cable is entering the Light cable gland downwards while it should be upwards.

Name: Andrea Andreani
Date: 2024-12-06
Signature:

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Andrea Andreani
3.4 Activity code	MC Mechanical Completion	Date	2024-12-06
3.5 Action by	RM_CONSTR RM	Signature	

4 - PERFORMED ACTION

Name:
Date:
Signature:

5 - CLEARANCE CHECK

Done

Name: Gabriele Bertuccelli
Date: 2025-02-04
Signature:

6- CLEARANCE APPROVAL

Name:
Date:
Signature:

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30001476

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10000696	1.4 Discipline	Electrical
1.2 Item	P-ELF-200N1-02-L1-21	Normal Lighting JB / Normal Lighting Fixture	
1.3 Subsystem	83-40	Normal Lighting Upper Deck	

2 - OBSERVATION

On JB side, an adapter is present on tha cable gland (the adapter is not present on the cable list)

Name: Luca Mussi

Date: 2024-12-06

Signature:

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	A PL A	Name	Luca Mussi
3.4 Activity code	MC Mechanical Completion	Date	2024-12-06
3.5 Action by	RM_CONSTR RM	Signature	

4 - PERFORMED ACTION

Name:

Date:

Signature:

5 - CLEARANCE CHECK

Replaced

Name: Eleonora Carotenuto

Date: 2025-01-16

Signature:

6- CLEARANCE APPROVAL

Name:

Date:

Signature:


22-11-20

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30001477

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10000663	1.4 Discipline	Electrical
1.2 Item	P-ELF-200N1-02-L1-02	Normal Lighting Fixture / Normal Lighting Fixture	
1.3 Subsystem	83-40	Normal Lighting Upper Deck	

2 - OBSERVATION

missing cable labelling on both instrument and JB sides

Name: Andrea Andreani

Date: 2024-12-06

Signature:

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Andrea Andreani
3.4 Activity code	MC Mechanical Completion	Date	2024-12-06
3.5 Action by	RM_CONSTR RM	Signature	

4 - PERFORMED ACTION

Name:

Date:

Signature:

5 - CLEARANCE CHECK

DONE

Name: Andrea Andreani

Date: 2025-01-30

Signature:

6- CLEARANCE APPROVAL

Name:

Date:

Signature:

ROSETTI MARINO CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30001478

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10001338	1.4 Discipline	Electrical
1.2 Item	ELF-200N1-02-L1-02	NORMAL LIGHT	
1.3 Subsystem	83-40	Normal Lighting Upper Deck	

2 - OBSERVATION

The support is not well secured against vibration. another support needs to be added

Name: Andrea Andreani

Date: 2024-12-06

Signature:

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Andrea Andreani
3.4 Activity code	MC Mechanical Completion	Date	2024-12-06
3.5 Action by	RM_CONSTR RM	Signature	

4 - PERFORMED ACTION

Name:

Date:

Signature:

5 - CLEARANCE CHECK

Installation carried out as per typical 123A90-DDL-EL-DD-20091 and 123A90-DDL-IN-DD-40017 drawing. Eng states that no additional support is needed.

Name: Giovanni Tangianu

Date: 2025-03-07

Signature:

6- CLEARANCE APPROVAL

Name:

Date:

Signature:

ROSETTI MARINO CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30001479

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10001338	1.4 Discipline	Electrical
1.2 Item	ELF-200N1-02-L1-02	NORMAL LIGHT	
1.3 Subsystem	83-40	Normal Lighting Upper Deck	

2 - OBSERVATION

Pole installation is not as per typical drawing 123A90-DDL-EL-DD-20091 rev 2 sheet 014 detail (it is not present the teflon sheet but teflon washers intead)

Name: Andrea Andreani

Date: 2024-12-06

Signature:

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Andrea Andreani
3.4 Activity code	MC Mechanical Completion	Date	2024-12-06
3.5 Action by	RM_CONSTR RM	Signature	

4 - PERFORMED ACTION

Name:

Date:

Signature:

5 - CLEARANCE CHECK

Installed.

Name: Giovanni Tangianu

Date: 2024-12-28

Signature:

6- CLEARANCE APPROVAL

Name:

Date:

Signature:

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30001485

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10000692	1.4 Discipline	Electrical
1.2 Item	P-ELF-200N1-02-L1-19		Normal Lighting JB / Normal Lighting Fixture
1.3 Subsystem	83-40		Normal Lighting Upper Deck

2 - OBSERVATION

On JB side, cable labelling is missing

Name: Luca Mussi

Date: 2024-12-06

Signature:

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Luca Mussi
3.4 Activity code	MC Mechanical Completion	Date	2024-12-06
3.5 Action by	RM_CONSTR RM	Signature	

4 - PERFORMED ACTION

Name:

Date:

Signature:

5 - CLEARANCE CHECK

Done

Name: Gabriele Bertuccelli

Date: 2025-01-24

Signature:

6- CLEARANCE APPROVAL

Name:

Date:

Signature:


Life

ROSETTI MARINO CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30001487

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10000692	1.4 Discipline	Electrical
1.2 Item	P-ELF-200N1-02-L1-19	Normal Lighting JB / Normal Lighting Fixture	
1.3 Subsystem	83-40	Normal Lighting Upper Deck	

2 - OBSERVATION

On JB side, core identification tags are missing for all wires

Name: Luca Mussi

Date: 2024-12-06

Signature:

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Luca Mussi
3.4 Activity code	MC Mechanical Completion	Date	2024-12-06
3.5 Action by	RM_CONSTR RM	Signature	

4 - PERFORMED ACTION

Name:

Date:

Signature:

5 - CLEARANCE CHECK

DONE

Name: Andrea Andreani

Date: 2025-02-05

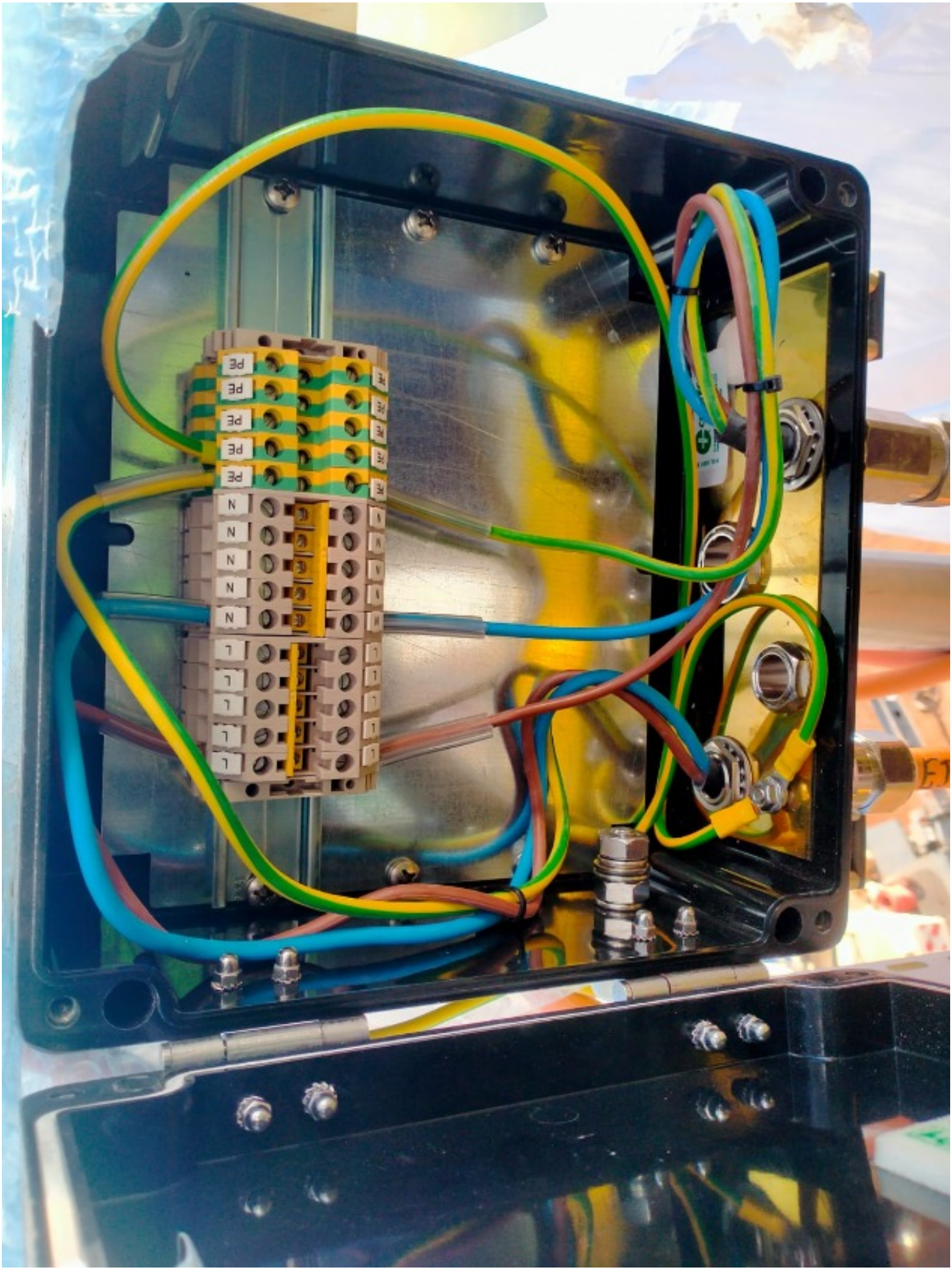
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6- CLEARANCE APPROVAL

Name:

Date:

Signature:


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ROSETTI MARINO CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30001489

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10000692	1.4 Discipline	Electrical
1.2 Item	P-ELF-200N1-02-L1-19	Normal Lighting JB / Normal Lighting Fixture	
1.3 Subsystem	83-40	Normal Lighting Upper Deck	

2 - OBSERVATION

Cable gland installation is not as per drawing 123A90-DDL-EL-DD-20091 rev 2 sheet 014 pos. 4. Cable is entering the Light cable gland downwards while it should be upwards.

Name: Luca Mussi

Date: 2024-12-06

Signature:

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Luca Mussi
3.4 Activity code	MC Mechanical Completion	Date	2024-12-06
3.5 Action by	RM_CONSTR RM	Signature	

4 - PERFORMED ACTION

Name:

Date:

Signature:

5 - CLEARANCE CHECK

Done

Name: Gabriele Bertuccelli

Date: 2025-02-04

Signature:

6- CLEARANCE APPROVAL

Name:

Date:

Signature:


Life

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30001490

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10000692	1.4 Discipline	Electrical
1.2 Item	P-ELF-200N1-02-L1-19	Normal Lighting JB / Normal Lighting Fixture	
1.3 Subsystem	83-40	Normal Lighting Upper Deck	

2 - OBSERVATION

Cable gland installation is not as per drawing 123A90-DDL-EL-DD-20091 rev 2 sheet 014 pos. 4 (cable gland earthing tag is missing)

Name: Luca Mussi
Date: 2024-12-06
Signature:

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	A PL A	Name	Luca Mussi
3.4 Activity code	MC Mechanical Completion	Date	2024-12-06
3.5 Action by	RM_CONSTR RM	Signature	

4 - PERFORMED ACTION

Name:
Date:
Signature:

5 - CLEARANCE CHECK

RLMU done for 123A90-FDL-EL-DD-20091, sh.14, Rev.2

Name: Eleonora Carotenuto
Date: 2024-12-14
Signature:

6- CLEARANCE APPROVAL

Name:
Date:
Signature:

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30001494

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10000700	1.4 Discipline	Electrical
1.2 Item	P-ELF-200N1-02-L1-23		Normal Lighting JB / Normal Lighting Fixture
1.3 Subsystem	83-40		Normal Lighting Upper Deck

2 - OBSERVATION

On light side, cable labelling is missing

Name: Luca Mussi

Date: 2024-12-06

Signature:

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Luca Mussi
3.4 Activity code	MC Mechanical Completion	Date	2024-12-06
3.5 Action by	RM_CONSTR RM	Signature	

4 - PERFORMED ACTION

Name:

Date:

Signature:

5 - CLEARANCE CHECK

Done

Name: Gabriele Bertuccelli

Date: 2025-01-24

Signature:

6- CLEARANCE APPROVAL

Name:

Date:

Signature:


Life

ROSETTI MARINO CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30001495

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10000700	1.4 Discipline	Electrical
1.2 Item	P-ELF-200N1-02-L1-23	Normal Lighting JB / Normal Lighting Fixture	
1.3 Subsystem	83-40	Normal Lighting Upper Deck	

2 - OBSERVATION

On JB side, core identification tags are not as per Cross-Ferruling Philosophy for all wires

Name: Luca Mussi

Date: 2024-12-06

Signature:

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Luca Mussi
3.4 Activity code	MC Mechanical Completion	Date	2024-12-06
3.5 Action by	RM_CONSTR RM	Signature	

4 - PERFORMED ACTION

Name:

Date:

Signature:

5 - CLEARANCE CHECK

DONE

Name: Andrea Andreani

Date: 2025-02-05

Signature:

6- CLEARANCE APPROVAL

Name:

Date:

Signature:


PE
N
L

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30001496

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10000688	1.4 Discipline	Electrical
1.2 Item	P-ELF-200N1-02-L1-17	Normal Lighting JB / Normal Lighting Fixture	
1.3 Subsystem	83-40	Normal Lighting Upper Deck	

2 - OBSERVATION

missing cable labelling on both light sides

Name: Andrea Andreani

Date: 2024-12-06

Signature:

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Andrea Andreani
3.4 Activity code	MC Mechanical Completion	Date	2024-12-06
3.5 Action by	RM_CONSTR RM	Signature	

4 - PERFORMED ACTION

Name:

Date:

Signature:

5 - CLEARANCE CHECK

Done

Name: Gabriele Bertuccelli

Date: 2025-01-24

Signature:

6- CLEARANCE APPROVAL

Name:

Date:

Signature:

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30001497

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10000700	1.4 Discipline	Electrical
1.2 Item	P-ELF-200N1-02-L1-23	Normal Lighting JB / Normal Lighting Fixture	
1.3 Subsystem	83-40	Normal Lighting Upper Deck	

2 - OBSERVATION

Cable gland installation is not as per drawing 123A90-DDL-EL-DD-20091 rev 2 sheet 014 pos. 4 (cable gland earthing tag is missing)

Name: Luca Mussi

Date: 2024-12-06

Signature:

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	A PL A	Name	Luca Mussi
3.4 Activity code	MC Mechanical Completion	Date	2024-12-06
3.5 Action by	RM_CONSTR RM	Signature	

4 - PERFORMED ACTION

Name:

Date:

Signature:

5 - CLEARANCE CHECK

RLMU done for 123A90-FDL-EL-DD-20091, sh.14, Rev.2

Name: Eleonora Carotenuto

Date: 2024-12-14

Signature:

6- CLEARANCE APPROVAL

Name:

Date:

Signature:



ROSETTI MARINO CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30001498

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10000700	1.4 Discipline	Electrical
1.2 Item	P-ELF-200N1-02-L1-23	Normal Lighting JB / Normal Lighting Fixture	
1.3 Subsystem	83-40	Normal Lighting Upper Deck	

2 - OBSERVATION

Cable gland installation is not as per drawing 123A90-DDL-EL-DD-20091 rev 2 sheet 014 pos. 4. Cable is entering the Light cable gland downwards while it should be upwards.

Name: Luca Mussi

Date: 2024-12-06

Signature:

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Luca Mussi
3.4 Activity code	MC Mechanical Completion	Date	2024-12-06
3.5 Action by	RM_CONSTR RM	Signature	

4 - PERFORMED ACTION

Name:

Date:

Signature:

5 - CLEARANCE CHECK

Done

Name: Gabriele Bertuccelli

Date: 2025-02-04

Signature:

6- CLEARANCE APPROVAL

Name:

Date:

Signature:



ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30001499

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10000688	1.4 Discipline	Electrical
1.2 Item	P-ELF-200N1-02-L1-17	Normal Lighting JB / Normal Lighting Fixture	
1.3 Subsystem	83-40	Normal Lighting Upper Deck	

2 - OBSERVATION

Core tag is missing for cable on both instrument and JB sides

Name: Andrea Andreani

Date: 2024-12-06

Signature:

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Andrea Andreani
3.4 Activity code	MC Mechanical Completion	Date	2024-12-06
3.5 Action by	RM_CONSTR RM	Signature	

4 - PERFORMED ACTION

Name:

Date:

Signature:

5 - CLEARANCE CHECK

DONE

Name: Andrea Andreani

Date: 2025-02-05

Signature:

6- CLEARANCE APPROVAL

Name:

Date:

Signature:

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30001500

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10000688	1.4 Discipline	Electrical
1.2 Item	P-ELF-200N1-02-L1-17	Normal Lighting JB / Normal Lighting Fixture	
1.3 Subsystem	83-40	Normal Lighting Upper Deck	

2 - OBSERVATION

cable gland earthing tag is missing

Name: Andrea Andreani

Date: 2024-12-06

Signature:

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	A PL A	Name	Andrea Andreani
3.4 Activity code	MC Mechanical Completion	Date	2024-12-06
3.5 Action by	RM_CONSTR RM	Signature	

4 - PERFORMED ACTION

Name:

Date:

Signature:

5 - CLEARANCE CHECK

RLMU done for 123A90-FDL-EL-DD-20091, sh.14, Rev.2

Name: Eleonora Carotenuto

Date: 2024-12-14

Signature:

6- CLEARANCE APPROVAL

Name:

Date:

Signature:

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30003090

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10001634	1.4 Discipline	ATEX
1.2 Item	EJB-200N1-02-L1-13	JB - NORMAL LIGHTING	
1.3 Subsystem	83-40	Normal Lighting Upper Deck	

2 - OBSERVATION

Missing the indications on the terminals box

Name: Alessio Polo
Date: 2025-01-18
Signature:

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Alessio Polo
3.4 Activity code	MC Mechanical Completion	Date	2025-01-18
3.5 Action by	RM_CONSTR RM	Signature	

4 - PERFORMED ACTION

Name:
Date:
Signature:

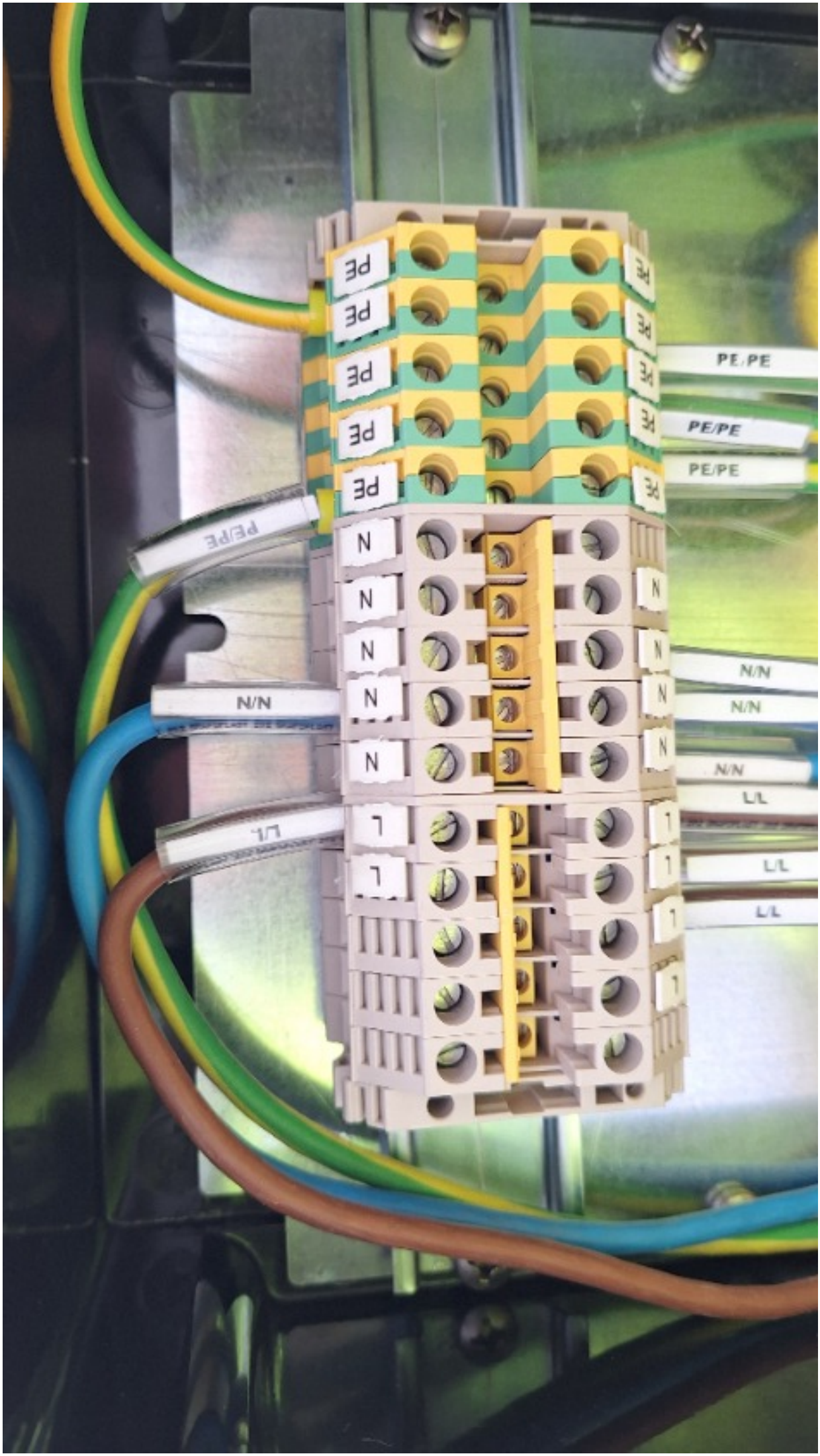
5 - CLEARANCE CHECK

Done

Name: Gabriele Bertuccelli
Date: 2025-02-05
Signature:

6- CLEARANCE APPROVAL

Name:
Date:
Signature:


PE/PE
PE/PE
PE/PE
N/N
N/N
N/N
L/L
L/L
L/L

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30003091

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10001634	1.4 Discipline	ATEX
1.2 Item	EJB-200N1-02-L1-13	JB - NORMAL LIGHTING	
1.3 Subsystem	83-40	Normal Lighting Upper Deck	

2 - OBSERVATION

The cable gland is loose

Name: Alessio Polo

Date: 2025-01-18

Signature:

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Alessio Polo
3.4 Activity code	MC Mechanical Completion	Date	2025-01-18
3.5 Action by	RM_CONSTR RM	Signature	

4 - PERFORMED ACTION

Done.

Name:

Date:

Signature:

5 - CLEARANCE CHECK

Done.

Name: Gabriele Bertuccelli

Date: 2025-01-30

Signature:

6- CLEARANCE APPROVAL

Name:

Date:

Signature:



ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30003092

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10001653	1.4 Discipline	ATEX
1.2 Item	EJB-200N1-02-L1-03	JB - NORMAL LIGHTING	
1.3 Subsystem	83-40	Normal Lighting Upper Deck	

2 - OBSERVATION

the earth cable is not fixed

Name: Alessio Polo
Date: 2025-01-18
Signature:

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Alessio Polo
3.4 Activity code	MC Mechanical Completion	Date	2025-01-18
3.5 Action by	RM_CONSTR RM	Signature	

4 - PERFORMED ACTION

Name:
Date:
Signature:

5 - CLEARANCE CHECK

Done

Name: Gabriele Bertuccelli
Date: 2025-01-30
Signature:

6- CLEARANCE APPROVAL

Name:
Date:
Signature:



ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30003093

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10001653	1.4 Discipline	ATEX
1.2 Item	EJB-200N1-02-L1-03	JB - NORMAL LIGHTING	
1.3 Subsystem	83-40	Normal Lighting Upper Deck	

2 - OBSERVATION

Missing the indications on the terminals box

Name: Alessio Polo

Date: 2025-01-18

Signature:

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Alessio Polo
3.4 Activity code	MC Mechanical Completion	Date	2025-01-18
3.5 Action by	RM_CONSTR RM	Signature	

4 - PERFORMED ACTION

Name:

Date:

Signature:

5 - CLEARANCE CHECK

Done

Name: Gabriele Bertuccelli

Date: 2025-02-05

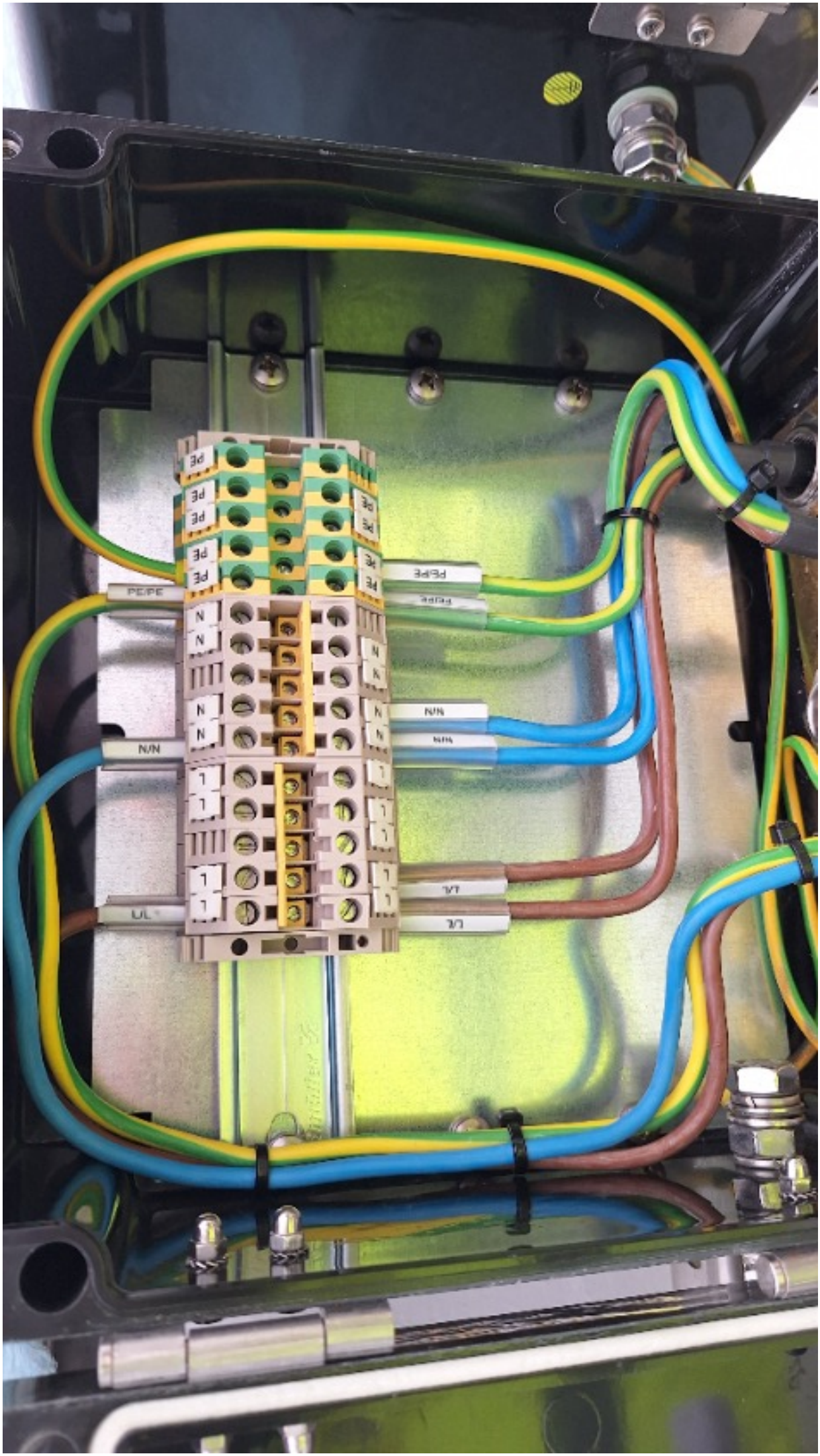
Signature:

6- CLEARANCE APPROVAL

Name:

Date:

Signature:


PE/PE
N/N
UL

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30003111

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10000676	1.4 Discipline	Electrical
1.2 Item	P-EJB-200N1-02-L1-03	Normal Lighting JB / Normal Lighting JB	
1.3 Subsystem	83-40	Normal Lighting Upper Deck	

2 - OBSERVATION

missing SS cable tag on both JB and light side

Name: Andrea Andreani

Date: 2025-01-20

Signature:

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Andrea Andreani
3.4 Activity code	MC Mechanical Completion	Date	2025-01-20
3.5 Action by	RM_CONSTR RM	Signature	

4 - PERFORMED ACTION

Name:

Date:

Signature:

5 - CLEARANCE CHECK

Done

Name: Gabriele Bertuccelli

Date: 2025-01-31

Signature:

6- CLEARANCE APPROVAL

Name:

Date:

Signature:

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30003153

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10001661	1.4 Discipline	ATEX
1.2 Item	ELF-200N1-02-L1-09	NORMAL LIGHT	
1.3 Subsystem	83-40	Normal Lighting Upper Deck	

2 - OBSERVATION

The support is not well secured against vibration. another support needs to be added

Name: Andrea Andreani

Date: 2025-01-22

Signature:

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Andrea Andreani
3.4 Activity code	MC Mechanical Completion	Date	2025-01-22
3.5 Action by	RM_CONSTR RM	Signature	

4 - PERFORMED ACTION

Name:

Date:

Signature:

5 - CLEARANCE CHECK

Installation carried out as per typical 123A90-DDL-EL-DD-20091 and 123A90-DDL-IN-DD-40017 drawing. Eng states that no additional support is needed.

Name: Giovanni Tangianu

Date: 2025-03-07

Signature:

6- CLEARANCE APPROVAL

Name:

Date:

Signature:

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30003156

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10001257	1.4 Discipline	ATEX
1.2 Item	EJB-200N1-02-L1-15		JB - NORMAL LIGHTING
1.3 Subsystem	83-40		Normal Lighting Upper Deck

2 - OBSERVATION

On ATEX register (123A90-DDL-EL-LIS-20094 sh 19) JB serial number is 24P00297990052, but actual is 24P00297990027

Name: Andrea Andreani
Date: 2025-01-22
Signature:

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Andrea Andreani
3.4 Activity code	MC Mechanical Completion	Date	2025-01-22
3.5 Action by	ENG Engineering	Signature	

4 - PERFORMED ACTION

Name:
Date:
Signature:

5 - CLEARANCE CHECK

ATEX register updated.

Name: Giovanni Tangianu
Date: 2025-04-17
Signature:

6- CLEARANCE APPROVAL

Name:
Date:
Signature:

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30003171

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10001281	1.4 Discipline	ATEX
1.2 Item	EJB-200N1-02-L1-01	Normal Lighting Upper Deck - Circuit No. 1	
1.3 Subsystem	83-40	Normal Lighting Upper Deck	

2 - OBSERVATION

Identification tags on terminal block are missing

Name: Gabriele Bertuccelli

Date: 2025-01-23

Signature:

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Gabriele Bertuccelli
3.4 Activity code	MC Mechanical Completion	Date	2025-01-23
3.5 Action by	RM_CONSTR RM	Signature	

4 - PERFORMED ACTION

Name:

Date:

Signature:

5 - CLEARANCE CHECK

Done

Name: Gabriele Bertuccelli

Date: 2025-02-05

Signature:

6- CLEARANCE APPROVAL

Name:

Date:

Signature:

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30003172

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10001281	1.4 Discipline	ATEX
1.2 Item	EJB-200N1-02-L1-01	Normal Lighting Upper Deck - Circuit No. 1	
1.3 Subsystem	83-40	Normal Lighting Upper Deck	

2 - OBSERVATION

On ATEX register 123A90-DDL-EL-LIS-20094 Sheet 19) JB serial number is 24P00297990045, but actual is 24P00297990083

Name: Gabriele Bertuccelli

Date: 2025-01-23

Signature:

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Gabriele Bertuccelli
3.4 Activity code	MC Mechanical Completion	Date	2025-01-23
3.5 Action by	ENG Engineering	Signature	

4 - PERFORMED ACTION

Name:

Date:

Signature:

5 - CLEARANCE CHECK

ATEX register updated.

Name: Giovanni Tangianu

Date: 2025-04-17

Signature:

6- CLEARANCE APPROVAL

Name:

Date:

Signature:

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30003173

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10000598	1.4 Discipline	Electrical
1.2 Item	P-EJB-200N1-02-L1-01		Lighting & Small Power DB BoP / Normal Lighting Upper Deck - Circuit No. 1
1.3 Subsystem	83-40		Normal Lighting Upper Deck

2 - OBSERVATION

missing SS cable tag on JB side and plastic cable tag on panel side

Name: Andrea Andreani

Date: 2025-01-23

Signature:

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Andrea Andreani
3.4 Activity code	MC Mechanical Completion	Date	2025-01-23
3.5 Action by	RM_CONSTR RM	Signature	

4 - PERFORMED ACTION

Name:

Date:

Signature:

5 - CLEARANCE CHECK

Done

Name: Gabriele Bertuccelli

Date: 2025-02-05

Signature:

6- CLEARANCE APPROVAL

Name:

Date:

Signature:

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30003183

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10002369	1.4 Discipline	Electrical
1.2 Item	EJB-200N1-02-L1-20	Normal Lighting JB	
1.3 Subsystem	83-40	Normal Lighting Upper Deck	

2 - OBSERVATION

Trafolite tag is missing. See attached photo

Name: Gabriele Bertuccelli

Date: 2025-01-24

Signature:

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Gabriele Bertuccelli
3.4 Activity code	MC Mechanical Completion	Date	2025-01-24
3.5 Action by	RM_CONSTR RM	Signature	

4 - PERFORMED ACTION

Name:

Date:

Signature:

5 - CLEARANCE CHECK

DONE

Name: Josip Krizanic

Date: 2025-02-21

Signature:

6- CLEARANCE APPROVAL

Name:

Date:

Signature:


CORTEC
COMPLET
MADE IN ITALY
IP66

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30003184

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10002369	1.4 Discipline	Electrical
1.2 Item	EJB-200N1-02-L1-20	Normal Lighting JB	
1.3 Subsystem	83-40	Normal Lighting Upper Deck	

2 - OBSERVATION

The support is not well secured against vibration. Another support needs to be added

Name: Gabriele Bertuccelli

Date: 2025-01-24

Signature:

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Gabriele Bertuccelli
3.4 Activity code	MC Mechanical Completion	Date	2025-01-24
3.5 Action by	RM_CONSTR RM	Signature	

4 - PERFORMED ACTION

Name:

Date:

Signature:

5 - CLEARANCE CHECK

Installation carried out as per typical 123A90-DDL-EL-DD-20091 and 123A90-DDL-IN-DD-40017 drawing. Eng states that no additional support is needed.

Name: Giovanni Tangianu

Date: 2025-03-07

Signature:

6- CLEARANCE APPROVAL

Name:

Date:

Signature:

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30003185

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10002369	1.4 Discipline	Electrical
1.2 Item	EJB-200N1-02-L1-20	Normal Lighting JB	
1.3 Subsystem	83-40	Normal Lighting Upper Deck	

2 - OBSERVATION

Identification tags on terminal block are missing

Name: Gabriele Bertuccelli

Date: 2025-01-24

Signature:

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Gabriele Bertuccelli
3.4 Activity code	MC Mechanical Completion	Date	2025-01-24
3.5 Action by	RM_CONSTR RM	Signature	

4 - PERFORMED ACTION

Name:

Date:

Signature:

5 - CLEARANCE CHECK

Done

Name: Gabriele Bertuccelli

Date: 2025-02-05

Signature:

6- CLEARANCE APPROVAL

Name:

Date:

Signature:

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30003213

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10001652	1.4 Discipline	ATEX
1.2 Item	EJB-200N1-02-L1-02	JB - NORMAL LIGHTING	
1.3 Subsystem	83-40	Normal Lighting Upper Deck	

2 - OBSERVATION

missing serrated washer on plug

Name: Andrea Andreani

Date: 2025-01-27

Signature:

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Andrea Andreani
3.4 Activity code	MC Mechanical Completion	Date	2025-01-27
3.5 Action by	RM_CONSTR RM	Signature	

4 - PERFORMED ACTION

Name:

Date:

Signature:

5 - CLEARANCE CHECK

DONE

Name: Josip Krizanic

Date: 2025-03-11

Signature:

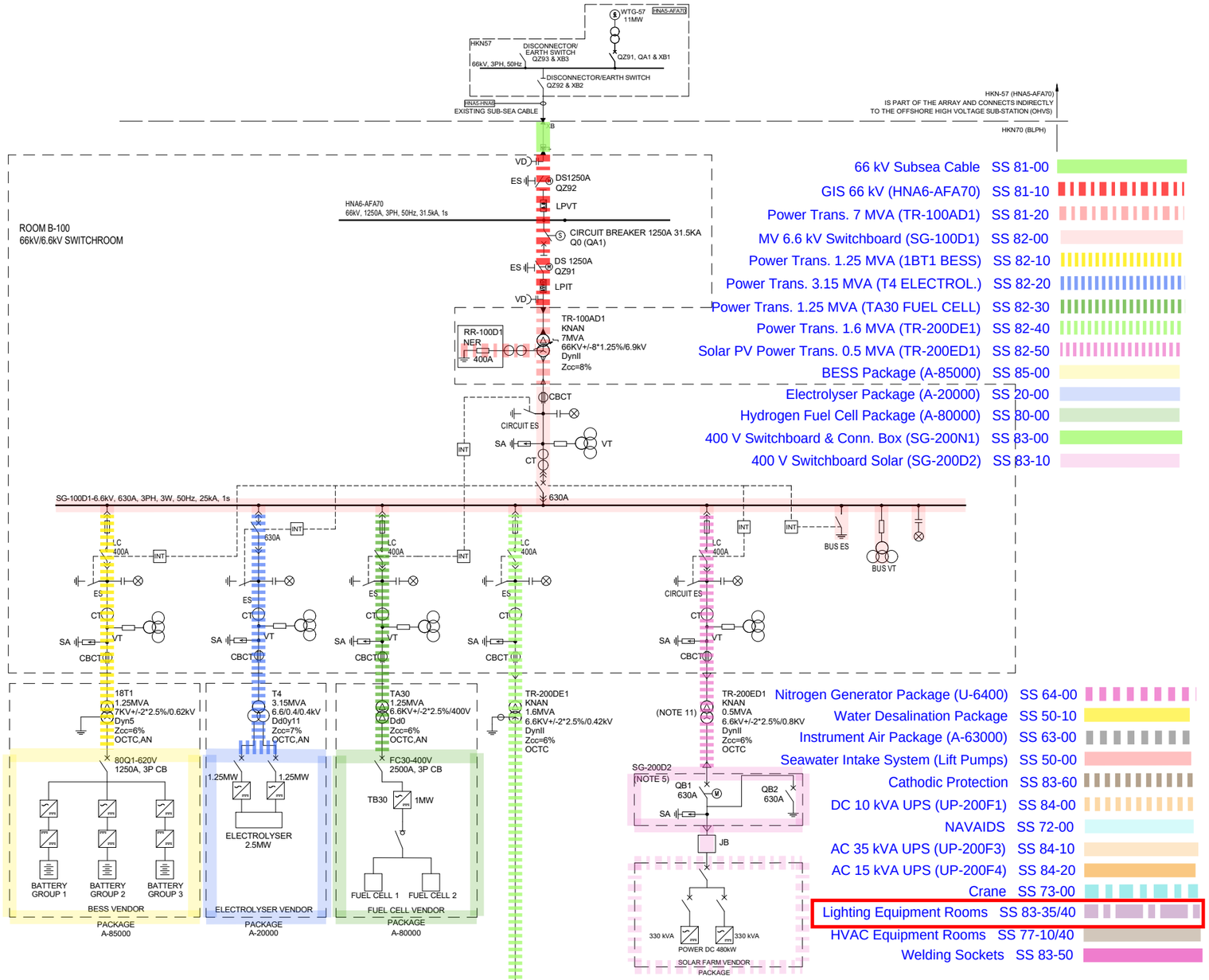
6- CLEARANCE APPROVAL

Name:

Date:

Signature:

Section 3 SYSTEM,SUB-SYSTEM LIMIT DRAWINGS



SYMBOL LEGEND:

- VOLTAGE DETECTOR
- EARTHING SWITCH DISCONNECTOR
- MOTORIZED EARTHING SWITCH
- CIRCUIT BREAKER
- FUSE
- CONTACTOR
- THREE-PHASE TRANSFORMER WITH TAP CHANGER
- THREE-PHASE TRANSFORMER
- CURRENT TRANSFORMER
- THREE-PHASE TRANSFORMER, WITH THREE WINDINGS
- NEUTRAL EARTHING RESISTOR
- SURGE ARRESTER
- CORE BALANCE CURRENT TRANSFORMER
- SURGE ARRESTOR FOR T-CONNECTOR (N.1 FOR EACH PHASE)
- VOLTAGE & CURRENT TRANSFORMER (3Ø X 2) (LPIT TYPE)
- VOLTAGE TRANSFORMER (3Ø X 2) (LPVT TYPE)
- VOLTAGE TRANSFORMER
- CABLE BOX
- T-CONNECTOR CABLE TERMINATION
- CABLE AIR TERMINATION

OLTC	= ON LOAD TAP CHANGER
OCTC	= OPEN CIRCUIT TAP CHANGER
KNAN	= NON-MINERAL OIL NATURAL AIR COOLED
AN	= AIR NATURAL
XB	= CABLE BOX
QZ	= DISCONNECT SWITCH & EARTH SWITCH
QA	= CIRCUIT BREAKER
LC	= LATCHED FUSED CONTACTOR (400A)
INT	= INTERLOCK SYSTEM
SA	= SURGE ARRESTER
CBCT	= CORE BALANCE CURRENT TRANSFORMER
ES	=EARTHING SWITCH
VD	=VOLTAGE DETECTOR
LCP	=LOCAL CONTROL PANEL
LPVT	=LOW POWER VOLTAGE TRANSFORMER
LPCT	=LOW POWER CURRENT TRANSFORMER
LPIT	=LOW POWER INSTRUMENT TRANSFORMER
JB	=JUNCTION BOX

NOTES:

1. TEMPORARY POWER SUPPLY CONNECTION BOX LOCATED ON OUTSIDE WALL OF LV SWITCHROOM / CONTAINER.
2. LOAD DEFINITION 'ESSENTIAL' / 'NON-ESSENTIAL' IS SHOWN IN THE LOAD LIST. THE CCS, EMCS AND 'SMART' SWITCHGEAR WILL OPEN / CLOSE CIRCUIT BREAKERS AS REQUIRED.
3. A COMBINED CCS/EMCS SYSTEM COMPRISES A MICROPROCESSOR BASED SYSTEM, ASSOCIATED SOFTWARE AND REQUIRED PERIPHERALS FOR MONITORING AND CONTROLLING OF ELECTRICAL POWER NETWORK. ALL ELECTRICAL EQUIPMENT AND PACKAGE UNITS SHALL BE CONNECTED TO THE CENTRAL CONTROL SYSTEM .
4. IMPRESSED CURRENT CATHODIC PROTECTION SYSTEM SUPPLIED BY COMPANY.
5. THE SOLAR FARM IN-FEED POWER CIRCUIT BREAKERS PANEL IS LOCATED INSIDE THE LV SWITCHGEAR ROOM B-200.
6. DELETED.
7. DELETED.
8. DELETED.
9. CROSSWIND SHALL BE ABLE TO CONTROL THE BLPH 66KV MOTORISED CIRCUIT BREAKER Q0 (QA1) & MOTORISED ELECTRICAL DISCONNECTOR / EARTH SWITCH (QZ92, TYPE B) USING THEIR 'HV-SCADA' SYSTEM. THIS BACK-UP / REDUNDANT CONTROL SHALL BE ADDITIONAL TO THAT PROVIDED BY THE CCS AND BE OF HIGHER PRIORITY OVER A SEPARATE FIBRE OPTIC CABLE (FOC). THE CCS OPERATOR AND 'HV-SCADA' SHALL BOTH BE KEPT FULLY AWARE OF EQUIPMENT STATUS AT ALL TIMES. INTERTRIPPING, INHIBITS & INTERLOCKING FOR BLPH 66KV EQUIPMENT SHALL BE AS PER THE WIND FARM.
10. THE LOADS IN THE LOW VOLTAGE SWITCHGEAR AND THE CURRENT VALUES OF THE CIRCUIT BREAKERS ARE ONLY INDICATIVE.
11. NEUTRAL POINT OF TR-200ED1 SHALL NOT BE GROUNDED AS REQUIRED BY SOLAR FARM SUPPLIER IN 123A90-PML-PM-TQ-00040.

REFERENCES:

1. 123A90-DDL-EL-DG-20014 ELECTRICAL CONTROL, PROTECTION AND METERING DIAGRAMS
2. 123A90-DDL-EL-DG-20015 ELECTRICAL SINGLE LINE DIAGRAM 6.6kV SYSTEMS
3. 123A90-DDL-EL-DG-20159 ELECTRICAL SINGLE LINE DIAGRAMS LV SYSTEM
4. 123A90-DDL-EL-DG-20160 ELECTRICAL SINGLE LINE DIAGRAMS AC UPS SYSTEMS
5. 123A90-DDL-EL-DG-20161 ELECTRICAL SINGLE LINE DIAGRAMS DC UPS SYSTEMS
6. 123A90-DDL-EL-DG-20185 ELECTRICAL SINGLE LINE DIAGRAM HV SYSTEMS
7. 123A90-DDL-EL-DL-20104 ELECTRICAL EQUIPMENT LAYOUT - HV SWITCHROOM
8. 123A90-DDL-EL-DL-20105 ELECTRICAL EQUIPMENT LAYOUT - LV SWITCHROOM
9. 123A90-DDL-EL-LIS-20016 ELECTRICAL LOAD LIST and BALANCE -CCS MODE CHARGING-
10. 123A90-DDL-EL-RE-20152 ELECTRICAL EQUIPMENT SIZING CCALCULATION REPORT
11. 123A90-DDL-EL-RE-20170 ELECTRICAL SYSTEM STUDY REPORT - LOAD FLOW
12. 123A90-DDL-EL-RE-20171 ELECTRICAL SYSTEM STUDY REPORT - SHORT CIRCUIT
13. 123A90-DDL-EL-RE-20172 ELECTRICAL SYSTEM STUDY REPORT - ARC FLASH ENERGY CALCULATION
14. 123A90-DDL-EL-RE-20173 ELECTRICAL SYSTEM STUDY REPORT - HARMONICS

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	26/03/2024	GPA	LMA/AMA	LMA/MDO	ISSUE FOR REVIEW (IFR)
00	02/11/2023	DSF	CB/AMA	OYFO/MDO	ISSUE FOR REVIEW (IFR)

CROSSWIND

ROSETTI MARINO

TITLE :

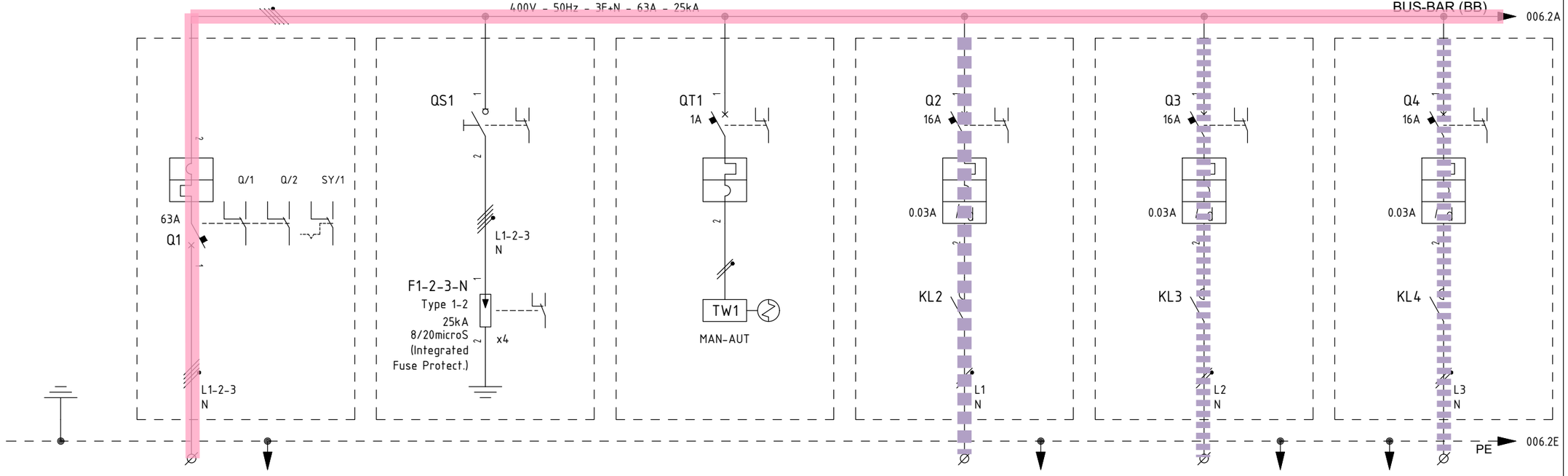
OVERALL/KEY SINGLE LINE DIAGRAM

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK			SCALE N/A
DRAWN GPA	CHECKED LMA/AMA	APPROVED LMA/MDO	DATE 26/03/2023
A1	DRAWING NO. 123A90-DDL-EL-DG-20158	SHEET 001	REV. 01

DRAWING NO. 123A90-DDL-EL-DG-20158 REV. 01

File Name : 123A90_DDL_EL_DG_20158_REV01.dwg

01



ITEM			1	-				EJB-200N1-02-L1-01		EJB-200N1-03-L2-01		EJB-200N1-04-L3-01	
UTILITY			2	GENERAL INCOMING		SURGE ARRESTER		TWILIGHT SWICTH AND AUXILIARY		NORMAL LIGHTING UPPER DECK		NORMAL LIGHTING LOWER DECK		NORMAL LIGHTING STAIRS	
CUBICLE			3	+01		+01		+01		+01		+02		+02	
RATED POWER	RATED CURRENT		4/5	34.8 KW	63 A	/	/	/	/	1.5 KW	6.86 A	1 KW	4.58 A	0.2 KW	0.92 A
TYPICAL FUNCTIONAL			6	-		-		-		-		-		-	
CIRCUIT BREAKER (ABB)	TYPE		7	XT2N-160 4P		E204/100R		S302P-C1		S302P-C16 + DDA202 AC-25/0.03		S302P-C16 + DDA202 AC-25/0.03		S302P-C16 + DDA202 AC-25/0.03	
	VERSION		8	FIXED		4P / MINIATURE		2P / MINIATURE		2P / MINIATURE		2P / MINIATURE		2P / MINIAUTURE	
	TRIP UNITS		9	Ekip Dip LSI = 63A		In=100A		In=1A - Curve C		In=16A - Curve C / Id=0.03A Class AC		In=16A - Curve C / Id=0.03A Class AC		In=16A - Curve C / Id=0.03A Class AC	
	Icu	KA	10	36KA		-		25kA		25kA		25kA		25kA	
OVERLOAD	L	Range A	11	0,4 ÷1 In		-		-		-		-		-	
		Range t	12	t=k/I^2		-		-		-		-		-	
SEL. SHORT-CIRCUIT	S	Range A	13	1 ÷10 In		-		-		-		-		-	
		Range t	14	t=k / t=k/I^2		-		-		-		-		-	
INST. SHORT-CIRCUIT	I	Range A	15	1 ÷10 In		-		-		SUBSYSTEM 83-40		SUBSYSTEM 83-41		SUBSYSTEM 83-42	
		Range t	16	instantaneous		-		-							
EARTH FAULT PROTECTION	G	Range A	17	-		-		-		-		-		-	
		Range t	18	-		-		-		-		-		-	
CONTACTOR (ABB)			19	-		-		-		ESB40-20N-06; 2x22A AC3; Vaux=230Vdc/ac		ESB40-20N-06; 2x22A AC3; Vaux=230Vdc/ac		ESB40-20N-06; 2x22A AC3; Vaux=230Vdc/ac	
THERMAL OVERLOAD RELAY (ABB)			20	-		-		-		-		-		-	
SURGE ARRESTERS (DHENN)			21	-		DVCI 1 255 FM (961 205)		-		-		-		-	
TOROIDAL CURRENT TRANSFORMER (FRER)			22	-		-		-		-		-		-	
FUSE HOLDER (ABB)			23	-		-		-		-		-		-	
TWILIGHT SWITCH (ABB)			24	-		-		TL1 (2-200 LUX); Vaux=110-230Vac		-		-		-	
VOLTMETER (FRER)			25	-		-		-		-		-		-	
CURRENT TRANSFORMER FOR MEASURE (FRER)	TYPE		26	-		-		-		-		-		-	
	PERFORMANCE/CLASS		27	-		-		-		-		-		-	
VOLTAGE TRANSFORMER FOR MEASURE (FRER)	TYPE		28	-		-		-		-		-		-	
	PERFORMANCE/CLASS		29	-		-		-		-		-		-	
POWER TERM. BLOCK (CABUR)		Type/mm²	30	SCREW / 16		-		-		SCREW / 4		SCREW / 4		SCREW / 4	
POWER CONDUCTOR		mm²	31	5G16		-		-		3G4		3G4		3G4	

CROSSWIND

IMESA ELECTRICAL ENGINEERING

ROSETTI MARINO

DWG n° : 231298/SD/13

Item n° : PF1002888/101

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
=					
+					
3	05/07/2024	Santinelli	Flamminio	Sigismondi	Accepted for construction (AFC)
2	24/04/2024	Santinelli	Flamminio	Sigismondi	Issued for review (IFR)
1	15/03/2024	Santinelli	Flamminio	Sigismondi	Issued for review (IFR)
0	08/02/2024	Santinelli	Flamminio	Sigismondi	Issued for review (IFR)

TITLE : "DP-200N1"

SINGLE LINE DIAGRAM

Single Line Drawing

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE : NTS

A3

DRAWING NO. 1723002197-EL-DG-00013

SHEET 005

REV. 03

F.to UNI A3: 420mmx297mm

File Name : 1723002197-EL-DG-00013 Rev. 03

Section 4 MECHANICAL COMPLETION STATUS INDEX - BUILDING DISCIPLINE

NOT APPLICABLE

Section 5 MECHANICAL COMPLETION STATUS INDEX - ELECTRICAL DISCIPLINE

CROSSWIND

ROSETTI MARINO

Project CROSSWIND

STATUS INDEX DETAIL

Filtered on subsystem: 83-40 & process: MC & discipline : E

Electrical	83-40 Normal Lighting Upper Deck						
ITEM		TASK					
Code	Description	Location	Code	Form	Progress	Date	Certificate
EJB-200N1-02-L1-10	JB - NORMAL LIGHTING	ONSHORE	C10001630	CPX31	100	2025-01-09	RFC 1
EJB-200N1-02-L1-14	JB - NORMAL LIGHTING	ONSHORE	C10001256	CPX31	100	2025-01-18	RFC 1
EJB-200N1-02-L1-20	Normal Lighting JB	ONSHORE	C10002369	CPX31	100	2025-01-24	RFC 1
ELF-200N1-02-L1-02	NORMAL LIGHT	ONSHORE	C10001338	CPX00	100	2024-12-06	RFC 1
ELF-200N1-02-L1-03	NORMAL LIGHT	ONSHORE	C10001361	CPX00	100	2025-01-10	RFC 1
ELF-200N1-02-L1-16	NORMAL LIGHT	ONSHORE	C10001671	CPX00	100	2024-12-07	RFC 1
ELF-200N1-02-L1-20	NORMAL LIGHT	ONSHORE	C10001354	CPX00	100	2024-12-06	RFC 1
ELF-200N1-02-L1-21	NORMAL LIGHT	ONSHORE	C10001355	CPX00	100	2024-12-06	RFC 1
ELF-200N1-02-L1-22	NORMAL LIGHT	ONSHORE	C10001356	CPX00	100	2024-12-07	RFC 1
P-EJB-200N1-02-L1-01	Lighting & Small Power DB BoP / Normal Lighting Upper Deck - Circuit No. 1	ONSHORE	C10000598	CPX09	100	2025-01-23	RFC 1
P-EJB-200N1-02-L1-02	Normal Lighting JB / Normal Lighting JB	ONSHORE	C10000665	CPX09	100	2025-01-11	RFC 1
P-EJB-200N1-02-L1-03	Normal Lighting JB / Normal Lighting JB	ONSHORE	C10000676	CPX09	100	2025-01-20	RFC 1
P-EJB-200N1-02-L1-05	Normal Lighting JB / Normal Lighting JB	ONSHORE	C10000670	CPX09	100	2025-01-09	RFC 1
P-EJB-200N1-02-L1-06	Normal Lighting JB / Normal Lighting JB	ONSHORE	C10000672	CPX09	100	2025-01-15	RFC 1
P-EJB-200N1-02-L1-07	Normal Lighting JB / Normal Lighting JB	ONSHORE	C10000674	CPX09	100	2025-01-25	RFC 1
P-EJB-200N1-02-L1-08	Normal Lighting JB / Normal Lighting JB	ONSHORE	C10000678	CPX09	100	2025-01-13	RFC 1
P-EJB-200N1-02-L1-09	Normal Lighting JB / Normal Lighting JB	ONSHORE	C10000680	CPX09	100	2025-01-09	RFC 1
P-EJB-200N1-02-L1-10	Normal Lighting JB / Normal Lighting JB	ONSHORE	C10000685	CPX09	100	2025-01-09	RFC 1
P-EJB-200N1-02-L1-11	Normal Lighting JB / Normal Lighting JB	ONSHORE	C10000687	CPX09	100	2024-12-28	RFC 1
P-EJB-200N1-02-L1-12	Normal Lighting JB / Normal Lighting JB	ONSHORE	C10000689	CPX09	100	2024-12-28	RFC 1
P-EJB-200N1-02-L1-13	Normal Lighting JB / Normal Lighting JB	ONSHORE	C10000691	CPX09	100	2024-12-30	RFC 1
P-EJB-200N1-02-L1-14	Normal Lighting JB / Normal Lighting JB	ONSHORE	C10000693	CPX09	100	2025-01-10	RFC 1
P-EJB-200N1-02-L1-15	Normal Lighting JB / Normal Lighting JB	ONSHORE	C10000695	CPX09	100	2024-12-06	RFC 1
P-EJB-200N1-02-L1-16	Normal Lighting JB / Normal Lighting JB	ONSHORE	C10000697	CPX09	100	2025-01-10	RFC 1
P-EJB-200N1-02-L1-17	Normal Lighting JB / Normal Lighting JB	ONSHORE	C10000699	CPX09	100	2024-12-28	RFC 1
P-EJB-200N1-02-L1-18	Normal Lighting JB / Normal Lighting JB	ONSHORE	C10000701	CPX09	100	2024-12-28	RFC 1
P-EJB-200N1-02-L1-19	Normal Lighting JB / Normal Lighting JB	ONSHORE	C10000703	CPX09	100	2024-12-24	RFC 1
P-EJB-200N1-02-L1-20	Normal Lighting JB / Normal Lighting JB	ONSHORE	C10002368	CPX09	100	2025-01-10	RFC 1
P-ELF-200N1-02-L1-01	Normal Lighting JB / Normal Lighting Fixture	ONSHORE	C10000662	CPX09	100	2025-01-14	RFC 1

CROSSWIND

ROSETTI MARINO

Project CROSSWIND

STATUS INDEX DETAIL

Filtered on subsystem: 83-40 & process: MC & discipline : E

Electrical	83-40 Normal Lighting Upper Deck						
ITEM		TASK					
Code	Description	Location	Code	Form	Progress	Date	Certificate
P-ELF-200N1-02-L1-02	Normal Lighting Fixture / Normal Lighting Fixture	ONSHORE	C10000663	CPX09	100	2024-12-06	RFC 1
P-ELF-200N1-02-L1-03	Normal Lighting JB / Normal Lighting Fixture	ONSHORE	C10000664	CPX09	100	2025-01-10	RFC 1
P-ELF-200N1-02-L1-04	Normal Lighting JB / Normal Lighting Fixture	ONSHORE	C10000666	CPX09	100	2025-01-14	RFC 1
P-ELF-200N1-02-L1-05	Normal Lighting JB / Normal Lighting Fixture	ONSHORE	C10000671	CPX09	100	2025-01-14	RFC 1
P-ELF-200N1-02-L1-06	Normal Lighting Fixture / Normal Lighting Fixture	ONSHORE	C10000667	CPX09	100	2025-01-16	RFC 1
P-ELF-200N1-02-L1-07	Normal Lighting Fixture / Normal Lighting Fixture	ONSHORE	C10000668	CPX09	100	2025-01-15	RFC 1
P-ELF-200N1-02-L1-08	Normal Lighting JB / Normal Lighting Fixture	ONSHORE	C10000673	CPX09	100	2025-01-16	RFC 1
P-ELF-200N1-02-L1-09	Normal Lighting JB / Normal Lighting Fixture	ONSHORE	C10000675	CPX09	100	2025-01-22	RFC 1
P-ELF-200N1-02-L1-10	Normal Lighting Fixture / Normal Lighting Fixture	ONSHORE	C10000669	CPX09	100	2025-01-15	RFC 1
P-ELF-200N1-02-L1-11	Normal Lighting JB / Normal Lighting Fixture	ONSHORE	C10000679	CPX09	100	2025-01-13	RFC 1
P-ELF-200N1-02-L1-12	Normal Lighting JB / Normal Lighting Fixture	ONSHORE	C10000677	CPX09	100	2025-01-16	RFC 1
P-ELF-200N1-02-L1-13	Normal Lighting JB / Normal Lighting Fixture	ONSHORE	C10000681	CPX09	100	2025-01-13	RFC 1
P-ELF-200N1-02-L1-16	Normal Lighting JB / Normal Lighting Fixture	ONSHORE	C10000686	CPX09	100	2024-12-07	RFC 1
P-ELF-200N1-02-L1-17	Normal Lighting JB / Normal Lighting Fixture	ONSHORE	C10000688	CPX09	100	2024-12-06	RFC 1
P-ELF-200N1-02-L1-18	Normal Lighting JB / Normal Lighting Fixture	ONSHORE	C10000690	CPX09	100	2024-12-06	RFC 1
P-ELF-200N1-02-L1-19	Normal Lighting JB / Normal Lighting Fixture	ONSHORE	C10000692	CPX09	100	2024-12-06	RFC 1
P-ELF-200N1-02-L1-20	Normal Lighting JB / Normal Lighting Fixture	ONSHORE	C10000694	CPX09	100	2024-12-06	RFC 1
P-ELF-200N1-02-L1-21	Normal Lighting JB / Normal Lighting Fixture	ONSHORE	C10000696	CPX09	100	2024-12-06	RFC 1
P-ELF-200N1-02-L1-22	Normal Lighting JB / Normal Lighting Fixture	ONSHORE	C10000698	CPX09	100	2024-12-07	RFC 1
P-ELF-200N1-02-L1-23	Normal Lighting JB / Normal Lighting Fixture	ONSHORE	C10000700	CPX09	100	2024-12-06	RFC 1
P-ELF-200N1-02-L1-24	Normal Lighting JB / Normal Lighting Fixture	ONSHORE	C10000702	CPX09	100	2024-12-07	RFC 1
P-ELF-200N1-02-L1-25	Normal Lighting JB / Normal Lighting Fixture	ONSHORE	C10000704	CPX09	100	2024-12-07	RFC 1

ITEM	Tag	P-EJB-200N1-02-L1-01	: Lighting & Small Power DB BoP / Normal Lighting Upper Deck - Circuit No. 1			Dwg	123A90-DDL-EL-LIS-20148
	S/Sys	83-40	: Normal Lighting Upper Deck			Module	LD_B-200/LD
TASK	code	C10000598		Location	Onshore Activities	User	Rosetti Marino Quality Control
FORM	Process	MC	Activity CCK	Discipline	Electrical Form CPX09		LV Power Cable

CABLE DATA

Type Cu Cl.2/EPR/LSZH Cores/Size mm² 3G4 mm2 Color GREY

From DP-200N1 To EJB-200N1-02-L1-01

1	Confirm cable is as specified in project cable schedule	OK
2	Visual Check cable physical integrity.	OK
3	Check is installed in accordance with layout drawing (segregation, distance…).	OK
4	Check cable is supported and fixed to rack according to project specification.	Note
5	Check bending radius is within the specified limits.	OK
6	Confirm cable glands suit for cable type, correctly mounted and tightened.	OK
7	Check gland plate for single core cables is non ferrous (non -magnetic).	NA
8	Confirm cable labelling is in accordance with specifications.	PL
9	Check cable is correctly loomed and segregated in accordance with specification.	OK
10	Check cable earthing against lastest drawings.	OK
11	Check cores marking are in accordance with termination diagram	OK
12	Check terminations are in accordance with latest termination diagram	OK
13	If required produce Red Line Mark Up for "AS BUILT"	

ROSETTI MARINO PROVERLIS CROSSWIND

ITEM	Tag	P-EJB-200N1-02-L1-01	: Lighting & Small Power DB BoP / Normal Lighting Upper Deck - Circuit No. 1			Dwg	123A90-DDL-EL-LIS-20148
	S/Sys	83-40	: Normal Lighting Upper Deck			Module	LD_B-200/LD
TASK	code	C10000598		Location	Onshore Activities	User	Rosetti Marino Quality Control
FORM	Process	MC	Activity CCK	Discipline	Electrical	Form	CPX09 LV Power Cable

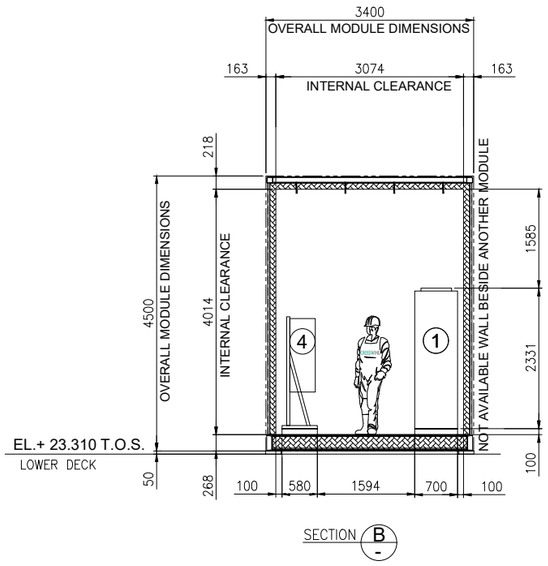
CONTINUITY				
5	CORE CONTINUITY Ω	PH 1	0,2	
6		PH 2	0,2	
7		PH 3	NA	
8	ARMOUR CONTINUITY Ω		NA	
9	PROTECTIVE CONDUCTOR CONTINUITY Ω		0,2	
INSULATION				
10	CORES / ARMOUR+EARTH MΩ	PH1 / PH2-PH3-A-E	>999	
11		PH2 / PH1-PH3-A-E	>999	
12		PH3 / PH1-PH2-A-E	NA	
13	CABLE IS CORRECTLY RE-CONNECTED.		Yes	

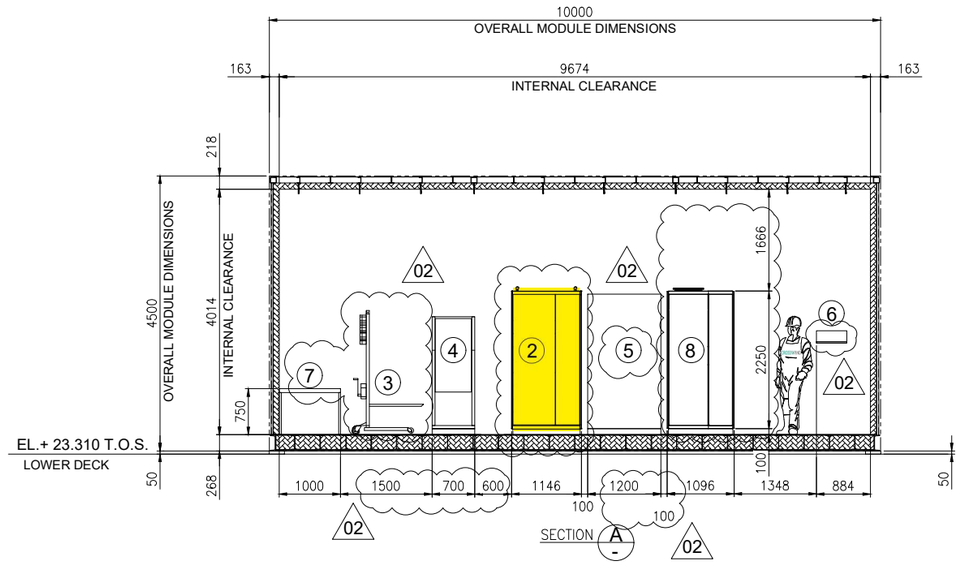
TESTING INSTRUMENTS USED			
TYPE / SERIAL N° :	MEGGER : KEW3125A SERIAL: W8330207	TYPE / SERIAL N° :	MULTIMETER: FLUKE 175 SERIAL:AW1/018(17140769)
Calibration certificate N° and date:	N°7722/24 _ 10/07/2024	Calibration certificate N° and date:	N°7715/24 _ 10/07/2024

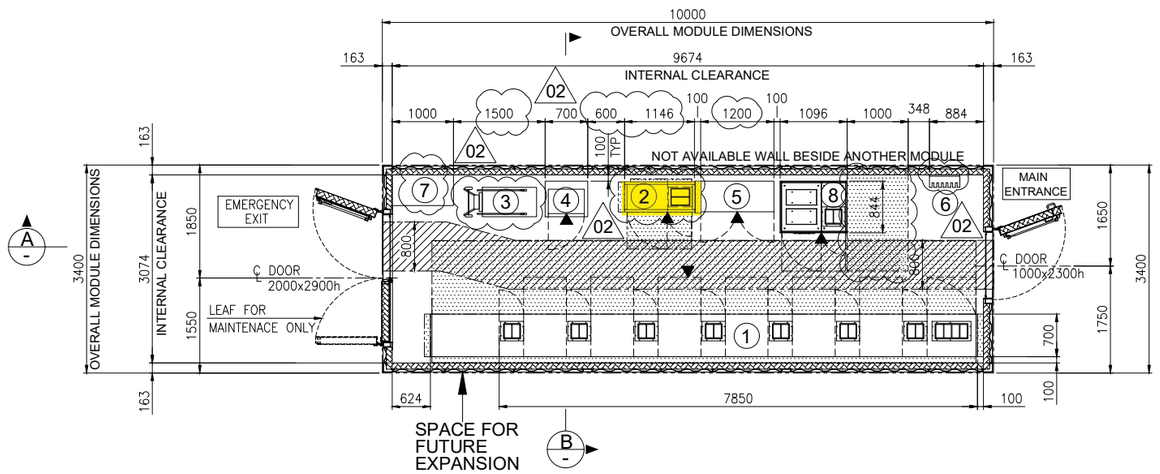
Comments: Nota 4: refer to PL C30000679

	Performed by	☉ WITNESS ☐ REVIEW	☐ WITNESS ☐ REVIEW
Company	ICS IMPIANTI	RM (ROSETTI MARINO)	
Name	Francesco Zucca	Andrea Andreani	
Date	2024-12-18	2025-01-23	
Signature	PROVERLIS Digitaly signed by Francesco Zucca 2024-12-18T10:36:37.766Z	PROVERLIS Digitaly signed by Andrea Andreani 2025-01-23T16:47:27.484Z	

DRAWING NO. 123A90-DDL-EL-DL-20105 | REV. 02





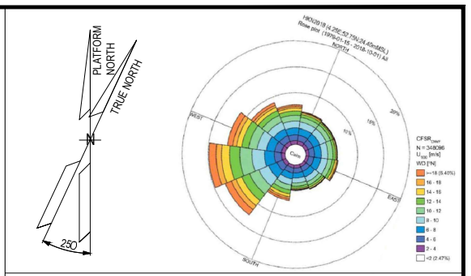


EQUIPMENT LAYOUT
"B-200" LV (400V) SWITCHGEAR ROOM
BOTTOM PLAN

1

EQUIPMENT LIST

REF.	TAG No.	DESCRIPTION	LENGTH (mm)	WIDTH (mm)	HEIGHT (mm)	NOTE
1	SG-200N1	400V SWITCHGEAR	7850	700	2331	
2	DP-200N1	DISTRIBUTION BOARD FOR LIGHTING AND SMALL POWER B.O.P.	1146	520	2250	
3	-	SERVICE TROLLEY FOR 400V SWITCHGEAR	1034	490	2030	
4	CN-200N1	ICCP PANEL	700	580	1830	
5	B200-HSB-001	DISTRIBUTION & HVAC PANEL - LV ROOM	1200	600	1900	02
6	-	TOOL BOX	495	200	200	
7	-	TABLE	1000	500	750	
8	SG-200D2	ACB PANEL FOR SOLAR PACKAGE	1096	844	2294	



NOTES

1. U.N.O. ALL DIMENSIONS ARE IN MILLIMETERS.
2. DELETED.
3. DOCUMENT VALID ONLY FOR ELECTRICAL COMPONENT, FOR OTHER SCOPE LOCATION AND INFORMATION, PLEASE REFER TO VENDORS AND PROJECT DOCUMENTS.
4. FOR OTHER ITEMS, CORRECT LOCATION AND INFORMATION, PLEASE REFER TO VENDORS AND DEDICATED PROJECT DOCUMENTATION.
5. HEIGHT OF ALL PANELS IN THE EQUIPMENT LIST TABLE IS WITHOUT THE BASE FRAME (100mm)

02

LEGEND

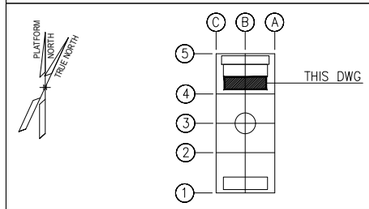
U.N.O. _____ UNLESS NOTED OTHERWISE
T.O.S. _____ TOP OF STEEL
_____ ESCAPE CORRIDOR - WIDTH 800mm.
_____ MAINTENANCE AREA - VENDOR REQUIREMENT
_____ SWITCHGEAR ROOM ENCLOUSURE
_____ FRONT OF EQUIPMENT

REFERENCES

DOCUMENT TITLE	DOCUMENT NUMBER
SG-200N1 GENERAL ARRANGEMENT DRAWING	1723002197-EL-DA-00007
SG-200D2 GENERAL ARRANGEMENT DRAWING	1723002197-EL-DA-00008
DP-200N1 GENERAL ARRANGEMENT DRAWING	1723002197-EL-DA-00009
AC UPS – GENERAL ARRANGEMENT AND DIMENSIONAL DRAWINGS	1724000372-EL-DA-00004
AC UPS – BATTERY LAYOUT INTERCONNECTING DIAGRAM	1724000372-EL-DG-00011
B-200 -GENERAL ARRANGEMENT DRAWINGS - E&I SHELTER	1724000049-AR-DA-00015
ICCC PANEL GENERAL ARRANGEMENT DRAWING	144671-CORR-TF-FAB-DWG-0003

02

KEY PLAN



VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DL-20105**

REV.:	DATE:	SIGNATURE:
2_A	08/08/24	G.Randi

ROSETTI MARINO SpA

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	27/05/2024	FMO	LMA/AMA	LMA/MDO	ACCEPTED FOR CONSTRUCTION (AFC)
01	26/03/2024	GPA	LMA/AMA	LMA/MDO	ISSUE FOR REVIEW (IFR)
00	08/11/2023	DSF	CB/AMA	OYFO/MDO	ISSUE FOR REVIEW (IFR)

CROSSWIND | ROSETTI MARINO

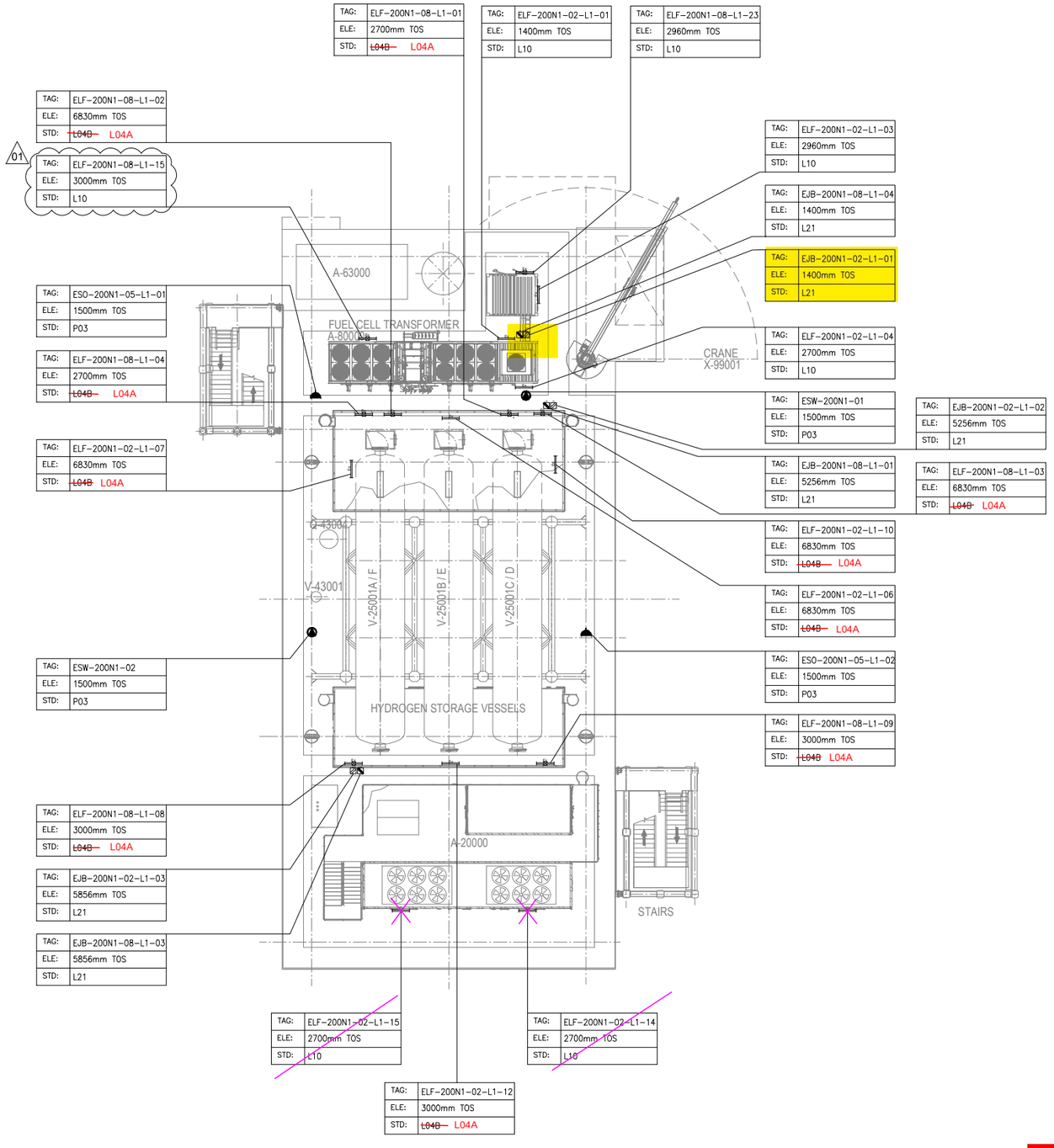
TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL EQUIPMENT LAYOUT
LV SWITCHROOM

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK			SCALE 1:50
DRAWN FMO	CHECKED LMA/AMA	APPROVED LMA/MDO	DATE 27/05/2024
A1	DRAWING NO. 123A90-DDL-EL-DL-20105	SHEET 001	REV. 02

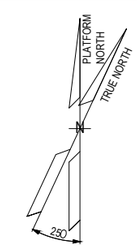
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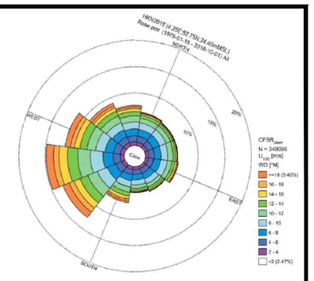
DRAWING NO. 123A90-DDL-EL-DL-20118

REV. 01



PLAN ON UPPER DECK
EL+30.310 T.O.S.





NOTES

1. ALL DIMENSIONS AND ELEVATIONS ARE GIVEN IN mm UNLESS OTHERWISE NOTED.
2. ELEVATIONS REFER TO T.O.S.
3. ELEVATION OF THE LAMPS ARE REFFERED TO THE BOTTOM OF THE LAMP.
4. FOR THE ELEVATION OF JB, REFER TO THE TYPICAL INSTALLATION.

LEGEND

- EMERGENCY LIGHTING JB
- 60W LED EMERGENCY LUMINARIES
- 60W LED EMERGENCY LUMINARIES FIXTURE POLE MOUNTED
- NORMAL LIGHTING JB
- 45W LED NORMAL LUMINARIES
- 45W LED NORMAL LUMINARIES FIXTURE POLE MOUNTED
- WELDING SOCKET WITH INTEGRATED JB
- SMALL POWER SOCKET WITH INTEGRATED JB

JB TAG:	JB-TAG
TAG:	TAG
ELE:	ELEVATION
STD:	STANDARD

REFERENCE DOCUMENTS

123A90-DDL-PP-DL-70070	PLOT PLAN - LOWER & UPPER DECK
123A90-DDL-EL-DL-20100	ELECTRICAL EQUIPMENT LAYOUT - TOP DECK
123A90-DDL-EL-DD-20091	ELECTRICAL TYPICAL INSTALLATION DETAILS - LIGHTING SYSTEM
123A90-DDL-EL-DD-20092	ELECTRICAL TYPICAL INSTALLATION DETAILS - POWER SYSTEM & CABLE INSTALLATION
123A90-DDL-EL-RE-20153	LIGHTING CALCULATION STUDY REPORT
123A90-DDL-ST-DD-90076	IDENTIFICATION PANELS ASSEMBLY AND DETAILS

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	02/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	28/05/24	ASR	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DL-20118**

REV.:	DATE:	SIGNATURE:
1_G	09/01/25	V.Ramponi

ROSETTI MARINO SpA

CROSSWIND

ROSETTI MARINO

TITLE :
BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET LAYOUT – TOP DECK

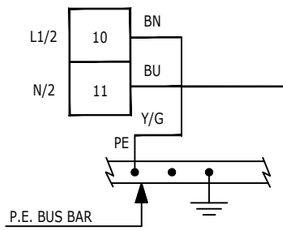
CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK			SCALE 1:150
DRAWN ASR	CHECKED FMA/AMA	APPROVED FPA/DLO	DATE 01/08/24
A1	DRAWING NO. 123A90-DDL-EL-DL-20118	SHEET 2of2	REV. 01

File Name : 123A90-DDL-EL-DL-20118

FROM	TO

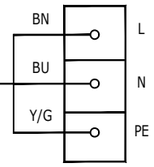
DESCRIPTION: LIGHTING & SMALL POWER DB BOP
TAG NUMBER: DP-200N1

CUBICLE/CB: +01/Q2

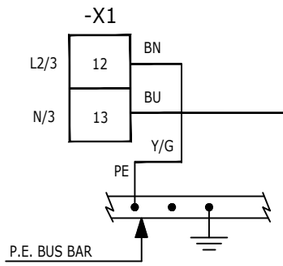


P-EJB-200N1-02-L1-01
3G4 mm²

DESCRIPTION: NORMAL LIGHTING UPPER DECK - CIRCUIT NO. 1
TAG NUMBER: EJB-200N1-02-L1-01

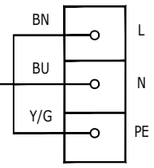


CUBICLE/CB: +02/Q3

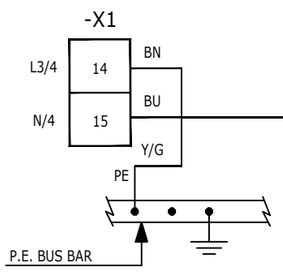


P-EJB-200N1-03-L2-01
3G4 mm²

DESCRIPTION: NORMAL LIGHTING LOWER DECK - CIRCUIT NO. 1
TAG NUMBER: EJB-200N1-03-L2-01

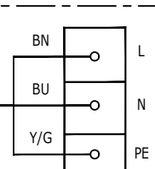


CUBICLE/CB: +02/Q4

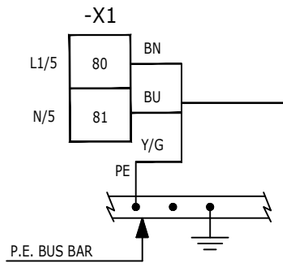


P-EJB-200N1-04-L3-01
3G4 mm²

DESCRIPTION: NORMAL LIGHTING - STAIRS
TAG NUMBER: EJB-200N1-04-L3-01

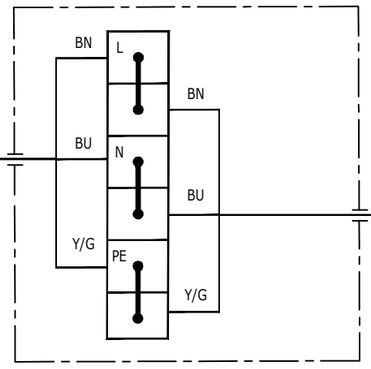


CUBICLE/CB: +03/Q5



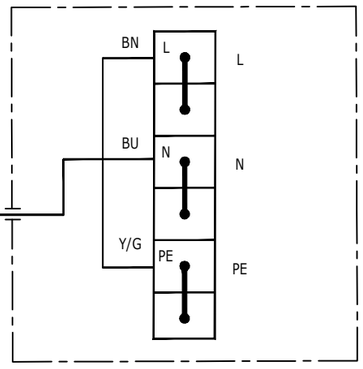
P-ESO-200N1-05-L1-01
3G10 mm²

DESCRIPTION: SMALL POWER SOCKET JB(UPPER DECK)
TAG NUMBER: ESO-200N1-05-L1-01



P-ESO-200N1-05-L1-02
3G10 mm²

DESCRIPTION: SMALL POWER SOCKET JB(UPPER DECK)
TAG NUMBER: ESO-200N1-05-L1-02



VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DG-20149**

REV.:	DATE:	SIGNATURE:
2_I	20/01/25	G.Randi

ROSETTI MARINO SpA

CROSSWIND

ROSETTI MARINO

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	19/11/24	SAI	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	16/10/24	SAI	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	08/07/24	SAI	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL INTERCONNECTING WIRING DIAGRAM
LIGHTING & SMALL POWER DB BOP

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK | SCALE : 1:X

A3 | DRAWING NO. 123A90-DDL-EL-DG-20149 | SHEET 045 | REV. 02

F.to UNI A3: 420mmx297mm

File Name : 123A90-DDL-EL-DG-20149 Rev. 02

LIGHTING & SMALL POWER DB BoP - DP-200N1

TOP DECK NORMAL LIGHTING

Q02 — KL2 — P-EJB-200N1-02-L1-01 — 3G4

EJB-200N1-02-L1-01 (TYPE: L21N1)
- P-ELF-200N1-02-L1-03 — 3G2.5 Arm. — ELF-200N1-02-L1-03
- P-ELF-200N1-02-L1-04 — 3G2.5 Arm. — ELF-200N1-02-L1-04
- P-ELF-200N1-02-L1-01 — 3G2.5 Arm. — ELF-200N1-02-L1-01
- P-EJB-200N1-02-L1-19 — 3G4 Arm.
- P-EJB-200N1-02-L1-02 — 3G4 Arm.

EJB-200N1-02-L1-02 (TYPE: L21N1)
- P-EJB-200N1-02-L1-05 — 3G4 Arm.
- P-ELF-200N1-02-L1-06 — ~~3G2.5 Arm.~~ 3G4 Arm. — ELF-200N1-02-L1-06
- P-ELF-200N1-02-L1-07 — ~~3G2.5 Arm.~~ 4G4 Arm. — ELF-200N1-02-L1-07
- P-ELF-200N1-02-L1-05 — 3G2.5 Arm. — ELF-200N1-02-L1-05

EJB-200N1-02-L1-03 (TYPE: L21N1)
- P-EJB-200N1-02-L1-07 — 3G4 Arm.
- P-EJB-200N1-02-L1-03 — 3G4 Arm.

EJB-200N1-02-L1-07 (TYPE: L21N1)
- P-EJB-200N1-02-L1-06 — 3G4 Arm.
- P-ELF-200N1-02-L1-10 — 3G2.5 Arm. — ELF-200N1-02-L1-10

EJB-200N1-02-L1-06 (TYPE: L21N1)
- P-ELF-200N1-02-L1-09 — 3G2.5 Arm. — ELF-200N1-02-L1-09
- P-ELF-200N1-02-L1-08 — 3G2.5 Arm. — ELF-200N1-02-L1-08

EJB-200N1-02-L1-09

EJB-200N1-02-L1-03 (TYPE: L21N1)
- P-EJB-200N1-02-L1-08 — 3G4 Arm.
- P-EJB-200N1-02-L1-13 — 3G4 Arm.

EJB-200N1-02-L1-08 (TYPE: L21N1)
- P-EJB-200N1-02-L1-09 — 3G4 Arm.
- P-ELF-200N1-02-L1-11 — 3G2.5 Arm. — ELF-200N1-02-L1-11

EJB-200N1-02-L1-09 (TYPE: L21N1)
- P-ELF-200N1-02-L1-12 — 3G2.5 Arm. — ELF-200N1-02-L1-12
- P-ELF-200N1-02-L1-13 — 3G2.5 Arm. — ELF-200N1-02-L1-13

EJB-200N1-02-L1-13 (TYPE: L21N1)
- P-ELF-200N1-02-L1-14 — ~~3G2.5 Arm.~~ — ~~ELF-200N1-02-L1-14~~
- P-ELF-200N1-02-L1-15 — ~~3G2.5 Arm.~~ — ~~ELF-200N1-02-L1-15~~

EJB-200N1-02-L1-19 (TYPE: L21N1)
- P-EJB-200N1-02-L1-10 — 3G4 Arm.
- P-ELF-200N1-02-L1-25 — 3G2.5 Arm. — ELF-200N1-02-L1-25

EJB-200N1-02-L1-10 (TYPE: L21N1)
- P-ELF-200N1-02-L1-16 — 3G2.5 Arm. — ELF-200N1-02-L1-16

EJB-200N1-02-L1-18 (TYPE: L21N1)
- P-EJB-200N1-02-L1-17 — 3G4 Arm.
- P-ELF-200N1-02-L1-24 — 3G2.5 Arm. — ELF-200N1-02-L1-24

EJB-200N1-02-L1-17 (TYPE: L21N1)
- P-ELF-200N1-02-L1-23 — 3G2.5 Arm. — ELF-200N1-02-L1-23

EJB-200N1-02-L1-13 (TYPE: L21N1)
- P-ELF-200N1-02-L1-19 — 3G2.5 Arm. — ELF-200N1-02-L1-19
- P-EJB-200N1-02-L1-14 — 3G4 Arm.

EJB-200N1-02-L1-14 (TYPE: L21N1)
- P-ELF-200N1-02-L1-20 — 3G2.5 Arm. — ELF-200N1-02-L1-20
- P-EJB-200N1-02-L1-20 — 3G4 Arm.

EJB-200N1-02-L1-20 (TYPE: L21N1)
- P-ELF-200N1-02-L1-02 — 3G2.5 Arm. — ELF-200N1-02-L1-02
- P-EJB-200N1-02-L1-15 — 3G4 Arm.

EJB-200N1-02-L1-15 (TYPE: L21N1)
- P-ELF-200N1-02-L1-21 — 3G2.5 Arm. — ELF-200N1-02-L1-21
- P-EJB-200N1-02-L1-16 — 3G4 Arm.

EJB-200N1-02-L1-16 (TYPE: L21N1)
- P-ELF-200N1-02-L1-22 — 3G2.5 Arm. — ELF-200N1-02-L1-22
- P-EJB-200N1-02-L1-12 — 3G4 Arm.

EJB-200N1-02-L1-12 (TYPE: L21N1)
- P-ELF-200N1-02-L1-18 — 3G2.5 Arm. — ELF-200N1-02-L1-18
- P-EJB-200N1-02-L1-11 — 3G4 Arm.

EJB-200N1-02-L1-11 (TYPE: L21N1)
- P-ELF-200N1-02-L1-17 — 3G2.5 Arm. — ELF-200N1-02-L1-17

VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DG-20125**

REV.:	DATE:	SIGNATURE:
2_G	16/01/25	G.Randi

ROSETTI MARINO SpA

CROSSWIND

ROSETTI MARINO

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	08/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	01/07/24	ASR	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

TITLE : BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET CIRCUIT DIAGRAM
TOP DECK–NORMAL LIGHTING

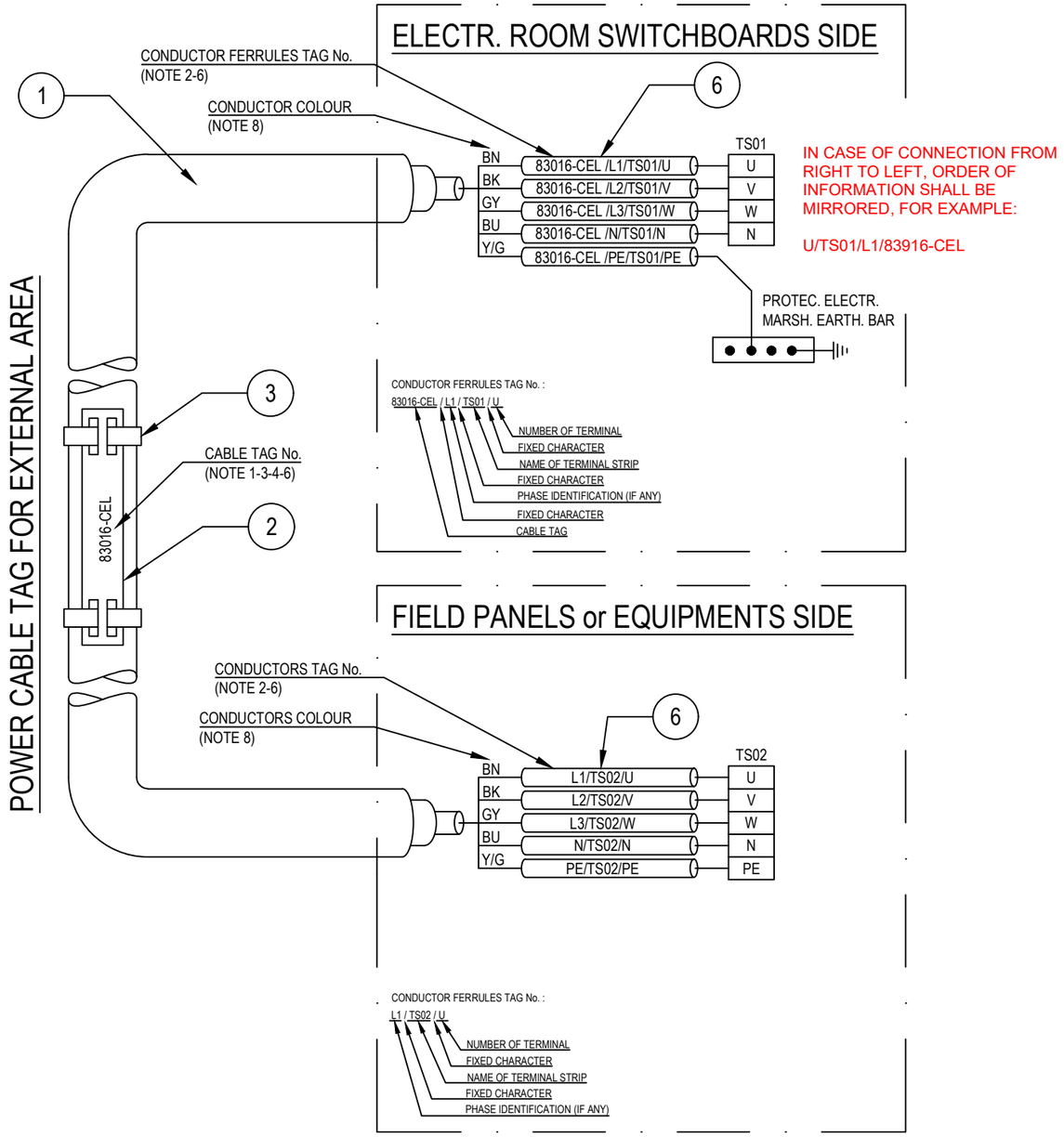
CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK | SCALE : NTS

A3 | DRAWING NO. 123A90–DDL–EL–DG–20125 | SHEET 010 | REV. 01

F.to UNI A3: 420mmx297mm

File Name : 123A90–DDL–EL–DG–20125

C02



POS.	DESCRIPTION	MATERIAL	SIZE	Q.TY	NOTE
1	UNARMOURED CABLE				
2	CABLE TAG FOR EXTERNAL AREA	HDG/SS			NOTE 1 NOTE 4
3	TIE FOR CABLE TAG IN EXTERNAL AREA	HDG/SS			
4	CABLE TAG FOR INTERNAL AREA	PVC			NOTE 1 NOTE 5
5	TIE FOR CABLE TAG IN INTERNAL AREA	NYLON 6.6			
6	CORE FERRULES	PVC			

NOTES:

1) ALL CABLES SHALL BE IDENTIFIED AT EACH TERMINATION AND EACH SIDE OF ANY OBSTACLE (E.G. CABLE TRANSIT ON WALLS INSIDE SHELTER AND FLOOR DECK CROSSING, BY THEIR RESPECTIVE TAGS/NUMBERS, AS INDICATED ON THE CABLE SCHEDULE.
CABLE IDENTIFICATION SHALL BE ALSO DONE BELOW AND IN THE SWITCHBOARD CABLE COMPARTMENT.

2) CABLE CORE FERRULES SHALL BE FITTED AT EVERY TERMINATION. THESE FERRULES SHALL BE OF ENGRAVED PLASTIC SLIP ON, INTERLOCKED AND SELF GRIP TYPE.

3) ON CABLE TRAYS OR LADDERS, CABLES SHALL BE IDENTIFIED AT EACH END, AND EVERY 25 METERS.

4) THE CABLE TAG FOR EXTERNAL AREA SHALL DONE BY 316L STAINLESS STEEL LABELS, TAG (H=5mm) SHALL BE LASER PRINTED PREFERABLY OR EMBOSSED, LABEL HELD BY TWO 316L STAINLESS STEEL TIES.

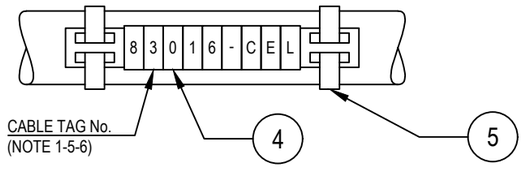
5) THE CABLE TAG FOR INTERNAL AREA SHALL BE DONE BY ENGRAVED PLASTIC SLIP ON CHARACTERS ONTO PLASTIC TIE, BLACK LETTER (H=5mm) ON WHITE.

6) CABLE AND CONDUCTOR TAG ARE INDICATIVE ONLY.

7) WITHIN TECHNICAL BUILDING, PROTECTIVE CONDUCTOR SHALL BE TAGGED BETWEEN FOLLOWING ITEMS:
- PANEL (SWITCHBOARD, SWITCHGEAR, DISTRIBUTION BOARD, ETC) AND EARTH BAR
- EARTH BAR AND EARTH BOSS

8) ONLY IF NECESSARY, SHRINK TUBES OF THE APPROPRIATE COLOR WILL BE INSTALLED TO COVER THE WRONG CONDUCTOR COLOR, THIS WILL BE PERFORMED IN EACH SIDE OF THE CABLES WHERE NECESSARY.

POWER CABLE TAG FOR INTERNAL AREA



VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DD-20092**

REV.:	DATE:	SIGNATURE:
2_B	28/11/24	G.Randi

ROSETTI MARINO SpA

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	28/08/24	GRA	AMA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	04/07/24	NLK	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	21/11/23	SPS	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL TYPICAL INSTALLATION DETAILS-POWER SYSTEM & CABLE INSTALLATION
CABLES INSTALLATION SYSTEM IDENTIFICATION FOR POWER CABLES

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK | SCALE : NTS

A3	DRAWING NO.	SHEET	REV.
	123A90-DDL-EL-DD-20092	007	02

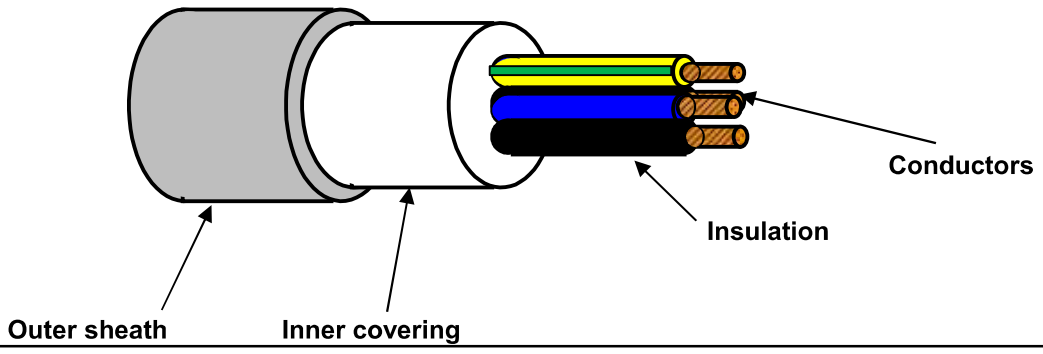
F.to UNI A3: 420mmx297mm

File Name : 123A90-DDL-EL-DD-20092 REV.02.DWG

Tag Number	Category	Disciplir	Eng Statu	NativeDoc	Layout	Parent Tag	Main Function	Secondary Fun	Area	From Tag	From Main Function	From Area	To Tag	To Main Function	To Area	Material ID	Material Desc.	Gland Standard	From Glan	From Entry	From Fitt	To Gland	To Entry	To Fitting	Routing	Routing Manual
P-EJB-200N1-02-L1-01	Cable	EL	VFC	123A90-DDL-EL-LIS-20148						DP-200N1	LV 0,4 / 0,23 kV Distribution Switchgear	Lower Deck (B-200)	EJB-200N1-02-L1-01	Normal Lighting JB	Upper Deck	ELECV07-3G4	Cable Cu Cl.2/EPR/LSZH 0,6/1kV 3G4mm² - Grey	M25	n.a.			T1_M25_Single				L-450-101-LVT-030 / L-600-101-LVT-020 / L-600-101-LVT-019 / L-600-101-LVT-017 / E-MCT-203 / L-750-101-LVT-013 / L-750-101-LVT-015 / L-300-101-LVT-073 / E-MCT-U03 / L-300-102-LVT-002

Cu Cl.2/EPR/LSZH 0,6/1 KV

3G4 - L.V. POWER CABLE - Flame Retardant



TECHNICAL FEATURES

Conductors :	**STRANDED** plain/bare annealed copper wires	IEC 60228 Class 2
Insulation :	EPR compound, quality to IEC 60092.360, Nominal Thickness 1,0 mm	
Cores colour code :	**Brown - Blue - Yellow/Green**	
Pair Assembling :	Not required	
Pair Wrapping:	Not required	
Drain wire :	Not required	
Pair Shield :	Not required	
Shield Insulation :	Not Required	
Total Assembling :	Cores layed up with optimal lay length	
Overall Wrapping:	Not required	
Drain wire :	Not required	
Overall Shield:	Not required	
Inner covering :	Extruded LSZH compound, Average Thickness 1,0 mm	
Inner covering color code:	**Black or Natural**	
Armour :	Not required	
Outer sheath :	Extruded LSZH Thermoplastic Compound (O.I. ≥ 30%), type **SHF1** to IEC 60092.360, Average Thickness 1,2 mm	
Outer sheath color code:	**Grey**	
Outer printing (INKJET) :	**FLEI - ELECTRIC CABLE - 1000V - 3G4 SQMM - EPR/LSZH - 0,6/1 KV - IEC 60332.1.2 - IEC 60332.3.22 - Year of Manufacture - CE + Meter Marking**	
Outer diameter :	(14,3 ± 10%) mm	
Bending radius :	cable outer diameter x 10	(in fixed installation)
Voltage test :	3,5 kV a.c. for 5' (Between Cores)	
Conductors DC Resistance :		IEC 60228 Class 2
Insulation Resistance :	≥ 1100 MΩ x Km (@ 20°C)	
Applicable Standards		
Design Guidelines :	**IEC 60092.353**	
ON COMPLETE CABLE		
Flame Retardant test :	IEC 60332.1.2 - IEC 60332.3.22	
Acid Gas generation :	IEC 60754.1/2	
Smoke density/Light Transmittance :	IEC 61034.2 (LT ≥ 60%)	
Hazardous Areas :	IEC 60079.14:2013 par.9.3.2a	
Temperature Range :		
ON INSULATION	(max +90°C)	(max continuous operation temperature of conductors)
	(max +250°C)	(max conductors temperature during short-circuit for 5 seconds)
ON COMPLETE CABLE		
During Operation :	(-20°C up to +90°C)	(in fixed installation)
During installation :	(- 5°C up to +50°C)	
Note :	**To meet the requirements of installation and use in Zone 1 & Zone 2 (IEC 60079-14) and "Gas & Vapour Tight" the cable must be provided with Penetrating Inner covering together with correct ATEX approved equipment or accessories.**	

Office	Date	Sign	Rev.	Date	Sign
Drawn by :	30/05/2024	Messa			
Checked :	30/05/2024	Spaccasassi			
Approved :	30/05/2024	Cucinotta			

The data provided, lending assent for the treatment, will be used to the sense of the article 13 of of the Regulation (UE) 2016/679, also through outsiders, in order to allow the realization of the fulfilments informatives, administrative, commercial and accounting related to the contractual relationship. Integral copy of the informative could be requested at our offices.

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ITEM	Tag	P-ELF-200N1-02-L1-01	: Normal Lighting JB / Normal Lighting Fixture		Dwg	123A90-DDL-EL-LIS-20148	
	S/Sys	83-40	: Normal Lighting Upper Deck		Module	UD	
TASK	code	C10000662	Location	Onshore Activities	User	Rosetti Marino Quality Control	
FORM	Process	MC	Activity CCK	Discipline Electrical	Form	CPX09	LV Power Cable

CABLE DATA

Type Cu Cl.2/MGT/EPR/LSZH/GSWB/LSZH Cores/Size mm² 3G2,5 mm2 Color ORANGE

From ELF-200N1-02-L1-04 To ELF-200N1-02-L1-01

1	Confirm cable is as specified in project cable schedule	OK
2	Visual Check cable physical integrity.	OK
3	Check is installed in accordance with layout drawing (segregation, distance…).	OK
4	Check cable is supported and fixed to rack according to project specification.	Note
5	Check bending radius is within the specified limits.	OK
6	Confirm cable glands suit for cable type, correctly mounted and tightened.	OK
7	Check gland plate for single core cables is non ferrous (non -magnetic).	NA
8	Confirm cable labelling is in accordance with specifications.	PL
9	Check cable is correctly loomed and segregated in accordance with specification.	OK
10	Check cable earthing against lastest drawings.	OK
11	Check cores marking are in accordance with termination diagram	OK
12	Check terminations are in accordance with latest termination diagram	OK
13	If required produce Red Line Mark Up for "AS BUILT"	

ROSETTI MARINO PROVERLIS CROSSWIND

ITEM	Tag	P-ELF-200N1-02-L1-01	: Normal Lighting JB / Normal Lighting Fixture			Dwg	123A90-DDL-EL-LIS-20148
	S/Sys	83-40	: Normal Lighting Upper Deck			Module	UD
TASK	code	C10000662		Location	Onshore Activities	User	Rosetti Marino Quality Control
FORM	Process	MC	Activity CCK	Discipline	Electrical	Form	CPX09 LV Power Cable

CONTINUITY				
5	CORE CONTINUITY Ω	PH 1	0,2	
6		PH 2	0,2	
7		PH 3	NA	
8	ARMOUR CONTINUITY Ω		0,2	
9	PROTECTIVE CONDUCTOR CONTINUITY Ω		NA	
INSULATION				
10	CORES / ARMOUR+EARTH MΩ	PH1 / PH2-PH3-A-E	>999	
11		PH2 / PH1-PH3-A-E	>999	
12		PH3 / PH1-PH2-A-E	NA	
13	CABLE IS CORRECTLY RE-CONNECTED.		Yes	

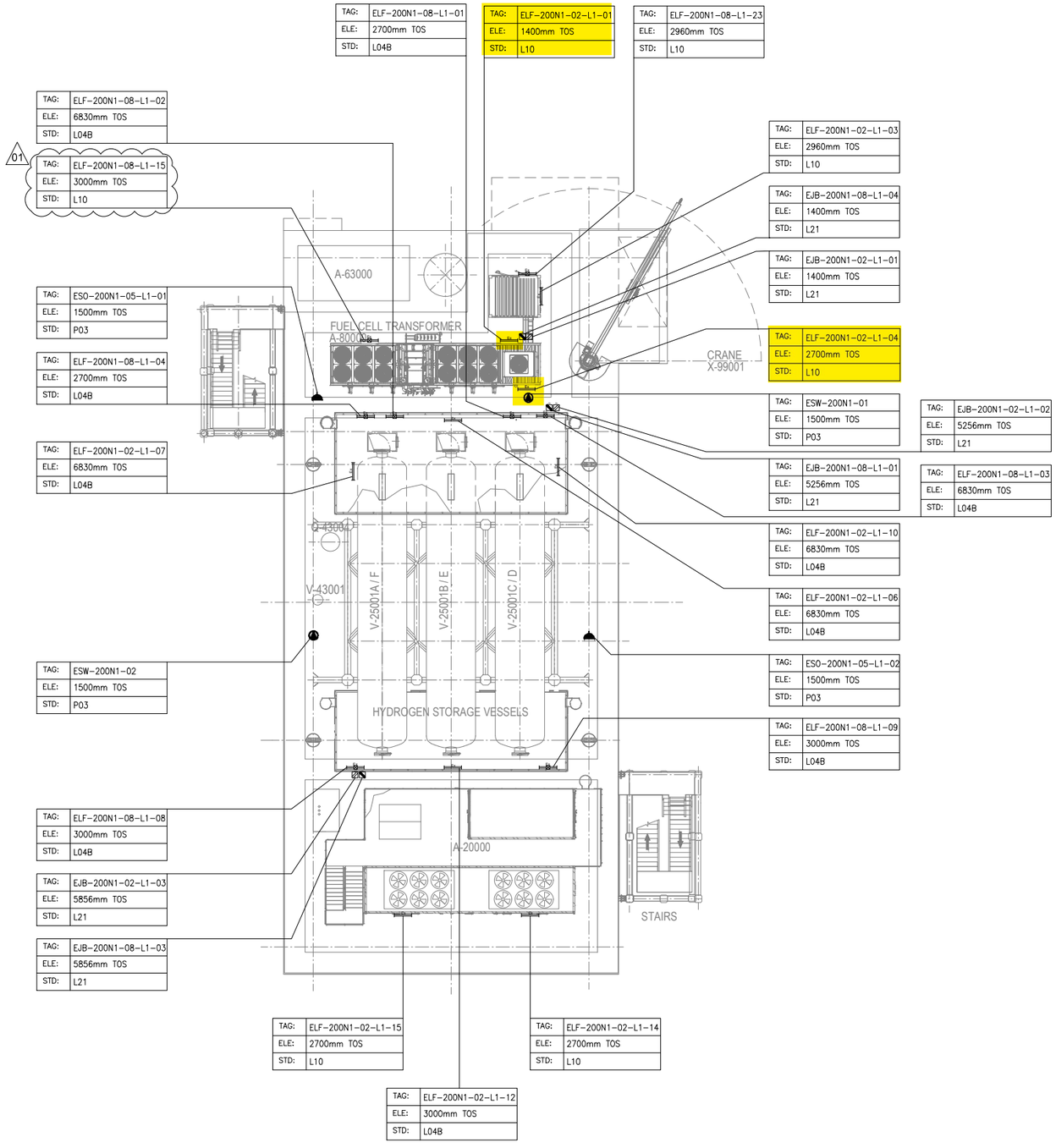
TESTING INSTRUMENTS USED			
TYPE / SERIAL N° :	MEGGER : KEW3125A SERIAL: W8330207	TYPE / SERIAL N° :	MULTIMETER: FLUKE 175 SERIAL:AW1/018(17140769
Calibration certificate N° and date:	N°7722/24 _ 10/07/2024	Calibration certificate N° and date:	N°7715/24 _ 10/07/2024

Comments: Nota 4: refer to PL C30000681

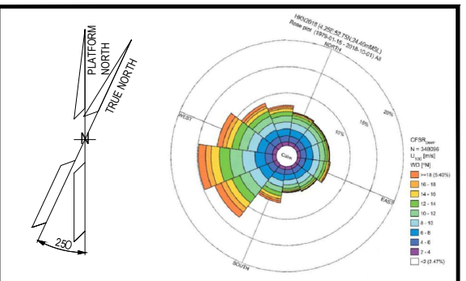
	Performed by	● WITNESS ☐ REVIEW	☐ WITNESS ☐ REVIEW
Company	ICS IMPIANTI	RM(ROSETTI MARINO)	
Name	Michele Tartaglia	Andrea Andreani	
Date	2025-01-08	2025-01-14	
Signature	PROVERLIS Digitaly signed by Michele Tartaglia 2025-01-08T10:12:29.764Z	PROVERLIS Digitaly signed by Andrea Andreani 2025-01-14T15:39:24.445Z	

DRAWING NO. 123A90-DDL-EL-DL-20118

REV. 01



PLAN ON UPPER DECK
EL+30.310 T.O.S.



NOTES

1. ALL DIMENSIONS AND ELEVATIONS ARE GIVEN IN mm UNLESS OTHERWISE NOTED.
2. ELEVATIONS REFER TO T.O.S.
3. ELEVATION OF THE LAMPS ARE REFFERED TO THE BOTTOM OF THE LAMP.
4. FOR THE ELEVATION OF JB, REFER TO THE TYPICAL INSTALLATION.

LEGEND

- EMERGENCY LIGHTING JB
- 60W LED EMERGENCY LUMINARIES
- 60W LED EMERGENCY LUMINARIES FIXTURE POLE MOUNTED
- NORMAL LIGHTING JB
- 45W LED NORMAL LUMINARIES
- 45W LED NORMAL LUMINARIES FIXTURE POLE MOUNTED
- WELDING SOCKET WITH INTEGRATED JB
- SMALL POWER SOCKET WITH INTEGRATED JB

JB TAG:	JB-TAG
TAG:	TAG
ELE:	ELEVATION
STD:	STANDARD

VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DL-20118**

REV.:	DATE:	SIGNATURE:
1_B	22/10/24	G.Randi

ROSETTI MARINO SpA

REFERENCE DOCUMENTS

123A90-DDL-PP-DL-70070	PLOT PLAN - LOWER & UPPER DECK
123A90-DDL-EL-DL-20100	ELECTRICAL EQUIPMENT LAYOUT - TOP DECK
123A90-DDL-EL-DD-20091	ELECTRICAL TYPICAL INSTALLATION DETAILS - LIGHTING SYSTEM
123A90-DDL-EL-DD-20092	ELECTRICAL TYPICAL INSTALLATION DETAILS - POWER SYSTEM & CABLE INSTALLATION
123A90-DDL-EL-RE-20153	LIGHTING CALCULATION STUDY REPORT

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	02/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	28/05/24	ASR	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

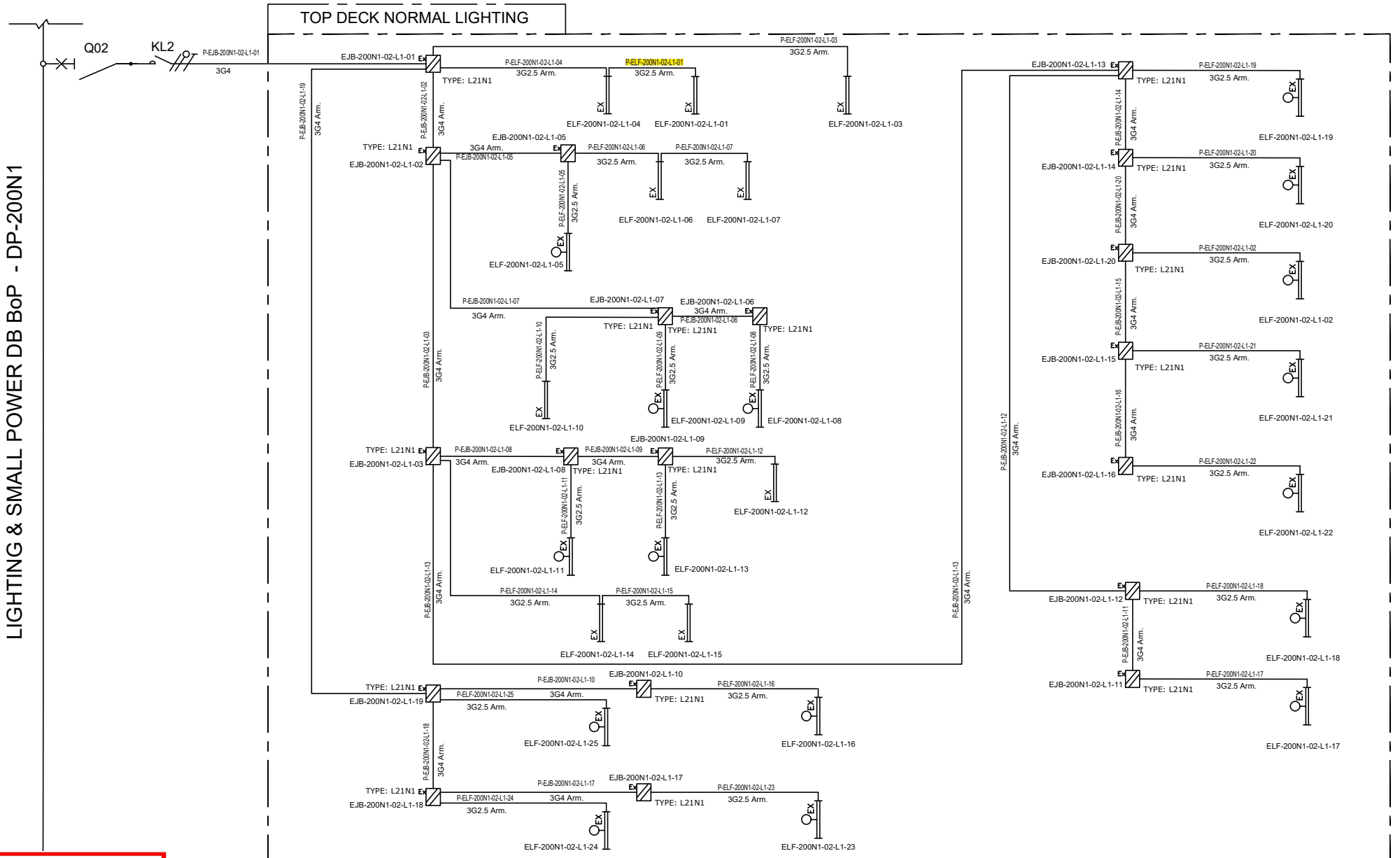
CROSSWIND

ROSETTI MARINO

TITLE :
BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET LAYOUT – TOP DECK

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK			SCALE 1:150
DRAWN ASR	CHECKED FMA/AMA	APPROVED FPA/DLO	DATE 01/08/24
A1	DRAWING NO. 123A90-DDL-EL-DL-20118	SHEET 2of2	REV. 01

File Name : 123A90-DDL-EL-DL-20118



VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DG-20125**

REV.:	DATE:	SIGNATURE:
2_C	20/12/24	V.Ramponi

ROSETTI MARINO SpA

CROSSWIND

ROSETTI MARINO

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	08/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	01/07/24	ASR	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

TITLE : BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET CIRCUIT DIAGRAM
TOP DECK–NORMAL LIGHTING

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE : NTS

A3

DRAWING NO. 123A90–DDL–EL–DG–20125

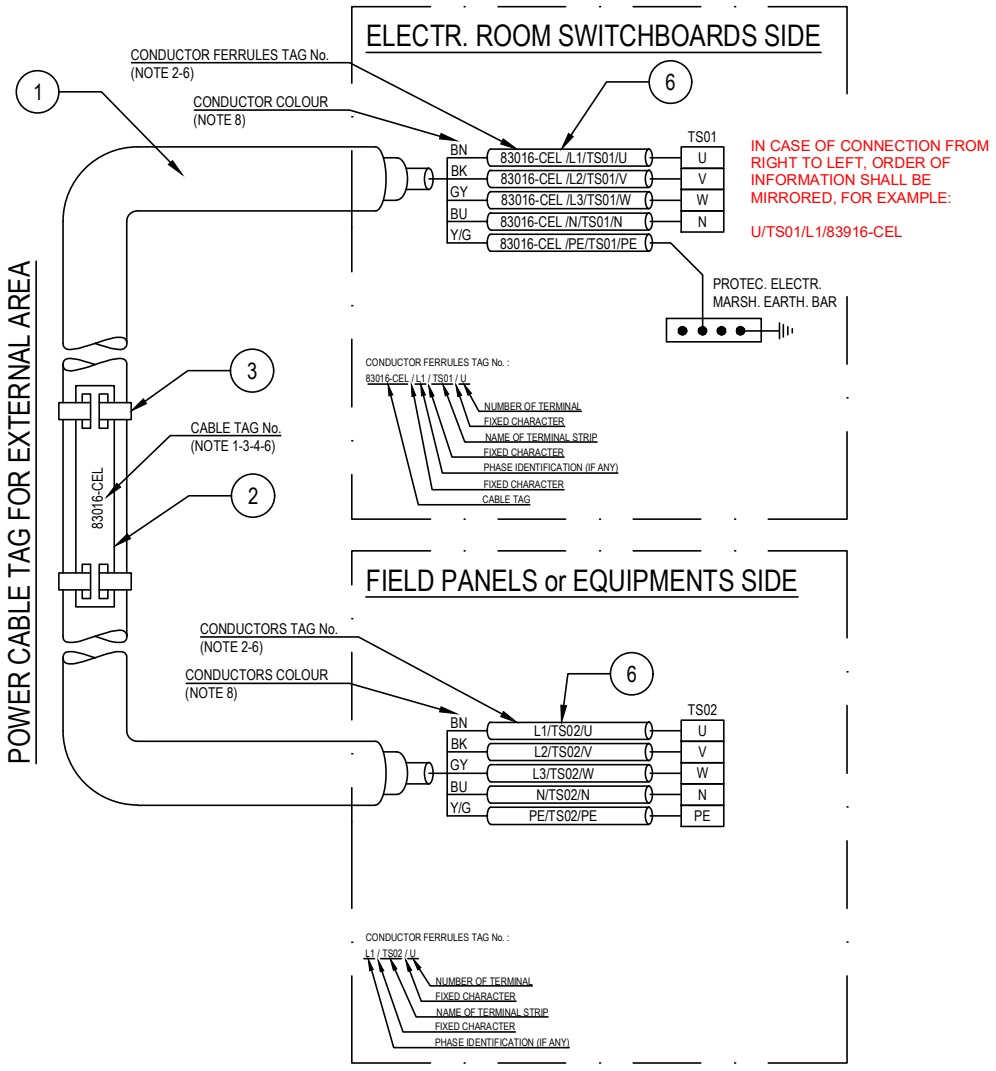
SHEET 010

REV. 01

F.to UNI A3: 420mmx297mm

File Name : 123A90–DDL–EL–DG–20125

C02



POS.	DESCRIPTION	MATERIAL	SIZE	Q.TY	NOTE
1	UNARMOURED CABLE				
2	CABLE TAG FOR EXTERNAL AREA	HDG/SS			NOTE 1 NOTE 4
3	TIE FOR CABLE TAG IN EXTERNAL AREA	HDG/SS			
4	CABLE TAG FOR INTERNAL AREA	PVC			NOTE 1 NOTE 5
5	TIE FOR CABLE TAG IN INTERNAL AREA	NYLON 6.6			
6	CORE FERRULES	PVC			

NOTES:

1) ALL CABLES SHALL BE IDENTIFIED AT EACH TERMINATION AND EACH SIDE OF ANY OBSTACLE (E.G. CABLE TRANSIT ON WALLS INSIDE SHELTER AND FLOOR DECK CROSSING, BY THEIR RESPECTIVE TAGS/NUMBERS, AS INDICATED ON THE CABLE SCHEDULE.
CABLE IDENTIFICATION SHALL BE ALSO DONE BELOW AND IN THE SWITCHBOARD CABLE COMPARTMENT.

2) CABLE CORE FERRULES SHALL BE FITTED AT EVERY TERMINATION. THESE FERRULES SHALL BE OF ENGRAVED PLASTIC SLIP ON, INTERLOCKED AND SELF GRIP TYPE.

3) ON CABLE TRAYS OR LADDERS, CABLES SHALL BE IDENTIFIED AT EACH END, AND EVERY 25 METERS.

4) THE CABLE TAG FOR EXTERNAL AREA SHALL DONE BY 316L STAINLESS STEEL LABELS, TAG (H=5mm) SHALL BE LASER PRINTED PREFERABLY OR EMBOSSED, LABEL HELD BY TWO 316L STAINLESS STEEL TIES.

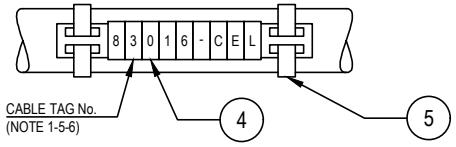
5) THE CABLE TAG FOR INTERNAL AREA SHALL BE DONE BY ENGRAVED PLASTIC SLIP ON CHARACTERS ONTO PLASTIC TIE, BLACK LETTER (H=5mm) ON WHITE.

6) CABLE AND CONDUCTOR TAG ARE INDICATIVE ONLY.

7) WITHIN TECHNICAL BUILDING, PROTECTIVE CONDUCTOR SHALL BE TAGGED BETWEEN FOLLOWING ITEMS:
- PANEL (SWITCHBOARD, SWITCHGEAR, DISTRIBUTION BOARD, ETC) AND EARTH BAR
- EARTH BAR AND EARTH BOSS

8) ONLY IF NECESSARY, SHRINK TUBES OF THE APPROPRIATE COLOR WILL BE INSTALLED TO COVER THE WRONG CONDUCTOR COLOR, THIS WILL BE PERFORMED IN EACH SIDE OF THE CABLES WHERE NECESSARY.

POWER CABLE TAG FOR INTERNAL AREA



VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DD-20092**

REV.:	DATE:	SIGNATURE:
2_D	20/12/24	V.Ramponi

ROSETTI MARINO SpA

CROSSWIND

ROSETTI MARINO

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	28/08/24	GRA	AMA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	04/07/24	NLK	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	21/11/23	SPS	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL TYPICAL INSTALLATION DETAILS-POWER SYSTEM & CABLE INSTALLATION
CABLES INSTALLATION SYSTEM IDENTIFICATION FOR POWER CABLES

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK | SCALE : NTS

A3 | DRAWING NO. 123A90-DDL-EL-DD-20092 | SHEET 007 | REV. 02

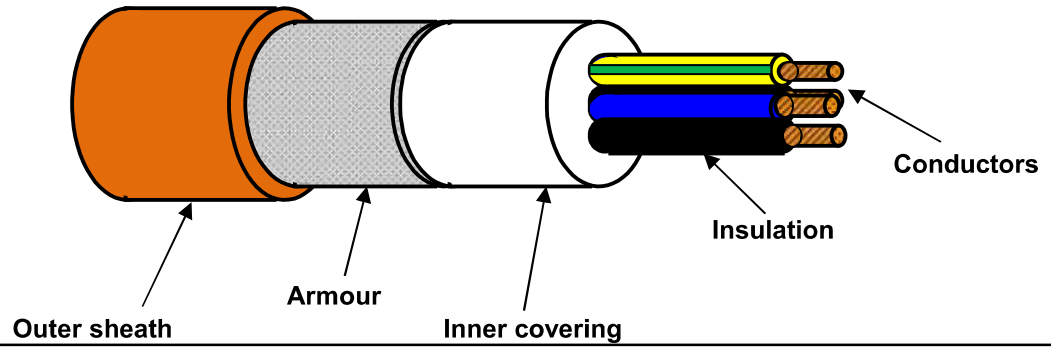
F.to UNI A3: 420mmx297mm

File Name : 123A90-DDL-EL-DD-20092 REV.02.DWG

Tag Number	Category	Disciplir	Eng Statu	NativeDoc	Layout	Parent Tag	Main Function	Secondary Fun	Area	From Tag	From Main Function	From Area	To Tag	To Main Function	To Area	Material ID	Material Desc.	Gland Standard	From Glan	From Entry	From Fitti	To Gland	To Entry	To Fitting	Routing	Routing Manual
P-ELF-200N1-02-L1-01	Cable	LSP	VFC	123A90-DDL-EL-LIS-20148						ELF-200N1-02-L1-04	Normal Lighting Fixture	Upper Deck	ELF-200N1-02-L1-01	Normal Lighting Fixture	Upper Deck	ELECV19-3G2,5	Cable Cu Cl.2/MGT/EPR/LSZH/GSWB/LSZH 0,6/1kV 3G2,5mm² - Orangee	M20	T2_M20_ Double			T2_M20_Double				L-50-102-LVT-073 / L-50-102-LVT-072

Cu Cl.2/MGT/EPR/LSZH/GSWB/LSZH 0,6/1 KV

3G2,5 - L.V. POWER CABLE - Fire Resistant & Flame Retardant - ARMOURED



TECHNICAL FEATURES

Conductors :	**STRANDED** plain/bare annealed copper wires	IEC 60228 Class 2
Insulation :	Mica/Glass Tape (MGT) plus EPR compound, quality to IEC 60092.360, Nominal Thickness 1,0 mm	
Cores colour code :	**Brown - Blue - Yellow/Green**	
Pair Assembling :	Not required	
Pair Wrapping:	Not required	
Drain wire :	Not required	
Pair Shield :	Not required	
Shield Insulation :	Not Required	
Total Assembling :	Cores layed up with optimal lay length	
Overall Wrapping:	Not required	
Drain wire :	Not required	
Overall Shield:	Not required	
Inner covering :	Extruded LSZH compound, Average Thickness 1,0 mm	
Inner covering color code:	**Black or Natural**	
Armour :	**Galvanized Steel Wire Braid Armour (coverage ≥ 90%)**	
Outer sheath :	Extruded LSZH Thermoplastic Compound (O.I. ≥ 30%), type **SHF1** to IEC 60093.360, Average Thickness 1,3 mm	
Outer sheath color code:	**Orange**	
Outer printing (INKJET) :	**FLEI - ELECTRIC CABLE - 1000V - 3G2,5 SQMM - MGT/EPR/LSZH/GSWB/LSZH - 0,6/1 KV - IEC 60331.21 - IEC 60332.1.2 - IEC 60332.3.22 - Year of Manufacture - CE + Meter Marking**	
Under Armour diameter :	(11,7 ± 10%) mm	
Over Armour diameter :	(12,9 ± 10%) mm	
Outer diameter :	(15,5 ± 10%) mm	
Bending radius :	cable outer diameter x 10	(in fixed installation)
Voltage test :	3,5 kV a.c. for 5' (Between Cores - Armour)	
Conductors DC Resistance :		IEC 60228 Class 2
Insulation Resistance :	≥ 940 MΩ x Km (@ 20°C)	
Applicable Standards		
Design Guidelines :	**IEC 60092.353**	
ON COMPLETE CABLE		
Fire Resistant test :	**IEC 60331.21**	
Flame Retardant test :	IEC 60332.1.2 - IEC 60332.3.22	
Acid Gas generation :	IEC 60754.1/2	
Smoke density/Light Transmittance	IEC 61034.2 (LT ≥ 60%)	
Temperature Range :		
ON INSULATION	(max +90°C)	(max continuous operation temperature of conductors)
	(max +250°C)	(max conductors temperature during short-circuit for 5 seconds)
ON COMPLETE CABLE		
During Operation :	(-20°C up to +90°C)	(in fixed installation)
During installation :	(- 5°C up to +50°C)	
Note :	**To meet the requirements of installation and use in Zone 1 & Zone 2 (IEC 60079-14) and "Gas & Vapour Tight" the cable must be provided with Penetrating Inner covering together with correct ATEX approved equipment or accessories.**	

Office	Date	Sign	Rev.	Date	Sign
Drawn by :	29/03/2024	Messa			
Checked :	29/03/2024	Spaccasassi			
Approved :	29/03/2024	Cucinotta			

The data provided, lending assent for the treatment, will be used to the sense of the article 13 of of the Regulation (UE) 2016/679, also through outsiders, in order to allow the realization of the fulfilments informatives, administrative, commercial and accounting related to the contractual relationship. Integral copy of the informative could be requested at our offices.

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ITEM	Tag	P-ELF-200N1-02-L1-02	: Normal Lighting Fixture / Normal Lighting Fixture			Dwg	123A90-DDL-EL-LIS-20148
	S/Sys	83-40	: Normal Lighting Upper Deck			Module	UD
TASK	code	C10000663		Location	Onshore Activities	User	Rosetti Marino Quality Control
FORM	Process	MC	Activity CCK	Discipline	Electrical	Form	CPX09 LV Power Cable

CABLE DATA

Type P5 | Cores/Size mm² 3G2.5 | Color Orange

From EJB-200N1-02-L1-20 To ELF-200N1-02-L1-02

1	Confirm cable is as specified in project cable schedule	OK
2	Visual Check cable physical integrity.	PL
3	Check is installed in accordance with layout drawing (segregation, distance…).	PL
4	Check cable is supported and fixed to rack according to project specification.	Note
5	Check bending radius is within the specified limits.	OK
6	Confirm cable glands suit for cable type, correctly mounted and tightened.	PL
7	Check gland plate for single core cables is non ferrous (non -magnetic).	NA
8	Confirm cable labelling is in accordance with specifications.	PL
9	Check cable is correctly loomed and segregated in accordance with specification.	OK
10	Check cable earthing against lastest drawings.	OK
11	Check cores marking are in accordance with termination diagram	OK
12	Check terminations are in accordance with latest termination diagram	OK
13	If required produce Red Line Mark Up for "AS BUILT"	

ITEM	Tag	P-ELF-200N1-02-L1-02	: Normal Lighting Fixture / Normal Lighting Fixture			Dwg	123A90-DDL-EL-LIS-20148
	S/Sys	83-40	: Normal Lighting Upper Deck			Module	
TASK	code	C10000663		Location	Onshore Activities	User	Rosetti Marino Quality Control
FORM	Process	MC	Activity CCK	Discipline	Electrical	Form	CPX09 LV Power Cable

	CONTINUITY			
5	CORE CONTINUITY Ω	PH 1	0,2	
6		PH 2	0,2	
7		PH 3	NA	
8	ARMOUR CONTINUITY Ω		0,2	
9	PROTECTIVE CONDUCTOR CONTINUITY Ω		NA	
	INSULATION			
10	CORES / ARMOUR+EARTH MΩ	PH1 / PH2-PH3-A-E	>999	
11		PH2 / PH1-PH3-A-E	>999	
12		PH3 / PH1-PH2-A-E	NA	
13	CABLE IS CORRECTLY RE-CONNECTED.		Yes	

TESTING INSTRUMENTS USED

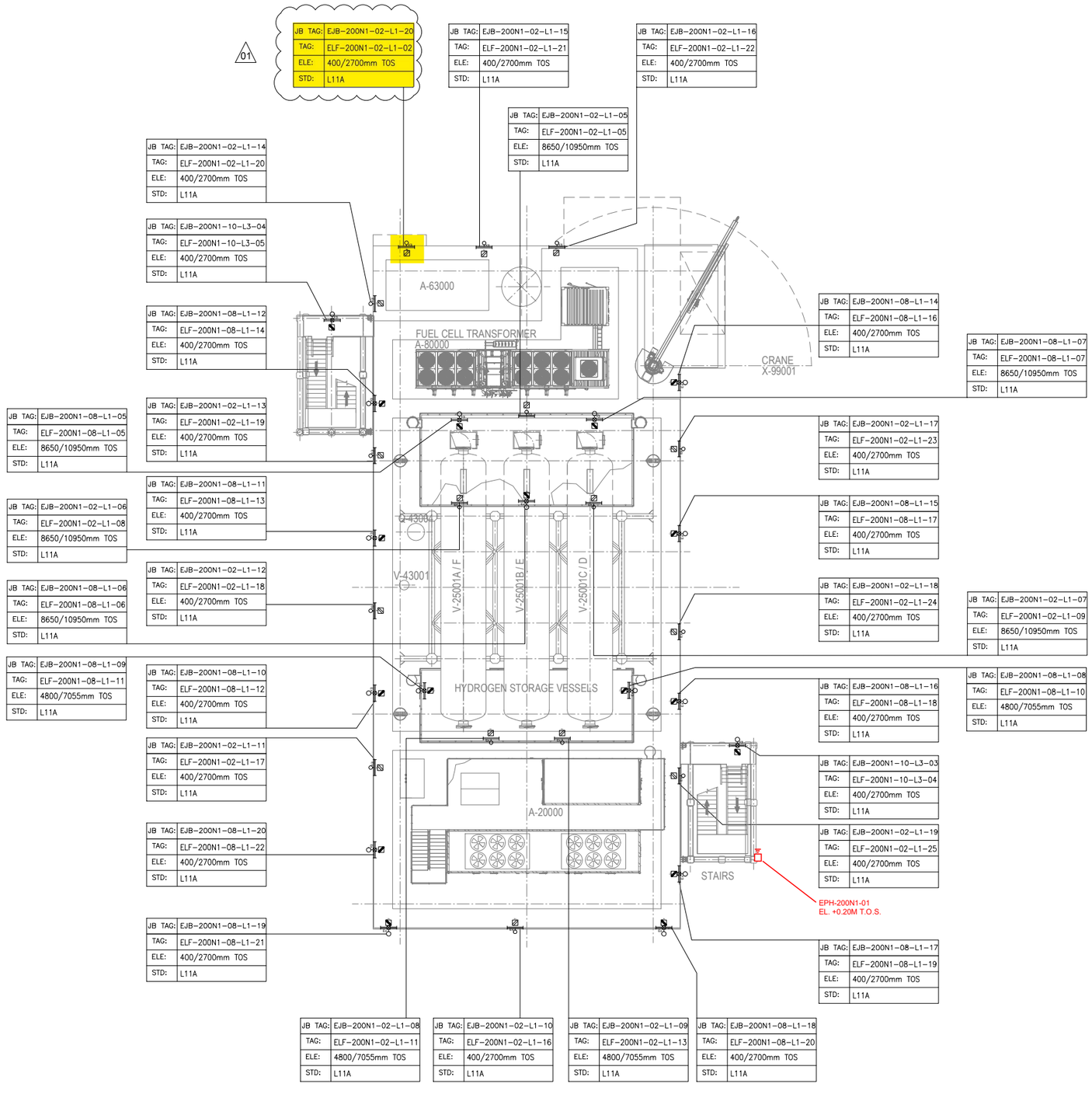
TYPE / SERIAL N° :	MEGGER : KEW3125A SERIAL: W8330207	TYPE / SERIAL N° :	MULTIMETER: FLUKE 175 SERIAL:AW1/018(17140769
Calibration certificate N° and date:	N°7722/24 _ 10/07/2024	Calibration certificate N° and date:	N°7715/24 _ 10/07/2024

Comments: Nota 4: refer to PL C30000679

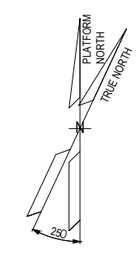
	Performed by	☉ WITNESS ☐ REVIEW	☐ WITNESS ☐ REVIEW
Company	ICS IMPIANTI	RM(ROSETTI MARINO)	
Name	Carmelo Bongiovanni	Andrea Andreani	
Date	2024-11-22	2024-12-06	
Signature	PROVERLIS Digitaly signed by Carmelo Bongiovanni 2024-11-22T17:17:44.501Z	PROVERLIS Digitaly signed by Andrea Andreani 2024-12-06T17:33:41.196Z	

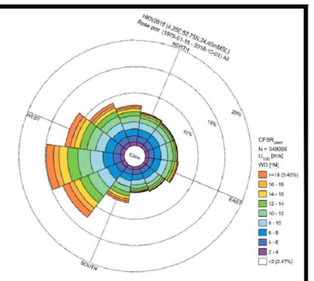
DRAWING NO. 123A90-DDL-EL-DL-20118

REV. 01



PLAN ON UPPER DECK
EL+30.310 T.O.S.





NOTES

1. ALL DIMENSIONS AND ELEVATIONS ARE GIVEN IN mm UNLESS OTHERWISE NOTED.
2. ELEVATIONS REFER TO T.O.S.
3. ELEVATION OF THE LAMPS ARE REFFERED TO THE BOTTOM OF THE LAMP.
4. FOR THE ELEVATION OF JB, REFER TO THE TYPICAL INSTALLATION.

LEGEND

- EMERGENCY LIGHTING JB
- 60W LED EMERGENCY LUMINARIES
- 60W LED EMERGENCY LUMINARIES FIXTURE POLE MOUNTED
- NORMAL LIGHTING JB
- 45W LED NORMAL LUMINARIES
- 45W LED NORMAL LUMINARIES FIXTURE POLE MOUNTED
- WELDING SOCKET WITH INTEGRATED JB
- SMALL POWER SOCKET WITH INTEGRATED JB
- TWILIGHT RELAY SENSOR

JB TAG:	JB-TAG
TAG:	TAG
ELE:	ELEVATION
STD:	STANDARD

VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DL-20118**

REV.:	DATE:	SIGNATURE:
1_B	22/10/24	G.Randi

ROSETTI MARINO SpA

REFERENCE DOCUMENTS

123A90-DDL-PP-DL-70070	PLOT PLAN - LOWER & UPPER DECK
123A90-DDL-EL-DL-20100	ELECTRICAL EQUIPMENT LAYOUT - TOP DECK
123A90-DDL-EL-DD-20091	ELECTRICAL TYPICAL INSTALLATION DETAILS - LIGHTING SYSTEM
123A90-DDL-EL-DD-20092	ELECTRICAL TYPICAL INSTALLATION DETAILS - POWER SYSTEM & CABLE INSTALLATION
123A90-DDL-EL-RE-20153	LIGHTING CALCULATION STUDY REPORT

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	02/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	28/05/24	ASR	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND | ROSETTI MARINO

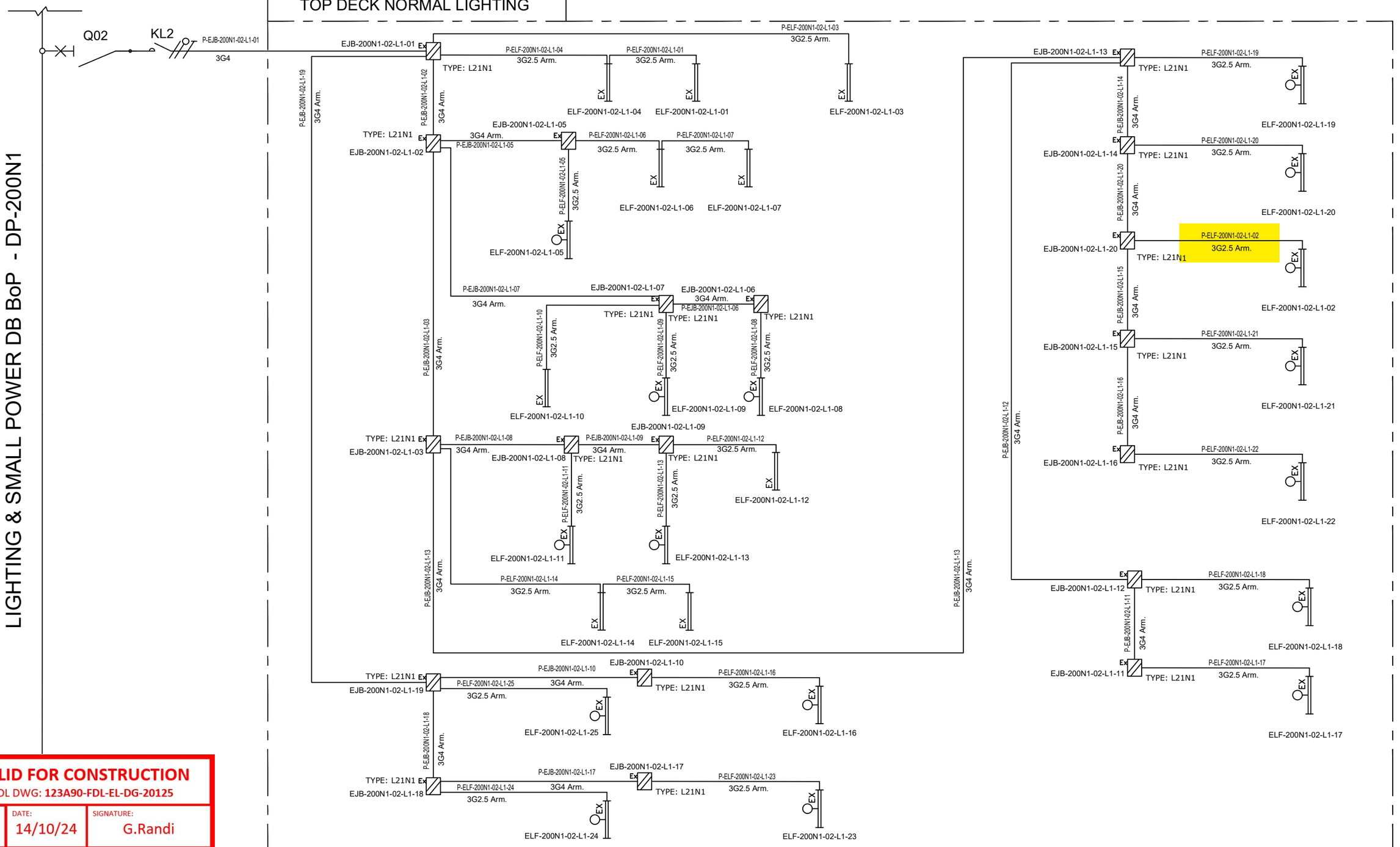
TITLE :
BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET LAYOUT – TOP DECK

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK			SCALE 1:150
DRAWN ASR	CHECKED FMA/AMA	APPROVED FPA/DLO	DATE 01/08/24
A1	DRAWING NO. 123A90-DDL-EL-DL-20118	SHEET 1of2	REV. 01

File Name : 123A90-DDL-EL-DL-20118

LIGHTING & SMALL POWER DB BoP - DP-200N1

TOP DECK NORMAL LIGHTING



VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DG-20125**

REV.:	DATE:	SIGNATURE:
1_B	14/10/24	G.Randi

ROSETTI MARINO SpA

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	08/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	01/07/24	ASR	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

TITLE : BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET CIRCUIT DIAGRAM
TOP DECK–NORMAL LIGHTING

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE : NTS

A3

DRAWING NO. 123A90-DDL-EL-DG-20125

SHEET 010

REV. 01

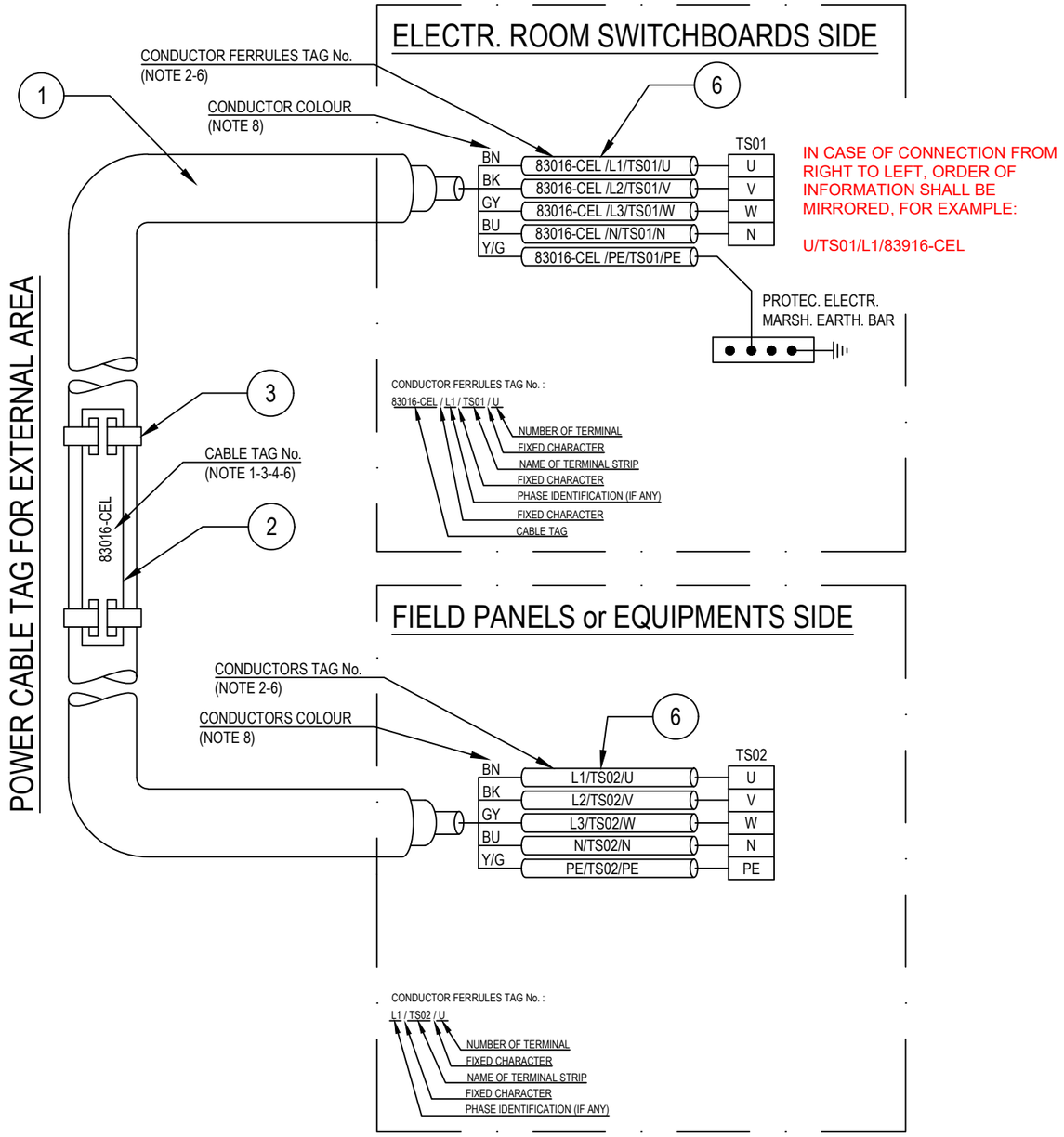
CROSSWIND

ROSETTI MARINO

F.to UNI A3: 420mmx297mm

File Name : 123A90-DDL-EL-DG-20125

C02



POS.	DESCRIPTION	MATERIAL	SIZE	Q.TY	NOTE
1	UNARMOURED CABLE				
2	CABLE TAG FOR EXTERNAL AREA	HDG/SS			NOTE 1 NOTE 4
3	TIE FOR CABLE TAG IN EXTERNAL AREA	HDG/SS			
4	CABLE TAG FOR INTERNAL AREA	PVC			NOTE 1 NOTE 5
5	TIE FOR CABLE TAG IN INTERNAL AREA	NYLON 6.6			
6	CORE FERRULES	PVC			

NOTES:

1) ALL CABLES SHALL BE IDENTIFIED AT EACH TERMINATION AND EACH SIDE OF ANY OBSTACLE (E.G. CABLE TRANSIT ON WALLS INSIDE SHELTER AND FLOOR DECK CROSSING, BY THEIR RESPECTIVE TAGS/NUMBERS, AS INDICATED ON THE CABLE SCHEDULE.
CABLE IDENTIFICATION SHALL BE ALSO DONE BELOW AND IN THE SWITCHBOARD CABLE COMPARTMENT.

2) CABLE CORE FERRULES SHALL BE FITTED AT EVERY TERMINATION. THESE FERRULES SHALL BE OF ENGRAVED PLASTIC SLIP ON, INTERLOCKED AND SELF GRIP TYPE.

3) ON CABLE TRAYS OR LADDERS, CABLES SHALL BE IDENTIFIED AT EACH END, AND EVERY 25 METERS.

4) THE CABLE TAG FOR EXTERNAL AREA SHALL DONE BY 316L STAINLESS STEEL LABELS, TAG (H=5mm) SHALL BE LASER PRINTED PREFERABLY OR EMBOSSED, LABEL HELD BY TWO 316L STAINLESS STEEL TIES.

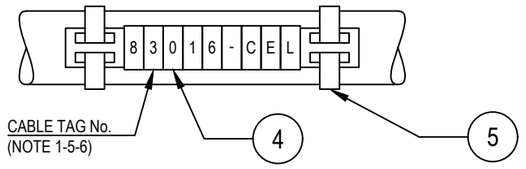
5) THE CABLE TAG FOR INTERNAL AREA SHALL BE DONE BY ENGRAVED PLASTIC SLIP ON CHARACTERS ONTO PLASTIC TIE, BLACK LETTER (H=5mm) ON WHITE.

6) CABLE AND CONDUCTOR TAG ARE INDICATIVE ONLY.

7) WITHIN TECHNICAL BUILDING, PROTECTIVE CONDUCTOR SHALL BE TAGGED BETWEEN FOLLOWING ITEMS:
- PANEL (SWITCHBOARD, SWITCHGEAR, DISTRIBUTION BOARD, ETC) AND EARTH BAR
- EARTH BAR AND EARTH BOSS

8) ONLY IF NECESSARY, SHRINK TUBES OF THE APPROPRIATE COLOR WILL BE INSTALLED TO COVER THE WRONG CONDUCTOR COLOR, THIS WILL BE PERFORMED IN EACH SIDE OF THE CABLES WHERE NECESSARY.

POWER CABLE TAG FOR INTERNAL AREA



VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DD-20092**

REV.:	DATE:	SIGNATURE:
2_B	28/11/24	G.Randi

ROSETTI MARINO SpA

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	28/08/24	GRA	AMA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	04/07/24	NLK	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	21/11/23	SPS	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL TYPICAL INSTALLATION DETAILS-POWER SYSTEM & CABLE INSTALLATION
CABLES INSTALLATION SYSTEM IDENTIFICATION FOR POWER CABLES

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK | SCALE : NTS

A3	DRAWING NO.	SHEET	REV.
	123A90-DDL-EL-DD-20092	007	02

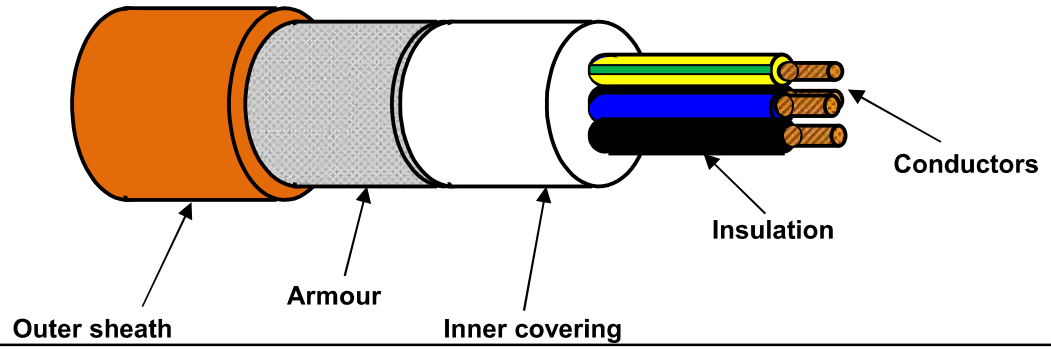
F.to UNI A3: 420mmx297mm

File Name : 123A90-DDL-EL-DD-20092 REV.02.DWG

Tag Number	Category	Discipline	Eng Status	NativeDoc	Layout	Parent Tag	Main Function	Secondary Function	Area	From Tag	From Main Function	From Area	To Tag	To Main Function	To Area	Material ID	Material Desc.	Gland Standard	From Gland	From Entry	From Fitting	To Gland	To Entry	To Fitting	Routing	Routing Manual
P-ELF-200N1-02-L1-02	Cable	LSP	VFC	123A90-DDL-EL-LIS-20148						EJB-200N1-02-L1-20	Normal Lighting JB	Upper Deck	ELF-200N1-02-L1-02	Normal Lighting Fixture	Upper Deck	ELECV19-3G2,5	Cable Cu Cl.2/MGT/EPR/LSZH/GSWB/LSZH 0,6/1kV 3G2,5mm² - Orange	M20	T2_M20_Double			T2_M20_Double				L-50-102-LVT-039

Cu Cl.2/MGT/EPR/LSZH/GSWB/LSZH 0,6/1 KV

3G2,5 - L.V. POWER CABLE - Fire Resistant & Flame Retardant - ARMOURED



TECHNICAL FEATURES

Conductors :	**STRANDED** plain/bare annealed copper wires	IEC 60228 Class 2
Insulation :	Mica/Glass Tape (MGT) plus EPR compound, quality to IEC 60092.360, Nominal Thickness 1,0 mm	
Cores colour code :	**Brown - Blue - Yellow/Green**	
Pair Assembling :	Not required	
Pair Wrapping:	Not required	
Drain wire :	Not required	
Pair Shield :	Not required	
Shield Insulation :	Not Required	
Total Assembling :	Cores layed up with optimal lay length	
Overall Wrapping:	Not required	
Drain wire :	Not required	
Overall Shield:	Not required	
Inner covering :	Extruded LSZH compound, Average Thickness 1,0 mm	
Inner covering color code:	**Black or Natural**	
Armour :	**Galvanized Steel Wire Braid Armour (coverage ≥ 90%)**	
Outer sheath :	Extruded LSZH Thermoplastic Compound (O.I. ≥ 30%), type **SHF1** to IEC 60093.360, Average Thickness 1,3 mm	
Outer sheath color code:	**Orange**	
Outer printing (INKJET) :	**FLEI - ELECTRIC CABLE - 1000V - 3G2,5 SQMM - MGT/EPR/LSZH/GSWB/LSZH - 0,6/1 KV - IEC 60331.21 - IEC 60332.1.2 - IEC 60332.3.22 - Year of Manufacture - CE + Meter Marking**	
Under Armour diameter :	(11,7 ± 10%) mm	
Over Armour diameter :	(12,9 ± 10%) mm	
Outer diameter :	(15,5 ± 10%) mm	
Bending radius :	cable outer diameter x 10	(in fixed installation)
Voltage test :	3,5 kV a.c. for 5' (Between Cores - Armour)	
Conductors DC Resistance :		IEC 60228 Class 2
Insulation Resistance :	≥ 940 MΩ x Km (@ 20°C)	
Applicable Standards		
Design Guidelines :	**IEC 60092.353**	
ON COMPLETE CABLE		
Fire Resistant test :	**IEC 60331.21**	
Flame Retardant test :	IEC 60332.1.2 - IEC 60332.3.22	
Acid Gas generation :	IEC 60754.1/2	
Smoke density/Light Transmittance	IEC 61034.2 (LT ≥ 60%)	
Temperature Range :		
ON INSULATION	(max +90°C)	(max continuous operation temperature of conductors)
	(max +250°C)	(max conductors temperature during short-circuit for 5 seconds)
ON COMPLETE CABLE		
During Operation :	(-20°C up to +90°C)	(in fixed installation)
During installation :	(- 5°C up to +50°C)	
Note :	**To meet the requirements of installation and use in Zone 1 & Zone 2 (IEC 60079-14) and "Gas & Vapour Tight" the cable must be provided with Penetrating Inner covering together with correct ATEX approved equipment or accessories.**	

Office	Date	Sign	Rev.	Date	Sign
Drawn by :	29/03/2024	Messa			
Checked :	29/03/2024	Spaccasassi			
Approved :	29/03/2024	Cucinotta			

The data provided, lending assent for the treatment, will be used to the sense of the article 13 of of the Regulation (UE) 2016/679, also through outsiders, in order to allow the realization of the fulfilments informatives, administrative, commercial and accounting related to the contractual relationship. Integral copy of the informative could be requested at our offices.

All proprietary rights reserved according to law. This document shall be not reproduced without written permission. FLEI reserves the right to change characteristics and technical data of product shown at any time.

ITEM	Tag	P-ELF-200N1-02-L1-03	: Normal Lighting JB / Normal Lighting Fixture			Dwg	123A90-DDL-EL-LIS-20148
	S/Sys	83-40	: Normal Lighting Upper Deck			Module	UD
TASK	code	C10000664		Location	Onshore Activities	User	Rosetti Marino Quality Control
FORM	Process	MC	Activity CCK	Discipline	Electrical	Form	CPX09 LV Power Cable

CABLE DATA

Type Cu Cl.2/MGT/EPR/LSZH/GSWB/LSZH Cores/Size mm² 3G2,5 mm2 Color ORANGE

From EJB-200N1-02-L1-01 To ELF-200N1-02-L1-03

1	Confirm cable is as specified in project cable schedule	OK
2	Visual Check cable physical integrity.	OK
3	Check is installed in accordance with layout drawing (segregation, distance…).	OK
4	Check cable is supported and fixed to rack according to project specification.	Note
5	Check bending radius is within the specified limits.	OK
6	Confirm cable glands suit for cable type, correctly mounted and tightened.	OK
7	Check gland plate for single core cables is non ferrous (non -magnetic).	NA
8	Confirm cable labelling is in accordance with specifications.	PL
9	Check cable is correctly loomed and segregated in accordance with specification.	OK
10	Check cable earthing against lastest drawings.	OK
11	Check cores marking are in accordance with termination diagram	OK
12	Check terminations are in accordance with latest termination diagram	OK
13	If required produce Red Line Mark Up for "AS BUILT"	

ROSETTI MARINO PROVERLIS CROSSWIND

ITEM	Tag	P-ELF-200N1-02-L1-03	: Normal Lighting JB / Normal Lighting Fixture			Dwg	123A90-DDL-EL-LIS-20148
	S/Sys	83-40	: Normal Lighting Upper Deck			Module	UD
TASK	code	C10000664		Location	Onshore Activities	User	Rosetti Marino Quality Control
FORM	Process	MC	Activity CCK	Discipline	Electrical	Form	CPX09 LV Power Cable

	CONTINUITY			
5	CORE CONTINUITY Ω	PH 1	0,03	
6		PH 2	0,03	
7		PH 3	NA	
8	ARMOUR CONTINUITY Ω		0,03	
9	PROTECTIVE CONDUCTOR CONTINUITY Ω		0,03	
	INSULATION			
10	CORES / ARMOUR+EARTH MΩ	PH1 / PH2-PH3-A-E	>1999	
11		PH2 / PH1-PH3-A-E	>1999	
12		PH3 / PH1-PH2-A-E	NA	
13	CABLE IS CORRECTLY RE-CONNECTED.		Yes	

TESTING INSTRUMENTS USED

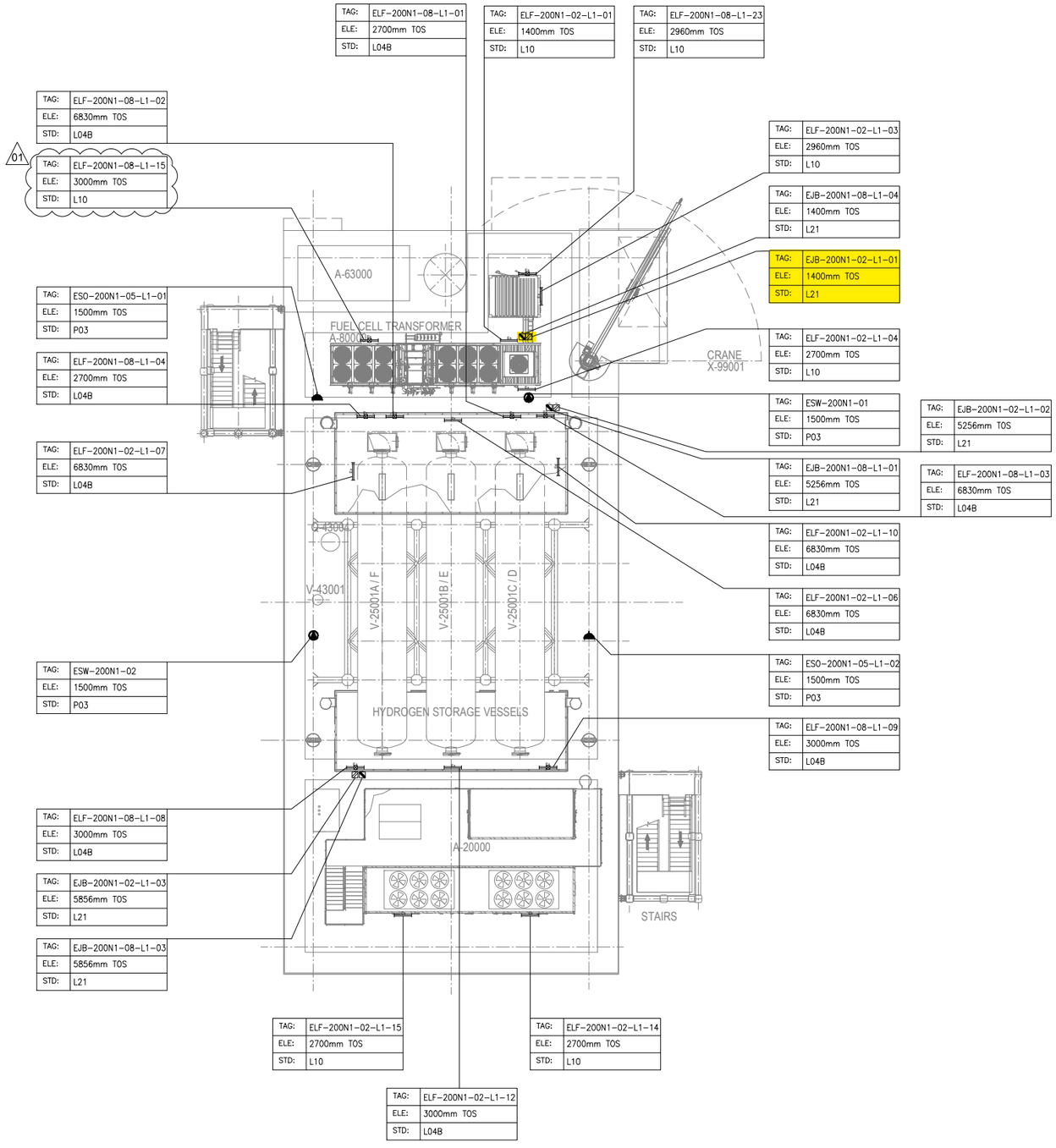
TYPE / SERIAL N° :	MEGGER : KEW3125A SERIAL: W8330207	TYPE / SERIAL N° :	MULTIMETER: FLUKE 175 SERIAL:AW1/018(17140769)
Calibration certificate N° and date:	N°7722/24 _ 10/07/2024	Calibration certificate N° and date:	N°7715/24 _ 10/07/2024

Comments: Nota 4: refer to PL C30000679

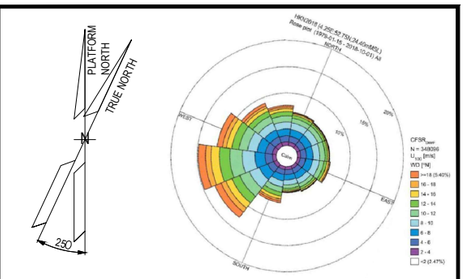
	Performed by	● WITNESS ☐ REVIEW	☐ WITNESS ☐ REVIEW
Company	ICS IMPIANTI	RM(ROSETTI MARINO	
Name	Michele Tartaglia	Alessio Polo	
Date	2025-01-08	2025-01-10	
Signature	PROVERLIS Digitaly signed by Michele Tartaglia 2025-01-08T09:55:21.691Z	PROVERLIS Digitaly signed by Alessio Polo 2025-01-10T15:46:33.977Z	

DRAWING NO. 123A90-DDL-EL-DL-20118

REV. 01



PLAN ON UPPER DECK
EL+30.310 T.O.S.



NOTES

1. ALL DIMENSIONS AND ELEVATIONS ARE GIVEN IN mm UNLESS OTHERWISE NOTED.
2. ELEVATIONS REFER TO T.O.S.
3. ELEVATION OF THE LAMPS ARE REFFERED TO THE BOTTOM OF THE LAMP.
4. FOR THE ELEVATION OF JB, REFER TO THE TYPICAL INSTALLATION.

LEGEND

- EMERGENCY LIGHTING JB
- 60W LED EMERGENCY LUMINARIES
- 60W LED EMERGENCY LUMINARIES FIXTURE POLE MOUNTED
- NORMAL LIGHTING JB
- 45W LED NORMAL LUMINARIES
- 45W LED NORMAL LUMINARIES FIXTURE POLE MOUNTED
- WELDING SOCKET WITH INTEGRATED JB
- SMALL POWER SOCKET WITH INTEGRATED JB

JB TAG:	JB-TAG
TAG:	TAG
ELE:	ELEVATION
STD:	STANDARD

VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DL-20118**

REV.:	DATE:	SIGNATURE:
1_B	22/10/24	G.Randi

ROSETTI MARINO SpA

REFERENCE DOCUMENTS

123A90-DDL-PP-DL-70070	PLOT PLAN - LOWER & UPPER DECK
123A90-DDL-EL-DL-20100	ELECTRICAL EQUIPMENT LAYOUT - TOP DECK
123A90-DDL-EL-DD-20091	ELECTRICAL TYPICAL INSTALLATION DETAILS - LIGHTING SYSTEM
123A90-DDL-EL-DD-20092	ELECTRICAL TYPICAL INSTALLATION DETAILS - POWER SYSTEM & CABLE INSTALLATION
123A90-DDL-EL-RE-20153	LIGHTING CALCULATION STUDY REPORT

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	02/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	28/05/24	ASR	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND

ROSETTI MARINO

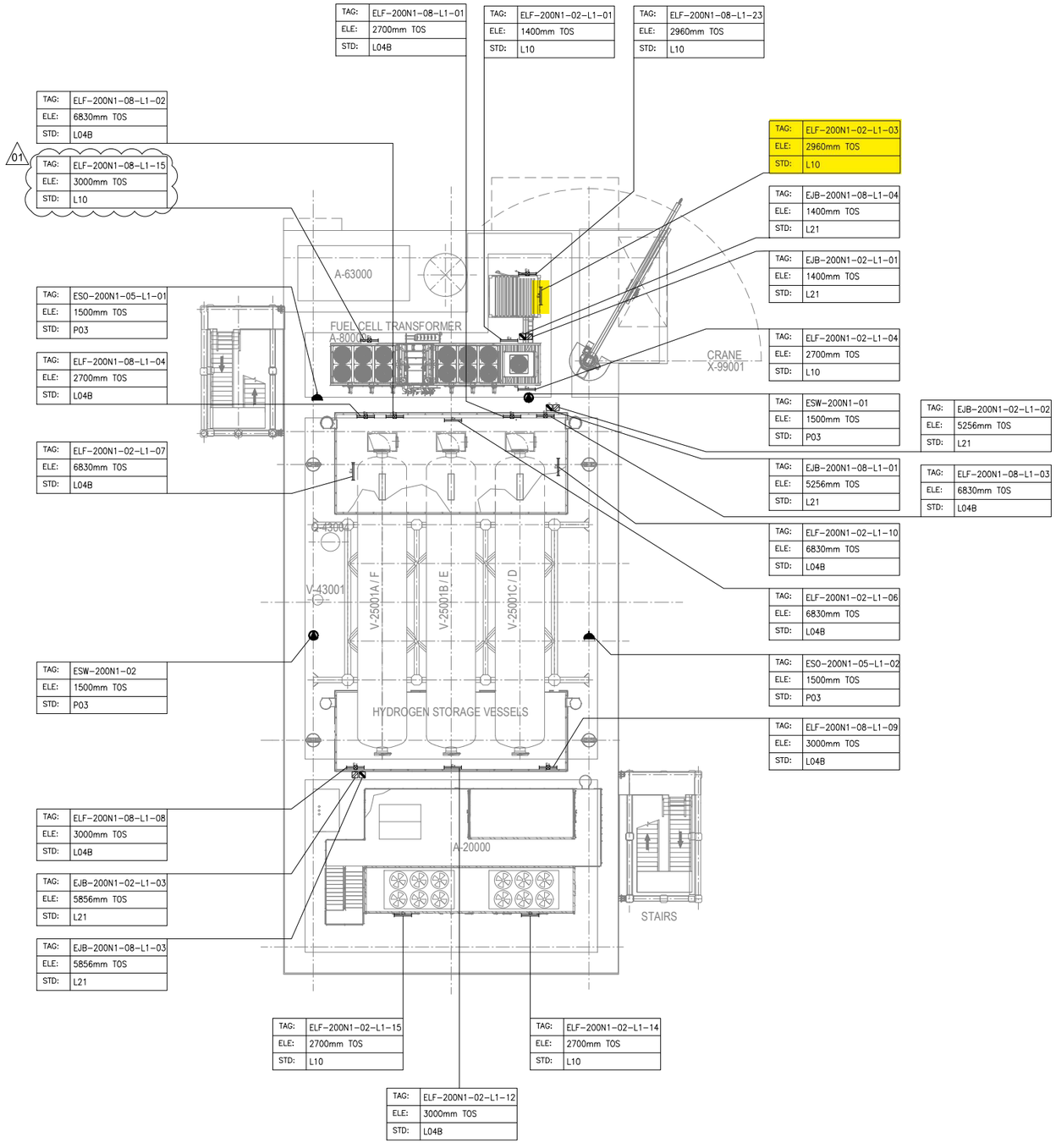
TITLE :
BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET LAYOUT – TOP DECK

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK			SCALE 1:150
DRAWN ASR	CHECKED FMA/AMA	APPROVED FPA/DLO	DATE 01/08/24
A1	DRAWING NO. 123A90-DDL-EL-DL-20118	SHEET 2of2	REV. 01

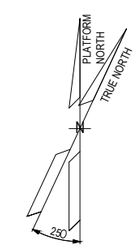
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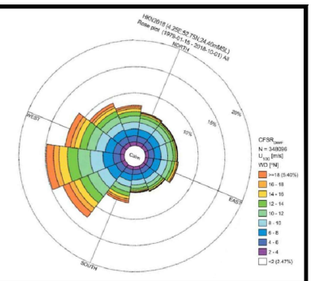
DRAWING NO. 123A90-DDL-EL-DL-20118

REV. 01



PLAN ON UPPER DECK
EL+30.310 T.O.S.





NOTES

1. ALL DIMENSIONS AND ELEVATIONS ARE GIVEN IN mm UNLESS OTHERWISE NOTED.
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4. FOR THE ELEVATION OF JB, REFER TO THE TYPICAL INSTALLATION.

LEGEND

- EMERGENCY LIGHTING JB
- 60W LED EMERGENCY LUMINARIES
- 60W LED EMERGENCY LUMINARIES FIXTURE POLE MOUNTED
- NORMAL LIGHTING JB
- 45W LED NORMAL LUMINARIES
- 45W LED NORMAL LUMINARIES FIXTURE POLE MOUNTED
- WELDING SOCKET WITH INTEGRATED JB
- SMALL POWER SOCKET WITH INTEGRATED JB

JB TAG:	JB-TAG
TAG:	TAG
ELE:	ELEVATION
STD:	STANDARD

VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DL-20118**

REV.:	DATE:	SIGNATURE:
1_B	22/10/24	G.Randi

ROSETTI MARINO SpA

REFERENCE DOCUMENTS

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123A90-DDL-EL-DD-20091	ELECTRICAL TYPICAL INSTALLATION DETAILS - LIGHTING SYSTEM
123A90-DDL-EL-DD-20092	ELECTRICAL TYPICAL INSTALLATION DETAILS - POWER SYSTEM & CABLE INSTALLATION
123A90-DDL-EL-RE-20153	LIGHTING CALCULATION STUDY REPORT

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	02/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	28/05/24	ASR	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND

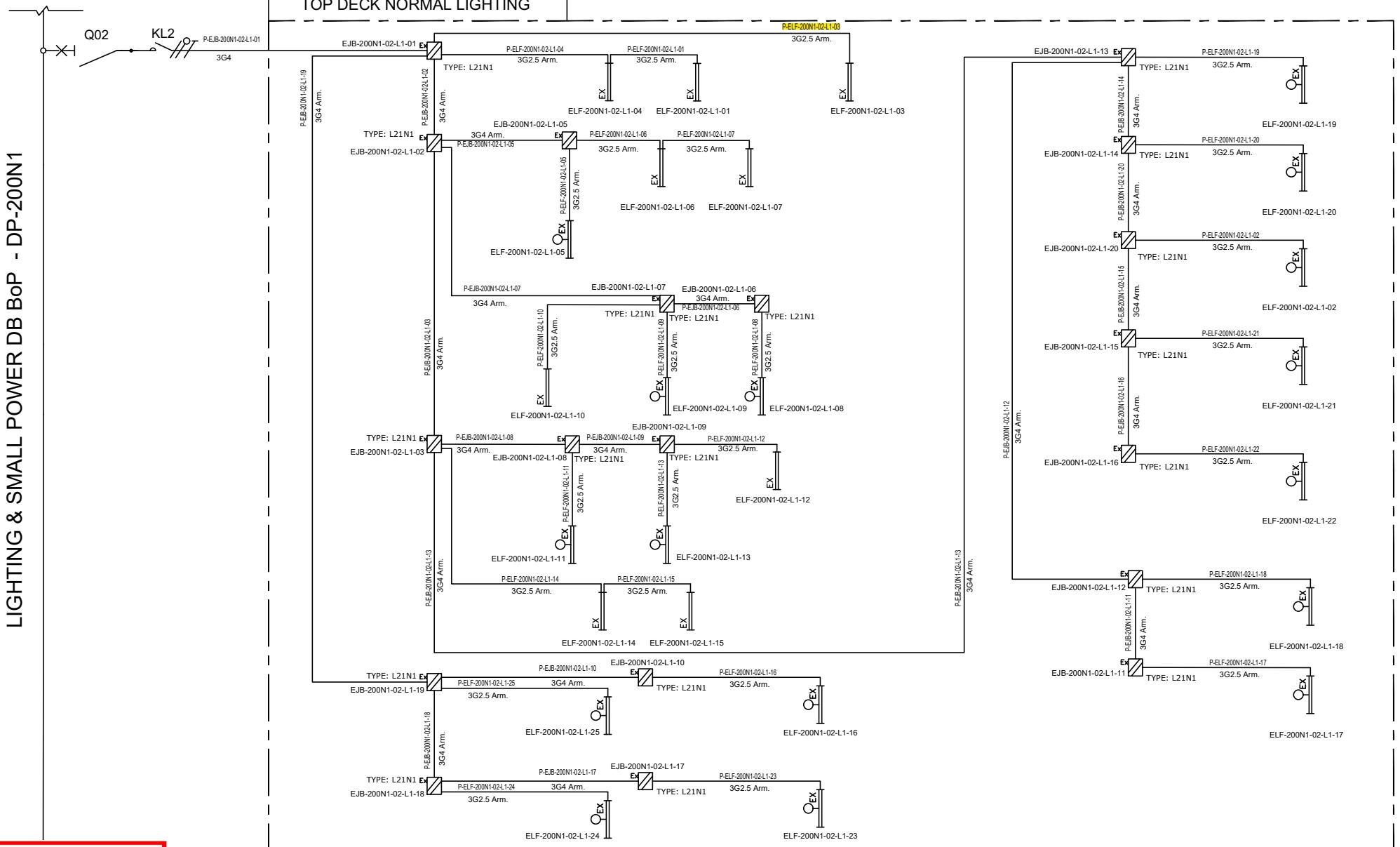
ROSETTI MARINO

TITLE :
BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET LAYOUT – TOP DECK

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK			SCALE 1:150
DRAWN ASR	CHECKED FMA/AMA	APPROVED FPA/DLO	DATE 01/08/24
A1	DRAWING NO. 123A90-DDL-EL-DL-20118	SHEET 2of2	REV. 01

File Name : 123A90-DDL-EL-DL-20118

LIGHTING & SMALL POWER DB BoP - DP-200N1



VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DG-20125**

REV.:	DATE:	SIGNATURE:
2_C	20/12/24	V.Ramponi

ROSETTI MARINO SpA

CROSSWIND

ROSETTI MARINO

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	08/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	01/07/24	ASR	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

TITLE : BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET CIRCUIT DIAGRAM
TOP DECK–NORMAL LIGHTING

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

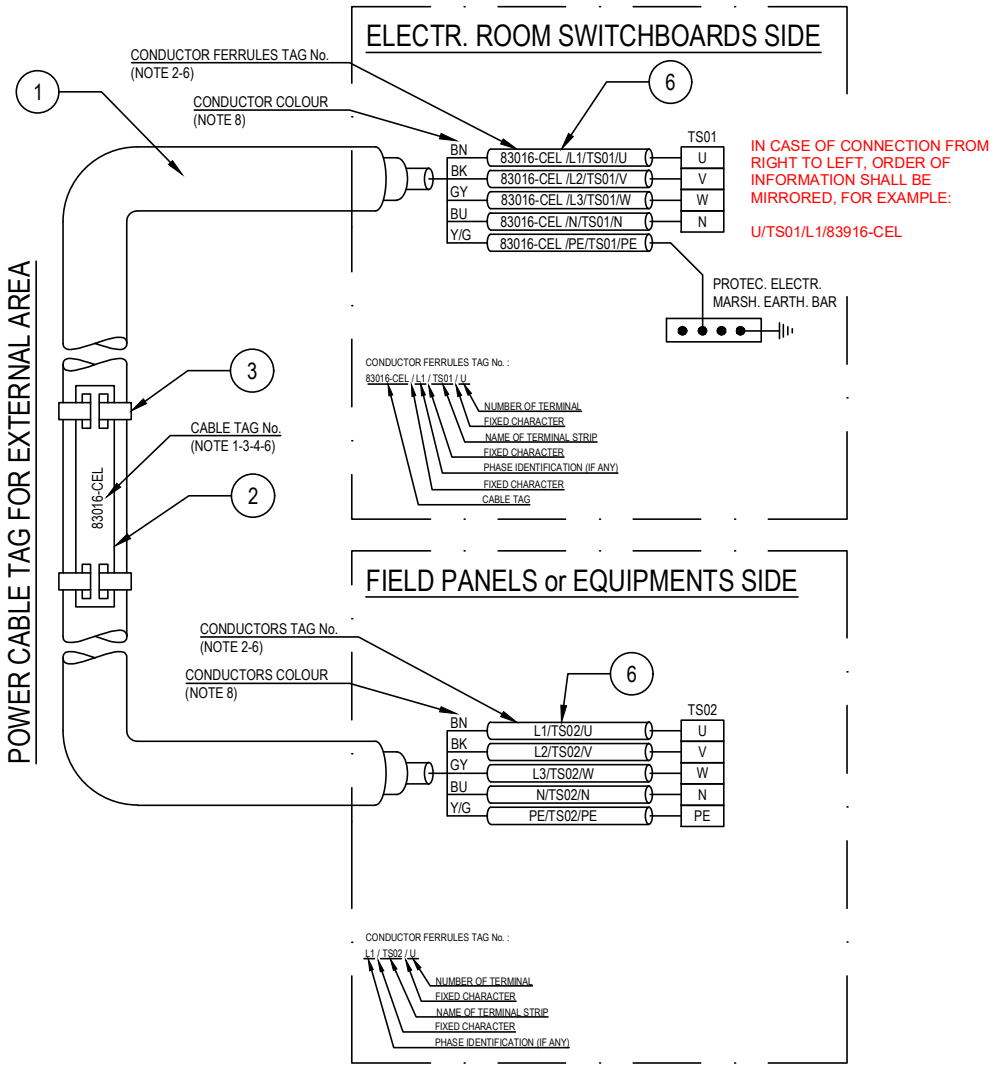
SCALE : NTS

A3	DRAWING NO.	SHEET	REV.
	123A90–DDL–EL–DG–20125	010	01

F.to UNI A3: 420mmx297mm

File Name : 123A90–DDL–EL–DG–20125

C02



POS.	DESCRIPTION	MATERIAL	SIZE	Q.TY	NOTE
1	UNARMOURED CABLE				
2	CABLE TAG FOR EXTERNAL AREA	HDG/SS			NOTE 1 NOTE 4
3	TIE FOR CABLE TAG IN EXTERNAL AREA	HDG/SS			
4	CABLE TAG FOR INTERNAL AREA	PVC			NOTE 1 NOTE 5
5	TIE FOR CABLE TAG IN INTERNAL AREA	NYLON 6.6			
6	CORE FERRULES	PVC			

NOTES:

1) ALL CABLES SHALL BE IDENTIFIED AT EACH TERMINATION AND EACH SIDE OF ANY OBSTACLE (E.G. CABLE TRANSIT ON WALLS INSIDE SHELTER AND FLOOR DECK CROSSING, BY THEIR RESPECTIVE TAGS/NUMBERS, AS INDICATED ON THE CABLE SCHEDULE.
CABLE IDENTIFICATION SHALL BE ALSO DONE BELOW AND IN THE SWITCHBOARD CABLE COMPARTMENT.

2) CABLE CORE FERRULES SHALL BE FITTED AT EVERY TERMINATION. THESE FERRULES SHALL BE OF ENGRAVED PLASTIC SLIP ON, INTERLOCKED AND SELF GRIP TYPE.

3) ON CABLE TRAYS OR LADDERS, CABLES SHALL BE IDENTIFIED AT EACH END, AND EVERY 25 METERS.

4) THE CABLE TAG FOR EXTERNAL AREA SHALL DONE BY 316L STAINLESS STEEL LABELS, TAG (H=5mm) SHALL BE LASER PRINTED PREFERABLY OR EMBOSSED, LABEL HELD BY TWO 316L STAINLESS STEEL TIES.

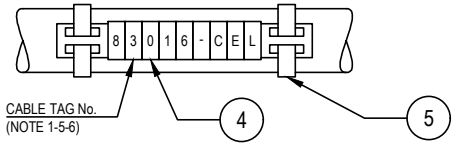
5) THE CABLE TAG FOR INTERNAL AREA SHALL BE DONE BY ENGRAVED PLASTIC SLIP ON CHARACTERS ONTO PLASTIC TIE, BLACK LETTER (H=5mm) ON WHITE.

6) CABLE AND CONDUCTOR TAG ARE INDICATIVE ONLY.

7) WITHIN TECHNICAL BUILDING, PROTECTIVE CONDUCTOR SHALL BE TAGGED BETWEEN FOLLOWING ITEMS:
- PANEL (SWITCHBOARD, SWITCHGEAR, DISTRIBUTION BOARD, ETC) AND EARTH BAR
- EARTH BAR AND EARTH BOSS

8) ONLY IF NECESSARY, SHRINK TUBES OF THE APPROPRIATE COLOR WILL BE INSTALLED TO COVER THE WRONG CONDUCTOR COLOR, THIS WILL BE PERFORMED IN EACH SIDE OF THE CABLES WHERE NECESSARY.

POWER CABLE TAG FOR INTERNAL AREA



VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DD-20092**

REV.:	DATE:	SIGNATURE:
2_D	20/12/24	V.Ramponi

ROSETTI MARINO SpA

CROSSWIND

ROSETTI MARINO

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	28/08/24	GRA	AMA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	04/07/24	NLK	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	21/11/23	SPS	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL TYPICAL INSTALLATION DETAILS-POWER SYSTEM & CABLE INSTALLATION
CABLES INSTALLATION SYSTEM IDENTIFICATION FOR POWER CABLES

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK | SCALE : NTS

A3 | DRAWING NO. 123A90-DDL-EL-DD-20092 | SHEET 007 | REV. 02

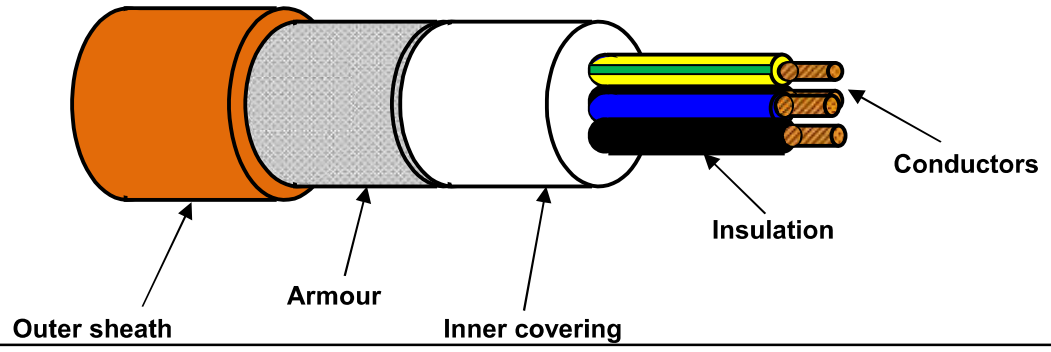
F.to UNI A3: 420mmx297mm

File Name : 123A90-DDL-EL-DD-20092 REV.02.DWG

Tag Number	Category	Discipline	Eng Status	NativeDoc	Layout	Parent Tag	Main Function	Secondary Function	Area	From Tag	From Main Function	From Area	To Tag	To Main Function	To Area	Material ID	Material Desc.	Gland Standard	From Gland	From Entry	From Fitting	To Gland	To Entry	To Fitting	Routing	Routing Manual
P-ELF-200N1-02-L1-03	Cable	LSP	VFC	123A90-DDL-EL-LIS-20148						EJB-200N1-02-L1-01	Normal Lighting JB	Upper Deck	ELF-200N1-02-L1-03	Normal Lighting Fixture	Upper Deck	ELECV19-3G2,5	Cable Cu Cl.2/MGT/EPR/LSZH/GSWB/LSZH 0,6/1kV 3G2,5mm² - Orange	M20	T2_M20_Double			T2_M20_Double				L-300-102-LVT-002 / L-50-102-LVT-072

Cu Cl.2/MGT/EPR/LSZH/GSWB/LSZH 0,6/1 KV

3G2,5 - L.V. POWER CABLE - Fire Resistant & Flame Retardant - ARMOURED



TECHNICAL FEATURES

Conductors :	**STRANDED** plain/bare annealed copper wires	IEC 60228 Class 2
Insulation :	Mica/Glass Tape (MGT) plus EPR compound, quality to IEC 60092.360, Nominal Thickness 1,0 mm	
Cores colour code :	**Brown - Blue - Yellow/Green**	
Pair Assembling :	Not required	
Pair Wrapping:	Not required	
Drain wire :	Not required	
Pair Shield :	Not required	
Shield Insulation :	Not Required	
Total Assembling :	Cores layed up with optimal lay length	
Overall Wrapping:	Not required	
Drain wire :	Not required	
Overall Shield:	Not required	
Inner covering :	Extruded LSZH compound, Average Thickness 1,0 mm	
Inner covering color code:	**Black or Natural**	
Armour :	**Galvanized Steel Wire Braid Armour (coverage ≥ 90%)**	
Outer sheath :	Extruded LSZH Thermoplastic Compound (O.I. ≥ 30%), type **SHF1** to IEC 60093.360, Average Thickness 1,3 mm	
Outer sheath color code:	**Orange**	
Outer printing (INKJET) :	**FLEI - ELECTRIC CABLE - 1000V - 3G2,5 SQMM - MGT/EPR/LSZH/GSWB/LSZH - 0,6/1 KV - IEC 60331.21 - IEC 60332.1.2 - IEC 60332.3.22 - Year of Manufacture - CE + Meter Marking**	
Under Armour diameter :	(11,7 ± 10%) mm	
Over Armour diameter :	(12,9 ± 10%) mm	
Outer diameter :	(15,5 ± 10%) mm	
Bending radius :	cable outer diameter x 10	(in fixed installation)
Voltage test :	3,5 kV a.c. for 5' (Between Cores - Armour)	
Conductors DC Resistance :		IEC 60228 Class 2
Insulation Resistance :	≥ 940 MΩ x Km (@ 20°C)	
Applicable Standards		
Design Guidelines :	**IEC 60092.353**	
ON COMPLETE CABLE		
Fire Resistant test :	**IEC 60331.21**	
Flame Retardant test :	IEC 60332.1.2 - IEC 60332.3.22	
Acid Gas generation :	IEC 60754.1/2	
Smoke density/Light Transmittance	IEC 61034.2 (LT ≥ 60%)	
Temperature Range :		
ON INSULATION	(max +90°C)	(max continuous operation temperature of conductors)
	(max +250°C)	(max conductors temperature during short-circuit for 5 seconds)
ON COMPLETE CABLE		
During Operation :	(-20°C up to +90°C)	(in fixed installation)
During installation :	(- 5°C up to +50°C)	
Note :	**To meet the requirements of installation and use in Zone 1 & Zone 2 (IEC 60079-14) and "Gas & Vapour Tight" the cable must be provided with Penetrating Inner covering together with correct ATEX approved equipment or accessories.**	

Office	Date	Sign	Rev.	Date	Sign
Drawn by :	29/03/2024	Messa			
Checked :	29/03/2024	Spaccasassi			
Approved :	29/03/2024	Cucinotta			

The data provided, lending assent for the treatment, will be used to the sense of the article 13 of of the Regulation (UE) 2016/679, also through outsiders, in order to allow the realization of the fulfilments informatives, administrative, commercial and accounting related to the contractual relationship. Integral copy of the informative could be requested at our offices.

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ITEM	Tag	P-EJB-200N1-02-L1-02	: Normal Lighting JB / Normal Lighting JB			Dwg	123A90-DDL-EL-LIS-20148
	S/Sys	83-40	: Normal Lighting Upper Deck			Module	UD
TASK	code	C10000665		Location	Onshore Activities	User	Rosetti Marino Quality Control
FORM	Process	MC	Activity CCK	Discipline	Electrical	Form	CPX09 LV Power Cable

CABLE DATA

Type Cu Cl.2/MGT/EPR/LSZH/GSWB/LSZH Cores/Size mm² 3G4 mm2 Color ORANGE

From EJB-200N1-02-L1-01 To EJB-200N1-02-L1-02

1	Confirm cable is as specified in project cable schedule	OK
2	Visual Check cable physical integrity.	OK
3	Check is installed in accordance with layout drawing (segregation, distance…).	OK
4	Check cable is supported and fixed to rack according to project specification.	Note
5	Check bending radius is within the specified limits.	OK
6	Confirm cable glands suit for cable type, correctly mounted and tightened.	OK
7	Check gland plate for single core cables is non ferrous (non -magnetic).	NA
8	Confirm cable labelling is in accordance with specifications.	PL
9	Check cable is correctly loomed and segregated in accordance with specification.	OK
10	Check cable earthing against lastest drawings.	OK
11	Check cores marking are in accordance with termination diagram	OK
12	Check terminations are in accordance with latest termination diagram	OK
13	If required produce Red Line Mark Up for "AS BUILT"	

ROSETTI MARINO PROVERLIS CROSSWIND

ITEM	Tag	P-EJB-200N1-02-L1-02	: Normal Lighting JB / Normal Lighting JB			Dwg	123A90-DDL-EL-LIS-20148
	S/Sys	83-40	: Normal Lighting Upper Deck			Module	UD
TASK	code	C10000665		Location	Onshore Activities	User	Rosetti Marino Quality Control
FORM	Process	MC	Activity CCK	Discipline	Electrical	Form	CPX09 LV Power Cable

CONTINUITY				
5	CORE CONTINUITY Ω	PH 1	0,6	
6		PH 2	0,6	
7		PH 3	NA	
8	ARMOUR CONTINUITY Ω		NA	
9	PROTECTIVE CONDUCTOR CONTINUITY Ω		0,6	
INSULATION				
10	CORES / ARMOUR+EARTH MΩ	PH1 / PH2-PH3-A-E	>999	
11		PH2 / PH1-PH3-A-E	>999	
12		PH3 / PH1-PH2-A-E	NA	
13	CABLE IS CORRECTLY RE-CONNECTED.		Yes	

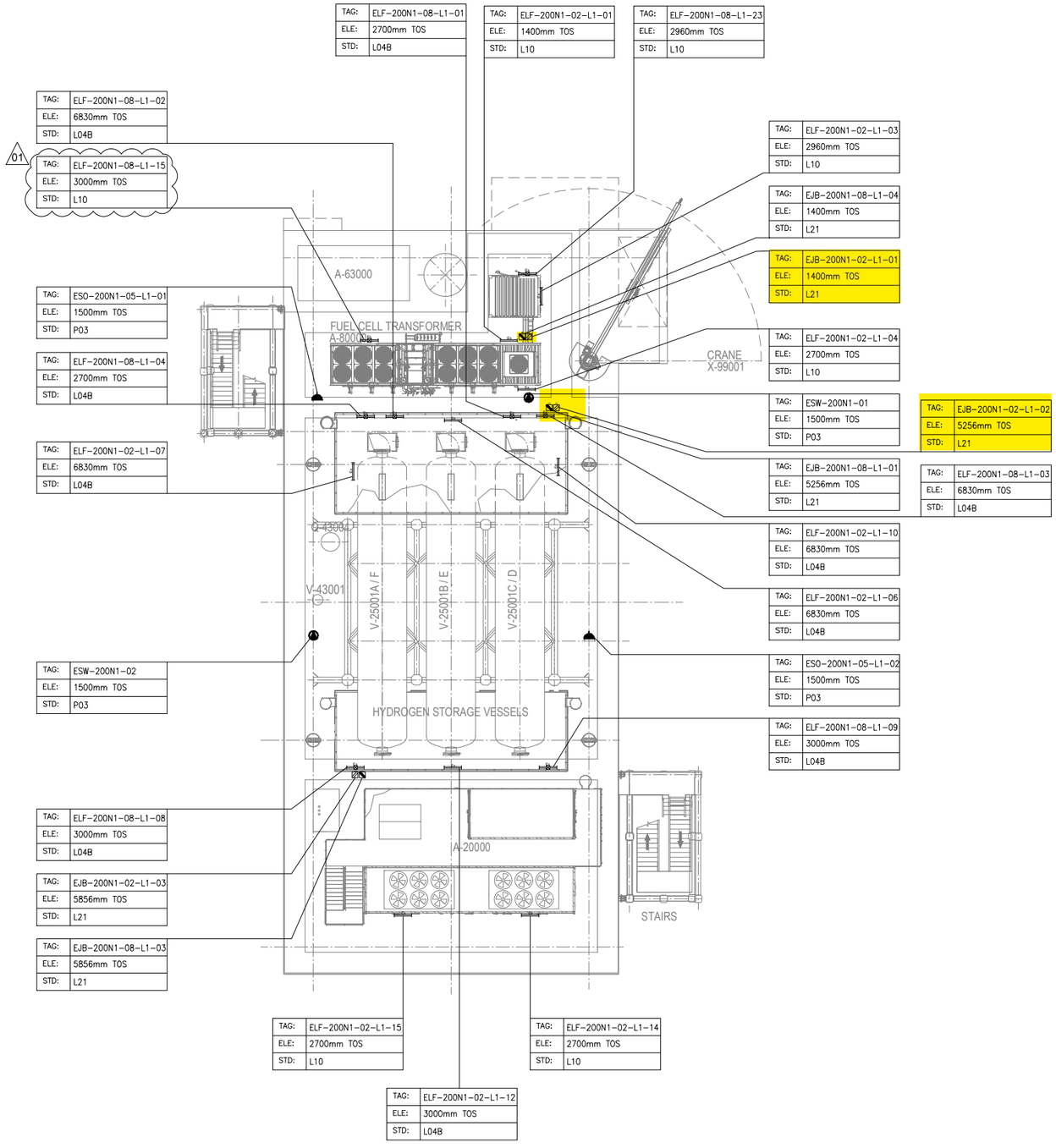
TESTING INSTRUMENTS USED			
TYPE / SERIAL N° :	MEGGER : KEW3125A SERIAL: W8330207	TYPE / SERIAL N° :	MULTIMETER: FLUKE 175 SERIAL:AW1/018(17140769)
Calibration certificate N° and date:	N°7722/24 _ 10/07/2024	Calibration certificate N° and date:	N°7715/24 _ 10/07/2024

Comments: Nota 4: refer to PL C30000679

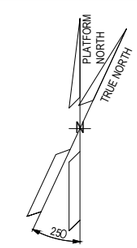
	Performed by	● WITNESS ☐ REVIEW	☐ WITNESS ☐ REVIEW
Company	ICS IMPIANTI	RM (ROSETTI MARINO)	
Name	Francesco Zucca	Andrea Andreani	
Date	2024-12-18	2025-01-11	
Signature	PROVERLIS Digitaly signed by Francesco Zucca 2024-12-18T10:36:54.022Z	PROVERLIS Digitaly signed by Andrea Andreani 2025-01-11T11:18:25.555Z	

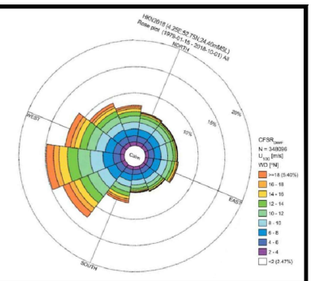
DRAWING NO. 123A90-DDL-EL-DL-20118

REV. 01



PLAN ON UPPER DECK
EL+30.310 T.O.S.





NOTES

1. ALL DIMENSIONS AND ELEVATIONS ARE GIVEN IN mm UNLESS OTHERWISE NOTED.
2. ELEVATIONS REFER TO T.O.S.
3. ELEVATION OF THE LAMPS ARE REFFERED TO THE BOTTOM OF THE LAMP.
4. FOR THE ELEVATION OF JB, REFER TO THE TYPICAL INSTALLATION.

LEGEND

- EMERGENCY LIGHTING JB
- 60W LED EMERGENCY LUMINARIES
- 60W LED EMERGENCY LUMINARIES FIXTURE POLE MOUNTED
- NORMAL LIGHTING JB
- 45W LED NORMAL LUMINARIES
- 45W LED NORMAL LUMINARIES FIXTURE POLE MOUNTED
- WELDING SOCKET WITH INTEGRATED JB
- SMALL POWER SOCKET WITH INTEGRATED JB

JB TAG:	JB-TAG
TAG:	TAG
ELE:	ELEVATION
STD:	STANDARD

VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DL-20118**

REV.:	DATE:	SIGNATURE:
1_B	22/10/24	G.Randi

ROSETTI MARINO SpA

REFERENCE DOCUMENTS

123A90-DDL-PP-DL-70070	PLOT PLAN - LOWER & UPPER DECK
123A90-DDL-EL-DL-20100	ELECTRICAL EQUIPMENT LAYOUT - TOP DECK
123A90-DDL-EL-DD-20091	ELECTRICAL TYPICAL INSTALLATION DETAILS - LIGHTING SYSTEM
123A90-DDL-EL-DD-20092	ELECTRICAL TYPICAL INSTALLATION DETAILS - POWER SYSTEM & CABLE INSTALLATION
123A90-DDL-EL-RE-20153	LIGHTING CALCULATION STUDY REPORT

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	02/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	28/05/24	ASR	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND

ROSETTI MARINO

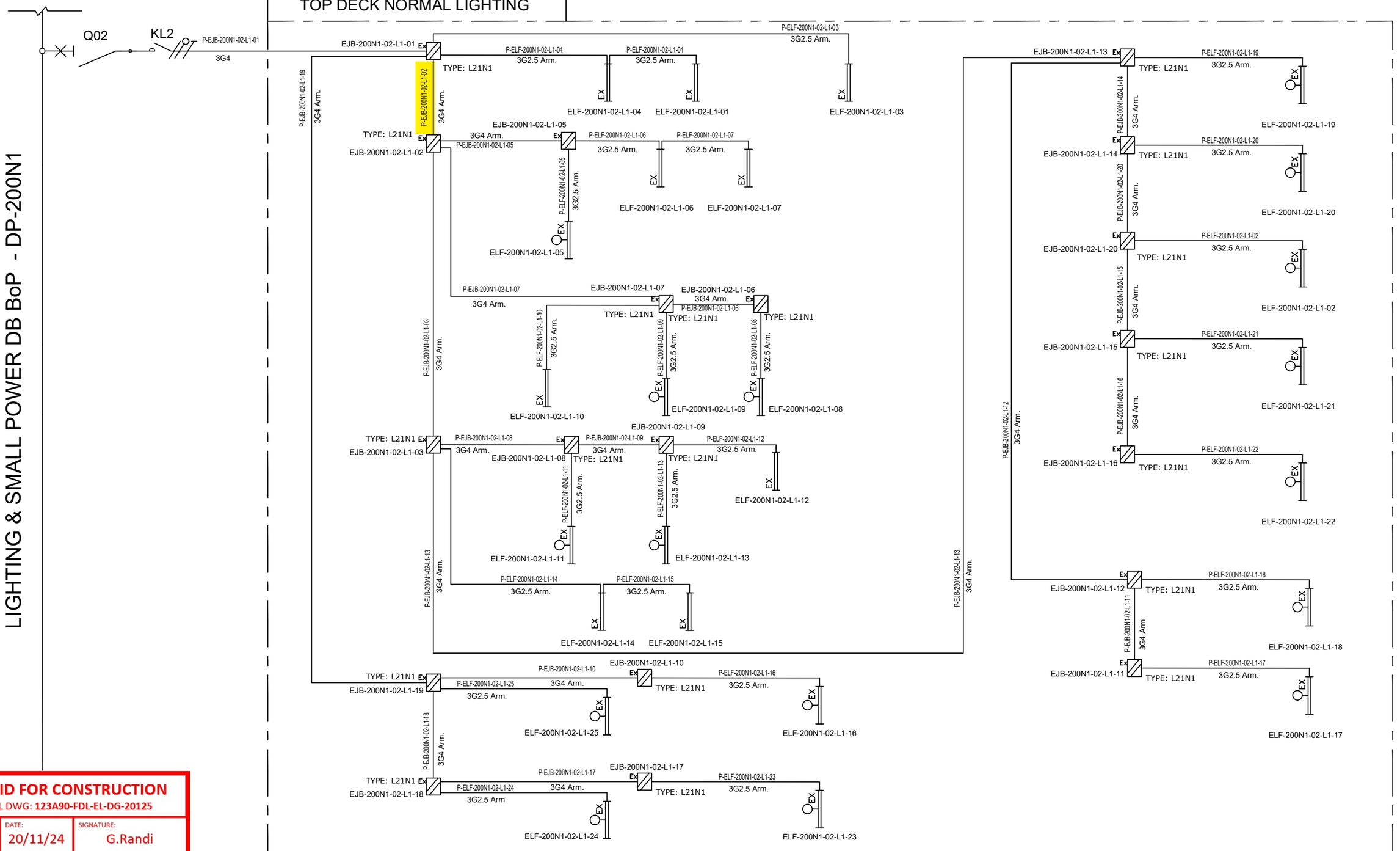
TITLE :
BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET LAYOUT – TOP DECK

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK			SCALE 1:150
DRAWN ASR	CHECKED FMA/AMA	APPROVED FPA/DLO	DATE 01/08/24
A1	DRAWING NO. 123A90-DDL-EL-DL-20118	SHEET 2of2	REV. 01

File Name : 123A90-DDL-EL-DL-20118

LIGHTING & SMALL POWER DB BoP - DP-200N1

TOP DECK NORMAL LIGHTING



VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DG-20125**

REV.:	DATE:	SIGNATURE:
2_B	20/11/24	G.Randi

ROSETTI MARINO SpA

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	08/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	01/07/24	ASR	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

TITLE : BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET CIRCUIT DIAGRAM
TOP DECK–NORMAL LIGHTING

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE : NTS

A3

DRAWING NO. 123A90–DDL–EL–DG–20125

SHEET 010

REV. 01

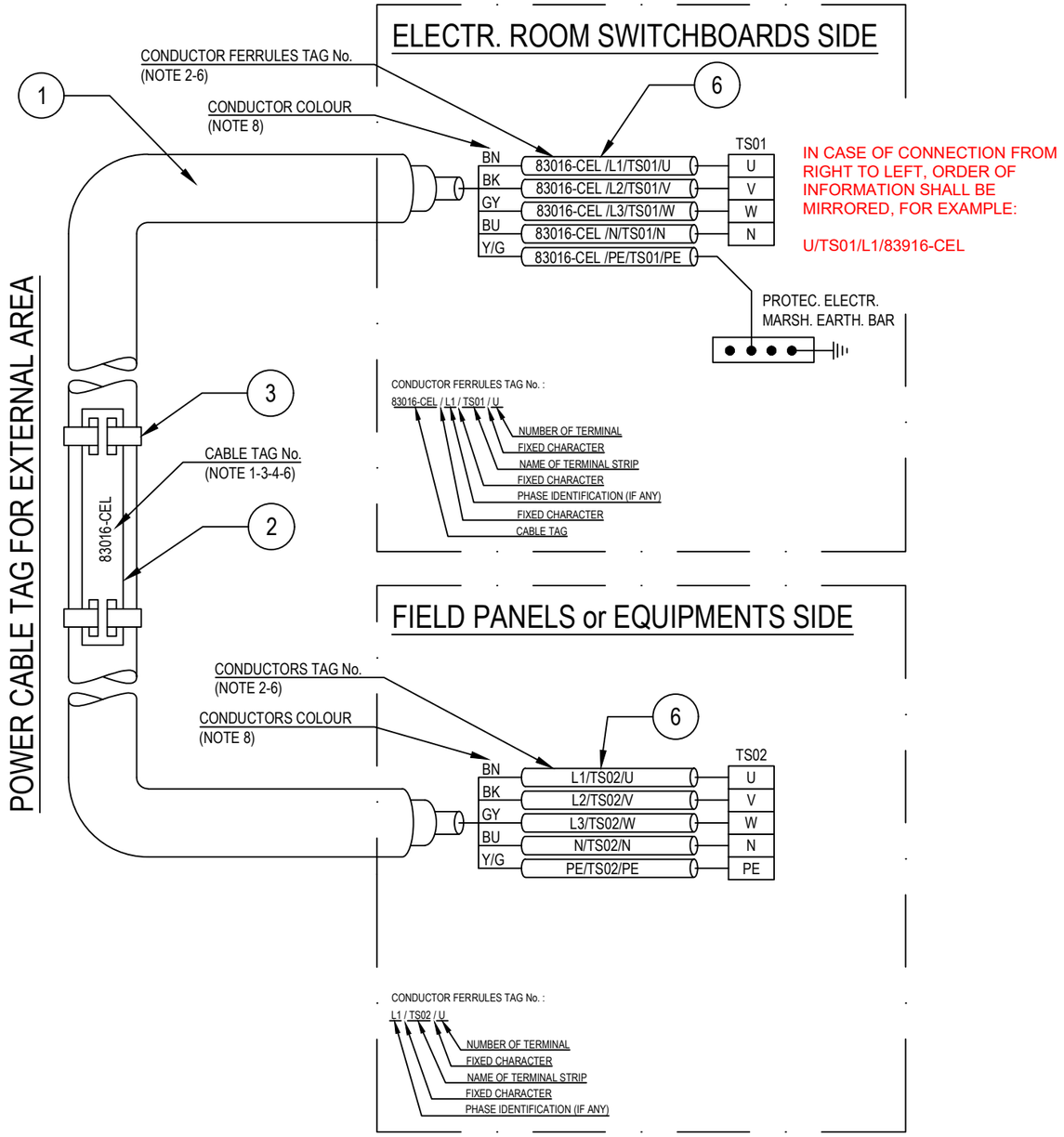
CROSSWIND

ROSETTI MARINO

F.to UNI A3: 420mmx297mm

File Name : 123A90–DDL–EL–DG–20125

C02



POS.	DESCRIPTION	MATERIAL	SIZE	Q.TY	NOTE
1	UNARMOURED CABLE				
2	CABLE TAG FOR EXTERNAL AREA	HDG/SS			NOTE 1 NOTE 4
3	TIE FOR CABLE TAG IN EXTERNAL AREA	HDG/SS			
4	CABLE TAG FOR INTERNAL AREA	PVC			NOTE 1 NOTE 5
5	TIE FOR CABLE TAG IN INTERNAL AREA	NYLON 6.6			
6	CORE FERRULES	PVC			

NOTES:

1) ALL CABLES SHALL BE IDENTIFIED AT EACH TERMINATION AND EACH SIDE OF ANY OBSTACLE (E.G. CABLE TRANSIT ON WALLS INSIDE SHELTER AND FLOOR DECK CROSSING, BY THEIR RESPECTIVE TAGS/NUMBERS, AS INDICATED ON THE CABLE SCHEDULE.
CABLE IDENTIFICATION SHALL BE ALSO DONE BELOW AND IN THE SWITCHBOARD CABLE COMPARTMENT.

2) CABLE CORE FERRULES SHALL BE FITTED AT EVERY TERMINATION. THESE FERRULES SHALL BE OF ENGRAVED PLASTIC SLIP ON, INTERLOCKED AND SELF GRIP TYPE.

3) ON CABLE TRAYS OR LADDERS, CABLES SHALL BE IDENTIFIED AT EACH END, AND EVERY 25 METERS.

4) THE CABLE TAG FOR EXTERNAL AREA SHALL DONE BY 316L STAINLESS STEEL LABELS, TAG (H=5mm) SHALL BE LASER PRINTED PREFERABLY OR EMBOSSED, LABEL HELD BY TWO 316L STAINLESS STEEL TIES.

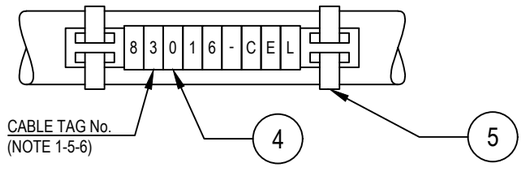
5) THE CABLE TAG FOR INTERNAL AREA SHALL BE DONE BY ENGRAVED PLASTIC SLIP ON CHARACTERS ONTO PLASTIC TIE, BLACK LETTER (H=5mm) ON WHITE.

6) CABLE AND CONDUCTOR TAG ARE INDICATIVE ONLY.

7) WITHIN TECHNICAL BUILDING, PROTECTIVE CONDUCTOR SHALL BE TAGGED BETWEEN FOLLOWING ITEMS:
- PANEL (SWITCHBOARD, SWITCHGEAR, DISTRIBUTION BOARD, ETC) AND EARTH BAR
- EARTH BAR AND EARTH BOSS

8) ONLY IF NECESSARY, SHRINK TUBES OF THE APPROPRIATE COLOR WILL BE INSTALLED TO COVER THE WRONG CONDUCTOR COLOR, THIS WILL BE PERFORMED IN EACH SIDE OF THE CABLES WHERE NECESSARY.

POWER CABLE TAG FOR INTERNAL AREA



VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DD-20092**

REV.:	DATE:	SIGNATURE:
2_B	28/11/24	G.Randi

ROSETTI MARINO SpA

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	28/08/24	GRA	AMA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	04/07/24	NLK	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	21/11/23	SPS	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL TYPICAL INSTALLATION DETAILS-POWER SYSTEM & CABLE INSTALLATION
CABLES INSTALLATION SYSTEM IDENTIFICATION FOR POWER CABLES

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK | SCALE : NTS

A3	DRAWING NO.	SHEET	REV.
	123A90-DDL-EL-DD-20092	007	02

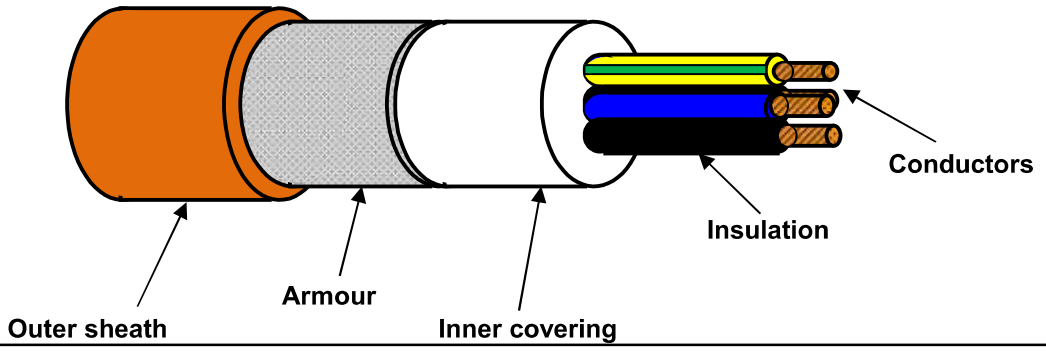
F.to UNI A3: 420mmx297mm

File Name : 123A90-DDL-EL-DD-20092 REV.02.DWG

Tag Number	Category	Disciplir	Eng Statu	NativeDoc	Layout	Parent Tag	Main Function	Secondary Fun	Area	From Tag	From Main Function	From Area	To Tag	To Main Function	To Area	Material ID	Material Desc.	Gland Standard	From Glan	From Entry	From Fitt	To Gland	To Entry	To Fitting	Routing	Routing Manual
P-EJB-200N1-02-L1-02	Cable	LSP	VFC	123A90-DDL-EL-LIS-20148						EJB-200N1-02-L1-01	Normal Lighting JB	Upper Deck	EJB-200N1-02-L1-02	Normal Lighting JB	Upper Deck	ELECV38-3G4	Cable Cu Cl.2/MGT/EPR/LSZH/GSWB/LSZH 0,6/1kV 3G4mm² - Orange	M20	T2_M20_ Double			T2_M20_Double				L-300-102-LVT-002 / E-MCT-U03 / L-300-101-LVT-073 / L-750-101-LVT-015 / L-750-101-LVT-013 / L-300-101-LVT-095 / E-MCT-U06 / L-300-102-LVT-009 / L-150-102-LVT-010 / L-150-102-LVT-014

Cu Cl.2/MGT/EPR/LSZH/GSWB/LSZH 0,6/1 KV

3G4 - L.V. POWER CABLE - Fire Resistant & Flame Retardant - ARMOURED



TECHNICAL FEATURES

Conductors :	**STRANDED** plain/bare annealed copper wires	IEC 60228 Class 2
Insulation :	Mica/Glass Tape (MGT) plus EPR compound, quality to IEC 60092.360, Nominal Thickness 1,0 mm	
Cores colour code :	**Brown - Blue - Yellow/Green**	
Pair Assembling :	Not required	
Pair Wrapping:	Not required	
Drain wire :	Not required	
Pair Shield :	Not required	
Shield Insulation :	Not Required	
Total Assembling :	Cores layed up with optimal lay length	
Overall Wrapping:	Not required	
Drain wire :	Not required	
Overall Shield:	Not required	
Inner covering :	Extruded LSZH compound, Average Thickness 1,0 mm	
Inner covering color code:	**Black or Natural**	
Armour :	**Galvanized Steel Wire Braid Armour (coverage ≥ 90%)**	
Outer sheath :	Extruded LSZH Thermoplastic Compound (O.I. ≥ 30%), type **SHF1** to IEC 60093.360, Average Thickness 1,4 mm	
Outer sheath color code:	**Orange**	
Outer printing (INKJET) :	**FLEI - ELECTRIC CABLE - 1000V - 3G4 SQMM - MGT/EPR/LSZH/GSWB/LSZH - 0,6/1 KV - IEC 60331.21 -**	
	IEC 60332.1.2 - IEC 60332.3.22 - Year of Manufacture - CE + Meter Marking	
Under Armour diameter :	(13,0 ± 10%) mm	
Over Armour diameter :	(14,2 ± 10%) mm	
Outer diameter :	(17,0 ± 10%) mm	
Bending radius :	cable outer diameter x 10	(in fixed installation)
Voltage test :	3,5 kV a.c. for 5' (Between Cores - Armour)	
Conductors DC Resistance :		IEC 60228 Class 2
Insulation Resistance :	≥ 790 MΩ x Km (@ 20°C)	
Applicable Standards		
Design Guidelines :	**IEC 60092.353**	
ON COMPLETE CABLE		
Fire Resistant test :	**IEC 60331.21**	
Flame Retardant test :	IEC 60332.1.2 - IEC 60332.3.22	
Acid Gas generation :	IEC 60754.1/2	
Smoke density/Light Transmittance	IEC 61034.2 (LT ≥ 60%)	
Temperature Range :		
ON INSULATION	(max +90°C)	(max continuous operation temperature of conductors)
	(max +250°C)	(max conductors temperature during short-circuit for 5 seconds)
ON COMPLETE CABLE		
During Operation :	(-20°C up to +90°C)	(in fixed installation)
During installation :	(- 5°C up to +50°C)	
Note :	**To meet the requirements of installation and use in Zone 1 & Zone 2 (IEC 60079-14) and "Gas & Vapour Tight" the cable must be provided with Penetrating Inner covering together with correct ATEX approved equipment or accessories.**	

Office	Date	Sign	Rev.	Date	Sign
Drawn by :	29/03/2024	Messa			
Checked :	29/03/2024	Spaccasassi			
Approved :	29/03/2024	Cucinotta			

The data provided, lending assent for the treatment, will be used to the sense of the article 13 of of the Regulation (UE) 2016/679, also through outsiders, in order to allow the realization of the fulfilments informatives, administrative, commercial and accounting related to the contractual relationship. Integral copy of the informative could be requested at our offices.

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ITEM	Tag	P-ELF-200N1-02-L1-04	: Normal Lighting JB / Normal Lighting Fixture		Dwg	123A90-DDL-EL-LIS-20148	
	S/Sys	83-40	: Normal Lighting Upper Deck		Module	UD	
TASK	code	C10000666	Location	Onshore Activities	User	Rosetti Marino Quality Control	
FORM	Process	MC	Activity CCK	Discipline Electrical	Form	CPX09	LV Power Cable

CABLE DATA

Type Cu Cl.2/MGT/EPR/LSZH/GSWB/LSZH Cores/Size mm² 3G2,5 mm2 Color ORANGE

From EJB-200N1-02-L1-01 To ELF-200N1-02-L1-04

1	Confirm cable is as specified in project cable schedule	OK
2	Visual Check cable physical integrity.	OK
3	Check is installed in accordance with layout drawing (segregation, distance…).	OK
4	Check cable is supported and fixed to rack according to project specification.	Note
5	Check bending radius is within the specified limits.	OK
6	Confirm cable glands suit for cable type, correctly mounted and tightened.	OK
7	Check gland plate for single core cables is non ferrous (non -magnetic).	NA
8	Confirm cable labelling is in accordance with specifications.	PL
9	Check cable is correctly loomed and segregated in accordance with specification.	OK
10	Check cable earthing against lastest drawings.	OK
11	Check cores marking are in accordance with termination diagram	OK
12	Check terminations are in accordance with latest termination diagram	OK
13	If required produce Red Line Mark Up for "AS BUILT"	

ROSETTI MARINO PROVERLIS CROSSWIND

ITEM	Tag	P-ELF-200N1-02-L1-04	: Normal Lighting JB / Normal Lighting Fixture			Dwg	123A90-DDL-EL-LIS-20148
	S/Sys	83-40	: Normal Lighting Upper Deck			Module	UD
TASK	code	C10000666		Location	Onshore Activities	User	Rosetti Marino Quality Control
FORM	Process	MC	Activity CCK	Discipline	Electrical	Form	CPX09 LV Power Cable

	CONTINUITY			
5	CORE CONTINUITY Ω	PH 1	0,2	
6		PH 2	0,2	
7		PH 3	NA	
8	ARMOUR CONTINUITY Ω		0,2	
9	PROTECTIVE CONDUCTOR CONTINUITY Ω		NA	
	INSULATION			
10	CORES / ARMOUR+EARTH MΩ	PH1 / PH2-PH3-A-E	>999	
11		PH2 / PH1-PH3-A-E	>999	
12		PH3 / PH1-PH2-A-E	NA	
13	CABLE IS CORRECTLY RE-CONNECTED.		Yes	

TESTING INSTRUMENTS USED

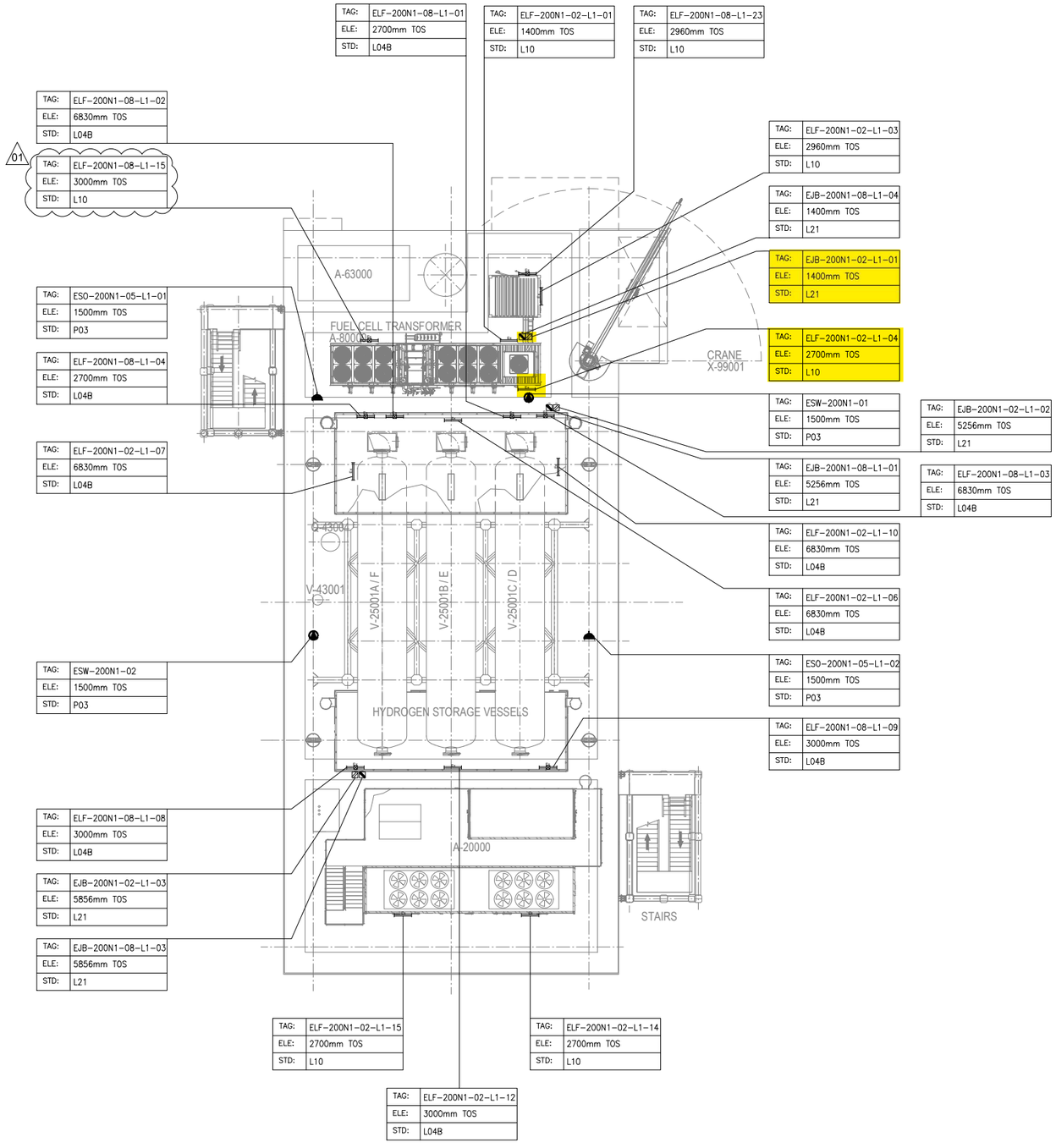
TYPE / SERIAL N° :	MEGGER : KEW3125A SERIAL: W8330207	TYPE / SERIAL N° :	MULTIMETER: FLUKE 175 SERIAL:AW1/018(17140769)
Calibration certificate N° and date:	N°7722/24 _ 10/07/2024	Calibration certificate N° and date:	N°7715/24 _ 10/07/2024

Comments: Nota 4: refer to PL C30000681

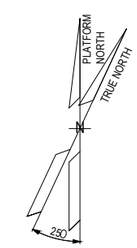
	Performed by	● WITNESS ☐ REVIEW	☐ WITNESS ☐ REVIEW
Company	ICS IMPIANTI	RM(ROSETTI MARINO)	
Name	Michele Tartaglia	Andrea Andreani	
Date	2025-01-08	2025-01-14	
Signature	PROVERLIS Digitaly signed by Michele Tartaglia 2025-01-08T10:12:46.040Z	PROVERLIS Digitaly signed by Andrea Andreani 2025-01-14T15:11:57.256Z	

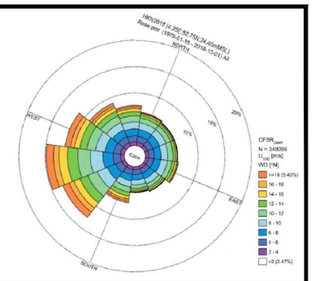
DRAWING NO. 123A90-DDL-EL-DL-20118

REV. 01



PLAN ON UPPER DECK
EL+30.310 T.O.S.





NOTES

1. ALL DIMENSIONS AND ELEVATIONS ARE GIVEN IN mm UNLESS OTHERWISE NOTED.
2. ELEVATIONS REFER TO T.O.S.
3. ELEVATION OF THE LAMPS ARE REFFERED TO THE BOTTOM OF THE LAMP.
4. FOR THE ELEVATION OF JB, REFER TO THE TYPICAL INSTALLATION.

LEGEND

- EMERGENCY LIGHTING JB
- 60W LED EMERGENCY LUMINARIES
- 60W LED EMERGENCY LUMINARIES FIXTURE POLE MOUNTED
- NORMAL LIGHTING JB
- 45W LED NORMAL LUMINARIES
- 45W LED NORMAL LUMINARIES FIXTURE POLE MOUNTED
- WELDING SOCKET WITH INTEGRATED JB
- SMALL POWER SOCKET WITH INTEGRATED JB

JB TAG:	JB-TAG
TAG:	TAG
ELE:	ELEVATION
STD:	STANDARD

VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DL-20118**

REV.:	DATE:	SIGNATURE:
1_B	22/10/24	G.Randi

ROSETTI MARINO SpA

REFERENCE DOCUMENTS

123A90-DDL-PP-DL-70070	PLOT PLAN - LOWER & UPPER DECK
123A90-DDL-EL-DL-20100	ELECTRICAL EQUIPMENT LAYOUT - TOP DECK
123A90-DDL-EL-DD-20091	ELECTRICAL TYPICAL INSTALLATION DETAILS - LIGHTING SYSTEM
123A90-DDL-EL-DD-20092	ELECTRICAL TYPICAL INSTALLATION DETAILS - POWER SYSTEM & CABLE INSTALLATION
123A90-DDL-EL-RE-20153	LIGHTING CALCULATION STUDY REPORT

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	02/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	28/05/24	ASR	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND

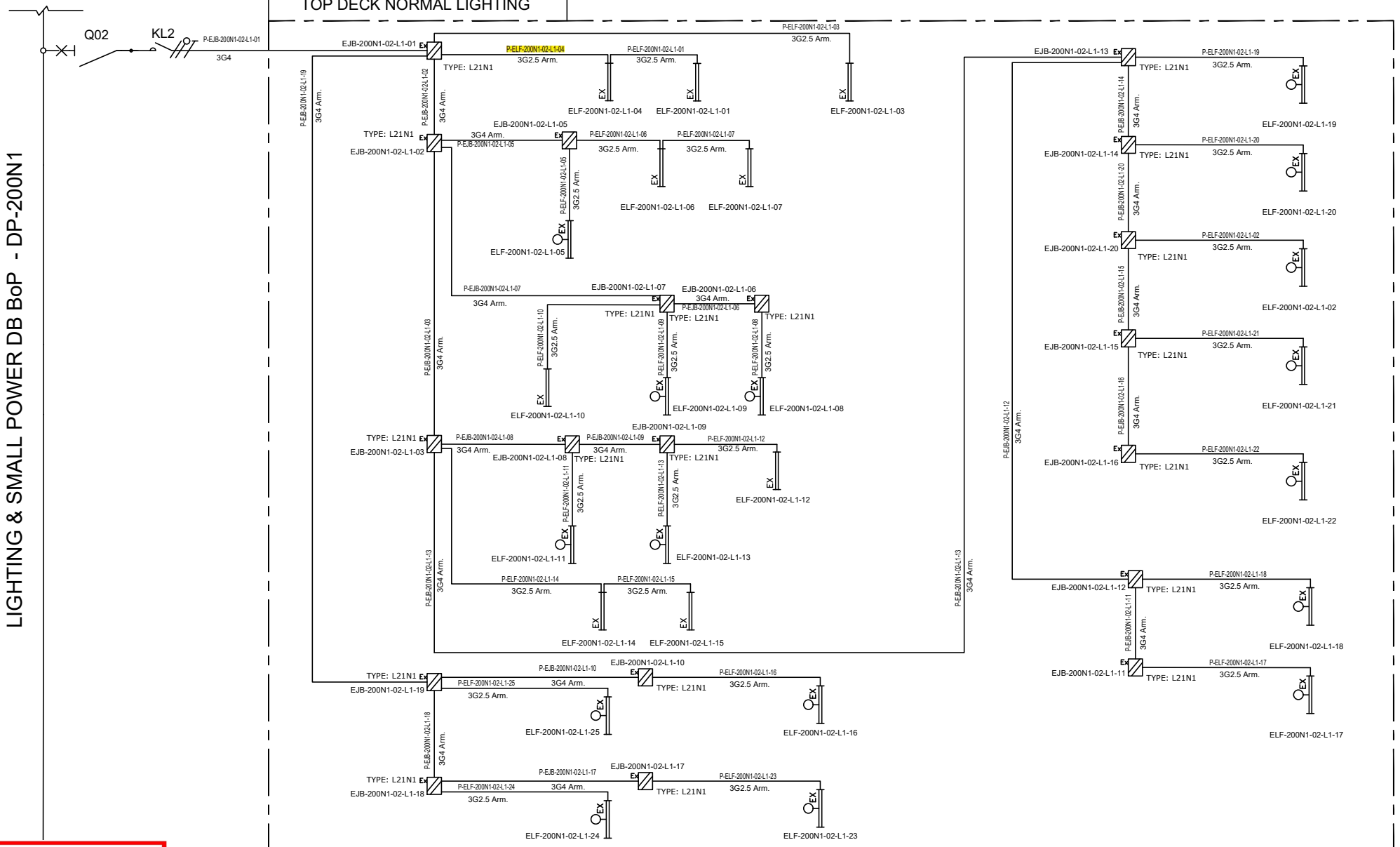
ROSETTI MARINO

TITLE :
BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET LAYOUT – TOP DECK

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK			SCALE 1:150
DRAWN ASR	CHECKED FMA/AMA	APPROVED FPA/DLO	DATE 01/08/24
A1	DRAWING NO. 123A90-DDL-EL-DL-20118	SHEET 2of2	REV. 01

File Name : 123A90-DDL-EL-DL-20118

LIGHTING & SMALL POWER DB BoP - DP-200N1



VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DG-20125**

REV.:	DATE:	SIGNATURE:
2_C	20/12/24	V.Ramponi

ROSETTI MARINO SpA

CROSSWIND

ROSETTI MARINO

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	08/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	01/07/24	ASR	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

TITLE : BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET CIRCUIT DIAGRAM
TOP DECK–NORMAL LIGHTING

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE : NTS

A3

DRAWING NO. 123A90–DDL–EL–DG–20125

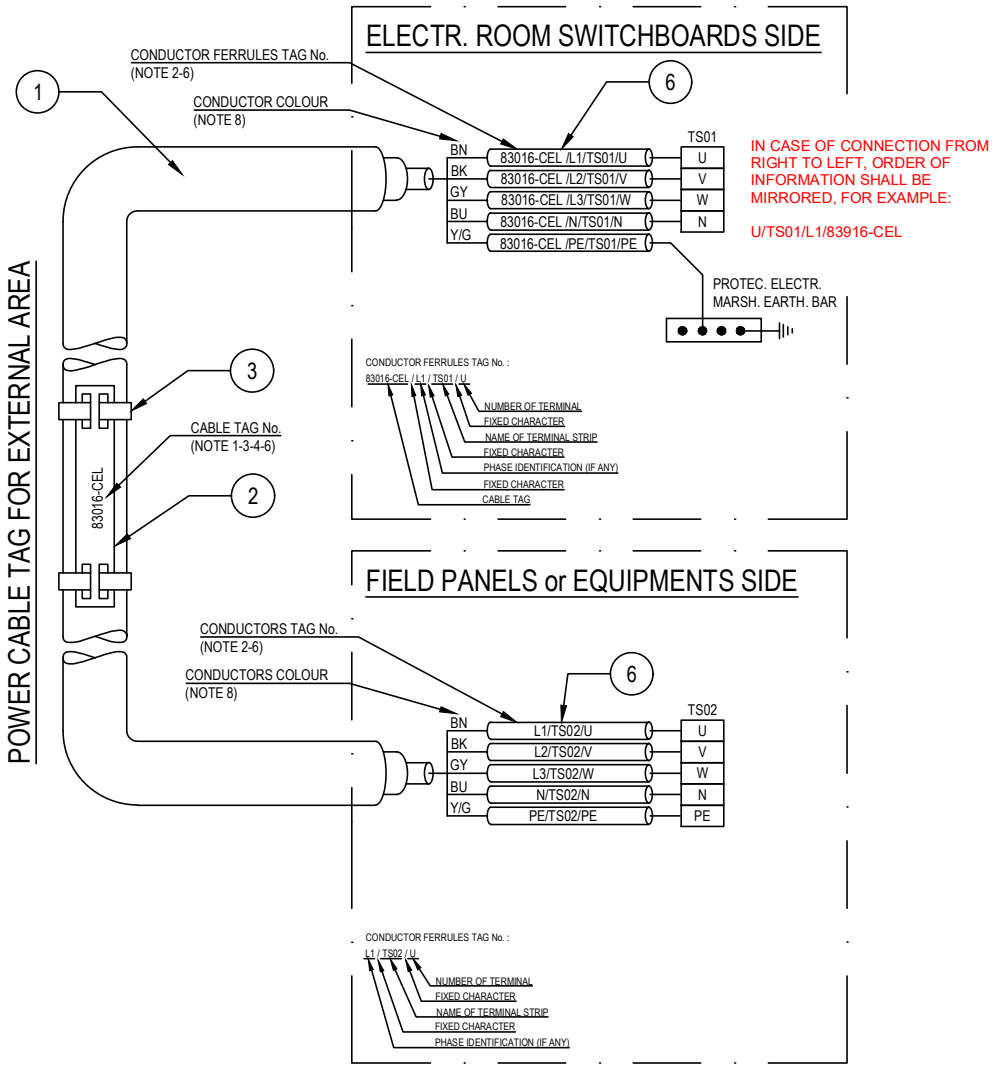
SHEET 010

REV. 01

F.to UNI A3: 420mmx297mm

File Name : 123A90–DDL–EL–DG–20125

C02



POS.	DESCRIPTION	MATERIAL	SIZE	Q.TY	NOTE
1	UNARMOURED CABLE				
2	CABLE TAG FOR EXTERNAL AREA	HDG/SS			NOTE 1 NOTE 4
3	TIE FOR CABLE TAG IN EXTERNAL AREA	HDG/SS			
4	CABLE TAG FOR INTERNAL AREA	PVC			NOTE 1 NOTE 5
5	TIE FOR CABLE TAG IN INTERNAL AREA	NYLON 6.6			
6	CORE FERRULES	PVC			

NOTES:

1) ALL CABLES SHALL BE IDENTIFIED AT EACH TERMINATION AND EACH SIDE OF ANY OBSTACLE (E.G. CABLE TRANSIT ON WALLS INSIDE SHELTER AND FLOOR DECK CROSSING, BY THEIR RESPECTIVE TAGS/NUMBERS, AS INDICATED ON THE CABLE SCHEDULE.
CABLE IDENTIFICATION SHALL BE ALSO DONE BELOW AND IN THE SWITCHBOARD CABLE COMPARTMENT.

2) CABLE CORE FERRULES SHALL BE FITTED AT EVERY TERMINATION. THESE FERRULES SHALL BE OF ENGRAVED PLASTIC SLIP ON, INTERLOCKED AND SELF GRIP TYPE.

3) ON CABLE TRAYS OR LADDERS, CABLES SHALL BE IDENTIFIED AT EACH END, AND EVERY 25 METERS.

4) THE CABLE TAG FOR EXTERNAL AREA SHALL DONE BY 316L STAINLESS STEEL LABELS, TAG (H=5mm) SHALL BE LASER PRINTED PREFERABLY OR EMBOSSED, LABEL HELD BY TWO 316L STAINLESS STEEL TIES.

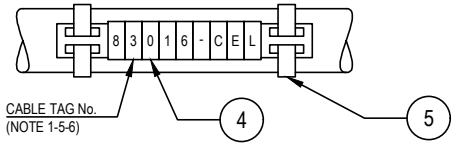
5) THE CABLE TAG FOR INTERNAL AREA SHALL BE DONE BY ENGRAVED PLASTIC SLIP ON CHARACTERS ONTO PLASTIC TIE, BLACK LETTER (H=5mm) ON WHITE.

6) CABLE AND CONDUCTOR TAG ARE INDICATIVE ONLY.

7) WITHIN TECHNICAL BUILDING, PROTECTIVE CONDUCTOR SHALL BE TAGGED BETWEEN FOLLOWING ITEMS:
- PANEL (SWITCHBOARD, SWITCHGEAR, DISTRIBUTION BOARD, ETC) AND EARTH BAR
- EARTH BAR AND EARTH BOSS

8) ONLY IF NECESSARY, SHRINK TUBES OF THE APPROPRIATE COLOR WILL BE INSTALLED TO COVER THE WRONG CONDUCTOR COLOR, THIS WILL BE PERFORMED IN EACH SIDE OF THE CABLES WHERE NECESSARY.

POWER CABLE TAG FOR INTERNAL AREA



VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DD-20092**

REV.:	DATE:	SIGNATURE:
2_D	20/12/24	V.Ramponi

ROSETTI MARINO SpA

CROSSWIND

ROSETTI MARINO

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	28/08/24	GRA	AMA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	04/07/24	NLK	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	21/11/23	SPS	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL TYPICAL INSTALLATION DETAILS-POWER SYSTEM & CABLE INSTALLATION
CABLES INSTALLATION SYSTEM IDENTIFICATION FOR POWER CABLES

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK | SCALE : NTS

A3 | DRAWING NO. 123A90-DDL-EL-DD-20092 | SHEET 007 | REV. 02

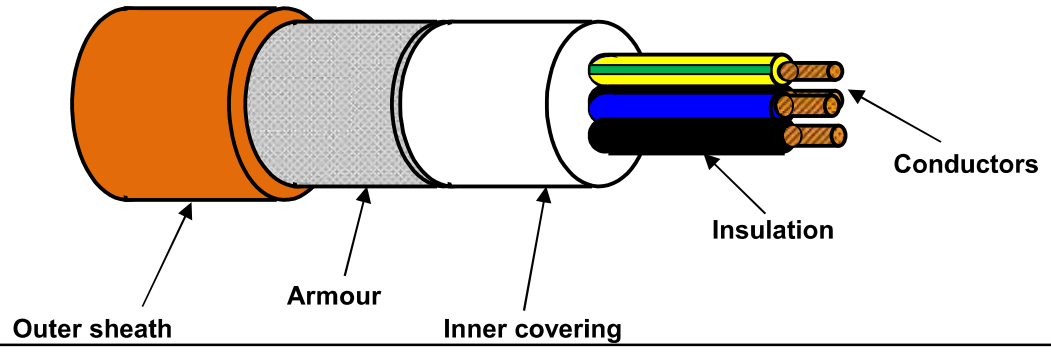
F.to UNI A3: 420mmx297mm

File Name : 123A90-DDL-EL-DD-20092 REV.02.DWG

Tag Number	Category	Discipline	Eng Status	NativeDoc	Layout	Parent Tag	Main Function	Secondary Function	Area	From Tag	From Main Function	From Area	To Tag	To Main Function	To Area	Material ID	Material Desc.	Gland Standard	From Gland	From Entry	From Fitting	To Gland	To Entry	To Fitting	Routing	Routing Manual
P-ELF-200N1-02-L1-04	Cable	LSP	VFC	123A90-DDL-EL-LIS-20148						EJB-200N1-02-L1-01	Normal Lighting JB	Upper Deck	ELF-200N1-02-L1-04	Normal Lighting Fixture	Upper Deck	ELECV19-3G2,5	Cable Cu Cl.2/MGT/EPR/LSZH/GSWB/LSZH 0,6/1kV 3G2,5mm² - Orange	M20	T2_M20_Double			T2_M20_Double				L-300-102-LVT-002 / L-50-102-LVT-072 / L-50-102-LVT-073

Cu Cl.2/MGT/EPR/LSZH/GSWB/LSZH 0,6/1 KV

3G2,5 - L.V. POWER CABLE - Fire Resistant & Flame Retardant - ARMOURED



TECHNICAL FEATURES

Conductors :	**STRANDED** plain/bare annealed copper wires	IEC 60228 Class 2
Insulation :	Mica/Glass Tape (MGT) plus EPR compound, quality to IEC 60092.360, Nominal Thickness 1,0 mm	
Cores colour code :	**Brown - Blue - Yellow/Green**	
Pair Assembling :	Not required	
Pair Wrapping:	Not required	
Drain wire :	Not required	
Pair Shield :	Not required	
Shield Insulation :	Not Required	
Total Assembling :	Cores layed up with optimal lay length	
Overall Wrapping:	Not required	
Drain wire :	Not required	
Overall Shield:	Not required	
Inner covering :	Extruded LSZH compound, Average Thickness 1,0 mm	
Inner covering color code:	**Black or Natural**	
Armour :	**Galvanized Steel Wire Braid Armour (coverage ≥ 90%)**	
Outer sheath :	Extruded LSZH Thermoplastic Compound (O.I. ≥ 30%), type **SHF1** to IEC 60093.360, Average Thickness 1,3 mm	
Outer sheath color code:	**Orange**	
Outer printing (INKJET) :	**FLEI - ELECTRIC CABLE - 1000V - 3G2,5 SQMM - MGT/EPR/LSZH/GSWB/LSZH - 0,6/1 KV - IEC 60331.21 - IEC 60332.1.2 - IEC 60332.3.22 - Year of Manufacture - CE + Meter Marking**	
Under Armour diameter :	(11,7 ± 10%) mm	
Over Armour diameter :	(12,9 ± 10%) mm	
Outer diameter :	(15,5 ± 10%) mm	
Bending radius :	cable outer diameter x 10	(in fixed installation)
Voltage test :	3,5 kV a.c. for 5' (Between Cores - Armour)	
Conductors DC Resistance :		IEC 60228 Class 2
Insulation Resistance :	≥ 940 MΩ x Km (@ 20°C)	
Applicable Standards		
Design Guidelines :	**IEC 60092.353**	
ON COMPLETE CABLE		
Fire Resistant test :	**IEC 60331.21**	
Flame Retardant test :	IEC 60332.1.2 - IEC 60332.3.22	
Acid Gas generation :	IEC 60754.1/2	
Smoke density/Light Transmittance	IEC 61034.2 (LT ≥ 60%)	
Temperature Range :		
ON INSULATION	(max +90°C)	(max continuous operation temperature of conductors)
	(max +250°C)	(max conductors temperature during short-circuit for 5 seconds)
ON COMPLETE CABLE		
During Operation :	(-20°C up to +90°C)	(in fixed installation)
During installation :	(- 5°C up to +50°C)	
Note :	**To meet the requirements of installation and use in Zone 1 & Zone 2 (IEC 60079-14) and "Gas & Vapour Tight" the cable must be provided with Penetrating Inner covering together with correct ATEX approved equipment or accessories.**	

Office	Date	Sign	Rev.	Date	Sign
Drawn by :	29/03/2024	Messa			
Checked :	29/03/2024	Spaccasassi			
Approved :	29/03/2024	Cucinotta			

The data provided, lending assent for the treatment, will be used to the sense of the article 13 of of the Regulation (UE) 2016/679, also through outsiders, in order to allow the realization of the fulfilments informatives, administrative, commercial and accounting related to the contractual relationship. Integral copy of the informative could be requested at our offices.

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ITEM	Tag	P-ELF-200N1-02-L1-06	: Normal Lighting Fixture / Normal Lighting Fixture			Dwg	123A90-DDL-EL-LIS-20148
	S/Sys	83-40	: Normal Lighting Upper Deck			Module	UD
TASK	code	C10000667		Location	Onshore Activities	User	Rosetti Marino Quality Control
FORM	Process	MC	Activity CCK	Discipline	Electrical	Form	CPX09 LV Power Cable

CABLE DATA

Type Cu Cl.2/MGT/EPR/LSZH/GSWB/LSZH Cores/Size mm² 3G4 mm2 Color ORANGE

From EJB-200N1-02-L1-05 To ELF-200N1-02-L1-06

1	Confirm cable is as specified in project cable schedule	OK
2	Visual Check cable physical integrity.	OK
3	Check is installed in accordance with layout drawing (segregation, distance…).	OK
4	Check cable is supported and fixed to rack according to project specification.	Note
5	Check bending radius is within the specified limits.	OK
6	Confirm cable glands suit for cable type, correctly mounted and tightened.	PL
7	Check gland plate for single core cables is non ferrous (non -magnetic).	NA
8	Confirm cable labelling is in accordance with specifications.	PL
9	Check cable is correctly loomed and segregated in accordance with specification.	OK
10	Check cable earthing against lastest drawings.	OK
11	Check cores marking are in accordance with termination diagram	OK
12	Check terminations are in accordance with latest termination diagram	OK
13	If required produce Red Line Mark Up for "AS BUILT"	

ROSETTI MARINO PROVERLIS CROSSWIND

ITEM	Tag	P-ELF-200N1-02-L1-06	: Normal Lighting Fixture / Normal Lighting Fixture			Dwg	123A90-DDL-EL-LIS-20148
	S/Sys	83-40	: Normal Lighting Upper Deck			Module	UD
TASK	code	C10000667		Location	Onshore Activities	User	Rosetti Marino Quality Control
FORM	Process	MC	Activity CCK	Discipline	Electrical	Form	CPX09 LV Power Cable

	CONTINUITY			
5	CORE CONTINUITY Ω	PH 1	0,2	
6		PH 2	0,2	
7		PH 3	NA	
8	ARMOUR CONTINUITY Ω		0,2	
9	PROTECTIVE CONDUCTOR CONTINUITY Ω		0,2	
	INSULATION			
10	CORES / ARMOUR+EARTH MΩ	PH1 / PH2-PH3-A-E	>999	
11		PH2 / PH1-PH3-A-E	>999	
12		PH3 / PH1-PH2-A-E	NA	
13	CABLE IS CORRECTLY RE-CONNECTED.		Yes	

TESTING INSTRUMENTS USED

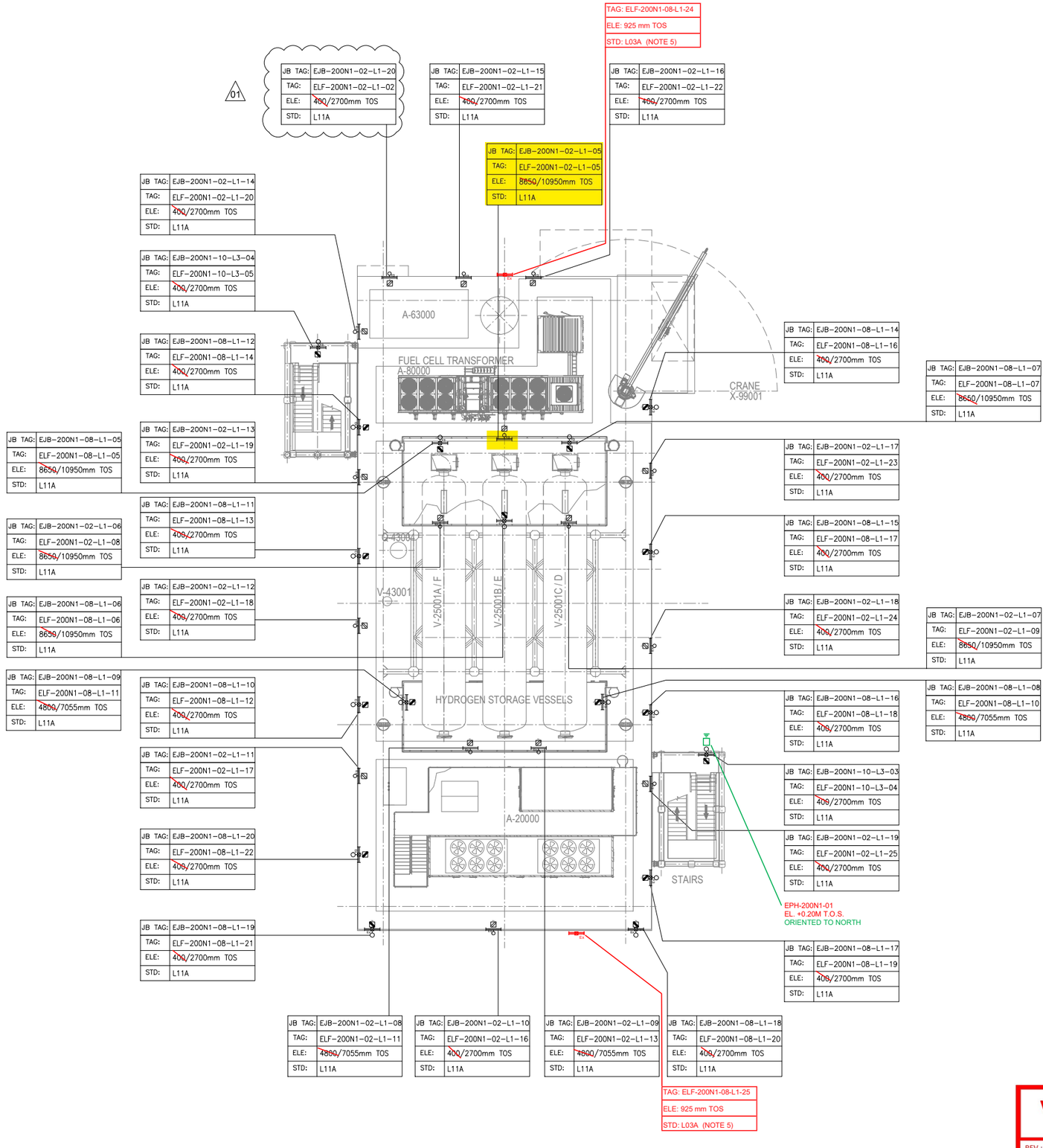
TYPE / SERIAL N° :	MEGGER : KEW3125A SERIAL: W8330207	TYPE / SERIAL N° :	MULTIMETER: FLUKE 175 SERIAL:AW1/018(17140769)
Calibration certificate N° and date:	N°7722/24 _ 10/07/2024	Calibration certificate N° and date:	N°7715/24 _ 10/07/2024

Comments: Nota 4: refer to PL C30000681

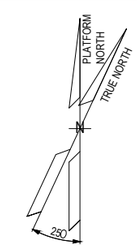
	Performed by	● WITNESS ☐ REVIEW	☐ WITNESS ☐ REVIEW
Company	ICS IMPIANTI	RM(ROSETTI MARINO)	
Name	Michele Tartaglia	Andrea Andreani	
Date	2025-01-08	2025-01-16	
Signature	PROVERLIS Digitaly signed by Michele Tartaglia 2025-01-08T10:12:59.460Z	PROVERLIS Digitaly signed by Andrea Andreani 2025-01-16T08:38:41.294Z	

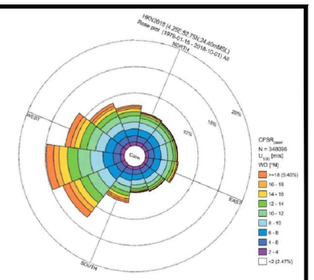
DRAWING NO. 123A90-DDL-EL-DL-20118

REV. 01



PLAN ON UPPER DECK
EL+30.310 T.O.S.





NOTES

1. ALL DIMENSIONS AND ELEVATIONS ARE GIVEN IN mm UNLESS OTHERWISE NOTED.
2. ELEVATIONS REFER TO T.O.S.
3. ELEVATION OF THE LAMPS ARE REFFERED TO THE BOTTOM OF THE LAMP.
4. FOR THE ELEVATION OF JB, REFER TO THE TYPICAL INSTALLATION.
5. FOR ELF-200N1-08-L1-24 AND ELF-200N1-08-L1-25 CONSTRUCTION DETAILS REFER TO DOC. 123A90-DDL-ST-DD-90076

LEGEND

- EMERGENCY LIGHTING JB
- 60W LED EMERGENCY LUMINARIES
- 60W LED EMERGENCY LUMINARIES FIXTURE POLE MOUNTED
- NORMAL LIGHTING JB
- 45W LED NORMAL LUMINARIES
- 45W LED NORMAL LUMINARIES FIXTURE POLE MOUNTED
- WELDING SOCKET WITH INTEGRATED JB
- SMALL POWER SOCKET WITH INTEGRATED JB
- TWILIGHT RELAY SENSOR

JB TAG:	JB-TAG
TAG:	TAG
ELE:	ELEVATION
STD:	STANDARD

REFERENCE DOCUMENTS

123A90-DDL-PP-DL-70070	PLOT PLAN - LOWER & UPPER DECK
123A90-DDL-EL-DL-20100	ELECTRICAL EQUIPMENT LAYOUT - TOP DECK
123A90-DDL-EL-DD-20091	ELECTRICAL TYPICAL INSTALLATION DETAILS - LIGHTING SYSTEM
123A90-DDL-EL-DD-20092	ELECTRICAL TYPICAL INSTALLATION DETAILS - POWER SYSTEM & CABLE INSTALLATION
123A90-DDL-EL-RE-20153	LIGHTING CALCULATION STUDY REPORT
123A90-DDL-ST-DD-90076	IDENTIFICATION PANELS ASSEMBLY AND DETAILS

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	02/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	28/05/24	ASR	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND | ROSETTI MARINO

VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DL-20118**

REV.:	DATE:	SIGNATURE:
1_G	09/01/25	V.Ramponi

ROSETTI MARINO SpA

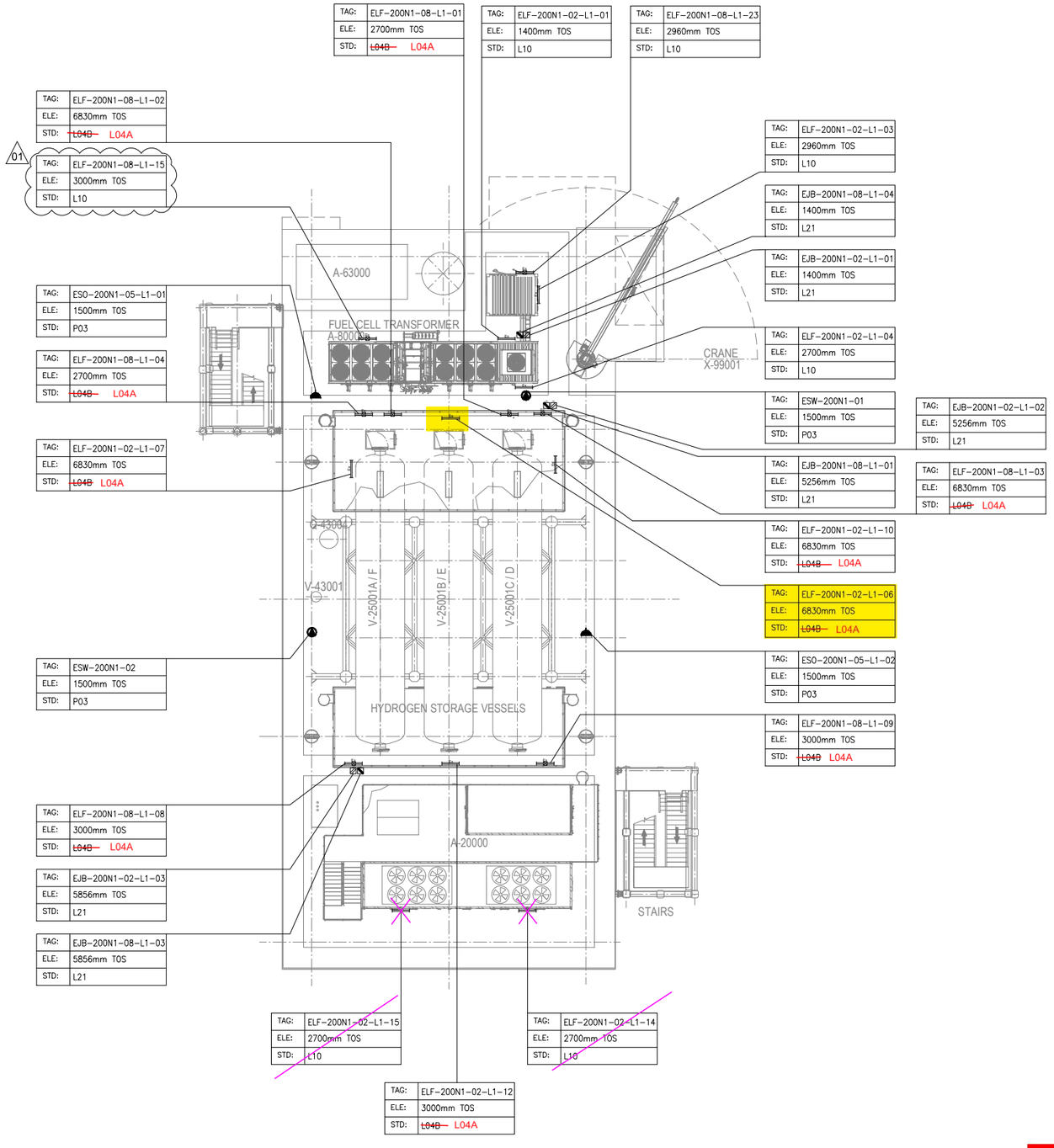
TITLE : BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET LAYOUT – TOP DECK

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK			SCALE 1:150
DRAWN ASR	CHECKED FMA/AMA	APPROVED FPA/DLO	DATE 01/08/24
A1	DRAWING NO. 123A90-DDL-EL-DL-20118	SHEET 1of2	REV. 01

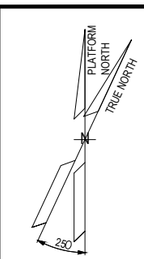
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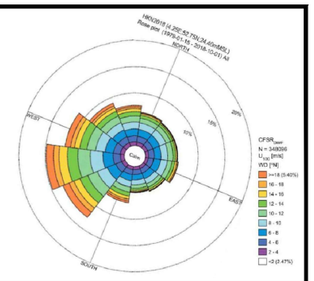
DRAWING NO. 123A90-DDL-EL-DL-20118

REV. 01



PLAN ON UPPER DECK
EL+30.310 T.O.S.





NOTES

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3. ELEVATION OF THE LAMPS ARE REFFERED TO THE BOTTOM OF THE LAMP.
4. FOR THE ELEVATION OF JB, REFER TO THE TYPICAL INSTALLATION.

LEGEND

- EMERGENCY LIGHTING JB
- 60W LED EMERGENCY LUMINARIES
- 60W LED EMERGENCY LUMINARIES FIXTURE POLE MOUNTED
- NORMAL LIGHTING JB
- 45W LED NORMAL LUMINARIES
- 45W LED NORMAL LUMINARIES FIXTURE POLE MOUNTED
- WELDING SOCKET WITH INTEGRATED JB
- SMALL POWER SOCKET WITH INTEGRATED JB

JB TAG:	JB-TAG
TAG:	TAG
ELE:	ELEVATION
STD:	STANDARD

REFERENCE DOCUMENTS

123A90-DDL-PP-DL-70070	PLOT PLAN - LOWER & UPPER DECK
123A90-DDL-EL-DL-20100	ELECTRICAL EQUIPMENT LAYOUT - TOP DECK
123A90-DDL-EL-DD-20091	ELECTRICAL TYPICAL INSTALLATION DETAILS - LIGHTING SYSTEM
123A90-DDL-EL-DD-20092	ELECTRICAL TYPICAL INSTALLATION DETAILS - POWER SYSTEM & CABLE INSTALLATION
123A90-DDL-EL-RE-20153	LIGHTING CALCULATION STUDY REPORT
123A90-DDL-ST-DD-90076	IDENTIFICATION PANELS ASSEMBLY AND DETAILS

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	02/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	28/05/24	ASR	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DL-20118**

REV.:	DATE:	SIGNATURE:
1_G	09/01/25	V.Ramponi

ROSETTI MARINO SpA

CROSSWIND

ROSETTI MARINO

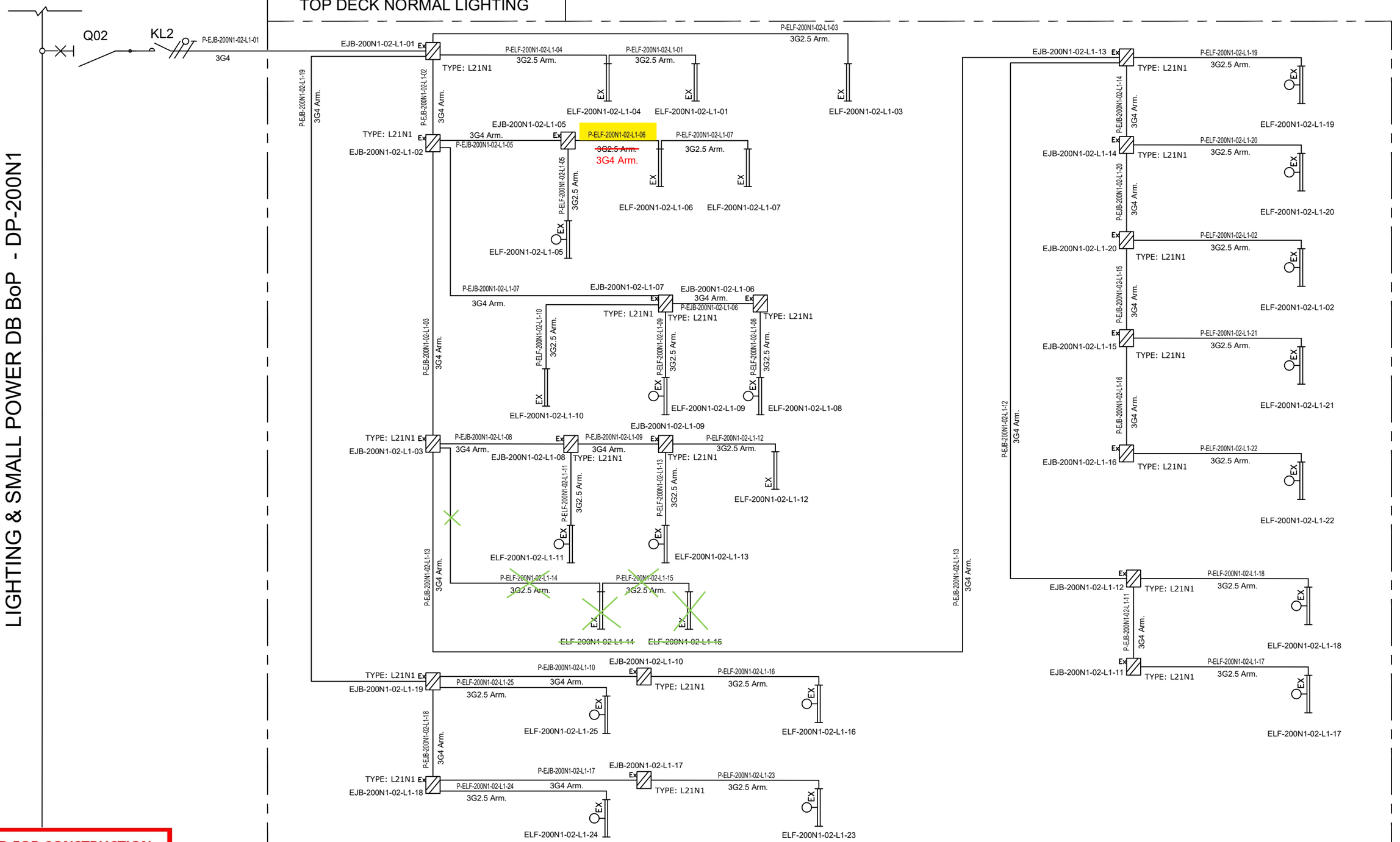
TITLE : BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET LAYOUT – TOP DECK

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK		SCALE 1:150	
DRAWN ASR	CHECKED FMA/AMA	APPROVED FPA/DLO	DATE 01/08/24
A1	DRAWING NO. 123A90-DDL-EL-DL-20118	SHEET 2of2	REV. 01

File Name : 123A90-DDL-EL-DL-20118

LIGHTING & SMALL POWER DB BoP - DP-200N1

TOP DECK NORMAL LIGHTING



VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DG-20152**

REV.:	DATE:	SIGNATURE:
2_F	14/01/25	G.Randi

ROSETTI MARINO SpA

CROSSWIND

ROSETTI MARINO

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	08/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	01/07/24	ASR	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

TITLE : BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET CIRCUIT DIAGRAM
TOP DECK–NORMAL LIGHTING

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE : NTS

A3

DRAWING NO. 123A90–DDL–EL–DG–20125

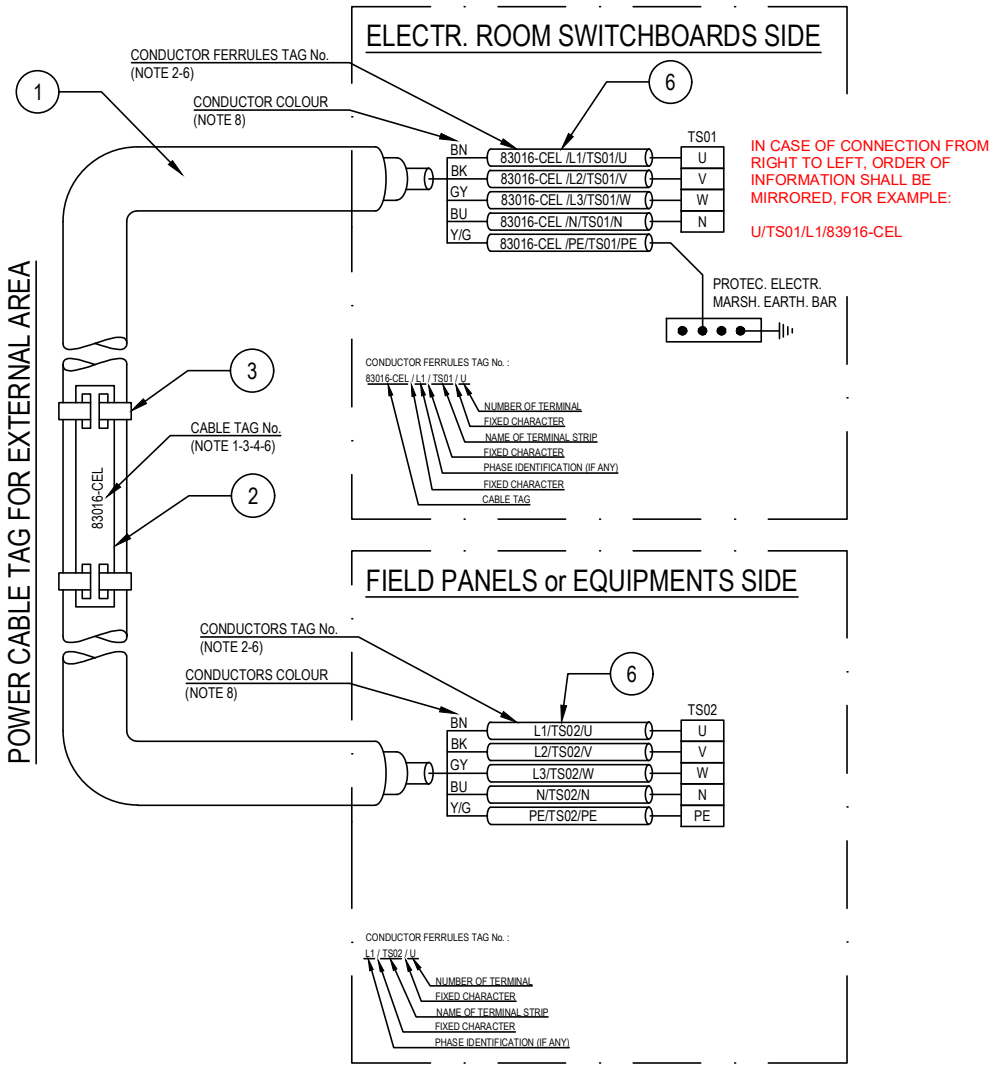
SHEET 010

REV. 01

F.to UNI A3: 420mmx297mm

File Name : 123A90–DDL–EL–DG–20125

C02



POS.	DESCRIPTION	MATERIAL	SIZE	Q.TY	NOTE
1	UNARMOURED CABLE				
2	CABLE TAG FOR EXTERNAL AREA	HDG/SS			NOTE 1 NOTE 4
3	TIE FOR CABLE TAG IN EXTERNAL AREA	HDG/SS			
4	CABLE TAG FOR INTERNAL AREA	PVC			NOTE 1 NOTE 5
5	TIE FOR CABLE TAG IN INTERNAL AREA	NYLON 6.6			
6	CORE FERRULES	PVC			

NOTES:

1) ALL CABLES SHALL BE IDENTIFIED AT EACH TERMINATION AND EACH SIDE OF ANY OBSTACLE (E.G. CABLE TRANSIT ON WALLS INSIDE SHELTER AND FLOOR DECK CROSSING, BY THEIR RESPECTIVE TAGS/NUMBERS, AS INDICATED ON THE CABLE SCHEDULE.
CABLE IDENTIFICATION SHALL BE ALSO DONE BELOW AND IN THE SWITCHBOARD CABLE COMPARTMENT.

2) CABLE CORE FERRULES SHALL BE FITTED AT EVERY TERMINATION. THESE FERRULES SHALL BE OF ENGRAVED PLASTIC SLIP ON, INTERLOCKED AND SELF GRIP TYPE.

3) ON CABLE TRAYS OR LADDERS, CABLES SHALL BE IDENTIFIED AT EACH END, AND EVERY 25 METERS.

4) THE CABLE TAG FOR EXTERNAL AREA SHALL DONE BY 316L STAINLESS STEEL LABELS, TAG (H=5mm) SHALL BE LASER PRINTED PREFERABLY OR EMBOSSED, LABEL HELD BY TWO 316L STAINLESS STEEL TIES.

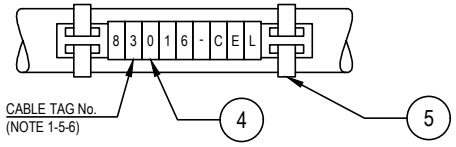
5) THE CABLE TAG FOR INTERNAL AREA SHALL BE DONE BY ENGRAVED PLASTIC SLIP ON CHARACTERS ONTO PLASTIC TIE, BLACK LETTER (H=5mm) ON WHITE.

6) CABLE AND CONDUCTOR TAG ARE INDICATIVE ONLY.

7) WITHIN TECHNICAL BUILDING, PROTECTIVE CONDUCTOR SHALL BE TAGGED BETWEEN FOLLOWING ITEMS:
- PANEL (SWITCHBOARD, SWITCHGEAR, DISTRIBUTION BOARD, ETC) AND EARTH BAR
- EARTH BAR AND EARTH BOSS

8) ONLY IF NECESSARY, SHRINK TUBES OF THE APPROPRIATE COLOR WILL BE INSTALLED TO COVER THE WRONG CONDUCTOR COLOR, THIS WILL BE PERFORMED IN EACH SIDE OF THE CABLES WHERE NECESSARY.

POWER CABLE TAG FOR INTERNAL AREA



VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DD-20092**

REV.:	DATE:	SIGNATURE:
2_D	20/12/24	V.Ramponi

ROSETTI MARINO SpA

CROSSWIND

ROSETTI MARINO

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	28/08/24	GRA	AMA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	04/07/24	NLK	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	21/11/23	SPS	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL TYPICAL INSTALLATION DETAILS-POWER SYSTEM & CABLE INSTALLATION
CABLES INSTALLATION SYSTEM IDENTIFICATION FOR POWER CABLES

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK | SCALE : NTS

A3 | DRAWING NO. 123A90-DDL-EL-DD-20092 | SHEET 007 | REV. 02

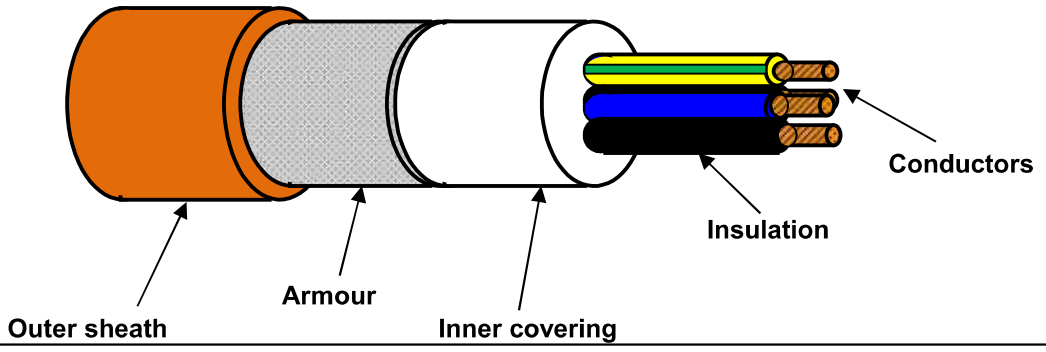
F.to UNI A3: 420mmx297mm

File Name : 123A90-DDL-EL-DD-20092 REV.02.DWG

Tag Number	Info	Category	Discipl	Eng Status	Service	Entity Type	Main Function	Module	Area	From Tag	From Main Func	From Tag Section	To Tag	To Main Funct	To Tag Sectio	Material ID	Material Desc.	Gland St	From Gland	From Entry	From Fitting	To Gland	To Entry	To Fitting	Routing	Routing Manual
P-ELF-200N1-02-L1-06		Cable	LSP	VFC						EJB-200N1-02-L1-05	Normal Lighting JB		ELF-200N1-02-L1-06	Normal Lighting Fixture		ELECV38-3G4	Cable Cu Cl.2/MGT/EPR/LSZH/GSWB/LSZH 0,6/1kV 3G4mm^2 - Orange	M20	T2_M20_Double	M25	RED_M25Mx M20F	T2_M20_Double				L-50-102-LVT-054 / L-150-102-LVT-011

Cu Cl.2/MGT/EPR/LSZH/GSWB/LSZH 0,6/1 KV

3G4 - L.V. POWER CABLE - Fire Resistant & Flame Retardant - ARMOURED



TECHNICAL FEATURES

Conductors :	**STRANDED** plain/bare annealed copper wires	IEC 60228 Class 2
Insulation :	Mica/Glass Tape (MGT) plus EPR compound, quality to IEC 60092.360, Nominal Thickness 1,0 mm	
Cores colour code :	**Brown - Blue - Yellow/Green**	
Pair Assembling :	Not required	
Pair Wrapping:	Not required	
Drain wire :	Not required	
Pair Shield :	Not required	
Shield Insulation :	Not Required	
Total Assembling :	Cores layed up with optimal lay length	
Overall Wrapping:	Not required	
Drain wire :	Not required	
Overall Shield:	Not required	
Inner covering :	Extruded LSZH compound, Average Thickness 1,0 mm	
Inner covering color code:	**Black or Natural**	
Armour :	**Galvanized Steel Wire Braid Armour (coverage ≥ 90%)**	
Outer sheath :	Extruded LSZH Thermoplastic Compound (O.I. ≥ 30%), type **SHF1** to IEC 60092.360, Average Thickness 1,4 mm	
Outer sheath color code:	**Orange**	
Outer printing (INKJET) :	**FLEI - ELECTRIC CABLE - 1000V - 3G4 SQMM - MGT/EPR/LSZH/GSWB/LSZH - 0,6/1 KV - IEC 60331.21 -**	
	IEC 60332.1.2 - IEC 60332.3.22 - Year of Manufacture - CE + Meter Marking	
Under Armour diameter :	(13,0 ± 10%) mm	
Over Armour diameter :	(14,2 ± 10%) mm	
Outer diameter :	(17,0 ± 10%) mm	
Bending radius :	cable outer diameter x 10	(in fixed installation)
Voltage test :	3,5 kV a.c. for 5' (Between Cores - Armour)	
Conductors DC Resistance :		IEC 60228 Class 2
Insulation Resistance :	≥ 790 MΩ x Km (@ 20°C)	
Applicable Standards		
Design Guidelines :	**IEC 60092.353**	
ON COMPLETE CABLE		
Fire Resistant test :	**IEC 60331.21**	
Flame Retardant test :	IEC 60332.1.2 - IEC 60332.3.22	
Acid Gas generation :	IEC 60754.1/2	
Smoke density/Light Transmittance	IEC 61034.2 (LT ≥ 60%)	
Hazardous Areas :	IEC 60079.14:2013 par.9.3.2a	
Temperature Range :		
ON INSULATION	(max +90°C)	(max continuous operation temperature of conductors)
	(max +250°C)	(max conductors temperature during short-circuit for 5 seconds)
ON COMPLETE CABLE		
During Operation :	(-20°C up to +90°C)	(in fixed installation)
During installation :	(- 5°C up to +50°C)	
Note :	**To meet the requirements of installation and use in Zone 1 & Zone 2 (IEC 60079-14) and "Gas & Vapour Tight" the cable must be provided with Penetrating Inner covering together with correct ATEX approved equipment or accessories.**	

Office	Date	Sign	Rev.	Date	Sign
Drawn by :	29/03/2024	Messa			
Checked :	29/03/2024	Spaccasassi			
Approved :	29/03/2024	Cucinotta			

The data provided, lending assent for the treatment, will be used to the sense of the article 13 of of the Regulation (UE) 2016/679, also through outsiders, in order to allow the realization of the fulfilments informatives, administrative, commercial and accounting related to the contractual relationship. Integral copy of the informative could be requested at our offices.

All proprietary rights reserved according to law. This document shall be not reproduced without written permission. FLEI reserves the right to change characteristics and technical data of product shown at any time.

ITEM	Tag	P-ELF-200N1-02-L1-07	: Normal Lighting Fixture / Normal Lighting Fixture			Dwg	123A90-DDL-EL-LIS-20148
	S/Sys	83-40	: Normal Lighting Upper Deck			Module	UD
TASK	code	C10000668		Location	Onshore Activities	User	Rosetti Marino Quality Control
FORM	Process	MC	Activity CCK	Discipline	Electrical	Form	CPX09 LV Power Cable

CABLE DATA

Type Cu Cl.2/MGT/EPR/LSZH/GSWB/LSZH Cores/Size mm² 3G2,5 mm2 Color ORANGE

From ELF-200N1-02-L1-06 To ELF-200N1-02-L1-07

1	Confirm cable is as specified in project cable schedule	OK
2	Visual Check cable physical integrity.	OK
3	Check is installed in accordance with layout drawing (segregation, distance…).	OK
4	Check cable is supported and fixed to rack according to project specification.	Note
5	Check bending radius is within the specified limits.	OK
6	Confirm cable glands suit for cable type, correctly mounted and tightened.	OK
7	Check gland plate for single core cables is non ferrous (non -magnetic).	NA
8	Confirm cable labelling is in accordance with specifications.	OK
9	Check cable is correctly loomed and segregated in accordance with specification.	OK
10	Check cable earthing against lastest drawings.	OK
11	Check cores marking are in accordance with termination diagram	OK
12	Check terminations are in accordance with latest termination diagram	OK
13	If required produce Red Line Mark Up for "AS BUILT"	

ROSETTI MARINO PROVERLIS CROSSWIND

ITEM	Tag	P-ELF-200N1-02-L1-07	: Normal Lighting Fixture / Normal Lighting Fixture			Dwg	123A90-DDL-EL-LIS-20148
	S/Sys	83-40	: Normal Lighting Upper Deck			Module	UD
TASK	code	C10000668		Location	Onshore Activities	User	Rosetti Marino Quality Control
FORM	Process	MC	Activity CCK	Discipline	Electrical	Form	CPX09 LV Power Cable

CONTINUITY				
5	CORE CONTINUITY Ω	PH 1	0,2	
6		PH 2	0,2	
7		PH 3	NA	
8	ARMOUR CONTINUITY Ω		0,2	
9	PROTECTIVE CONDUCTOR CONTINUITY Ω		NA	
INSULATION				
10	CORES / ARMOUR+EARTH MΩ	PH1 / PH2-PH3-A-E	>999	
11		PH2 / PH1-PH3-A-E	>999	
12		PH3 / PH1-PH2-A-E	NA	
13	CABLE IS CORRECTLY RE-CONNECTED.		Yes	

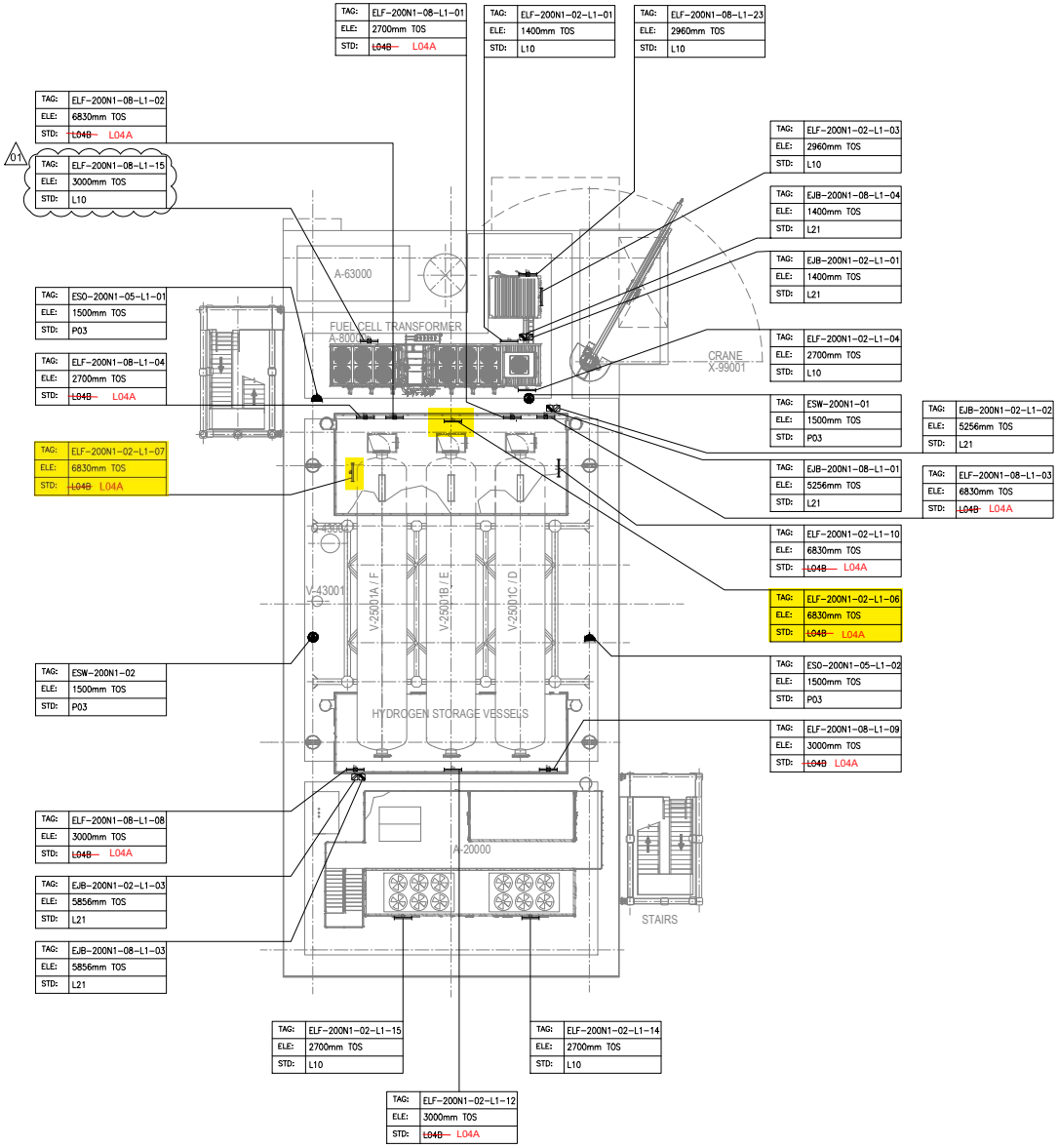
TESTING INSTRUMENTS USED			
TYPE / SERIAL N° :	MEGGER : KEW3125A SERIAL: W8330207	TYPE / SERIAL N° :	MULTIMETER: FLUKE 175 SERIAL:AW1/018(17140769)
Calibration certificate N° and date:	N°7722/24 _ 10/07/2024	Calibration certificate N° and date:	N°7715/24 _ 10/07/2024

Comments: Nota 4: refer to PL C30000681

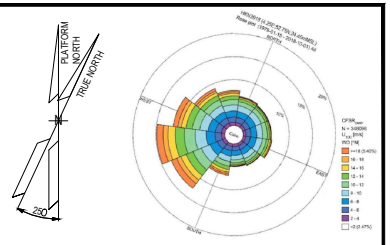
	Performed by	● WITNESS ☐ REVIEW	☐ WITNESS ☐ REVIEW
Company	ICS IMPIANTI	RM(ROSETTI MARINO)	
Name	Michele Tartaglia	Andrea Andreani	
Date	2025-01-08	2025-01-15	
Signature	PROVERLIS Digitaly signed by Michele Tartaglia 2025-01-08T09:55:41.620Z	PROVERLIS Digitaly signed by Andrea Andreani 2025-01-15T16:35:34.014Z	

DRAWING NO. 123A90-DDL-EL-DL-20118

REV. 01



PLAN ON UPPER DECK
EL+30.310 T.O.S.



NOTES

1. ALL DIMENSIONS AND ELEVATIONS ARE GIVEN IN mm UNLESS OTHERWISE NOTED.
2. ELEVATIONS REFER TO T.O.S.
3. ELEVATION OF THE LAMPS ARE REFFERED TO THE BOTTOM OF THE LAMP.
4. FOR THE ELEVATION OF JB, REFER TO THE TYPICAL INSTALLATION.

LEGEND

- EMERGENCY LIGHTING JB
- 60W LED EMERGENCY LUMINARIES
- 60W LED EMERGENCY LUMINARIES FIXTURE POLE MOUNTED
- NORMAL LIGHTING JB
- 45W LED NORMAL LUMINARIES
- 45W LED NORMAL LUMINARIES FIXTURE POLE MOUNTED
- WELDING SOCKET WITH INTEGRATED JB
- SMALL POWER SOCKET WITH INTEGRATED JB

JB TAG:	JB-TAG
TAG:	TAG
ELE:	ELEVATION
STD:	STANDARD

REFERENCE DOCUMENTS

123A90-DDL-PP-DL-70070	PLOT PLAN - LOWER & UPPER DECK
123A90-DDL-EL-DL-20100	ELECTRICAL EQUIPMENT LAYOUT - TOP DECK
123A90-DDL-EL-DD-20091	ELECTRICAL TYPICAL INSTALLATION DETAILS - LIGHTING SYSTEM
123A90-DDL-EL-DD-20092	ELECTRICAL TYPICAL INSTALLATION DETAILS - POWER SYSTEM & CABLE INSTALLATION
123A90-DDL-EL-RE-20153	LIGHTING CALCULATION STUDY REPORT
123A90-DDL-ST-DD-90076	IDENTIFICATION PANELS ASSEMBLY AND DETAILS

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	02/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	28/05/24	ASR	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DL-20118**

REV.:	DATE:	SIGNATURE:
1_F	26/11/24	G.Randi

ROSETTI MARINO SpA

CROSSWIND

ROSETTI MARINO

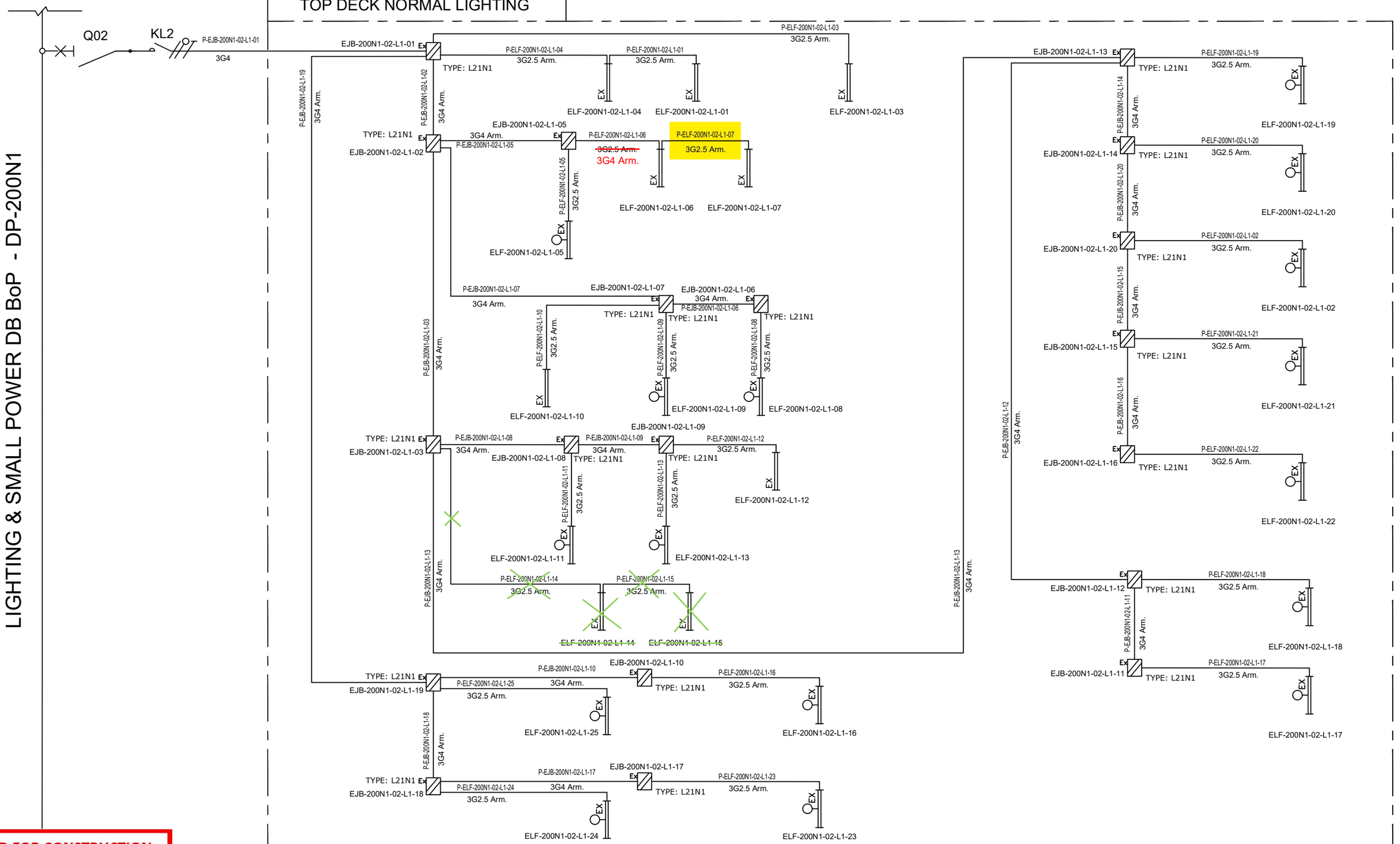
TITLE : BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET LAYOUT – TOP DECK

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK			SCALE 1:150
DRAWN ASR	CHECKED FMA/AMA	APPROVED FPA/DLO	DATE 01/08/24
A1	DRAWING NO. 123A90-DDL-EL-DL-20118	SHEET 2of2	REV. 01

File Name : 123A90-DDL-EL-DL-20118

LIGHTING & SMALL POWER DB BoP - DP-200N1

TOP DECK NORMAL LIGHTING



VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DG-20152**

REV.:	DATE:	SIGNATURE:
2_F	14/01/25	G.Randi

ROSETTI MARINO SpA

CROSSWIND

ROSETTI MARINO

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	08/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	01/07/24	ASR	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

TITLE : BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET CIRCUIT DIAGRAM
TOP DECK–NORMAL LIGHTING

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE : NTS

A3

DRAWING NO. 123A90–DDL–EL–DG–20125

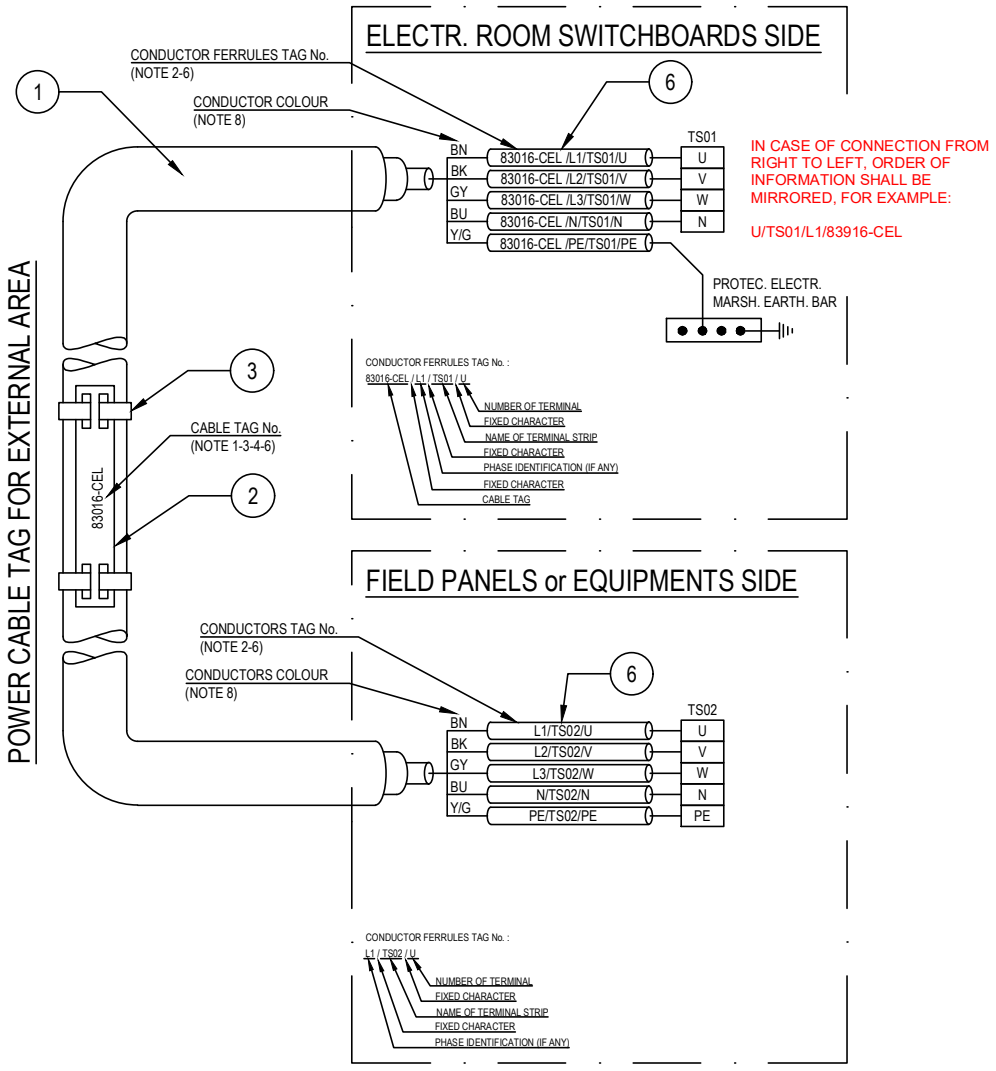
SHEET 010

REV. 01

F.to UNI A3: 420mmx297mm

File Name : 123A90–DDL–EL–DG–20125

C02



POS.	DESCRIPTION	MATERIAL	SIZE	Q.TY	NOTE
1	UNARMOURED CABLE				
2	CABLE TAG FOR EXTERNAL AREA	HDG/SS			NOTE 1 NOTE 4
3	TIE FOR CABLE TAG IN EXTERNAL AREA	HDG/SS			
4	CABLE TAG FOR INTERNAL AREA	PVC			NOTE 1 NOTE 5
5	TIE FOR CABLE TAG IN INTERNAL AREA	NYLON 6.6			
6	CORE FERRULES	PVC			

NOTES:

1) ALL CABLES SHALL BE IDENTIFIED AT EACH TERMINATION AND EACH SIDE OF ANY OBSTACLE (E.G. CABLE TRANSIT ON WALLS INSIDE SHELTER AND FLOOR DECK CROSSING, BY THEIR RESPECTIVE TAGS/NUMBERS, AS INDICATED ON THE CABLE SCHEDULE.
CABLE IDENTIFICATION SHALL BE ALSO DONE BELOW AND IN THE SWITCHBOARD CABLE COMPARTMENT.

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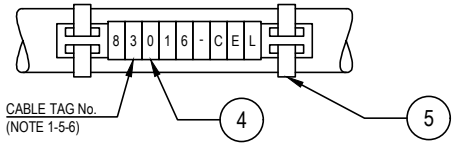
5) THE CABLE TAG FOR INTERNAL AREA SHALL BE DONE BY ENGRAVED PLASTIC SLIP ON CHARACTERS ONTO PLASTIC TIE, BLACK LETTER (H=5mm) ON WHITE.

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- EARTH BAR AND EARTH BOSS

8) ONLY IF NECESSARY, SHRINK TUBES OF THE APPROPRIATE COLOR WILL BE INSTALLED TO COVER THE WRONG CONDUCTOR COLOR, THIS WILL BE PERFORMED IN EACH SIDE OF THE CABLES WHERE NECESSARY.

POWER CABLE TAG FOR INTERNAL AREA



VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DD-20092**

REV.:	DATE:	SIGNATURE:
2_D	20/12/24	V.Ramponi

ROSETTI MARINO SpA

CROSSWIND

ROSETTI MARINO

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	28/08/24	GRA	AMA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	04/07/24	NLK	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	21/11/23	SPS	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL TYPICAL INSTALLATION DETAILS-POWER SYSTEM & CABLE INSTALLATION
CABLES INSTALLATION SYSTEM IDENTIFICATION FOR POWER CABLES

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK | SCALE : NTS

A3 | DRAWING NO. 123A90-DDL-EL-DD-20092 | SHEET 007 | REV. 02

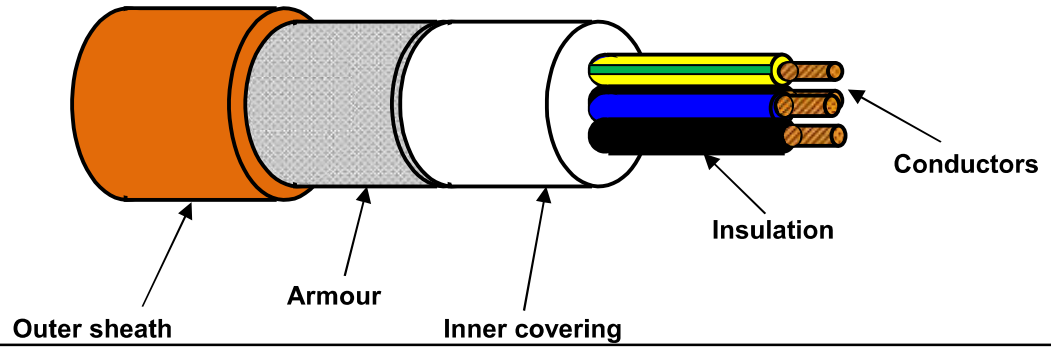
F.to UNI A3: 420mmx297mm

File Name : 123A90-DDL-EL-DD-20092 REV.02.DWG

Tag Number	Category	Discipline	Eng Status	NativeDoc	Layout	Parent Tag	Main Function	Secondary Function	Area	From Tag	From Main Function	From Area	To Tag	To Main Function	To Area	Material ID	Material Desc.	Gland Standard	From Gland	From Entry	From Fitting	To Gland	To Entry	To Fitting	Routing	Routing Manual
P-ELF-200N1-02-L1-07	Cable	LSP	VFC	123A90-DDL-EL-LIS-20148						ELF-200N1-02-L1-06	Normal Lighting Fixture	Upper Deck	ELF-200N1-02-L1-07	Normal Lighting Fixture	Upper Deck	ELECV19-3G2,5	Cable Cu Cl.2/MGT/EPR/LSZH/GSWB/LSZH 0,6/1kV 3G2,5mm² - Orange	M20	T2_M20_Double			T2_M20_Double				L-150-102-LVT-011 / L-50-102-LVT-056

Cu Cl.2/MGT/EPR/LSZH/GSWB/LSZH 0,6/1 KV

3G2,5 - L.V. POWER CABLE - Fire Resistant & Flame Retardant - ARMOURED



TECHNICAL FEATURES

Conductors :	**STRANDED** plain/bare annealed copper wires	IEC 60228 Class 2
Insulation :	Mica/Glass Tape (MGT) plus EPR compound, quality to IEC 60092.360, Nominal Thickness 1,0 mm	
Cores colour code :	**Brown - Blue - Yellow/Green**	
Pair Assembling :	Not required	
Pair Wrapping:	Not required	
Drain wire :	Not required	
Pair Shield :	Not required	
Shield Insulation :	Not Required	
Total Assembling :	Cores layed up with optimal lay length	
Overall Wrapping:	Not required	
Drain wire :	Not required	
Overall Shield:	Not required	
Inner covering :	Extruded LSZH compound, Average Thickness 1,0 mm	
Inner covering color code:	**Black or Natural**	
Armour :	**Galvanized Steel Wire Braid Armour (coverage ≥ 90%)**	
Outer sheath :	Extruded LSZH Thermoplastic Compound (O.I. ≥ 30%), type **SHF1** to IEC 60093.360, Average Thickness 1,3 mm	
Outer sheath color code:	**Orange**	
Outer printing (INKJET) :	**FLEI - ELECTRIC CABLE - 1000V - 3G2,5 SQMM - MGT/EPR/LSZH/GSWB/LSZH - 0,6/1 KV - IEC 60331.21 - IEC 60332.1.2 - IEC 60332.3.22 - Year of Manufacture - CE + Meter Marking**	
Under Armour diameter :	(11,7 ± 10%) mm	
Over Armour diameter :	(12,9 ± 10%) mm	
Outer diameter :	(15,5 ± 10%) mm	
Bending radius :	cable outer diameter x 10	(in fixed installation)
Voltage test :	3,5 kV a.c. for 5' (Between Cores - Armour)	
Conductors DC Resistance :		IEC 60228 Class 2
Insulation Resistance :	≥ 940 MΩ x Km (@ 20°C)	
Applicable Standards		
Design Guidelines :	**IEC 60092.353**	
ON COMPLETE CABLE		
Fire Resistant test :	**IEC 60331.21**	
Flame Retardant test :	IEC 60332.1.2 - IEC 60332.3.22	
Acid Gas generation :	IEC 60754.1/2	
Smoke density/Light Transmittance	IEC 61034.2 (LT ≥ 60%)	
Temperature Range :		
ON INSULATION	(max +90°C)	(max continuous operation temperature of conductors)
	(max +250°C)	(max conductors temperature during short-circuit for 5 seconds)
ON COMPLETE CABLE		
During Operation :	(-20°C up to +90°C)	(in fixed installation)
During installation :	(- 5°C up to +50°C)	
Note :	**To meet the requirements of installation and use in Zone 1 & Zone 2 (IEC 60079-14) and "Gas & Vapour Tight" the cable must be provided with Penetrating Inner covering together with correct ATEX approved equipment or accessories.**	

Office	Date	Sign	Rev.	Date	Sign
Drawn by :	29/03/2024	Messa			
Checked :	29/03/2024	Spaccasassi			
Approved :	29/03/2024	Cucinotta			

The data provided, lending assent for the treatment, will be used to the sense of the article 13 of of the Regulation (UE) 2016/679, also through outsiders, in order to allow the realization of the fulfilments informatives, administrative, commercial and accounting related to the contractual relationship. Integral copy of the informative could be requested at our offices.

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ITEM	Tag	P-ELF-200N1-02-L1-10	: Normal Lighting Fixture / Normal Lighting Fixture			Dwg	123A90-DDL-EL-LIS-20148
	S/Sys	83-40	: Normal Lighting Upper Deck			Module	UD
TASK	code	C10000669		Location	Onshore Activities	User	Rosetti Marino Quality Control
FORM	Process	MC	Activity CCK	Discipline	Electrical	Form	CPX09 LV Power Cable

CABLE DATA

Type	Cu Cl.2/MGT/EPR/LSZH/GSWB/LSZH	Cores/Size mm²	3G2,5 mm2	Color	ORANGE

From EJB-200N1-02-L1-07 To ELF-200N1-02-L1-10

1	Confirm cable is as specified in project cable schedule	OK
2	Visual Check cable physical integrity.	OK
3	Check is installed in accordance with layout drawing (segregation, distance…).	PL
4	Check cable is supported and fixed to rack according to project specification.	Note
5	Check bending radius is within the specified limits.	OK
6	Confirm cable glands suit for cable type, correctly mounted and tightened.	OK
7	Check gland plate for single core cables is non ferrous (non -magnetic).	NA
8	Confirm cable labelling is in accordance with specifications.	PL
9	Check cable is correctly loomed and segregated in accordance with specification.	OK
10	Check cable earthing against lastest drawings.	OK
11	Check cores marking are in accordance with termination diagram	OK
12	Check terminations are in accordance with latest termination diagram	OK
13	If required produce Red Line Mark Up for "AS BUILT"	

ITEM	Tag	P-ELF-200N1-02-L1-10	: Normal Lighting Fixture / Normal Lighting Fixture			Dwg	123A90-DDL-EL-LIS-20148
	S/Sys	83-40	: Normal Lighting Upper Deck			Module	UD
TASK	code	C10000669		Location	Onshore Activities	User	Rosetti Marino Quality Control
FORM	Process	MC	Activity CCK	Discipline	Electrical	Form	CPX09 LV Power Cable

	CONTINUITY			
5	CORE CONTINUITY Ω	PH 1	0,2	
6		PH 2	0,2	
7		PH 3	NA	
8	ARMOUR CONTINUITY Ω		0,2	
9	PROTECTIVE CONDUCTOR CONTINUITY Ω		0,2	
	INSULATION			
10	CORES / ARMOUR+EARTH MΩ	PH1 / PH2-PH3-A-E	>999	
11		PH2 / PH1-PH3-A-E	>999	
12		PH3 / PH1-PH2-A-E	NA	
13	CABLE IS CORRECTLY RE-CONNECTED.		Yes	

TESTING INSTRUMENTS USED

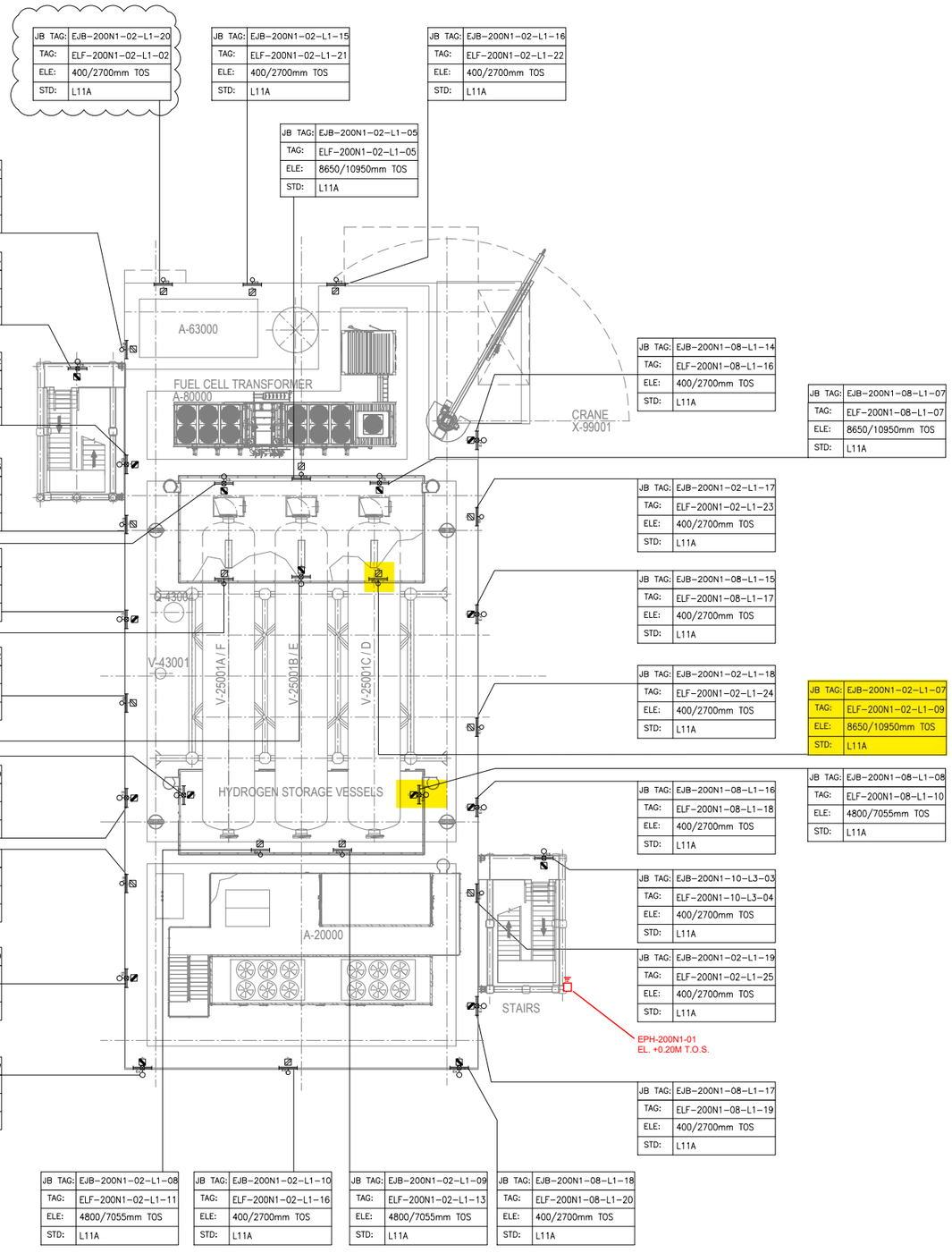
TYPE / SERIAL N° :	MULTIMETRO SIN-STRU-017 S/N:H240103023	TYPE / SERIAL N° :	MEGGER : KEW3125A SERIAL: W8330207
Calibration certificate N° and date:	12/10/2024	Calibration certificate N° and date:	N°7722/24 _ 10/07/2024

Comments: Nota 4: refer to PL C30000681

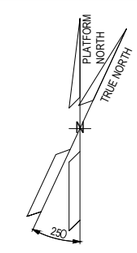
	Performed by	● WITNESS ☐ REVIEW	☐ WITNESS ☐ REVIEW
Company	ICS IMPIANTI	RM(ROSETTI MARINO)	
Name	Michele Tartaglia	Andrea Andreani	
Date	2025-01-14	2025-01-15	
Signature	PROVERLIS Digitaly signed by Michele Tartaglia 2025-01-14T08:44:52.839Z	PROVERLIS Digitaly signed by Andrea Andreani 2025-01-15T16:56:12.637Z	

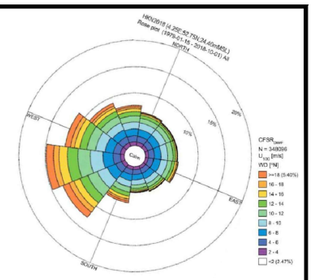
DRAWING NO. 123A90-DDL-EL-DL-20118

REV. 01



PLAN ON UPPER DECK
EL+30.310 T.O.S.





NOTES

1. ALL DIMENSIONS AND ELEVATIONS ARE GIVEN IN mm UNLESS OTHERWISE NOTED.
2. ELEVATIONS REFER TO T.O.S.
3. ELEVATION OF THE LAMPS ARE REFFERED TO THE BOTTOM OF THE LAMP.
4. FOR THE ELEVATION OF JB, REFER TO THE TYPICAL INSTALLATION.

LEGEND

- EMERGENCY LIGHTING JB
- 60W LED EMERGENCY LUMINARIES
- 60W LED EMERGENCY LUMINARIES FIXTURE POLE MOUNTED
- NORMAL LIGHTING JB
- 45W LED NORMAL LUMINARIES
- 45W LED NORMAL LUMINARIES FIXTURE POLE MOUNTED
- WELDING SOCKET WITH INTEGRATED JB
- SMALL POWER SOCKET WITH INTEGRATED JB
- TWILIGHT RELAY SENSOR

JB TAG:	JB-TAG
TAG:	TAG
ELE:	ELEVATION
STD:	STANDARD

VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DL-20118**

REV.:	DATE:	SIGNATURE:
1_B	22/10/24	G.Randi

ROSETTI MARINO SpA

REFERENCE DOCUMENTS

123A90-DDL-PP-DL-70070	PLOT PLAN - LOWER & UPPER DECK
123A90-DDL-EL-DL-20100	ELECTRICAL EQUIPMENT LAYOUT - TOP DECK
123A90-DDL-EL-DD-20091	ELECTRICAL TYPICAL INSTALLATION DETAILS - LIGHTING SYSTEM
123A90-DDL-EL-DD-20092	ELECTRICAL TYPICAL INSTALLATION DETAILS - POWER SYSTEM & CABLE INSTALLATION
123A90-DDL-EL-RE-20153	LIGHTING CALCULATION STUDY REPORT

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	02/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	28/05/24	ASR	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND | ROSETTI MARINO

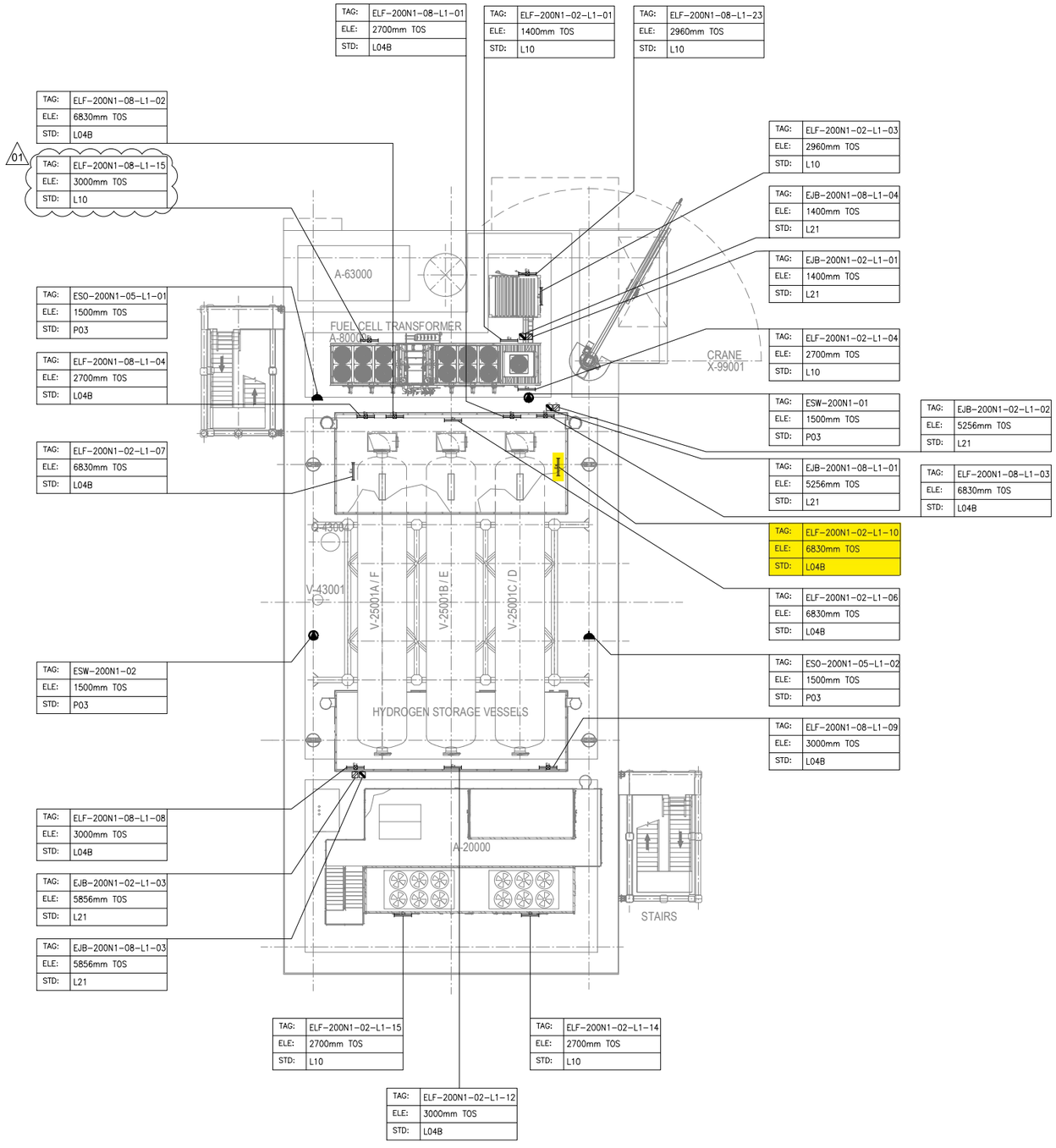
TITLE : BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET LAYOUT – TOP DECK

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK			SCALE 1:150
DRAWN ASR	CHECKED FMA/AMA	APPROVED FPA/DLO	DATE 01/08/24
A1	DRAWING NO. 123A90-DDL-EL-DL-20118	SHEET 1of2	REV. 01

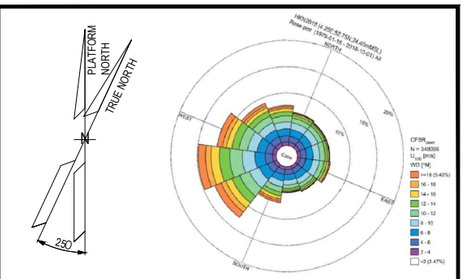
File Name : 123A90-DDL-EL-DL-20118

DRAWING NO. 123A90-DDL-EL-DL-20118

REV. 01



PLAN ON UPPER DECK
EL+30.310 T.O.S.



NOTES

1. ALL DIMENSIONS AND ELEVATIONS ARE GIVEN IN mm UNLESS OTHERWISE NOTED.
2. ELEVATIONS REFER TO T.O.S.
3. ELEVATION OF THE LAMPS ARE REFFERED TO THE BOTTOM OF THE LAMP.
4. FOR THE ELEVATION OF JB, REFER TO THE TYPICAL INSTALLATION.

LEGEND

- EMERGENCY LIGHTING JB
- 60W LED EMERGENCY LUMINARIES
- 60W LED EMERGENCY LUMINARIES FIXTURE POLE MOUNTED
- NORMAL LIGHTING JB
- 45W LED NORMAL LUMINARIES
- 45W LED NORMAL LUMINARIES FIXTURE POLE MOUNTED
- WELDING SOCKET WITH INTEGRATED JB
- SMALL POWER SOCKET WITH INTEGRATED JB

JB TAG:	JB-TAG
TAG:	TAG
ELE:	ELEVATION
STD:	STANDARD

VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DL-20118**

REV.:	DATE:	SIGNATURE:
1_B	22/10/24	G.Randi

ROSETTI MARINO SpA

REFERENCE DOCUMENTS

123A90-DDL-PP-DL-70070	PLOT PLAN - LOWER & UPPER DECK
123A90-DDL-EL-DL-20100	ELECTRICAL EQUIPMENT LAYOUT - TOP DECK
123A90-DDL-EL-DD-20091	ELECTRICAL TYPICAL INSTALLATION DETAILS - LIGHTING SYSTEM
123A90-DDL-EL-DD-20092	ELECTRICAL TYPICAL INSTALLATION DETAILS - POWER SYSTEM & CABLE INSTALLATION
123A90-DDL-EL-RE-20153	LIGHTING CALCULATION STUDY REPORT

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	02/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	28/05/24	ASR	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND

ROSETTI MARINO

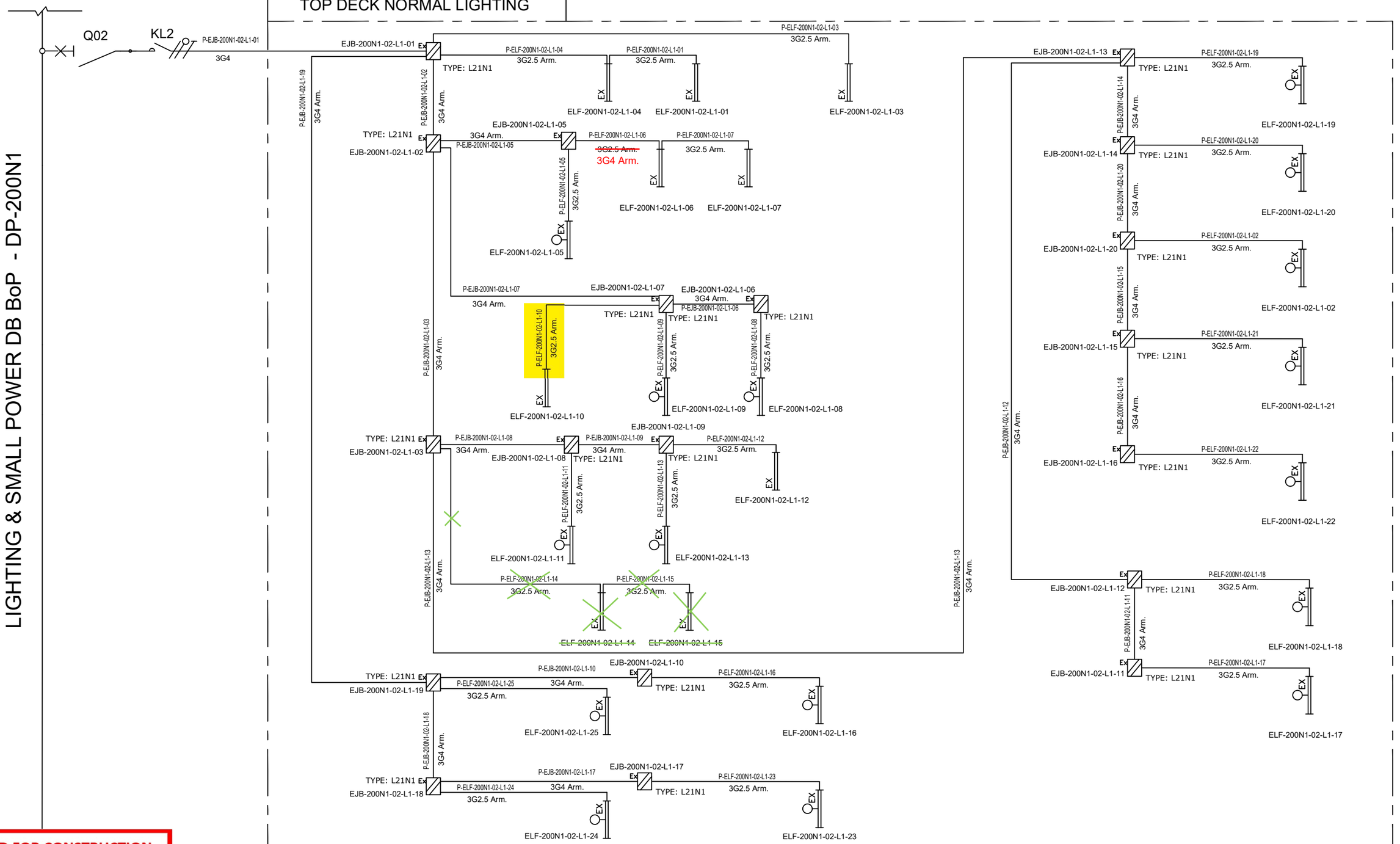
TITLE :
BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET LAYOUT – TOP DECK

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK			SCALE 1:150
DRAWN ASR	CHECKED FMA/AMA	APPROVED FPA/DLO	DATE 01/08/24
A1	DRAWING NO. 123A90-DDL-EL-DL-20118	SHEET 2of2	REV. 01

File Name : 123A90-DDL-EL-DL-20118

LIGHTING & SMALL POWER DB BoP - DP-200N1

TOP DECK NORMAL LIGHTING



VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DG-20152**

REV.:	DATE:	SIGNATURE:
2_F	14/01/25	G.Randi

ROSETTI MARINO SpA

CROSSWIND

ROSETTI MARINO

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	08/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	01/07/24	ASR	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

TITLE : BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET CIRCUIT DIAGRAM
TOP DECK–NORMAL LIGHTING

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE : NTS

A3

DRAWING NO. 123A90–DDL–EL–DG–20125

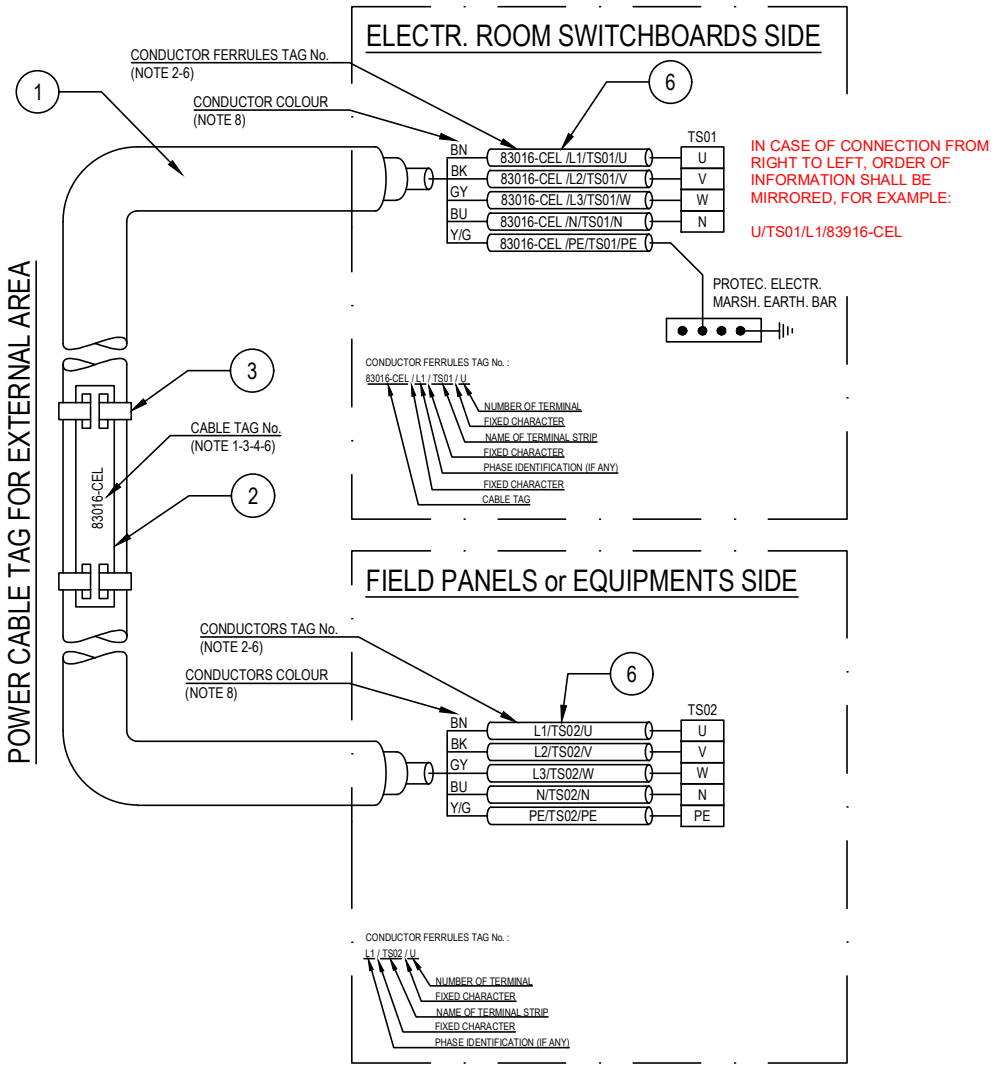
SHEET 010

REV. 01

F.to UNI A3: 420mmx297mm

File Name : 123A90–DDL–EL–DG–20125

C02



POS.	DESCRIPTION	MATERIAL	SIZE	Q.TY	NOTE
1	UNARMOURED CABLE				
2	CABLE TAG FOR EXTERNAL AREA	HDG/SS			NOTE 1 NOTE 4
3	TIE FOR CABLE TAG IN EXTERNAL AREA	HDG/SS			
4	CABLE TAG FOR INTERNAL AREA	PVC			NOTE 1 NOTE 5
5	TIE FOR CABLE TAG IN INTERNAL AREA	NYLON 6.6			
6	CORE FERRULES	PVC			

NOTES:

1) ALL CABLES SHALL BE IDENTIFIED AT EACH TERMINATION AND EACH SIDE OF ANY OBSTACLE (E.G. CABLE TRANSIT ON WALLS INSIDE SHELTER AND FLOOR DECK CROSSING, BY THEIR RESPECTIVE TAGS/NUMBERS, AS INDICATED ON THE CABLE SCHEDULE.
CABLE IDENTIFICATION SHALL BE ALSO DONE BELOW AND IN THE SWITCHBOARD CABLE COMPARTMENT.

2) CABLE CORE FERRULES SHALL BE FITTED AT EVERY TERMINATION. THESE FERRULES SHALL BE OF ENGRAVED PLASTIC SLIP ON, INTERLOCKED AND SELF GRIP TYPE.

3) ON CABLE TRAYS OR LADDERS, CABLES SHALL BE IDENTIFIED AT EACH END, AND EVERY 25 METERS.

4) THE CABLE TAG FOR EXTERNAL AREA SHALL DONE BY 316L STAINLESS STEEL LABELS, TAG (H=5mm) SHALL BE LASER PRINTED PREFERABLY OR EMBOSSED, LABEL HELD BY TWO 316L STAINLESS STEEL TIES.

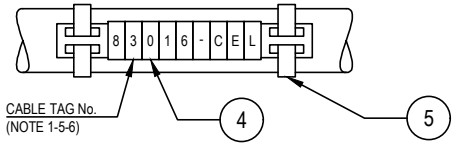
5) THE CABLE TAG FOR INTERNAL AREA SHALL BE DONE BY ENGRAVED PLASTIC SLIP ON CHARACTERS ONTO PLASTIC TIE, BLACK LETTER (H=5mm) ON WHITE.

6) CABLE AND CONDUCTOR TAG ARE INDICATIVE ONLY.

7) WITHIN TECHNICAL BUILDING, PROTECTIVE CONDUCTOR SHALL BE TAGGED BETWEEN FOLLOWING ITEMS:
- PANEL (SWITCHBOARD, SWITCHGEAR, DISTRIBUTION BOARD, ETC) AND EARTH BAR
- EARTH BAR AND EARTH BOSS

8) ONLY IF NECESSARY, SHRINK TUBES OF THE APPROPRIATE COLOR WILL BE INSTALLED TO COVER THE WRONG CONDUCTOR COLOR, THIS WILL BE PERFORMED IN EACH SIDE OF THE CABLES WHERE NECESSARY.

POWER CABLE TAG FOR INTERNAL AREA



VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DD-20092**

REV.:	DATE:	SIGNATURE:
2_D	20/12/24	V.Ramponi

ROSETTI MARINO SpA

CROSSWIND

ROSETTI MARINO

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	28/08/24	GRA	AMA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	04/07/24	NLK	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	21/11/23	SPS	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL TYPICAL INSTALLATION DETAILS-POWER SYSTEM & CABLE INSTALLATION
CABLES INSTALLATION SYSTEM IDENTIFICATION FOR POWER CABLES

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK | SCALE : NTS

A3 | DRAWING NO. 123A90-DDL-EL-DD-20092 | SHEET 007 | REV. 02

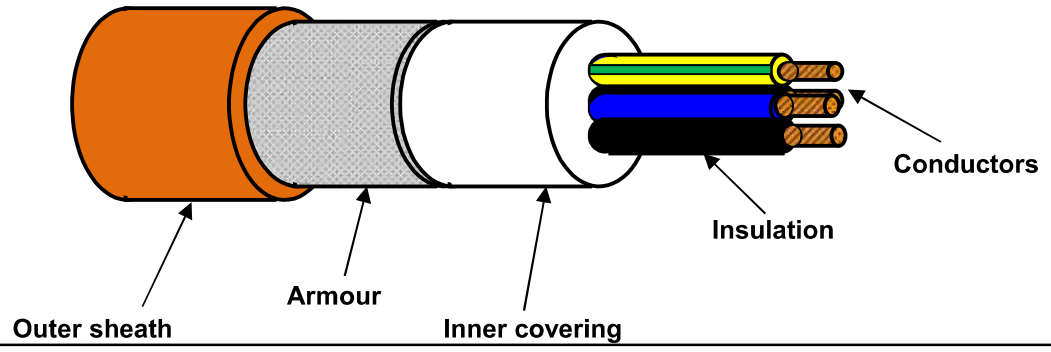
F.to UNI A3: 420mmx297mm

File Name : 123A90-DDL-EL-DD-20092 REV.02.DWG

Tag Number	Category	Discipline	Eng Status	NativeDoc	Layout	Parent Tag	Main Function	Secondary Function	Area	From Tag	From Main Function	From Area	To Tag	To Main Function	To Area	Material ID	Material Desc.	Gland Standard	From Gland	From Entry	From Fitting	To Gland	To Entry	To Fitting	Routing	Routing Manual
P-ELF-200N1-02-L1-10	Cable	LSP	VFC	123A90-DDL-EL-LIS-20148						EJB-200N1-02-L1-07	Normal Lighting JB	Upper Deck	ELF-200N1-02-L1-10	Normal Lighting Fixture	Upper Deck	ELECV19-3G2,5	Cable Cu Cl.2/MGT/EPR/LSZH/GSWB/LSZH 0,6/1kV 3G2,5mm² - Orange	M20	T2_M20_Double			T2_M20_Double				L-1S0-102-LVT-012

Cu Cl.2/MGT/EPR/LSZH/GSWB/LSZH 0,6/1 KV

3G2,5 - L.V. POWER CABLE - Fire Resistant & Flame Retardant - ARMOURED



TECHNICAL FEATURES

Conductors :	**STRANDED** plain/bare annealed copper wires	IEC 60228 Class 2
Insulation :	Mica/Glass Tape (MGT) plus EPR compound, quality to IEC 60092.360, Nominal Thickness 1,0 mm	
Cores colour code :	**Brown - Blue - Yellow/Green**	
Pair Assembling :	Not required	
Pair Wrapping:	Not required	
Drain wire :	Not required	
Pair Shield :	Not required	
Shield Insulation :	Not Required	
Total Assembling :	Cores layed up with optimal lay length	
Overall Wrapping:	Not required	
Drain wire :	Not required	
Overall Shield:	Not required	
Inner covering :	Extruded LSZH compound, Average Thickness 1,0 mm	
Inner covering color code:	**Black or Natural**	
Armour :	**Galvanized Steel Wire Braid Armour (coverage ≥ 90%)**	
Outer sheath :	Extruded LSZH Thermoplastic Compound (O.I. ≥ 30%), type **SHF1** to IEC 60093.360, Average Thickness 1,3 mm	
Outer sheath color code:	**Orange**	
Outer printing (INKJET) :	**FLEI - ELECTRIC CABLE - 1000V - 3G2,5 SQMM - MGT/EPR/LSZH/GSWB/LSZH - 0,6/1 KV - IEC 60331.21 - IEC 60332.1.2 - IEC 60332.3.22 - Year of Manufacture - CE + Meter Marking**	
Under Armour diameter :	(11,7 ± 10%) mm	
Over Armour diameter :	(12,9 ± 10%) mm	
Outer diameter :	(15,5 ± 10%) mm	
Bending radius :	cable outer diameter x 10	(in fixed installation)
Voltage test :	3,5 kV a.c. for 5' (Between Cores - Armour)	
Conductors DC Resistance :		IEC 60228 Class 2
Insulation Resistance :	≥ 940 MΩ x Km (@ 20°C)	
Applicable Standards		
Design Guidelines :	**IEC 60092.353**	
ON COMPLETE CABLE		
Fire Resistant test :	**IEC 60331.21**	
Flame Retardant test :	IEC 60332.1.2 - IEC 60332.3.22	
Acid Gas generation :	IEC 60754.1/2	
Smoke density/Light Transmittance	IEC 61034.2 (LT ≥ 60%)	
Temperature Range :		
ON INSULATION	(max +90°C)	(max continuous operation temperature of conductors)
	(max +250°C)	(max conductors temperature during short-circuit for 5 seconds)
ON COMPLETE CABLE		
During Operation :	(-20°C up to +90°C)	(in fixed installation)
During installation :	(- 5°C up to +50°C)	
Note :	**To meet the requirements of installation and use in Zone 1 & Zone 2 (IEC 60079-14) and "Gas & Vapour Tight" the cable must be provided with Penetrating Inner covering together with correct ATEX approved equipment or accessories.**	

Office	Date	Sign	Rev.	Date	Sign
Drawn by :	29/03/2024	Messa			
Checked :	29/03/2024	Spaccasassi			
Approved :	29/03/2024	Cucinotta			

The data provided, lending assent for the treatment, will be used to the sense of the article 13 of of the Regulation (UE) 2016/679, also through outsiders, in order to allow the realization of the fulfilments informatives, administrative, commercial and accounting related to the contractual relationship. Integral copy of the informative could be requested at our offices.

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ITEM	Tag	P-EJB-200N1-02-L1-05	: Normal Lighting JB / Normal Lighting JB			Dwg	123A90-DDL-EL-LIS-20148
	S/Sys	83-40	: Normal Lighting Upper Deck			Module	UD
TASK	code	C10000670		Location	Onshore Activities	User	Rosetti Marino Quality Control
FORM	Process	MC	Activity CCK	Discipline	Electrical	Form	CPX09 LV Power Cable

CABLE DATA

Type Cu Cl.2/MGT/EPR/LSZH/GSWB/LSZH Cores/Size mm² 3G4 mm2 Color ORANGE

From EJB-200N1-02-L1-02 To EJB-200N1-02-L1-05

1	Confirm cable is as specified in project cable schedule	OK
2	Visual Check cable physical integrity.	OK
3	Check is installed in accordance with layout drawing (segregation, distance…).	OK
4	Check cable is supported and fixed to rack according to project specification.	Note
5	Check bending radius is within the specified limits.	OK
6	Confirm cable glands suit for cable type, correctly mounted and tightened.	PL
7	Check gland plate for single core cables is non ferrous (non -magnetic).	NA
8	Confirm cable labelling is in accordance with specifications.	PL
9	Check cable is correctly loomed and segregated in accordance with specification.	OK
10	Check cable earthing against lastest drawings.	OK
11	Check cores marking are in accordance with termination diagram	PL
12	Check terminations are in accordance with latest termination diagram	OK
13	If required produce Red Line Mark Up for "AS BUILT"	

ROSETTI MARINO | PROVERLIS | CROSSWIND

ITEM	Tag	P-EJB-200N1-02-L1-05	: Normal Lighting JB / Normal Lighting JB			Dwg	123A90-DDL-EL-LIS-20148
	S/Sys	83-40	: Normal Lighting Upper Deck			Module	UD
TASK	code	C10000670		Location	Onshore Activities	User	Rosetti Marino Quality Control
FORM	Process	MC	Activity CCK	Discipline	Electrical	Form	CPX09 LV Power Cable

	CONTINUITY			
5	CORE CONTINUITY Ω	PH 1	0,2	
6		PH 2	0,2	
7		PH 3	NA	
8	ARMOUR CONTINUITY Ω		0,2	
9	PROTECTIVE CONDUCTOR CONTINUITY Ω		NA	
	INSULATION			
10	CORES / ARMOUR+EARTH MΩ	PH1 / PH2-PH3-A-E	>999	
11		PH2 / PH1-PH3-A-E	>999	
12		PH3 / PH1-PH2-A-E	NA	
13	CABLE IS CORRECTLY RE-CONNECTED.		Yes	

TESTING INSTRUMENTS USED

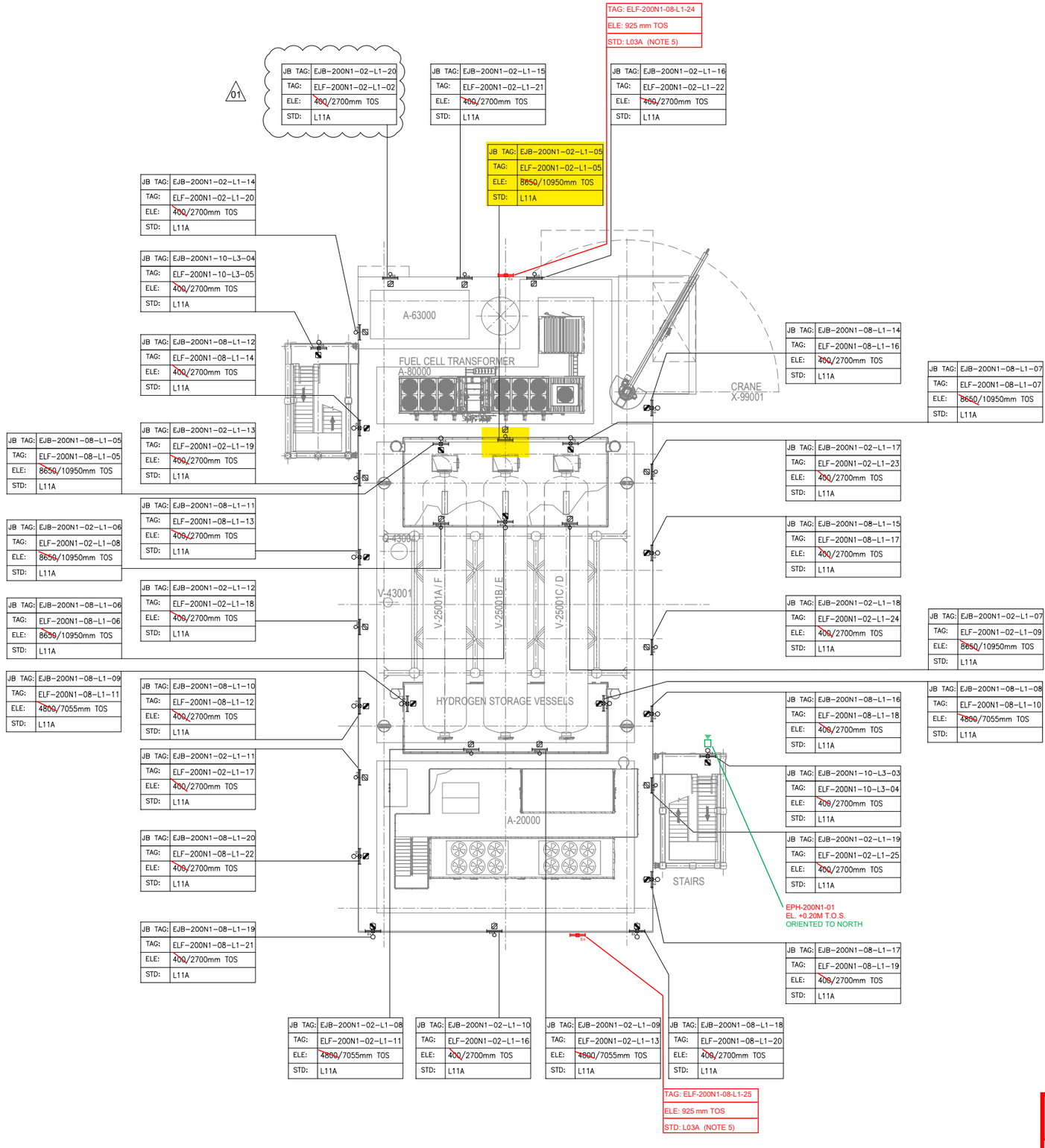
TYPE / SERIAL N° :	MEGGER : KEW3125A SERIAL: W8330207	TYPE / SERIAL N° :	MULTIMETER: FLUKE 175 SERIAL:AW1/018(17140769)
Calibration certificate N° and date:	N°7722/24 _ 10/07/2024	Calibration certificate N° and date:	N°7715/24 _ 10/07/2024

Comments: Nota 4: refer to PL C30000679

	Performed by	● WITNESS ☐ REVIEW	☐ WITNESS ☐ REVIEW
Company	ICS IMPIANTI	RM(ROSETTI MARINO)	
Name	Michele Tartaglia	Andrea Andreani	
Date	2025-01-08	2025-01-09	
Signature	PROVERLIS Digitaly signed by Michele Tartaglia 2025-01-08T09:55:53.107Z	PROVERLIS Digitaly signed by Andrea Andreani 2025-01-09T11:00:01.586Z	

DRAWING NO. 123A90-DDL-EL-DL-20118

REV. 01



PLAN ON UPPER DECK
EL+30.310 T.O.S.

NOTES

1. ALL DIMENSIONS AND ELEVATIONS ARE GIVEN IN mm UNLESS OTHERWISE NOTED.
2. ELEVATIONS REFER TO T.O.S.
3. ELEVATION OF THE LAMPS ARE REFFERED TO THE BOTTOM OF THE LAMP.
4. FOR THE ELEVATION OF JB, REFER TO THE TYPICAL INSTALLATION.
5. FOR ELF-200N1-08-L1-24 AND ELF-200N1-08-L1-25 CONSTRUCTION DETAILS REFER TO DOC. 123A90-DDL-ST-DD-90076

LEGEND

- EMERGENCY LIGHTING JB
- 60W LED EMERGENCY LUMINARIES
- 60W LED EMERGENCY LUMINARIES FIXTURE POLE MOUNTED
- NORMAL LIGHTING JB
- 45W LED NORMAL LUMINARIES
- 45W LED NORMAL LUMINARIES FIXTURE POLE MOUNTED
- WELDING SOCKET WITH INTEGRATED JB
- SMALL POWER SOCKET WITH INTEGRATED JB
- TWILIGHT RELAY SENSOR

JB TAG:	JB-TAG
TAG:	TAG
ELE:	ELEVATION
STD:	STANDARD

REFERENCE DOCUMENTS

123A90-DDL-PP-DL-70070	PLOT PLAN - LOWER & UPPER DECK
123A90-DDL-EL-DL-20100	ELECTRICAL EQUIPMENT LAYOUT - TOP DECK
123A90-DDL-EL-DD-20091	ELECTRICAL TYPICAL INSTALLATION DETAILS - LIGHTING SYSTEM
123A90-DDL-EL-DD-20092	ELECTRICAL TYPICAL INSTALLATION DETAILS - POWER SYSTEM & CABLE INSTALLATION
123A90-DDL-EL-RE-20153	LIGHTING CALCULATION STUDY REPORT
123A90-DDL-ST-DD-90076	IDENTIFICATION PANELS ASSEMBLY AND DETAILS

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	02/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	28/05/24	ASR	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DL-20118**

REV.:	DATE:	SIGNATURE:
1_F	26/11/24	G.Randi

ROSETTI MARINO SpA

CROSSWIND

ROSETTI MARINO

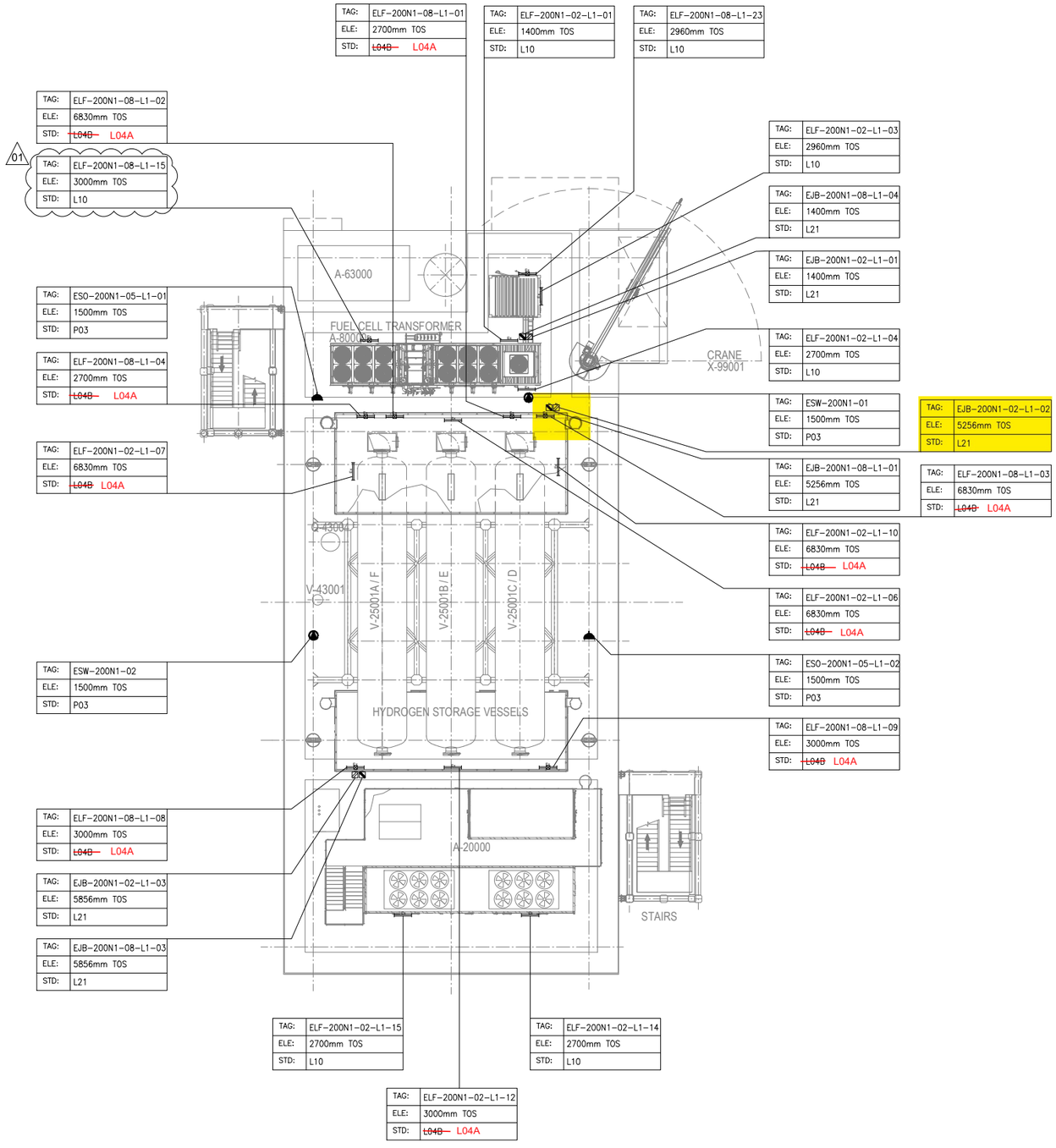
TITLE : BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET LAYOUT – TOP DECK

CONTRACT NO./TITLE	CW-1-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK	SCALE	1:150
DRAWN ASR	CHECKED FMA/AMA	APPROVED FPA/DLO	DATE 01/08/24
A1	DRAWING NO. 123A90-DDL-EL-DL-20118	SHEET 1of2	REV. 01

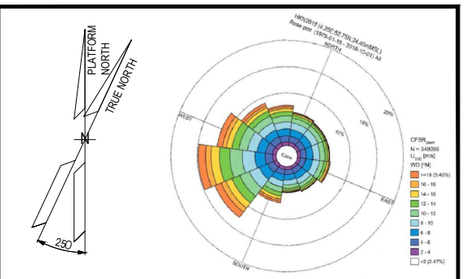
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DRAWING NO. 123A90-DDL-EL-DL-20118

REV. 01



PLAN ON UPPER DECK
EL+30.310 T.O.S.



NOTES

1. ALL DIMENSIONS AND ELEVATIONS ARE GIVEN IN mm UNLESS OTHERWISE NOTED.
2. ELEVATIONS REFER TO T.O.S.
3. ELEVATION OF THE LAMPS ARE REFFERED TO THE BOTTOM OF THE LAMP.
4. FOR THE ELEVATION OF JB, REFER TO THE TYPICAL INSTALLATION.

LEGEND

- EMERGENCY LIGHTING JB
- 60W LED EMERGENCY LUMINARIES
- 60W LED EMERGENCY LUMINARIES FIXTURE POLE MOUNTED
- NORMAL LIGHTING JB
- 45W LED NORMAL LUMINARIES
- 45W LED NORMAL LUMINARIES FIXTURE POLE MOUNTED
- WELDING SOCKET WITH INTEGRATED JB
- SMALL POWER SOCKET WITH INTEGRATED JB

JB TAG:	JB-TAG
TAG:	TAG
ELE:	ELEVATION
STD:	STANDARD

REFERENCE DOCUMENTS

123A90-DDL-PP-DL-70070	PLOT PLAN - LOWER & UPPER DECK
123A90-DDL-EL-DL-20100	ELECTRICAL EQUIPMENT LAYOUT - TOP DECK
123A90-DDL-EL-DD-20091	ELECTRICAL TYPICAL INSTALLATION DETAILS - LIGHTING SYSTEM
123A90-DDL-EL-DD-20092	ELECTRICAL TYPICAL INSTALLATION DETAILS - POWER SYSTEM & CABLE INSTALLATION
123A90-DDL-EL-RE-20153	LIGHTING CALCULATION STUDY REPORT
123A90-DDL-ST-DD-90076	IDENTIFICATION PANELS ASSEMBLY AND DETAILS

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	02/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	28/05/24	ASR	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DL-20118**

REV.:	DATE:	SIGNATURE:
1_F	26/11/24	G.Randi

ROSETTI MARINO SpA

CROSSWIND

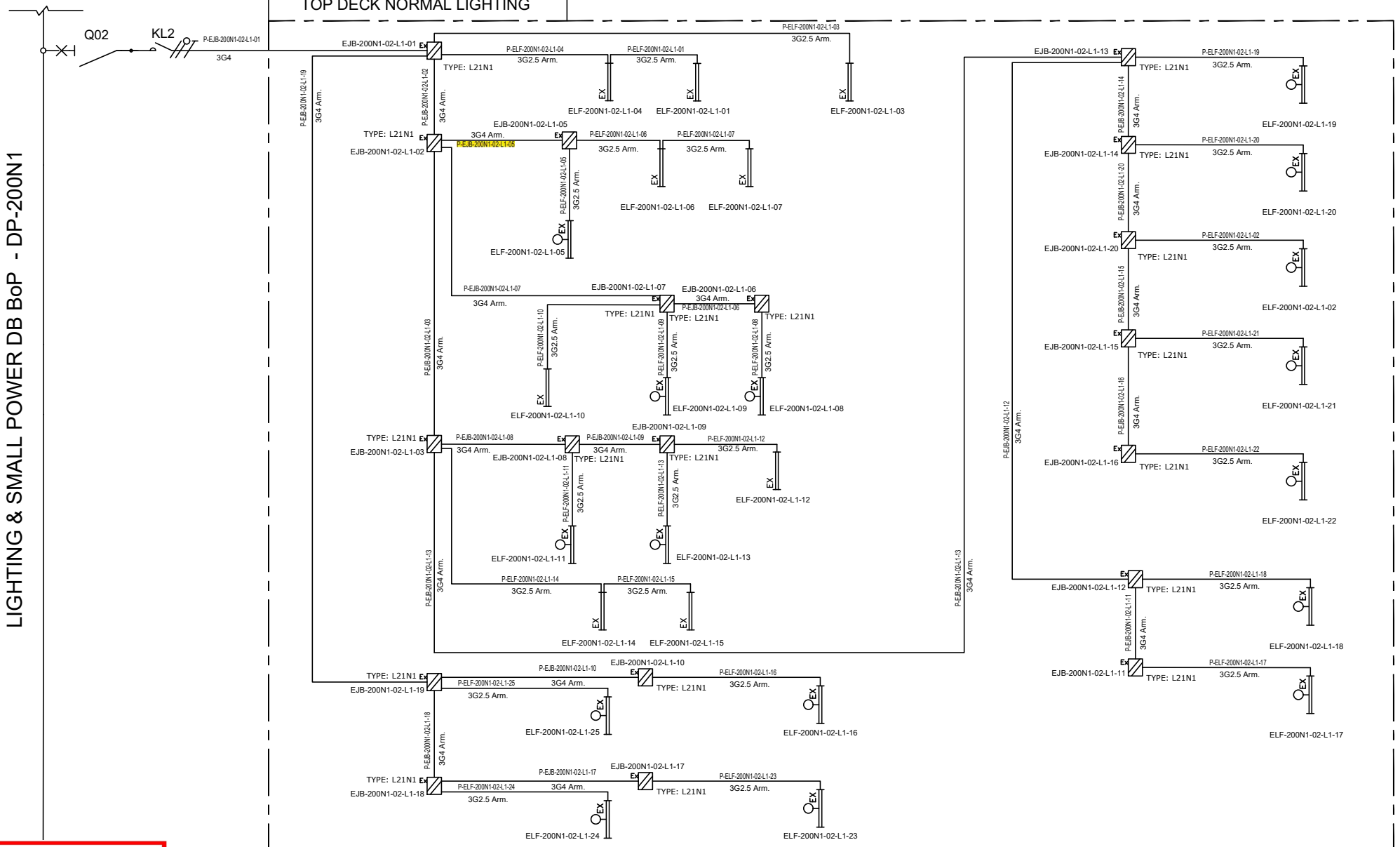
ROSETTI MARINO

TITLE :
BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET LAYOUT – TOP DECK

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK		SCALE 1:150	
DRAWN ASR	CHECKED FMA/AMA	APPROVED FPA/DLO	DATE 01/08/24
A1	DRAWING NO. 123A90-DDL-EL-DL-20118	SHEET 2of2	REV. 01

File Name : 123A90-DDL-EL-DL-20118

LIGHTING & SMALL POWER DB BoP - DP-200N1



VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DG-20125**

REV.:	DATE:	SIGNATURE:
2_C	20/12/24	V.Ramponi

ROSETTI MARINO SpA

CROSSWIND

ROSETTI MARINO

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	08/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	01/07/24	ASR	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

TITLE : BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET CIRCUIT DIAGRAM
TOP DECK–NORMAL LIGHTING

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE : NTS

A3

DRAWING NO. 123A90–DDL–EL–DG–20125

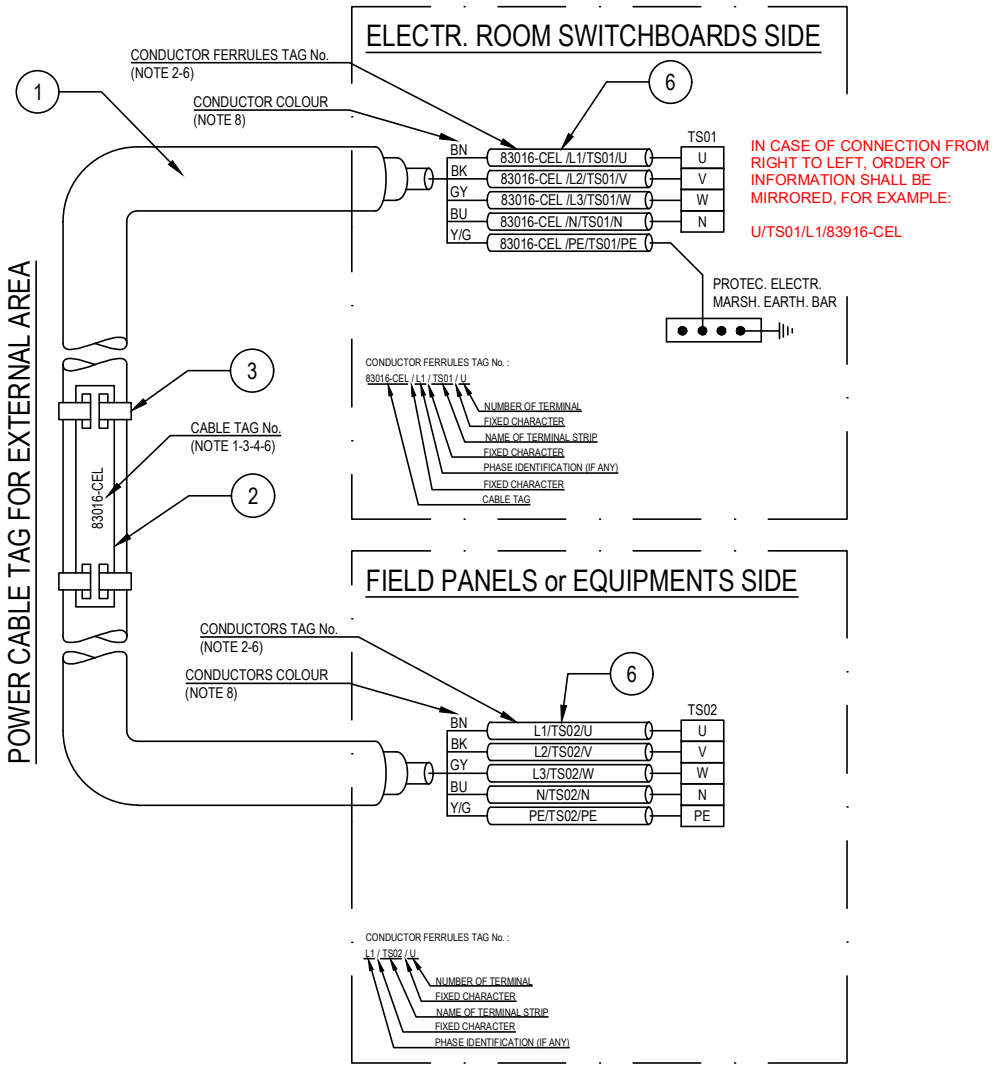
SHEET 010

REV. 01

F.to UNI A3: 420mmx297mm

File Name : 123A90–DDL–EL–DG–20125

C02



POS.	DESCRIPTION	MATERIAL	SIZE	Q.TY	NOTE
1	UNARMOURED CABLE				
2	CABLE TAG FOR EXTERNAL AREA	HDG/SS			NOTE 1 NOTE 4
3	TIE FOR CABLE TAG IN EXTERNAL AREA	HDG/SS			
4	CABLE TAG FOR INTERNAL AREA	PVC			NOTE 1 NOTE 5
5	TIE FOR CABLE TAG IN INTERNAL AREA	NYLON 6.6			
6	CORE FERRULES	PVC			

NOTES:

1) ALL CABLES SHALL BE IDENTIFIED AT EACH TERMINATION AND EACH SIDE OF ANY OBSTACLE (E.G. CABLE TRANSIT ON WALLS INSIDE SHELTER AND FLOOR DECK CROSSING, BY THEIR RESPECTIVE TAGS/NUMBERS, AS INDICATED ON THE CABLE SCHEDULE.
CABLE IDENTIFICATION SHALL BE ALSO DONE BELOW AND IN THE SWITCHBOARD CABLE COMPARTMENT.

2) CABLE CORE FERRULES SHALL BE FITTED AT EVERY TERMINATION. THESE FERRULES SHALL BE OF ENGRAVED PLASTIC SLIP ON, INTERLOCKED AND SELF GRIP TYPE.

3) ON CABLE TRAYS OR LADDERS, CABLES SHALL BE IDENTIFIED AT EACH END, AND EVERY 25 METERS.

4) THE CABLE TAG FOR EXTERNAL AREA SHALL DONE BY 316L STAINLESS STEEL LABELS, TAG (H=5mm) SHALL BE LASER PRINTED PREFERABLY OR EMBOSSED, LABEL HELD BY TWO 316L STAINLESS STEEL TIES.

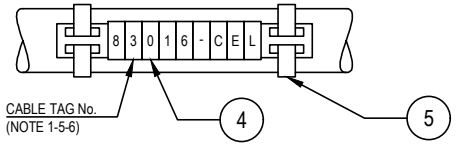
5) THE CABLE TAG FOR INTERNAL AREA SHALL BE DONE BY ENGRAVED PLASTIC SLIP ON CHARACTERS ONTO PLASTIC TIE, BLACK LETTER (H=5mm) ON WHITE.

6) CABLE AND CONDUCTOR TAG ARE INDICATIVE ONLY.

7) WITHIN TECHNICAL BUILDING, PROTECTIVE CONDUCTOR SHALL BE TAGGED BETWEEN FOLLOWING ITEMS:
- PANEL (SWITCHBOARD, SWITCHGEAR, DISTRIBUTION BOARD, ETC) AND EARTH BAR
- EARTH BAR AND EARTH BOSS

8) ONLY IF NECESSARY, SHRINK TUBES OF THE APPROPRIATE COLOR WILL BE INSTALLED TO COVER THE WRONG CONDUCTOR COLOR, THIS WILL BE PERFORMED IN EACH SIDE OF THE CABLES WHERE NECESSARY.

POWER CABLE TAG FOR INTERNAL AREA



VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DD-20092**

REV.:	DATE:	SIGNATURE:
2_D	20/12/24	V.Ramponi

ROSETTI MARINO SpA

CROSSWIND

ROSETTI MARINO

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	28/08/24	GRA	AMA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	04/07/24	NLK	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	21/11/23	SPS	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL TYPICAL INSTALLATION DETAILS-POWER SYSTEM & CABLE INSTALLATION
CABLES INSTALLATION SYSTEM IDENTIFICATION FOR POWER CABLES

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK | SCALE : NTS

A3 | DRAWING NO. 123A90-DDL-EL-DD-20092 | SHEET 007 | REV. 02

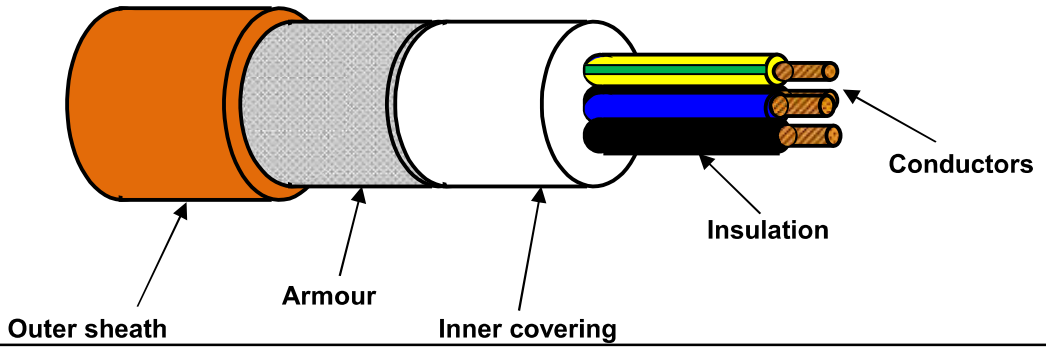
F.to UNI A3: 420mmx297mm

File Name : 123A90-DDL-EL-DD-20092 REV.02.DWG

Tag Number	Category	Disciplir	Eng Statu	NativeDoc	Layout	Parent Tag	Main Function	Secondary Fun	Area	From Tag	From Main Function	From Area	To Tag	To Main Function	To Area	Material ID	Material Desc.	Gland Standard	From Glan	From Entry	From Fitt	To Gland	To Entry	To Fitting	Routing	Routing Manual
P-EJB-200N1-02-L1-05	Cable	LSP	VFC	123A90-DDL-EL-LIS-20148						EJB-200N1-02-L1-02	Normal Lighting JB	Upper Deck	EJB-200N1-02-L1-05	Normal Lighting JB	Upper Deck	ELECV38-3G4	Cable Cu Cl.2/MGT/EPR/LSZH/GSWB/LSZH 0,6/1kV 3G4mm² - Orange	M20	T2_M20_Double			T2_M20_Double				L-150-102-LVT-014 / L-150-102-LVT-010 / L-300-102-LVT-009 / L-150-102-LVT-011 / L-50-102-LVT-054

Cu Cl.2/MGT/EPR/LSZH/GSWB/LSZH 0,6/1 KV

3G4 - L.V. POWER CABLE - Fire Resistant & Flame Retardant - ARMOURED



TECHNICAL FEATURES

Conductors :	**STRANDED** plain/bare annealed copper wires	IEC 60228 Class 2
Insulation :	Mica/Glass Tape (MGT) plus EPR compound, quality to IEC 60092.360, Nominal Thickness 1,0 mm	
Cores colour code :	**Brown - Blue - Yellow/Green**	
Pair Assembling :	Not required	
Pair Wrapping:	Not required	
Drain wire :	Not required	
Pair Shield :	Not required	
Shield Insulation :	Not Required	
Total Assembling :	Cores layed up with optimal lay length	
Overall Wrapping:	Not required	
Drain wire :	Not required	
Overall Shield:	Not required	
Inner covering :	Extruded LSZH compound, Average Thickness 1,0 mm	
Inner covering color code:	**Black or Natural**	
Armour :	**Galvanized Steel Wire Braid Armour (coverage ≥ 90%)**	
Outer sheath :	Extruded LSZH Thermoplastic Compound (O.I. ≥ 30%), type **SHF1** to IEC 60093.360, Average Thickness 1,4 mm	
Outer sheath color code:	**Orange**	
Outer printing (INKJET) :	**FLEI - ELECTRIC CABLE - 1000V - 3G4 SQMM - MGT/EPR/LSZH/GSWB/LSZH - 0,6/1 KV - IEC 60331.21 -**	
	IEC 60332.1.2 - IEC 60332.3.22 - Year of Manufacture - CE + Meter Marking	
Under Armour diameter :	(13,0 ± 10%) mm	
Over Armour diameter :	(14,2 ± 10%) mm	
Outer diameter :	(17,0 ± 10%) mm	
Bending radius :	cable outer diameter x 10	(in fixed installation)
Voltage test :	3,5 kV a.c. for 5' (Between Cores - Armour)	
Conductors DC Resistance :		IEC 60228 Class 2
Insulation Resistance :	≥ 790 MΩ x Km (@ 20°C)	
Applicable Standards		
Design Guidelines :	**IEC 60092.353**	
ON COMPLETE CABLE		
Fire Resistant test :	**IEC 60331.21**	
Flame Retardant test :	IEC 60332.1.2 - IEC 60332.3.22	
Acid Gas generation :	IEC 60754.1/2	
Smoke density/Light Transmittance	IEC 61034.2 (LT ≥ 60%)	
Temperature Range :		
ON INSULATION	(max +90°C)	(max continuous operation temperature of conductors)
	(max +250°C)	(max conductors temperature during short-circuit for 5 seconds)
ON COMPLETE CABLE		
During Operation :	(-20°C up to +90°C)	(in fixed installation)
During installation :	(- 5°C up to +50°C)	
Note :	**To meet the requirements of installation and use in Zone 1 & Zone 2 (IEC 60079-14) and "Gas & Vapour Tight" the cable must be provided with Penetrating Inner covering together with correct ATEX approved equipment or accessories.**	

Office	Date	Sign	Rev.	Date	Sign
Drawn by :	29/03/2024	Messa			
Checked :	29/03/2024	Spaccasassi			
Approved :	29/03/2024	Cucinotta			

The data provided, lending assent for the treatment, will be used to the sense of the article 13 of of the Regulation (UE) 2016/679, also through outsiders, in order to allow the realization of the fulfilments informatives, administrative, commercial and accounting related to the contractual relationship. Integral copy of the informative could be requested at our offices.

All proprietary rights reserved according to law. This document shall be not reproduced without written permission. FLEI reserves the right to change characteristics and technical data of product shown at any time.

ITEM	Tag	P-ELF-200N1-02-L1-05	: Normal Lighting JB / Normal Lighting Fixture			Dwg	123A90-DDL-EL-LIS-20148
	S/Sys	83-40	: Normal Lighting Upper Deck			Module	UD
TASK	code	C10000671		Location	Onshore Activities	User	Rosetti Marino Quality Control
FORM	Process	MC	Activity CCK	Discipline	Electrical	Form	CPX09 LV Power Cable

CABLE DATA

Type Cu Cl.2/MGT/EPR/LSZH/GSWB/LSZH Cores/Size mm² 3G2,5 mm2 Color ORANGE

From EJB-200N1-02-L1-05 To ELF-200N1-02-L1-05

1	Confirm cable is as specified in project cable schedule	OK
2	Visual Check cable physical integrity.	OK
3	Check is installed in accordance with layout drawing (segregation, distance…).	OK
4	Check cable is supported and fixed to rack according to project specification.	Note
5	Check bending radius is within the specified limits.	OK
6	Confirm cable glands suit for cable type, correctly mounted and tightened.	OK
7	Check gland plate for single core cables is non ferrous (non -magnetic).	NA
8	Confirm cable labelling is in accordance with specifications.	PL
9	Check cable is correctly loomed and segregated in accordance with specification.	OK
10	Check cable earthing against lastest drawings.	OK
11	Check cores marking are in accordance with termination diagram	OK
12	Check terminations are in accordance with latest termination diagram	OK
13	If required produce Red Line Mark Up for "AS BUILT"	

ROSETTI MARINO PROVERLIS CROSSWIND

ITEM	Tag	P-ELF-200N1-02-L1-05	: Normal Lighting JB / Normal Lighting Fixture			Dwg	123A90-DDL-EL-LIS-20148
	S/Sys	83-40	: Normal Lighting Upper Deck			Module	UD
TASK	code	C10000671		Location	Onshore Activities	User	Rosetti Marino Quality Control
FORM	Process	MC	Activity CCK	Discipline	Electrical	Form	CPX09 LV Power Cable

	CONTINUITY			
5	CORE CONTINUITY Ω	PH 1	0,2	
6		PH 2	0,2	
7		PH 3	NA	
8	ARMOUR CONTINUITY Ω		0,2	
9	PROTECTIVE CONDUCTOR CONTINUITY Ω		NA	
	INSULATION			
10	CORES / ARMOUR+EARTH MΩ	PH1 / PH2-PH3-A-E	>999	
11		PH2 / PH1-PH3-A-E	>999	
12		PH3 / PH1-PH2-A-E	NA	
13	CABLE IS CORRECTLY RE-CONNECTED.		Yes	

TESTING INSTRUMENTS USED

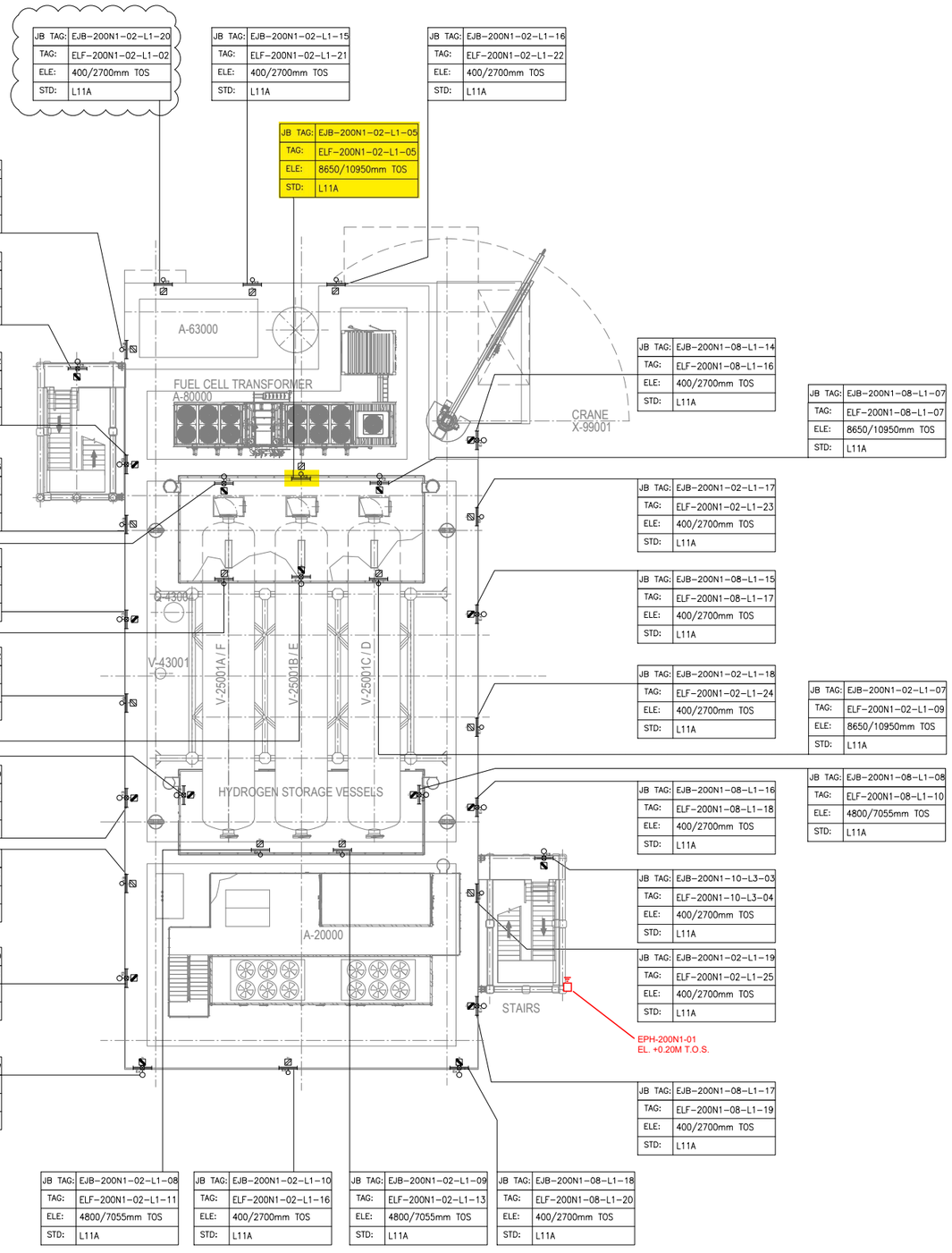
TYPE / SERIAL N° :	MEGGER : KEW3125A SERIAL: W8330207	TYPE / SERIAL N° :	MULTIMETER: FLUKE 175 SERIAL:AW1/018(17140769)
Calibration certificate N° and date:	N°7722/24 _ 10/07/2024	Calibration certificate N° and date:	N°7715/24 _ 10/07/2024

Comments: Nota 4: refer to PL C30000681

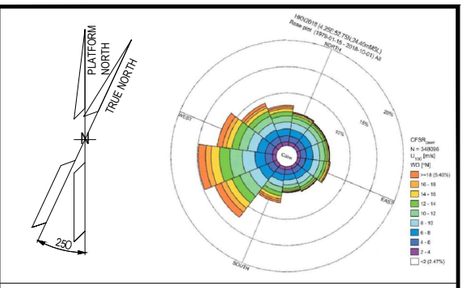
	Performed by	● WITNESS ☐ REVIEW	☐ WITNESS ☐ REVIEW
Company	ICS IMPIANTI	RM(ROSETTI MARINO)	
Name	Michele Tartaglia	Andrea Andreani	
Date	2025-01-10	2025-01-14	
Signature	PROVERLIS Digitaly signed by Michele Tartaglia 2025-01-10T06:08:29.410Z	PROVERLIS Digitaly signed by Andrea Andreani 2025-01-14T15:50:42.678Z	

DRAWING NO. 123A90-DDL-EL-DL-20118

REV. 01



PLAN ON UPPER DECK
EL+30.310 T.O.S.



NOTES

1. ALL DIMENSIONS AND ELEVATIONS ARE GIVEN IN mm UNLESS OTHERWISE NOTED.
2. ELEVATIONS REFER TO T.O.S.
3. ELEVATION OF THE LAMPS ARE REFFERED TO THE BOTTOM OF THE LAMP.
4. FOR THE ELEVATION OF JB, REFER TO THE TYPICAL INSTALLATION.

LEGEND

- EMERGENCY LIGHTING JB
- 60W LED EMERGENCY LUMINARIES
- 60W LED EMERGENCY LUMINARIES FIXTURE POLE MOUNTED
- NORMAL LIGHTING JB
- 45W LED NORMAL LUMINARIES
- 45W LED NORMAL LUMINARIES FIXTURE POLE MOUNTED
- WELDING SOCKET WITH INTEGRATED JB
- SMALL POWER SOCKET WITH INTEGRATED JB
- TWILIGHT RELAY SENSOR

JB TAG:	JB-TAG
TAG:	TAG
ELE:	ELEVATION
STD:	STANDARD

VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DL-20118**

REV.:	DATE:	SIGNATURE:
1_B	22/10/24	G.Randi

ROSETTI MARINO SpA

REFERENCE DOCUMENTS

123A90-DDL-PP-DL-70070	PLOT PLAN - LOWER & UPPER DECK
123A90-DDL-EL-DL-20100	ELECTRICAL EQUIPMENT LAYOUT - TOP DECK
123A90-DDL-EL-DD-20091	ELECTRICAL TYPICAL INSTALLATION DETAILS - LIGHTING SYSTEM
123A90-DDL-EL-DD-20092	ELECTRICAL TYPICAL INSTALLATION DETAILS - POWER SYSTEM & CABLE INSTALLATION
123A90-DDL-EL-RE-20153	LIGHTING CALCULATION STUDY REPORT

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	02/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	28/05/24	ASR	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

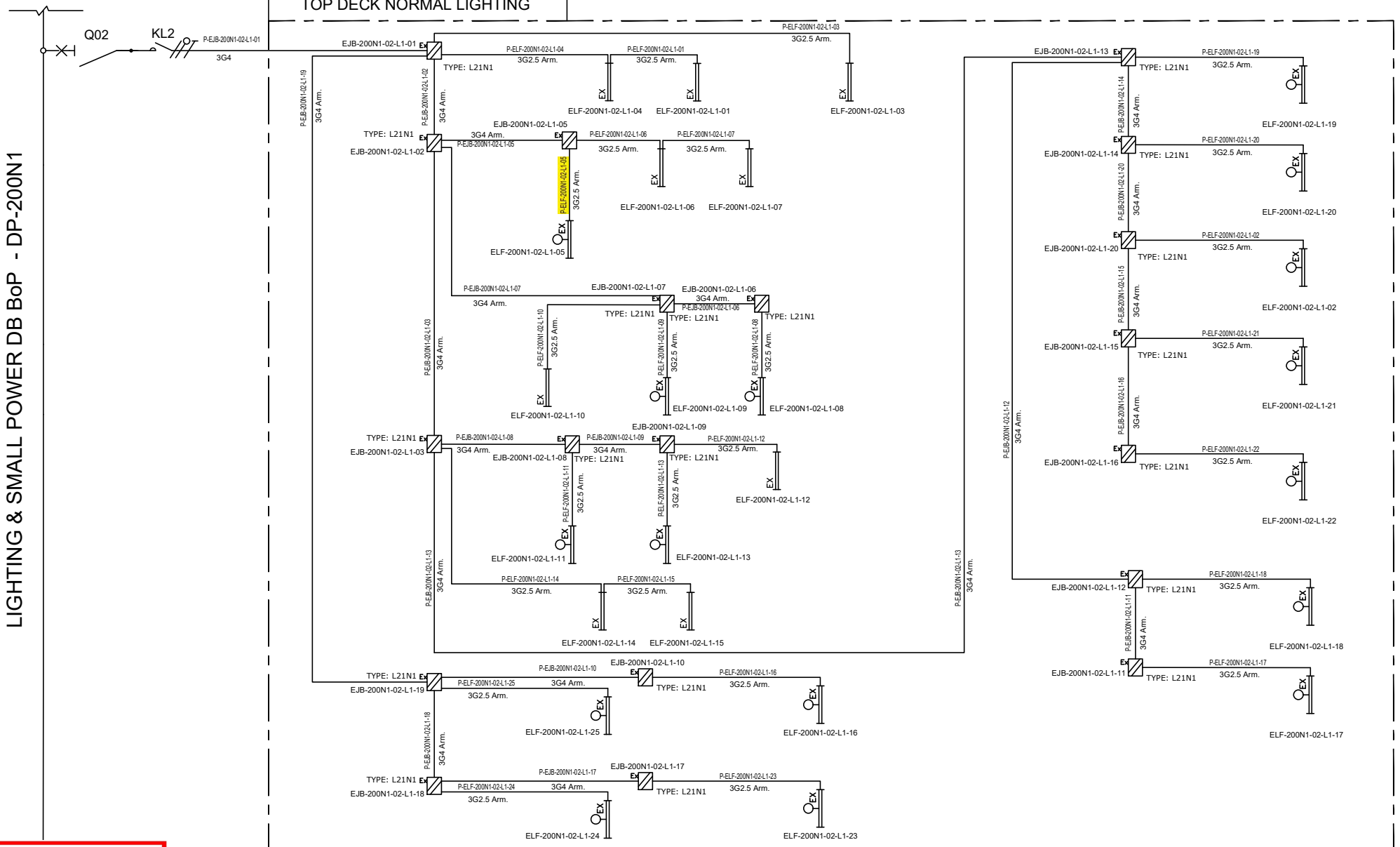
CROSSWIND | ROSETTI MARINO

TITLE :
BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET LAYOUT – TOP DECK

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK			SCALE 1:150
DRAWN ASR	CHECKED FMA/AMA	APPROVED FPA/DLO	DATE 01/08/24
A1	DRAWING NO. 123A90-DDL-EL-DL-20118	SHEET 1of2	REV. 01

File Name : 123A90-DDL-EL-DL-20118

LIGHTING & SMALL POWER DB BoP - DP-200N1



VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DG-20125**

REV.:	DATE:	SIGNATURE:
2_C	20/12/24	V.Ramponi

ROSETTI MARINO SpA

CROSSWIND

ROSETTI MARINO

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	08/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	01/07/24	ASR	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

TITLE : BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET CIRCUIT DIAGRAM
TOP DECK–NORMAL LIGHTING

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE : NTS

A3

DRAWING NO. 123A90–DDL–EL–DG–20125

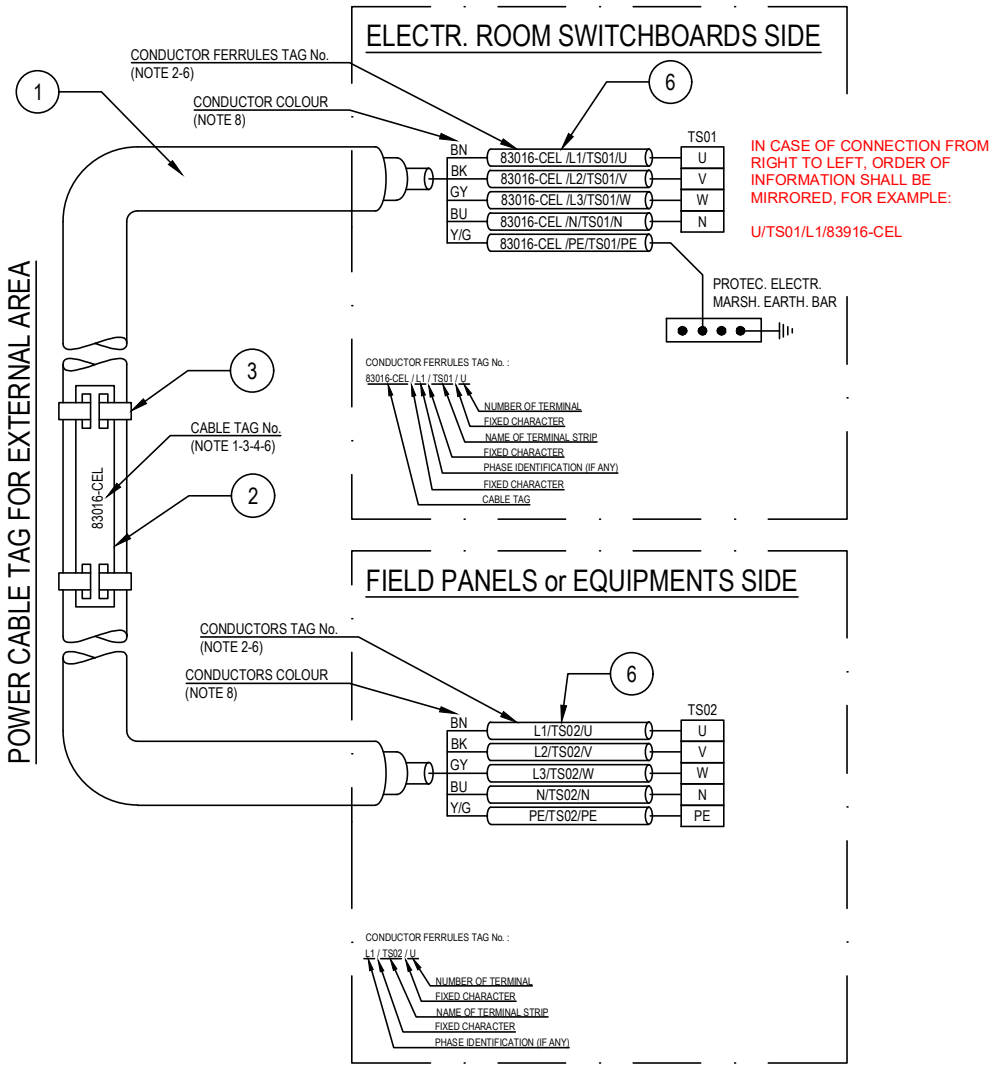
SHEET 010

REV. 01

F.to UNI A3: 420mmx297mm

File Name : 123A90–DDL–EL–DG–20125

C02



POS.	DESCRIPTION	MATERIAL	SIZE	Q.TY	NOTE
1	UNARMOURED CABLE				
2	CABLE TAG FOR EXTERNAL AREA	HDG/SS			NOTE 1 NOTE 4
3	TIE FOR CABLE TAG IN EXTERNAL AREA	HDG/SS			
4	CABLE TAG FOR INTERNAL AREA	PVC			NOTE 1 NOTE 5
5	TIE FOR CABLE TAG IN INTERNAL AREA	NYLON 6.6			
6	CORE FERRULES	PVC			

NOTES:

1) ALL CABLES SHALL BE IDENTIFIED AT EACH TERMINATION AND EACH SIDE OF ANY OBSTACLE (E.G. CABLE TRANSIT ON WALLS INSIDE SHELTER AND FLOOR DECK CROSSING, BY THEIR RESPECTIVE TAGS/NUMBERS, AS INDICATED ON THE CABLE SCHEDULE.
CABLE IDENTIFICATION SHALL BE ALSO DONE BELOW AND IN THE SWITCHBOARD CABLE COMPARTMENT.

2) CABLE CORE FERRULES SHALL BE FITTED AT EVERY TERMINATION. THESE FERRULES SHALL BE OF ENGRAVED PLASTIC SLIP ON, INTERLOCKED AND SELF GRIP TYPE.

3) ON CABLE TRAYS OR LADDERS, CABLES SHALL BE IDENTIFIED AT EACH END, AND EVERY 25 METERS.

4) THE CABLE TAG FOR EXTERNAL AREA SHALL DONE BY 316L STAINLESS STEEL LABELS, TAG (H=5mm) SHALL BE LASER PRINTED PREFERABLY OR EMBOSSED, LABEL HELD BY TWO 316L STAINLESS STEEL TIES.

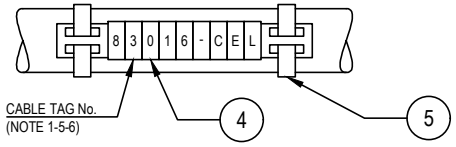
5) THE CABLE TAG FOR INTERNAL AREA SHALL BE DONE BY ENGRAVED PLASTIC SLIP ON CHARACTERS ONTO PLASTIC TIE, BLACK LETTER (H=5mm) ON WHITE.

6) CABLE AND CONDUCTOR TAG ARE INDICATIVE ONLY.

7) WITHIN TECHNICAL BUILDING, PROTECTIVE CONDUCTOR SHALL BE TAGGED BETWEEN FOLLOWING ITEMS:
- PANEL (SWITCHBOARD, SWITCHGEAR, DISTRIBUTION BOARD, ETC) AND EARTH BAR
- EARTH BAR AND EARTH BOSS

8) ONLY IF NECESSARY, SHRINK TUBES OF THE APPROPRIATE COLOR WILL BE INSTALLED TO COVER THE WRONG CONDUCTOR COLOR, THIS WILL BE PERFORMED IN EACH SIDE OF THE CABLES WHERE NECESSARY.

POWER CABLE TAG FOR INTERNAL AREA



VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DD-20092**

REV.:	DATE:	SIGNATURE:
2_D	20/12/24	V.Ramponi

ROSETTI MARINO SpA

CROSSWIND

ROSETTI MARINO

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	28/08/24	GRA	AMA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	04/07/24	NLK	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	21/11/23	SPS	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL TYPICAL INSTALLATION DETAILS-POWER SYSTEM & CABLE INSTALLATION
CABLES INSTALLATION SYSTEM IDENTIFICATION FOR POWER CABLES

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK | SCALE : NTS

A3 | DRAWING NO. 123A90-DDL-EL-DD-20092 | SHEET 007 | REV. 02

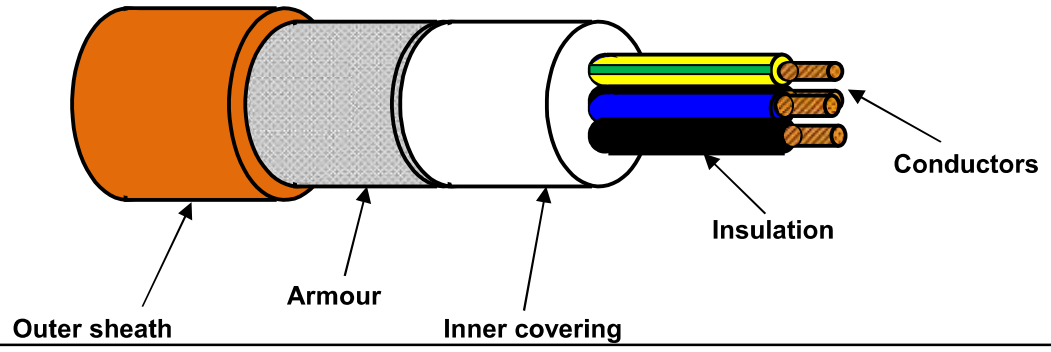
F.to UNI A3: 420mmx297mm

File Name : 123A90-DDL-EL-DD-20092 REV.02.DWG

Tag Number	Category	Discipline	Eng Status	NativeDoc	Layout	Parent Tag	Main Function	Secondary Function	Area	From Tag	From Main Function	From Area	To Tag	To Main Function	To Area	Material ID	Material Desc.	Gland Standard	From Gland	From Entry	From Fitting	To Gland	To Entry	To Fitting	Routing	Routing Manual
P-ELF-200N1-02-L1-05	Cable	LSP	VFC	123A90-DDL-EL-LIS-20148						EJB-200N1-02-L1-05	Normal Lighting JB	Upper Deck	ELF-200N1-02-L1-05	Normal Lighting Fixture	Upper Deck	ELECV19-3G2,5	Cable Cu Cl.2/MGT/EPR/LSZH/GSWB/LSZH 0,6/1kV 3G2,5mm² - Orange	M20	T2_M20_Double			T2_M20_Double				L-50-102-LVT-043

Cu Cl.2/MGT/EPR/LSZH/GSWB/LSZH 0,6/1 KV

3G2,5 - L.V. POWER CABLE - Fire Resistant & Flame Retardant - ARMOURED



TECHNICAL FEATURES

Conductors :	**STRANDED** plain/bare annealed copper wires	IEC 60228 Class 2
Insulation :	Mica/Glass Tape (MGT) plus EPR compound, quality to IEC 60092.360, Nominal Thickness 1,0 mm	
Cores colour code :	**Brown - Blue - Yellow/Green**	
Pair Assembling :	Not required	
Pair Wrapping:	Not required	
Drain wire :	Not required	
Pair Shield :	Not required	
Shield Insulation :	Not Required	
Total Assembling :	Cores layed up with optimal lay length	
Overall Wrapping:	Not required	
Drain wire :	Not required	
Overall Shield:	Not required	
Inner covering :	Extruded LSZH compound, Average Thickness 1,0 mm	
Inner covering color code:	**Black or Natural**	
Armour :	**Galvanized Steel Wire Braid Armour (coverage ≥ 90%)**	
Outer sheath :	Extruded LSZH Thermoplastic Compound (O.I. ≥ 30%), type **SHF1** to IEC 60093.360, Average Thickness 1,3 mm	
Outer sheath color code:	**Orange**	
Outer printing (INKJET) :	**FLEI - ELECTRIC CABLE - 1000V - 3G2,5 SQMM - MGT/EPR/LSZH/GSWB/LSZH - 0,6/1 KV - IEC 60331.21 - IEC 60332.1.2 - IEC 60332.3.22 - Year of Manufacture - CE + Meter Marking**	
Under Armour diameter :	(11,7 ± 10%) mm	
Over Armour diameter :	(12,9 ± 10%) mm	
Outer diameter :	(15,5 ± 10%) mm	
Bending radius :	cable outer diameter x 10	(in fixed installation)
Voltage test :	3,5 kV a.c. for 5' (Between Cores - Armour)	
Conductors DC Resistance :		IEC 60228 Class 2
Insulation Resistance :	≥ 940 MΩ x Km (@ 20°C)	
Applicable Standards		
Design Guidelines :	**IEC 60092.353**	
ON COMPLETE CABLE		
Fire Resistant test :	**IEC 60331.21**	
Flame Retardant test :	IEC 60332.1.2 - IEC 60332.3.22	
Acid Gas generation :	IEC 60754.1/2	
Smoke density/Light Transmittance	IEC 61034.2 (LT ≥ 60%)	
Temperature Range :		
ON INSULATION	(max +90°C)	(max continuous operation temperature of conductors)
	(max +250°C)	(max conductors temperature during short-circuit for 5 seconds)
ON COMPLETE CABLE		
During Operation :	(-20°C up to +90°C)	(in fixed installation)
During installation :	(- 5°C up to +50°C)	
Note :	**To meet the requirements of installation and use in Zone 1 & Zone 2 (IEC 60079-14) and "Gas & Vapour Tight" the cable must be provided with Penetrating Inner covering together with correct ATEX approved equipment or accessories.**	

Office	Date	Sign	Rev.	Date	Sign
Drawn by :	29/03/2024	Messa			
Checked :	29/03/2024	Spaccasassi			
Approved :	29/03/2024	Cucinotta			

The data provided, lending assent for the treatment, will be used to the sense of the article 13 of of the Regulation (UE) 2016/679, also through outsiders, in order to allow the realization of the fulfilments informatives, administrative, commercial and accounting related to the contractual relationship. Integral copy of the informative could be requested at our offices.

All proprietary rights reserved according to law. This document shall be not reproduced without written permission. FLEI reserves the right to change characteristics and technical data of product shown at any time.

ITEM	Tag	P-EJB-200N1-02-L1-06	: Normal Lighting JB / Normal Lighting JB			Dwg	123A90-DDL-EL-LIS-20148
	S/Sys	83-40	: Normal Lighting Upper Deck			Module	UD
TASK	code	C10000672		Location	Onshore Activities	User	Rosetti Marino Quality Control
FORM	Process	MC	Activity CCK	Discipline	Electrical	Form	CPX09 LV Power Cable

CABLE DATA

Type Cu Cl.2/MGT/EPR/LSZH/GSWB/LSZH Cores/Size mm² 3G4 mm2 Color ORANGE

From EJB-200N1-02-L1-07 To EJB-200N1-02-L1-06

1	Confirm cable is as specified in project cable schedule	OK
2	Visual Check cable physical integrity.	OK
3	Check is installed in accordance with layout drawing (segregation, distance…).	OK
4	Check cable is supported and fixed to rack according to project specification.	Note
5	Check bending radius is within the specified limits.	OK
6	Confirm cable glands suit for cable type, correctly mounted and tightened.	PL
7	Check gland plate for single core cables is non ferrous (non -magnetic).	NA
8	Confirm cable labelling is in accordance with specifications.	PL
9	Check cable is correctly loomed and segregated in accordance with specification.	OK
10	Check cable earthing against lastest drawings.	OK
11	Check cores marking are in accordance with termination diagram	OK
12	Check terminations are in accordance with latest termination diagram	OK
13	If required produce Red Line Mark Up for "AS BUILT"	

ROSETTI MARINO PROVERLIS CROSSWIND

ITEM	Tag	P-EJB-200N1-02-L1-06	: Normal Lighting JB / Normal Lighting JB			Dwg	123A90-DDL-EL-LIS-20148
	S/Sys	83-40	: Normal Lighting Upper Deck			Module	UD
TASK	code	C10000672		Location	Onshore Activities	User	Rosetti Marino Quality Control
FORM	Process	MC	Activity CCK	Discipline	Electrical	Form	CPX09 LV Power Cable

	CONTINUITY			
5	CORE CONTINUITY Ω	PH 1	0,2	
6		PH 2	0,2	
7		PH 3	NA	
8	ARMOUR CONTINUITY Ω		0,2	
9	PROTECTIVE CONDUCTOR CONTINUITY Ω		0,2	
	INSULATION			
10	CORES / ARMOUR+EARTH MΩ	PH1 / PH2-PH3-A-E	>999	
11		PH2 / PH1-PH3-A-E	>999	
12		PH3 / PH1-PH2-A-E	NA	
13	CABLE IS CORRECTLY RE-CONNECTED.		Yes	

TESTING INSTRUMENTS USED

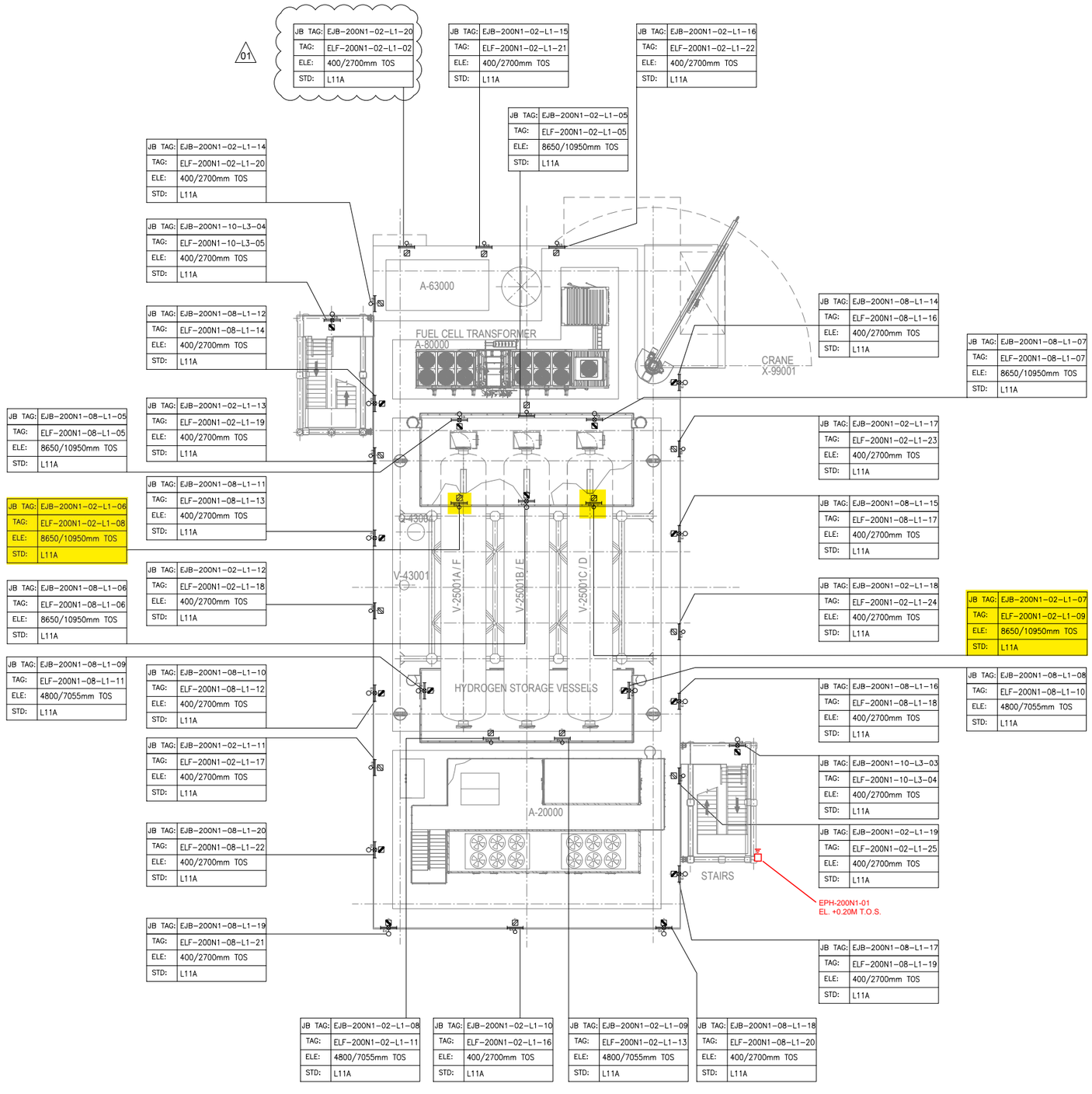
TYPE / SERIAL N° :	MULTIMETRO SIN-STRU-017 S/N:H240103023	TYPE / SERIAL N° :	MEGGER : KEW3125A SERIAL: W8330207
Calibration certificate N° and date:	12/10/2024	Calibration certificate N° and date:	N°7722/24 _ 10/07/2024

Comments: Nota 4: refer to PL C30000681

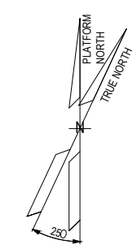
	Performed by	● WITNESS ☐ REVIEW	☐ WITNESS ☐ REVIEW
Company	ICS IMPIANTI	RM(ROSETTI MARINO)	
Name	Michele Tartaglia	Andrea Andreani	
Date	2025-01-14	2025-01-15	
Signature	PROVERLIS Digitaly signed by Michele Tartaglia 2025-01-14T08:45:11.494Z	PROVERLIS Digitaly signed by Andrea Andreani 2025-01-15T17:21:50.266Z	

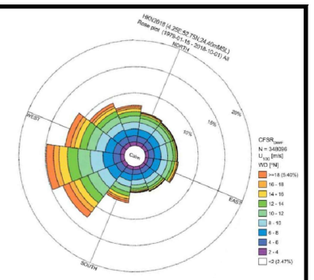
DRAWING NO. 123A90-DDL-EL-DL-20118

REV. 01



PLAN ON UPPER DECK
EL+30.310 T.O.S.





NOTES

1. ALL DIMENSIONS AND ELEVATIONS ARE GIVEN IN mm UNLESS OTHERWISE NOTED.
2. ELEVATIONS REFER TO T.O.S.
3. ELEVATION OF THE LAMPS ARE REFFERED TO THE BOTTOM OF THE LAMP.
4. FOR THE ELEVATION OF JB, REFER TO THE TYPICAL INSTALLATION.

LEGEND

- EMERGENCY LIGHTING JB
- 60W LED EMERGENCY LUMINARIES
- 60W LED EMERGENCY LUMINARIES FIXTURE POLE MOUNTED
- NORMAL LIGHTING JB
- 45W LED NORMAL LUMINARIES
- 45W LED NORMAL LUMINARIES FIXTURE POLE MOUNTED
- WELDING SOCKET WITH INTEGRATED JB
- SMALL POWER SOCKET WITH INTEGRATED JB
- TWILIGHT RELAY SENSOR

JB TAG:	JB-TAG
TAG:	TAG
ELE:	ELEVATION
STD:	STANDARD

VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DL-20118**

REV.:	DATE:	SIGNATURE:
1_B	22/10/24	G.Randi

ROSETTI MARINO SpA

REFERENCE DOCUMENTS

123A90-DDL-PP-DL-70070	PLOT PLAN - LOWER & UPPER DECK
123A90-DDL-EL-DL-20100	ELECTRICAL EQUIPMENT LAYOUT - TOP DECK
123A90-DDL-EL-DD-20091	ELECTRICAL TYPICAL INSTALLATION DETAILS - LIGHTING SYSTEM
123A90-DDL-EL-DD-20092	ELECTRICAL TYPICAL INSTALLATION DETAILS - POWER SYSTEM & CABLE INSTALLATION
123A90-DDL-EL-RE-20153	LIGHTING CALCULATION STUDY REPORT

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	02/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	28/05/24	ASR	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND

ROSETTI MARINO

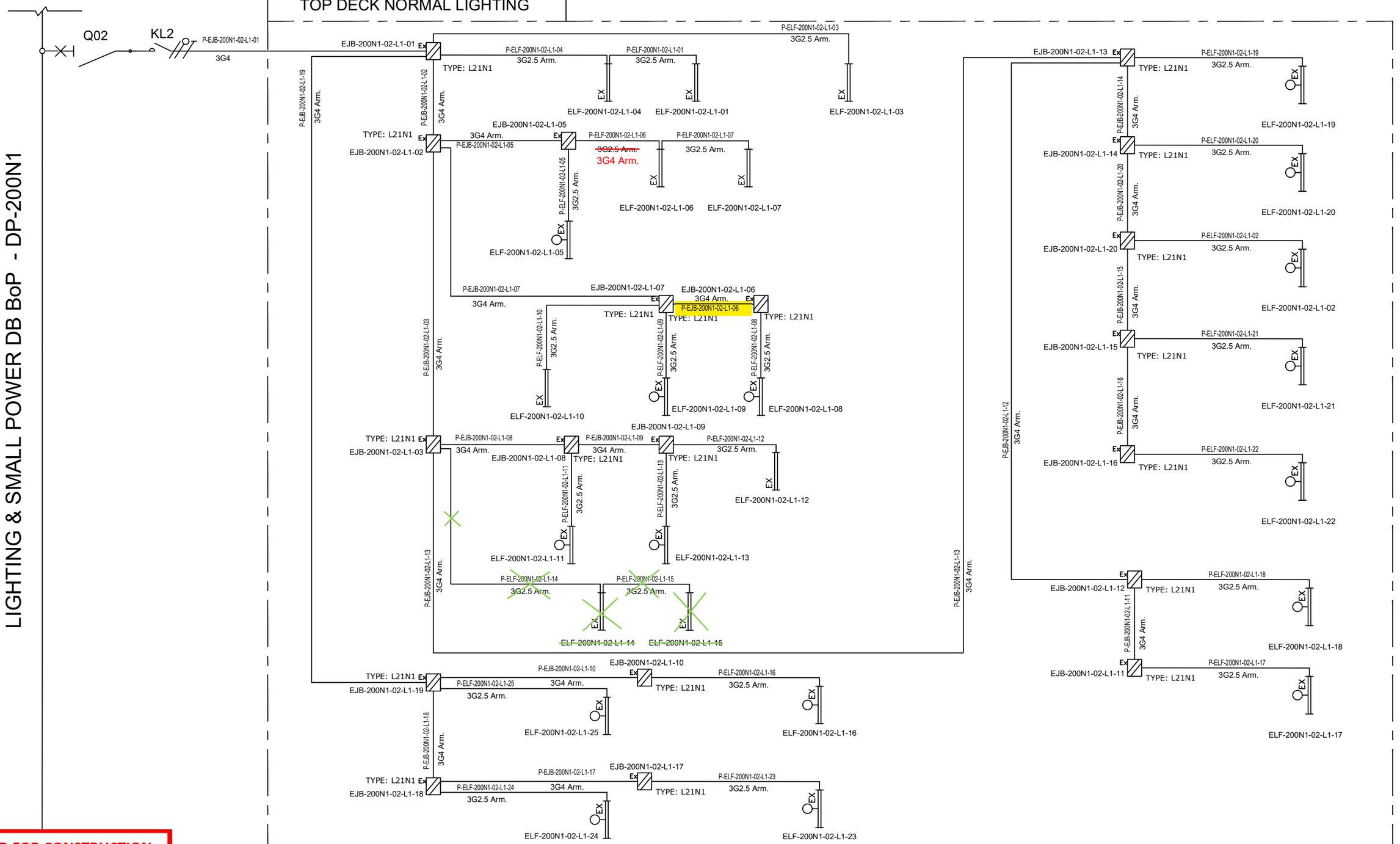
TITLE :
BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET LAYOUT – TOP DECK

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK			SCALE 1:150
DRAWN ASR	CHECKED FMA/AMA	APPROVED FPA/DLO	DATE 01/08/24
A1	DRAWING NO. 123A90-DDL-EL-DL-20118	SHEET 1of2	REV. 01

File Name : 123A90-DDL-EL-DL-20118

LIGHTING & SMALL POWER DB BoP - DP-200N1

TOP DECK NORMAL LIGHTING



VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DG-20152**

REV.:	DATE:	SIGNATURE:
2_F	14/01/25	G.Randi

ROSETTI MARINO SpA

CROSSWIND

ROSETTI MARINO

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	08/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	01/07/24	ASR	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

TITLE : BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET CIRCUIT DIAGRAM
TOP DECK–NORMAL LIGHTING

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE : NTS

A3

DRAWING NO. 123A90–DDL–EL–DG–20125

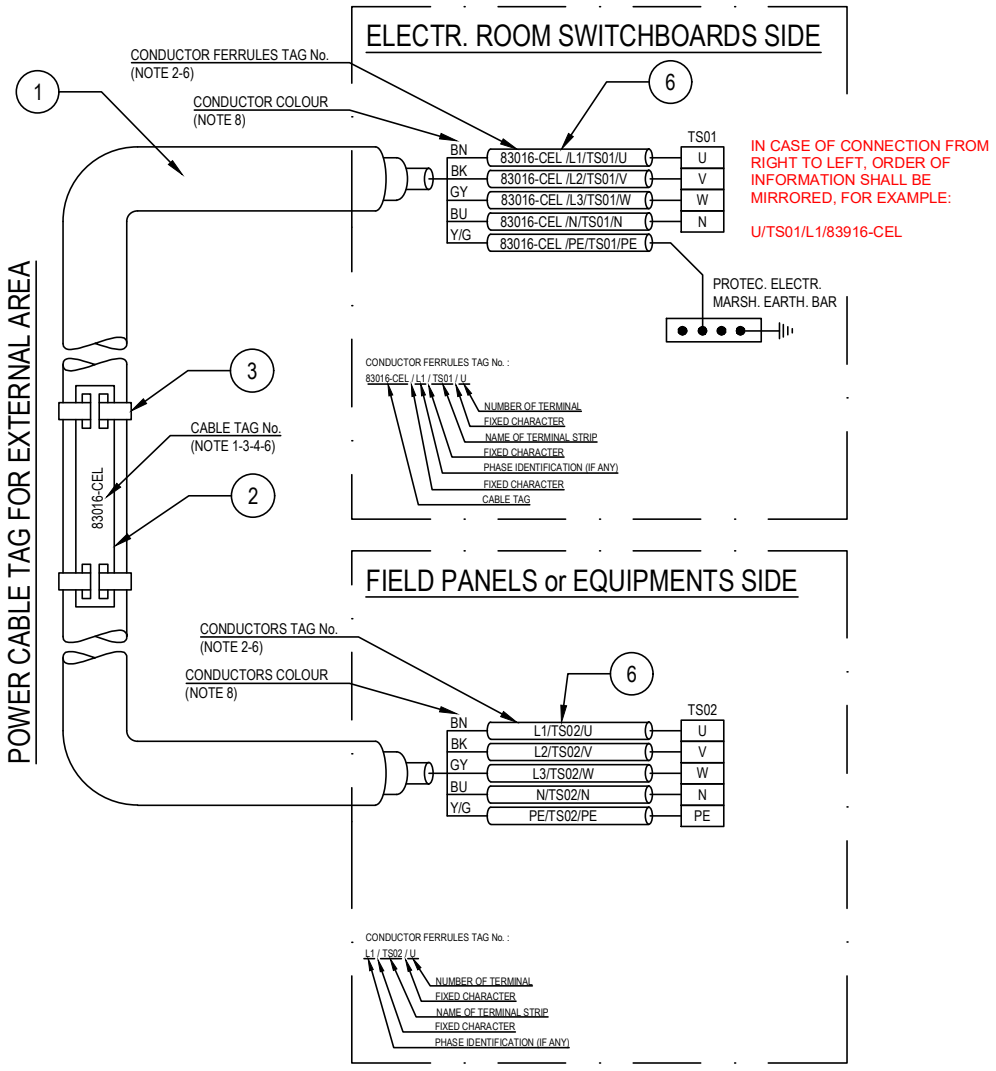
SHEET 010

REV. 01

F.to UNI A3: 420mmx297mm

File Name : 123A90–DDL–EL–DG–20125

C02



POS.	DESCRIPTION	MATERIAL	SIZE	Q.TY	NOTE
1	UNARMOURED CABLE				
2	CABLE TAG FOR EXTERNAL AREA	HDG/SS			NOTE 1 NOTE 4
3	TIE FOR CABLE TAG IN EXTERNAL AREA	HDG/SS			
4	CABLE TAG FOR INTERNAL AREA	PVC			NOTE 1 NOTE 5
5	TIE FOR CABLE TAG IN INTERNAL AREA	NYLON 6.6			
6	CORE FERRULES	PVC			

NOTES:

1) ALL CABLES SHALL BE IDENTIFIED AT EACH TERMINATION AND EACH SIDE OF ANY OBSTACLE (E.G. CABLE TRANSIT ON WALLS INSIDE SHELTER AND FLOOR DECK CROSSING, BY THEIR RESPECTIVE TAGS/NUMBERS, AS INDICATED ON THE CABLE SCHEDULE.
CABLE IDENTIFICATION SHALL BE ALSO DONE BELOW AND IN THE SWITCHBOARD CABLE COMPARTMENT.

2) CABLE CORE FERRULES SHALL BE FITTED AT EVERY TERMINATION. THESE FERRULES SHALL BE OF ENGRAVED PLASTIC SLIP ON, INTERLOCKED AND SELF GRIP TYPE.

3) ON CABLE TRAYS OR LADDERS, CABLES SHALL BE IDENTIFIED AT EACH END, AND EVERY 25 METERS.

4) THE CABLE TAG FOR EXTERNAL AREA SHALL DONE BY 316L STAINLESS STEEL LABELS, TAG (H=5mm) SHALL BE LASER PRINTED PREFERABLY OR EMBOSSED, LABEL HELD BY TWO 316L STAINLESS STEEL TIES.

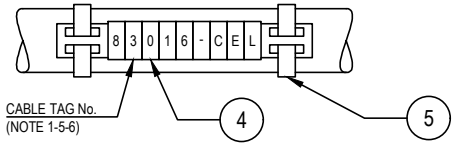
5) THE CABLE TAG FOR INTERNAL AREA SHALL BE DONE BY ENGRAVED PLASTIC SLIP ON CHARACTERS ONTO PLASTIC TIE, BLACK LETTER (H=5mm) ON WHITE.

6) CABLE AND CONDUCTOR TAG ARE INDICATIVE ONLY.

7) WITHIN TECHNICAL BUILDING, PROTECTIVE CONDUCTOR SHALL BE TAGGED BETWEEN FOLLOWING ITEMS:
- PANEL (SWITCHBOARD, SWITCHGEAR, DISTRIBUTION BOARD, ETC) AND EARTH BAR
- EARTH BAR AND EARTH BOSS

8) ONLY IF NECESSARY, SHRINK TUBES OF THE APPROPRIATE COLOR WILL BE INSTALLED TO COVER THE WRONG CONDUCTOR COLOR, THIS WILL BE PERFORMED IN EACH SIDE OF THE CABLES WHERE NECESSARY.

POWER CABLE TAG FOR INTERNAL AREA



VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DD-20092**

REV.:	DATE:	SIGNATURE:
2_D	20/12/24	V.Ramponi

ROSETTI MARINO SpA

CROSSWIND

ROSETTI MARINO

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	28/08/24	GRA	AMA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	04/07/24	NLK	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	21/11/23	SPS	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL TYPICAL INSTALLATION DETAILS-POWER SYSTEM & CABLE INSTALLATION
CABLES INSTALLATION SYSTEM IDENTIFICATION FOR POWER CABLES

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK | SCALE : NTS

A3 | DRAWING NO. 123A90-DDL-EL-DD-20092 | SHEET 007 | REV. 02

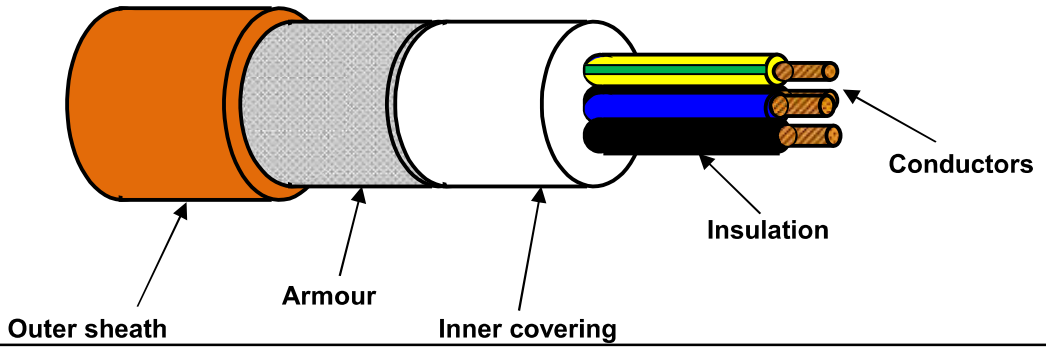
F.to UNI A3: 420mmx297mm

File Name : 123A90-DDL-EL-DD-20092 REV.02.DWG

Tag Number	Category	Disciplir	Eng Statu	NativeDoc	Layout	Parent Tag	Main Function	Secondary Fun	Area	From Tag	From Main Function	From Area	To Tag	To Main Function	To Area	Material ID	Material Desc.	Gland Standard	From Glan	From Entry	From Fitt	To Gland	To Entry	To Fitting	Routing	Routing Manual
P-EJB-200N1-02-L1-06	Cable	LSP	VFC	123A90-DDL-EL-LIS-20148						EJB-200N1-02-L1-07	Normal Lighting JB	Upper Deck	EJB-200N1-02-L1-06	Normal Lighting JB	Upper Deck	ELECV38-3G4	Cable Cu Cl.2/MGT/EPR/LSZH/GSWB/LSZH 0,6/1kV 3G4mm² - Orange	M20	T2_M20_ Double			T2_M20_Double				L-150-102-LVT-012

Cu Cl.2/MGT/EPR/LSZH/GSWB/LSZH 0,6/1 KV

3G4 - L.V. POWER CABLE - Fire Resistant & Flame Retardant - ARMOURED



TECHNICAL FEATURES

Conductors :	**STRANDED** plain/bare annealed copper wires	IEC 60228 Class 2
Insulation :	Mica/Glass Tape (MGT) plus EPR compound, quality to IEC 60092.360, Nominal Thickness 1,0 mm	
Cores colour code :	**Brown - Blue - Yellow/Green**	
Pair Assembling :	Not required	
Pair Wrapping:	Not required	
Drain wire :	Not required	
Pair Shield :	Not required	
Shield Insulation :	Not Required	
Total Assembling :	Cores layed up with optimal lay length	
Overall Wrapping:	Not required	
Drain wire :	Not required	
Overall Shield:	Not required	
Inner covering :	Extruded LSZH compound, Average Thickness 1,0 mm	
Inner covering color code:	**Black or Natural**	
Armour :	**Galvanized Steel Wire Braid Armour (coverage ≥ 90%)**	
Outer sheath :	Extruded LSZH Thermoplastic Compound (O.I. ≥ 30%), type **SHF1** to IEC 60093.360, Average Thickness 1,4 mm	
Outer sheath color code:	**Orange**	
Outer printing (INKJET) :	**FLEI - ELECTRIC CABLE - 1000V - 3G4 SQMM - MGT/EPR/LSZH/GSWB/LSZH - 0,6/1 KV - IEC 60331.21 -**	
	IEC 60332.1.2 - IEC 60332.3.22 - Year of Manufacture - CE + Meter Marking	
Under Armour diameter :	(13,0 ± 10%) mm	
Over Armour diameter :	(14,2 ± 10%) mm	
Outer diameter :	(17,0 ± 10%) mm	
Bending radius :	cable outer diameter x 10	(in fixed installation)
Voltage test :	3,5 kV a.c. for 5' (Between Cores - Armour)	
Conductors DC Resistance :		IEC 60228 Class 2
Insulation Resistance :	≥ 790 MΩ x Km (@ 20°C)	
Applicable Standards		
Design Guidelines :	**IEC 60092.353**	
ON COMPLETE CABLE		
Fire Resistant test :	**IEC 60331.21**	
Flame Retardant test :	IEC 60332.1.2 - IEC 60332.3.22	
Acid Gas generation :	IEC 60754.1/2	
Smoke density/Light Transmittance	IEC 61034.2 (LT ≥ 60%)	
Temperature Range :		
ON INSULATION	(max +90°C)	(max continuous operation temperature of conductors)
	(max +250°C)	(max conductors temperature during short-circuit for 5 seconds)
ON COMPLETE CABLE		
During Operation :	(-20°C up to +90°C)	(in fixed installation)
During installation :	(- 5°C up to +50°C)	
Note :	**To meet the requirements of installation and use in Zone 1 & Zone 2 (IEC 60079-14) and "Gas & Vapour Tight" the cable must be provided with Penetrating Inner covering together with correct ATEX approved equipment or accessories.**	

Office	Date	Sign	Rev.	Date	Sign
Drawn by :	29/03/2024	Messa			
Checked :	29/03/2024	Spaccasassi			
Approved :	29/03/2024	Cucinotta			

The data provided, lending assent for the treatment, will be used to the sense of the article 13 of of the Regulation (UE) 2016/679, also through outsiders, in order to allow the realization of the fulfilments informatives, administrative, commercial and accounting related to the contractual relationship. Integral copy of the informative could be requested at our offices.

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ITEM	Tag	P-ELF-200N1-02-L1-08	: Normal Lighting JB / Normal Lighting Fixture			Dwg	123A90-DDL-EL-LIS-20148
	S/Sys	83-40	: Normal Lighting Upper Deck			Module	UD
TASK	code	C10000673		Location	Onshore Activities	User	Rosetti Marino Quality Control
FORM	Process	MC	Activity CCK	Discipline	Electrical	Form	CPX09 LV Power Cable

CABLE DATA

Type Cu Cl.2/MGT/EPR/LSZH/GSWB/LSZH Cores/Size mm² 3G2,5 mm2 Color ORANGE

From EJB-200N1-02-L1-06 To ELF-200N1-02-L1-08

1	Confirm cable is as specified in project cable schedule	OK
2	Visual Check cable physical integrity.	OK
3	Check is installed in accordance with layout drawing (segregation, distance…).	OK
4	Check cable is supported and fixed to rack according to project specification.	PL
5	Check bending radius is within the specified limits.	OK
6	Confirm cable glands suit for cable type, correctly mounted and tightened.	OK
7	Check gland plate for single core cables is non ferrous (non -magnetic).	NA
8	Confirm cable labelling is in accordance with specifications.	PL
9	Check cable is correctly loomed and segregated in accordance with specification.	OK
10	Check cable earthing against lastest drawings.	OK
11	Check cores marking are in accordance with termination diagram	OK
12	Check terminations are in accordance with latest termination diagram	OK
13	If required produce Red Line Mark Up for "AS BUILT"	

ROSETTI MARINO PROVERLIS CROSSWIND

ITEM	Tag	P-ELF-200N1-02-L1-08	: Normal Lighting JB / Normal Lighting Fixture			Dwg	123A90-DDL-EL-LIS-20148
	S/Sys	83-40	: Normal Lighting Upper Deck			Module	UD
TASK	code	C10000673		Location	Onshore Activities	User	Rosetti Marino Quality Control
FORM	Process	MC	Activity CCK	Discipline	Electrical	Form	CPX09 LV Power Cable

	CONTINUITY			
5	CORE CONTINUITY Ω	PH 1	0,2	
6		PH 2	0,2	
7		PH 3	NA	
8	ARMOUR CONTINUITY Ω		0,2	
9	PROTECTIVE CONDUCTOR CONTINUITY Ω		0,2	
	INSULATION			
10	CORES / ARMOUR+EARTH MΩ	PH1 / PH2-PH3-A-E	>999	
11		PH2 / PH1-PH3-A-E	>999	
12		PH3 / PH1-PH2-A-E	NA	
13	CABLE IS CORRECTLY RE-CONNECTED.		Yes	

TESTING INSTRUMENTS USED

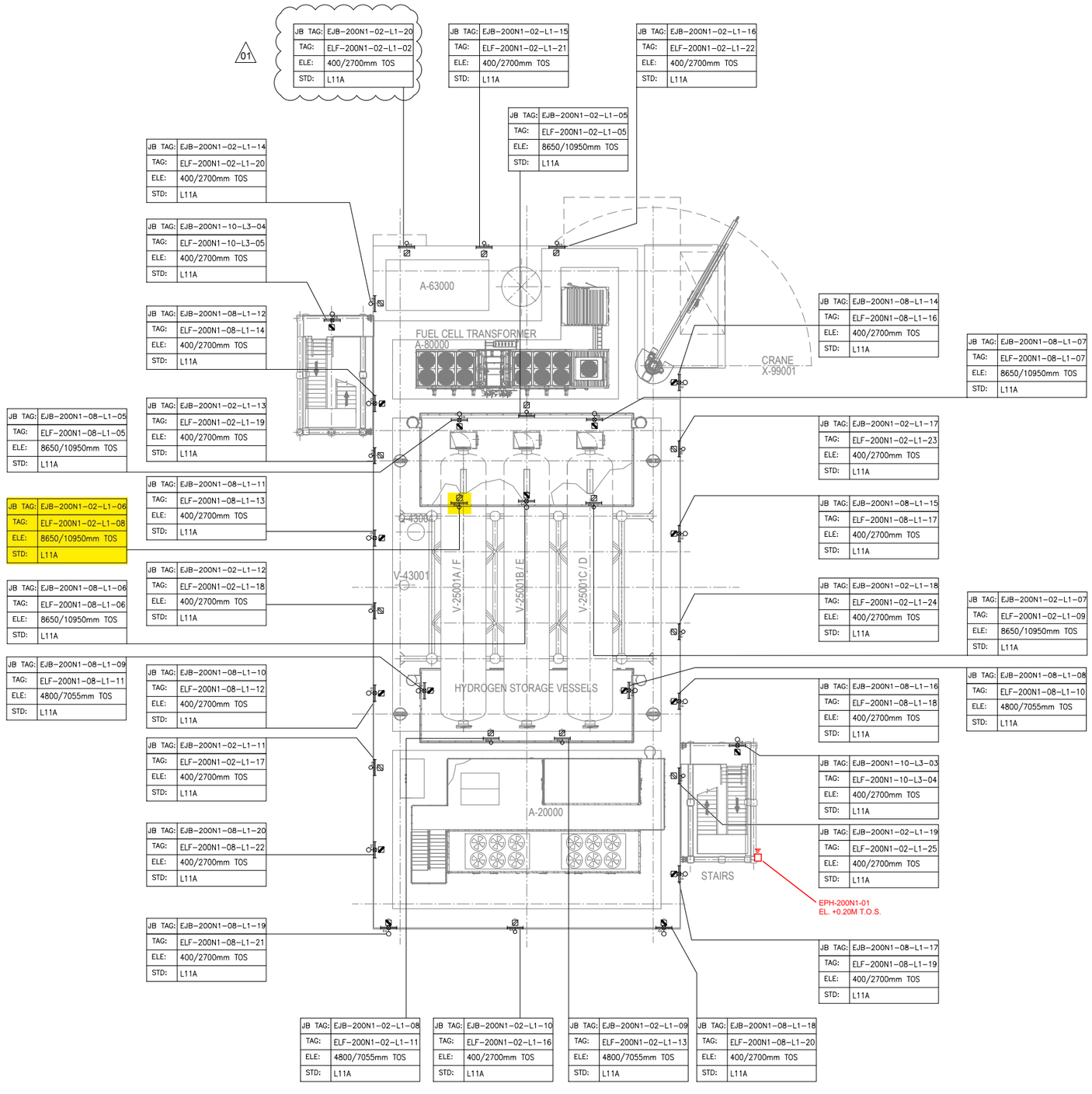
TYPE / SERIAL N° :	MULTIMETRO SIN-STRU-017 S/N:H240103023	TYPE / SERIAL N° :	MEGGER : KEW3125A SERIAL: W8330207
Calibration certificate N° and date:	12/10/2024	Calibration certificate N° and date:	N°7722/24 _ 10/07/2024

Comments: Nota 4: refer to PL C30000681

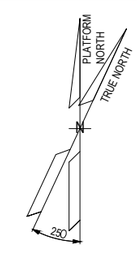
	Performed by	● WITNESS ☐ REVIEW	☐ WITNESS ☐ REVIEW
Company	ICS IMPIANTI	RM(ROSETTI MARINO)	
Name	Michele Tartaglia	Andrea Andreani	
Date	2025-01-08	2025-01-16	
Signature	PROVERLIS Digitaly signed by Michele Tartaglia 2025-01-08T09:56:04.803Z	PROVERLIS Digitaly signed by Andrea Andreani 2025-01-16T07:51:22.358Z	

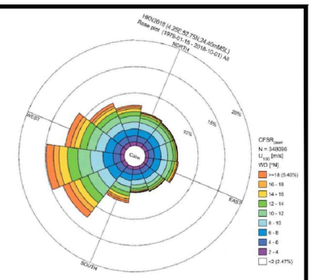
DRAWING NO. 123A90-DDL-EL-DL-20118

REV. 01



PLAN ON UPPER DECK
EL+30.310 T.O.S.





NOTES

1. ALL DIMENSIONS AND ELEVATIONS ARE GIVEN IN mm UNLESS OTHERWISE NOTED.
2. ELEVATIONS REFER TO T.O.S.
3. ELEVATION OF THE LAMPS ARE REFFERED TO THE BOTTOM OF THE LAMP.
4. FOR THE ELEVATION OF JB, REFER TO THE TYPICAL INSTALLATION.

LEGEND

- EMERGENCY LIGHTING JB
- 60W LED EMERGENCY LUMINARIES
- 60W LED EMERGENCY LUMINARIES FIXTURE POLE MOUNTED
- NORMAL LIGHTING JB
- 45W LED NORMAL LUMINARIES
- 45W LED NORMAL LUMINARIES FIXTURE POLE MOUNTED
- WELDING SOCKET WITH INTEGRATED JB
- SMALL POWER SOCKET WITH INTEGRATED JB
- TWILIGHT RELAY SENSOR

JB TAG:	JB-TAG
TAG:	TAG
ELE:	ELEVATION
STD:	STANDARD

VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DL-20118**

REV.:	DATE:	SIGNATURE:
1_B	22/10/24	G.Randi

ROSETTI MARINO SpA

REFERENCE DOCUMENTS

123A90-DDL-PP-DL-70070	PLOT PLAN - LOWER & UPPER DECK
123A90-DDL-EL-DL-20100	ELECTRICAL EQUIPMENT LAYOUT - TOP DECK
123A90-DDL-EL-DD-20091	ELECTRICAL TYPICAL INSTALLATION DETAILS - LIGHTING SYSTEM
123A90-DDL-EL-DD-20092	ELECTRICAL TYPICAL INSTALLATION DETAILS - POWER SYSTEM & CABLE INSTALLATION
123A90-DDL-EL-RE-20153	LIGHTING CALCULATION STUDY REPORT

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	02/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	28/05/24	ASR	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND

ROSETTI MARINO

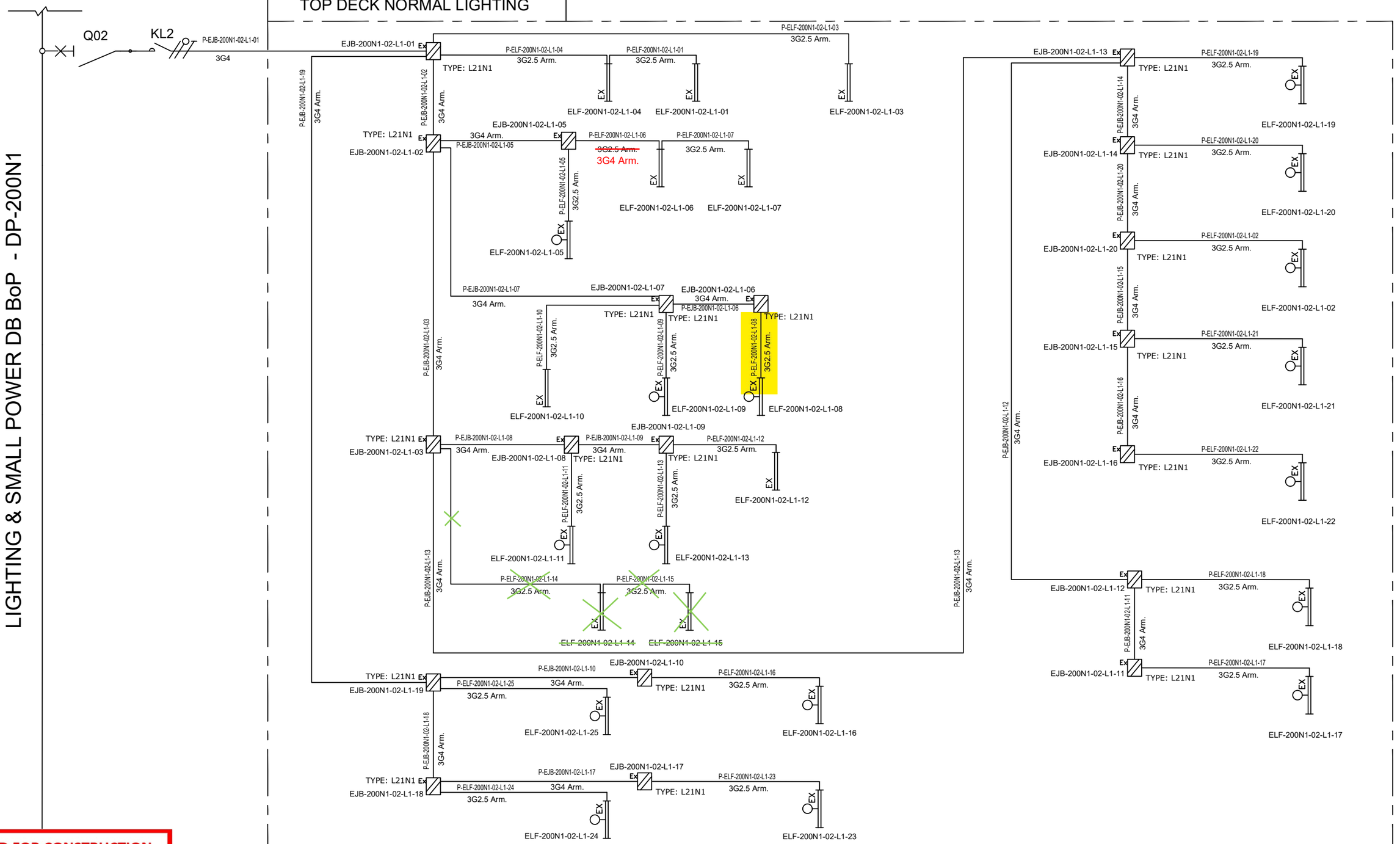
TITLE :
BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET LAYOUT – TOP DECK

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK			SCALE 1:150
DRAWN ASR	CHECKED FMA/AMA	APPROVED FPA/DLO	DATE 01/08/24
A1	DRAWING NO. 123A90-DDL-EL-DL-20118	SHEET 1of2	REV. 01

File Name : 123A90-DDL-EL-DL-20118

LIGHTING & SMALL POWER DB BoP - DP-200N1

TOP DECK NORMAL LIGHTING



VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DG-20152**

REV.:	DATE:	SIGNATURE:
2_F	14/01/25	G.Randi

ROSETTI MARINO SpA

CROSSWIND

ROSETTI MARINO

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	08/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	01/07/24	ASR	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

TITLE : BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET CIRCUIT DIAGRAM
TOP DECK–NORMAL LIGHTING

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE : NTS

A3

DRAWING NO. 123A90–DDL–EL–DG–20125

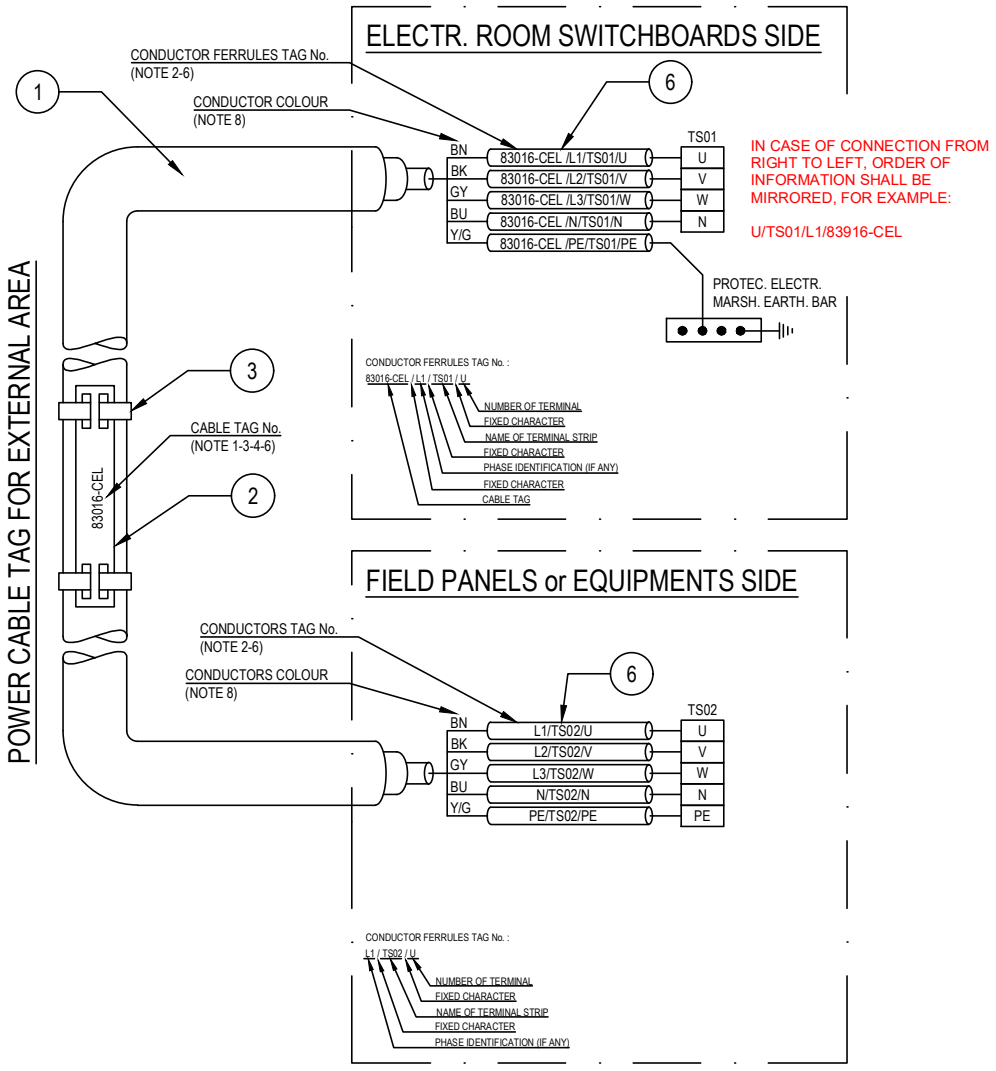
SHEET 010

REV. 01

F.to UNI A3: 420mmx297mm

File Name : 123A90–DDL–EL–DG–20125

C02



POS.	DESCRIPTION	MATERIAL	SIZE	Q.TY	NOTE
1	UNARMOURED CABLE				
2	CABLE TAG FOR EXTERNAL AREA	HDG/SS			NOTE 1 NOTE 4
3	TIE FOR CABLE TAG IN EXTERNAL AREA	HDG/SS			
4	CABLE TAG FOR INTERNAL AREA	PVC			NOTE 1 NOTE 5
5	TIE FOR CABLE TAG IN INTERNAL AREA	NYLON 6.6			
6	CORE FERRULES	PVC			

NOTES:

1) ALL CABLES SHALL BE IDENTIFIED AT EACH TERMINATION AND EACH SIDE OF ANY OBSTACLE (E.G. CABLE TRANSIT ON WALLS INSIDE SHELTER AND FLOOR DECK CROSSING, BY THEIR RESPECTIVE TAGS/NUMBERS, AS INDICATED ON THE CABLE SCHEDULE.
CABLE IDENTIFICATION SHALL BE ALSO DONE BELOW AND IN THE SWITCHBOARD CABLE COMPARTMENT.

2) CABLE CORE FERRULES SHALL BE FITTED AT EVERY TERMINATION. THESE FERRULES SHALL BE OF ENGRAVED PLASTIC SLIP ON, INTERLOCKED AND SELF GRIP TYPE.

3) ON CABLE TRAYS OR LADDERS, CABLES SHALL BE IDENTIFIED AT EACH END, AND EVERY 25 METERS.

4) THE CABLE TAG FOR EXTERNAL AREA SHALL DONE BY 316L STAINLESS STEEL LABELS, TAG (H=5mm) SHALL BE LASER PRINTED PREFERABLY OR EMBOSSED, LABEL HELD BY TWO 316L STAINLESS STEEL TIES.

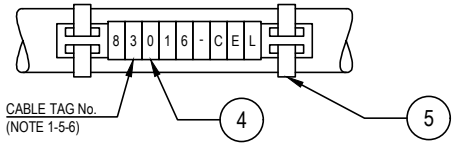
5) THE CABLE TAG FOR INTERNAL AREA SHALL BE DONE BY ENGRAVED PLASTIC SLIP ON CHARACTERS ONTO PLASTIC TIE, BLACK LETTER (H=5mm) ON WHITE.

6) CABLE AND CONDUCTOR TAG ARE INDICATIVE ONLY.

7) WITHIN TECHNICAL BUILDING, PROTECTIVE CONDUCTOR SHALL BE TAGGED BETWEEN FOLLOWING ITEMS:
- PANEL (SWITCHBOARD, SWITCHGEAR, DISTRIBUTION BOARD, ETC) AND EARTH BAR
- EARTH BAR AND EARTH BOSS

8) ONLY IF NECESSARY, SHRINK TUBES OF THE APPROPRIATE COLOR WILL BE INSTALLED TO COVER THE WRONG CONDUCTOR COLOR, THIS WILL BE PERFORMED IN EACH SIDE OF THE CABLES WHERE NECESSARY.

POWER CABLE TAG FOR INTERNAL AREA



VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DD-20092**

REV.:	DATE:	SIGNATURE:
2_D	20/12/24	V.Ramponi

ROSETTI MARINO SpA

CROSSWIND

ROSETTI MARINO

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	28/08/24	GRA	AMA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	04/07/24	NLK	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	21/11/23	SPS	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL TYPICAL INSTALLATION DETAILS-POWER SYSTEM & CABLE INSTALLATION
CABLES INSTALLATION SYSTEM IDENTIFICATION FOR POWER CABLES

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK | SCALE : NTS

A3 | DRAWING NO. 123A90-DDL-EL-DD-20092 | SHEET 007 | REV. 02

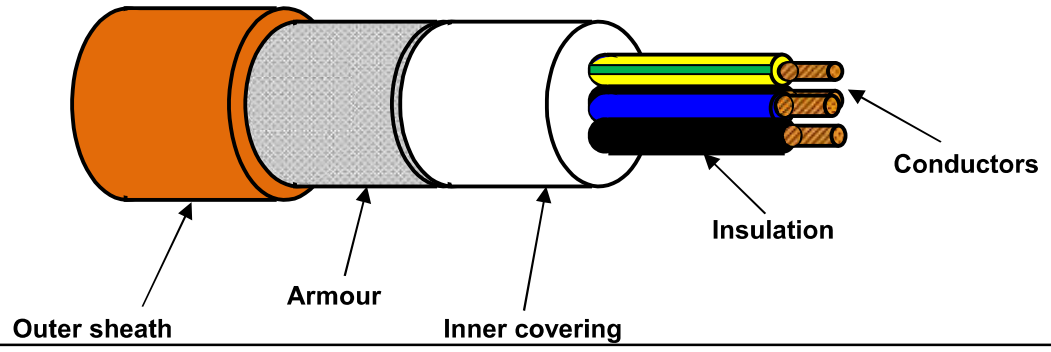
F.to UNI A3: 420mmx297mm

File Name : 123A90-DDL-EL-DD-20092 REV.02.DWG

Tag Number	Category	Discipline	Eng Status	NativeDoc	Layout	Parent Tag	Main Function	Secondary Function	Area	From Tag	From Main Function	From Area	To Tag	To Main Function	To Area	Material ID	Material Desc.	Gland Standard	From Gland	From Entry	From Fitting	To Gland	To Entry	To Fitting	Routing	Routing Manual
P-ELF-200N1-02-L1-08	Cable	LSP	VFC	123A90-DDL-EL-LIS-20148						EJB-200N1-02-L1-06	Normal Lighting JB	Upper Deck	ELF-200N1-02-L1-08	Normal Lighting Fixture	Upper Deck	ELECV19-3G2,5	Cable Cu Cl.2/MGT/EPR/LSZH/GSWB/LSZH 0,6/1kV 3G2,5mm² - Orange	M20	T2_M20_Double			T2_M20_Double				L-50-102-LVT-048

Cu Cl.2/MGT/EPR/LSZH/GSWB/LSZH 0,6/1 KV

3G2,5 - L.V. POWER CABLE - Fire Resistant & Flame Retardant - ARMOURED



TECHNICAL FEATURES

Conductors :	**STRANDED** plain/bare annealed copper wires	IEC 60228 Class 2
Insulation :	Mica/Glass Tape (MGT) plus EPR compound, quality to IEC 60092.360, Nominal Thickness 1,0 mm	
Cores colour code :	**Brown - Blue - Yellow/Green**	
Pair Assembling :	Not required	
Pair Wrapping:	Not required	
Drain wire :	Not required	
Pair Shield :	Not required	
Shield Insulation :	Not Required	
Total Assembling :	Cores layed up with optimal lay length	
Overall Wrapping:	Not required	
Drain wire :	Not required	
Overall Shield:	Not required	
Inner covering :	Extruded LSZH compound, Average Thickness 1,0 mm	
Inner covering color code:	**Black or Natural**	
Armour :	**Galvanized Steel Wire Braid Armour (coverage ≥ 90%)**	
Outer sheath :	Extruded LSZH Thermoplastic Compound (O.I. ≥ 30%), type **SHF1** to IEC 60093.360, Average Thickness 1,3 mm	
Outer sheath color code:	**Orange**	
Outer printing (INKJET) :	**FLEI - ELECTRIC CABLE - 1000V - 3G2,5 SQMM - MGT/EPR/LSZH/GSWB/LSZH - 0,6/1 KV - IEC 60331.21 - IEC 60332.1.2 - IEC 60332.3.22 - Year of Manufacture - CE + Meter Marking**	
Under Armour diameter :	(11,7 ± 10%) mm	
Over Armour diameter :	(12,9 ± 10%) mm	
Outer diameter :	(15,5 ± 10%) mm	
Bending radius :	cable outer diameter x 10	(in fixed installation)
Voltage test :	3,5 kV a.c. for 5' (Between Cores - Armour)	
Conductors DC Resistance :		IEC 60228 Class 2
Insulation Resistance :	≥ 940 MΩ x Km (@ 20°C)	
Applicable Standards		
Design Guidelines :	**IEC 60092.353**	
ON COMPLETE CABLE		
Fire Resistant test :	**IEC 60331.21**	
Flame Retardant test :	IEC 60332.1.2 - IEC 60332.3.22	
Acid Gas generation :	IEC 60754.1/2	
Smoke density/Light Transmittance	IEC 61034.2 (LT ≥ 60%)	
Temperature Range :		
ON INSULATION	(max +90°C)	(max continuous operation temperature of conductors)
	(max +250°C)	(max conductors temperature during short-circuit for 5 seconds)
ON COMPLETE CABLE		
During Operation :	(-20°C up to +90°C)	(in fixed installation)
During installation :	(- 5°C up to +50°C)	
Note :	**To meet the requirements of installation and use in Zone 1 & Zone 2 (IEC 60079-14) and "Gas & Vapour Tight" the cable must be provided with Penetrating Inner covering together with correct ATEX approved equipment or accessories.**	

Office	Date	Sign	Rev.	Date	Sign
Drawn by :	29/03/2024	Messa			
Checked :	29/03/2024	Spaccasassi			
Approved :	29/03/2024	Cucinotta			

The data provided, lending assent for the treatment, will be used to the sense of the article 13 of of the Regulation (UE) 2016/679, also through outsiders, in order to allow the realization of the fulfilments informatives, administrative, commercial and accounting related to the contractual relationship. Integral copy of the informative could be requested at our offices.

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ITEM	Tag	P-EJB-200N1-02-L1-07	: Normal Lighting JB / Normal Lighting JB			Dwg	123A90-DDL-EL-LIS-20148
	S/Sys	83-40	: Normal Lighting Upper Deck			Module	UD
TASK	code	C10000674		Location	Onshore Activities	User	Rosetti Marino Quality Control
FORM	Process	MC	Activity CCK	Discipline	Electrical	Form	CPX09 LV Power Cable

CABLE DATA

Type Cu Cl.2/MGT/EPR/LSZH/GSWB/LSZH Cores/Size mm² 4G4 mm2 Color ORANGE

From EJB-200N1-02-L1-02 To EJB-200N1-02-L1-07

1	Confirm cable is as specified in project cable schedule	OK
2	Visual Check cable physical integrity.	OK
3	Check is installed in accordance with layout drawing (segregation, distance…).	OK
4	Check cable is supported and fixed to rack according to project specification.	NA
5	Check bending radius is within the specified limits.	OK
6	Confirm cable glands suit for cable type, correctly mounted and tightened.	OK
7	Check gland plate for single core cables is non ferrous (non -magnetic).	NA
8	Confirm cable labelling is in accordance with specifications.	OK
9	Check cable is correctly loomed and segregated in accordance with specification.	OK
10	Check cable earthing against lastest drawings.	OK
11	Check cores marking are in accordance with termination diagram	OK
12	Check terminations are in accordance with latest termination diagram	OK
13	If required produce Red Line Mark Up for "AS BUILT"	

ROSETTI MARINO PROVERLIS CROSSWIND

ITEM	Tag	P-EJB-200N1-02-L1-07	: Normal Lighting JB / Normal Lighting JB			Dwg	123A90-DDL-EL-LIS-20148
	S/Sys	83-40	: Normal Lighting Upper Deck			Module	UD
TASK	code	C10000674		Location	Onshore Activities	User	Rosetti Marino Quality Control
FORM	Process	MC	Activity CCK	Discipline	Electrical	Form	CPX09 LV Power Cable

	CONTINUITY			
5	CORE CONTINUITY Ω	PH 1	0,5	
6		PH 2	0,5	
7		PH 3	0,5	
8	ARMOUR CONTINUITY Ω		0,5	
9	PROTECTIVE CONDUCTOR CONTINUITY Ω		0,5	
	INSULATION			
10	CORES / ARMOUR+EARTH MΩ	PH1 / PH2-PH3-A-E	>999	
11		PH2 / PH1-PH3-A-E	>999	
12		PH3 / PH1-PH2-A-E	>999	
13	CABLE IS CORRECTLY RE-CONNECTED.		Yes	

TESTING INSTRUMENTS USED

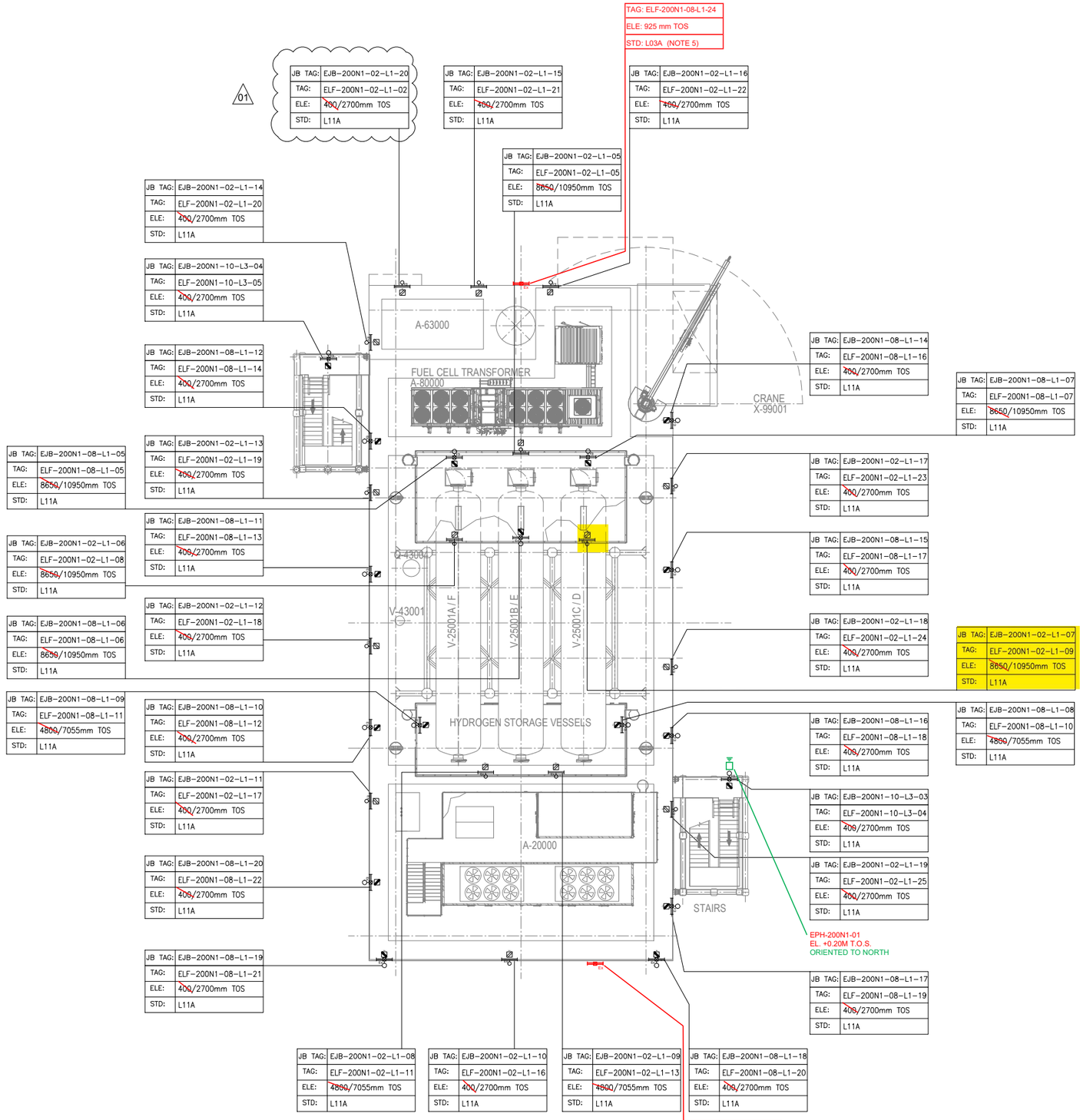
TYPE / SERIAL N° :	MEGGER : KEW3125A SERIAL: W8330207	TYPE / SERIAL N° :	MULTIMETER: FLUKE 175 SERIAL:AW1/018(17140769)
Calibration certificate N° and date:	N°7722/24 _ 10/07/2024	Calibration certificate N° and date:	N°7715/24 _ 10/07/2024

Comments: Nota 4: refer to PL C30000679

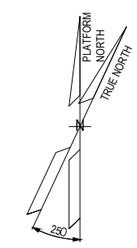
	Performed by	● WITNESS ☐ REVIEW	☐ WITNESS ☐ REVIEW
Company	ICS IMPIANTI	RM(ROSETTI MARINO)	
Name	Michele Tartaglia	Giovanni Tangianu	
Date	2025-01-08	2025-01-25	
Signature	PROVERLIS Digitaly signed by Michele Tartaglia 2025-01-08T09:56:20.894Z	PROVERLIS Digitaly signed by Giovanni Tangianu 2025-01-25T11:50:52.554Z	

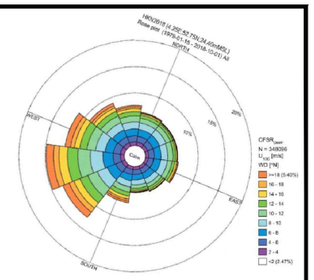
DRAWING NO. 123A90-DDL-EL-DL-20118

REV. 01



PLAN ON UPPER DECK
EL+30.310 T.O.S.





NOTES

1. ALL DIMENSIONS AND ELEVATIONS ARE GIVEN IN mm UNLESS OTHERWISE NOTED.
2. ELEVATIONS REFER TO T.O.S.
3. ELEVATION OF THE LAMPS ARE REFFERED TO THE BOTTOM OF THE LAMP.
4. FOR THE ELEVATION OF JB, REFER TO THE TYPICAL INSTALLATION.
5. FOR ELF-200N1-08-L1-24 AND ELF-200N1-08-L1-25 CONSTRUCTION DETAILS REFER TO DOC. 123A90-DDL-ST-DD-90076

LEGEND

- EMERGENCY LIGHTING JB
- 60W LED EMERGENCY LUMINARIES
- 60W LED EMERGENCY LUMINARIES FIXTURE POLE MOUNTED
- NORMAL LIGHTING JB
- 45W LED NORMAL LUMINARIES
- 45W LED NORMAL LUMINARIES FIXTURE POLE MOUNTED
- WELDING SOCKET WITH INTEGRATED JB
- SMALL POWER SOCKET WITH INTEGRATED JB
- TWILIGHT RELAY SENSOR

JB TAG:	JB-TAG
TAG:	TAG
ELE:	ELEVATION
STD:	STANDARD

REFERENCE DOCUMENTS

123A90-DDL-PP-DL-70070	PLOT PLAN - LOWER & UPPER DECK
123A90-DDL-EL-DL-20100	ELECTRICAL EQUIPMENT LAYOUT - TOP DECK
123A90-DDL-EL-DD-20091	ELECTRICAL TYPICAL INSTALLATION DETAILS - LIGHTING SYSTEM
123A90-DDL-EL-DD-20092	ELECTRICAL TYPICAL INSTALLATION DETAILS - POWER SYSTEM & CABLE INSTALLATION
123A90-DDL-EL-RE-20153	LIGHTING CALCULATION STUDY REPORT
123A90-DDL-ST-DD-90076	IDENTIFICATION PANELS ASSEMBLY AND DETAILS

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	02/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	28/05/24	ASR	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DL-20118**

REV.:	DATE:	SIGNATURE:
1_F	26/11/24	G.Randi

ROSETTI MARINO SpA

CROSSWIND | ROSETTI MARINO

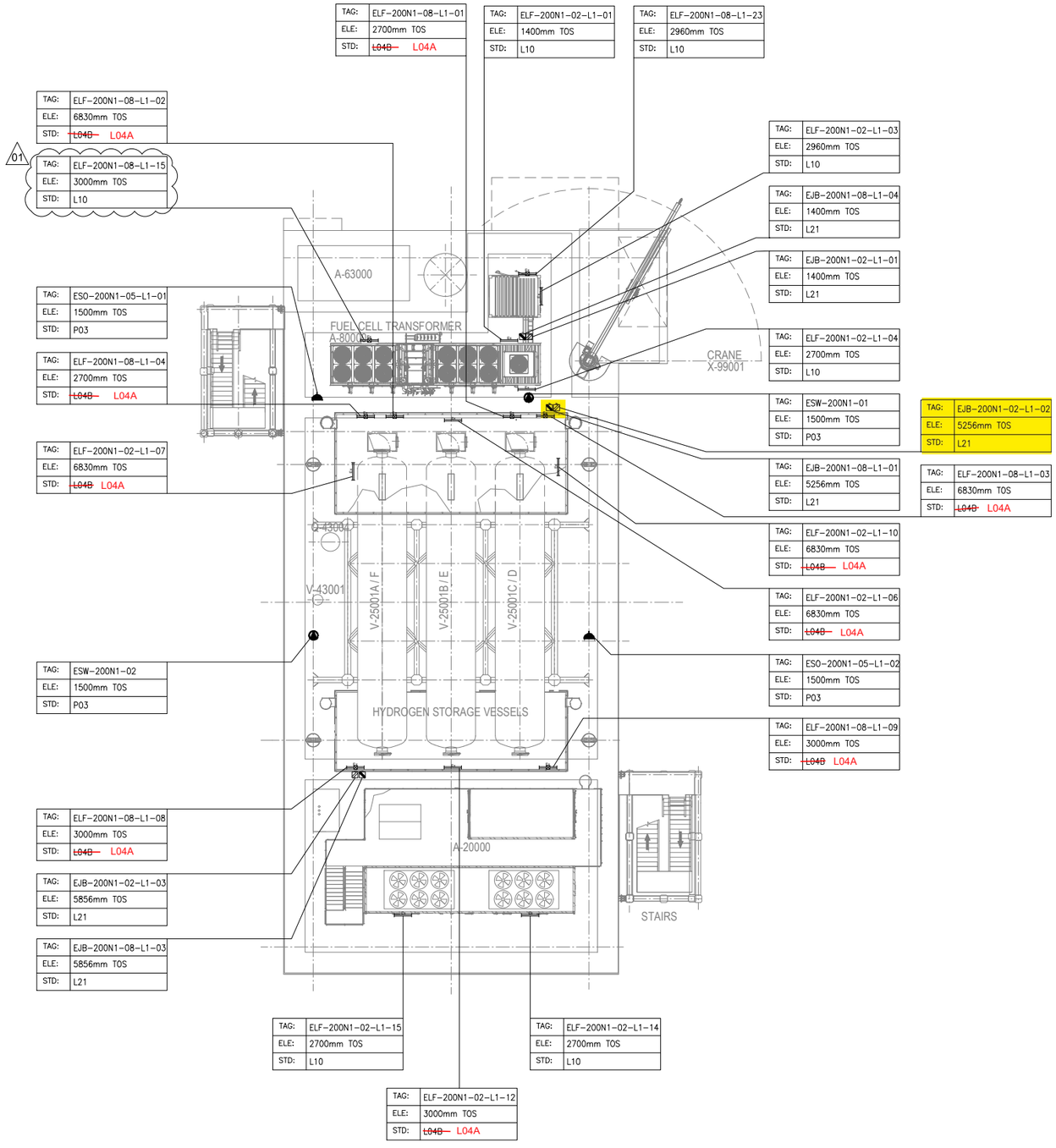
TITLE : BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET LAYOUT – TOP DECK

CONTRACT NO./TITLE CW-1-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK			SCALE 1:150
DRAWN ASR	CHECKED FMA/AMA	APPROVED FPA/DLO	DATE 01/08/24
A1	DRAWING NO. 123A90-DDL-EL-DL-20118	SHEET 1of2	REV. 01

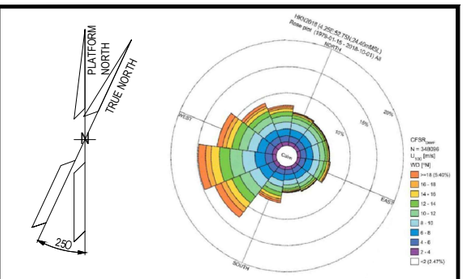
File Name : 123A90-DDL-EL-DL-20118

DRAWING NO. 123A90-DDL-EL-DL-20118

REV. 01



PLAN ON UPPER DECK
EL+30.310 T.O.S.



NOTES

1. ALL DIMENSIONS AND ELEVATIONS ARE GIVEN IN mm UNLESS OTHERWISE NOTED.
2. ELEVATIONS REFER TO T.O.S.
3. ELEVATION OF THE LAMPS ARE REFFERED TO THE BOTTOM OF THE LAMP.
4. FOR THE ELEVATION OF JB, REFER TO THE TYPICAL INSTALLATION.

LEGEND

- EMERGENCY LIGHTING JB
- 60W LED EMERGENCY LUMINARIES
- 60W LED EMERGENCY LUMINARIES FIXTURE POLE MOUNTED
- NORMAL LIGHTING JB
- 45W LED NORMAL LUMINARIES
- 45W LED NORMAL LUMINARIES FIXTURE POLE MOUNTED
- WELDING SOCKET WITH INTEGRATED JB
- SMALL POWER SOCKET WITH INTEGRATED JB

JB TAG:	JB-TAG
TAG:	TAG
ELE:	ELEVATION
STD:	STANDARD

REFERENCE DOCUMENTS

123A90-DDL-PP-DL-70070	PLOT PLAN - LOWER & UPPER DECK
123A90-DDL-EL-DL-20100	ELECTRICAL EQUIPMENT LAYOUT - TOP DECK
123A90-DDL-EL-DD-20091	ELECTRICAL TYPICAL INSTALLATION DETAILS - LIGHTING SYSTEM
123A90-DDL-EL-DD-20092	ELECTRICAL TYPICAL INSTALLATION DETAILS - POWER SYSTEM & CABLE INSTALLATION
123A90-DDL-EL-RE-20153	LIGHTING CALCULATION STUDY REPORT
123A90-DDL-ST-DD-90076	IDENTIFICATION PANELS ASSEMBLY AND DETAILS

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	02/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	28/05/24	ASR	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DL-20118**

REV.:	DATE:	SIGNATURE:
1_F	26/11/24	G.Randi

ROSETTI MARINO SpA

CROSSWIND

ROSETTI MARINO

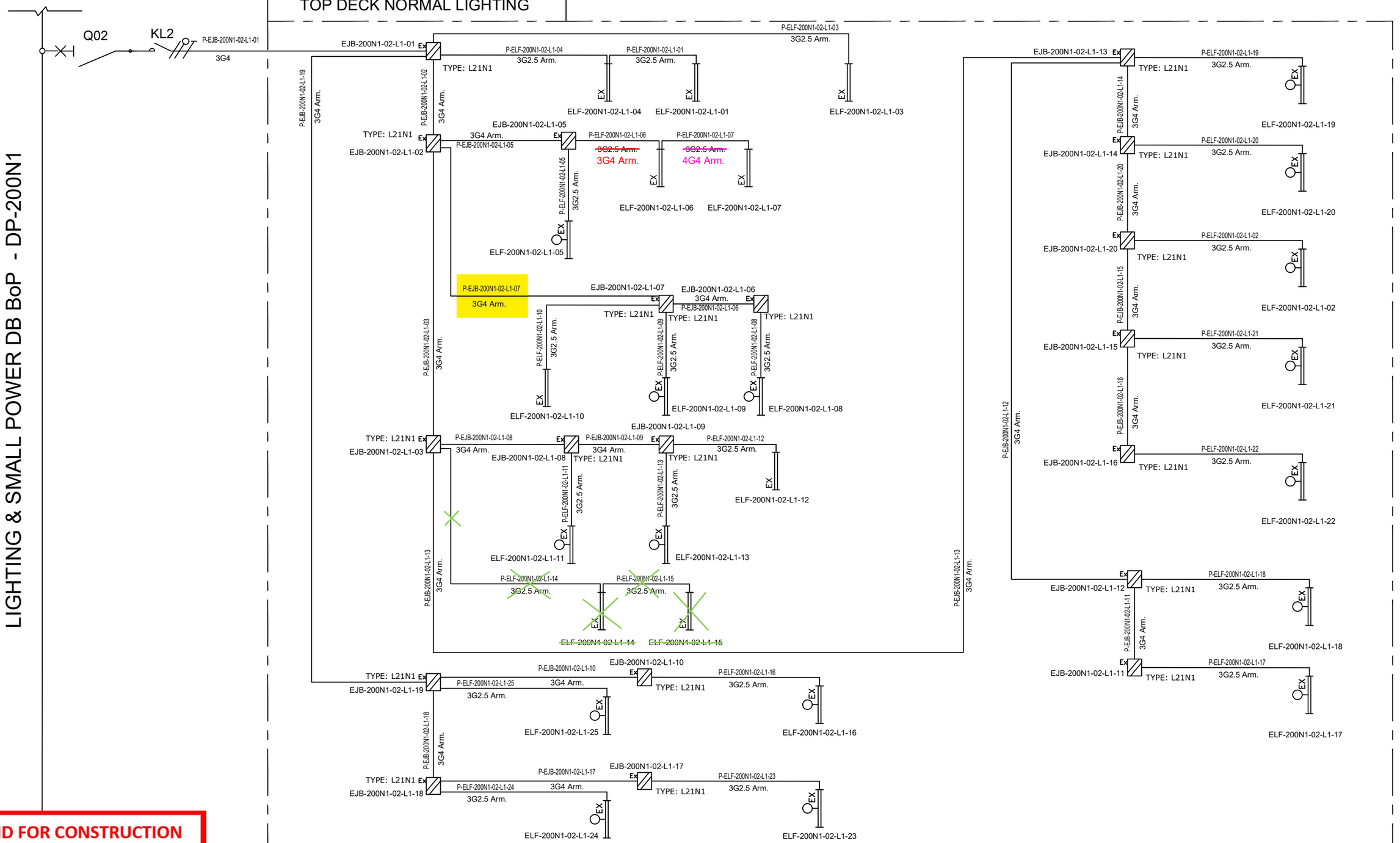
TITLE :
BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET LAYOUT – TOP DECK

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK		SCALE 1:150	
DRAWN ASR	CHECKED FMA/AMA	APPROVED FPA/DLO	DATE 01/08/24
A1	DRAWING NO. 123A90-DDL-EL-DL-20118	SHEET 2of2	REV. 01

File Name : 123A90-DDL-EL-DL-20118

LIGHTING & SMALL POWER DB BoP - DP-200N1

TOP DECK NORMAL LIGHTING



VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DG-20125**

REV.:	DATE:	SIGNATURE:
2_G	16/01/25	G.Randi

ROSETTI MARINO SpA

CROSSWIND

ROSETTI MARINO

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	08/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	01/07/24	ASR	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

TITLE : BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET CIRCUIT DIAGRAM
TOP DECK–NORMAL LIGHTING

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE : NTS

A3

DRAWING NO. 123A90–DDL–EL–DG–20125

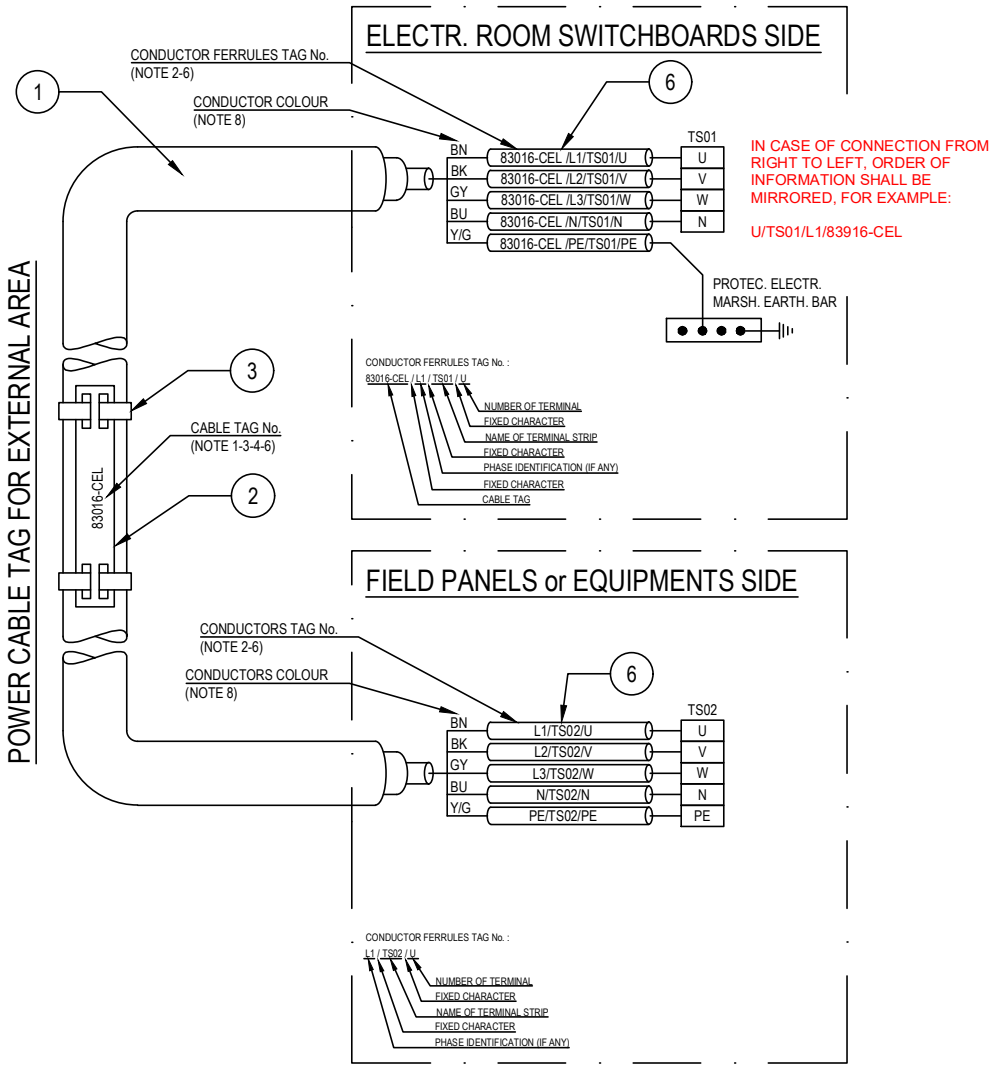
SHEET 010

REV. 01

F.to UNI A3: 420mmx297mm

File Name : 123A90–DDL–EL–DG–20125

C02



POS.	DESCRIPTION	MATERIAL	SIZE	Q.TY	NOTE
1	UNARMOURED CABLE				
2	CABLE TAG FOR EXTERNAL AREA	HDG/SS			NOTE 1 NOTE 4
3	TIE FOR CABLE TAG IN EXTERNAL AREA	HDG/SS			
4	CABLE TAG FOR INTERNAL AREA	PVC			NOTE 1 NOTE 5
5	TIE FOR CABLE TAG IN INTERNAL AREA	NYLON 6.6			
6	CORE FERRULES	PVC			

NOTES:

1) ALL CABLES SHALL BE IDENTIFIED AT EACH TERMINATION AND EACH SIDE OF ANY OBSTACLE (E.G. CABLE TRANSIT ON WALLS INSIDE SHELTER AND FLOOR DECK CROSSING, BY THEIR RESPECTIVE TAGS/NUMBERS, AS INDICATED ON THE CABLE SCHEDULE.
CABLE IDENTIFICATION SHALL BE ALSO DONE BELOW AND IN THE SWITCHBOARD CABLE COMPARTMENT.

2) CABLE CORE FERRULES SHALL BE FITTED AT EVERY TERMINATION. THESE FERRULES SHALL BE OF ENGRAVED PLASTIC SLIP ON, INTERLOCKED AND SELF GRIP TYPE.

3) ON CABLE TRAYS OR LADDERS, CABLES SHALL BE IDENTIFIED AT EACH END, AND EVERY 25 METERS.

4) THE CABLE TAG FOR EXTERNAL AREA SHALL DONE BY 316L STAINLESS STEEL LABELS, TAG (H=5mm) SHALL BE LASER PRINTED PREFERABLY OR EMBOSSED, LABEL HELD BY TWO 316L STAINLESS STEEL TIES.

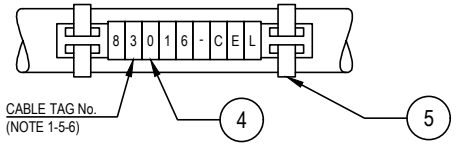
5) THE CABLE TAG FOR INTERNAL AREA SHALL BE DONE BY ENGRAVED PLASTIC SLIP ON CHARACTERS ONTO PLASTIC TIE, BLACK LETTER (H=5mm) ON WHITE.

6) CABLE AND CONDUCTOR TAG ARE INDICATIVE ONLY.

7) WITHIN TECHNICAL BUILDING, PROTECTIVE CONDUCTOR SHALL BE TAGGED BETWEEN FOLLOWING ITEMS:
- PANEL (SWITCHBOARD, SWITCHGEAR, DISTRIBUTION BOARD, ETC) AND EARTH BAR
- EARTH BAR AND EARTH BOSS

8) ONLY IF NECESSARY, SHRINK TUBES OF THE APPROPRIATE COLOR WILL BE INSTALLED TO COVER THE WRONG CONDUCTOR COLOR, THIS WILL BE PERFORMED IN EACH SIDE OF THE CABLES WHERE NECESSARY.

POWER CABLE TAG FOR INTERNAL AREA



VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DD-20092**

REV.:	DATE:	SIGNATURE:
2_D	20/12/24	V.Ramponi

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ROSETTI MARINO

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	28/08/24	GRA	AMA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	04/07/24	NLK	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	21/11/23	SPS	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL TYPICAL INSTALLATION DETAILS-POWER SYSTEM & CABLE INSTALLATION
CABLES INSTALLATION SYSTEM IDENTIFICATION FOR POWER CABLES

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK | SCALE : NTS

A3 | DRAWING NO. 123A90-DDL-EL-DD-20092 | SHEET 007 | REV. 02

F.to UNI A3: 420mmx297mm

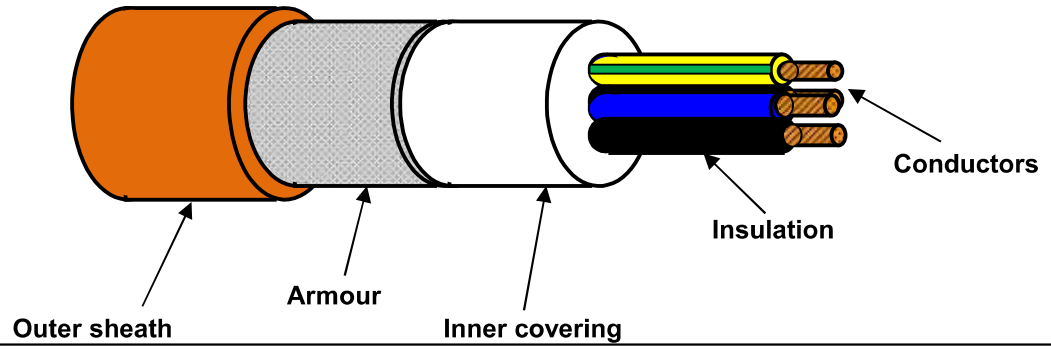
File Name : 123A90-DDL-EL-DD-20092 REV.02.DWG

Tag Number	Info	Category	Discipl	Eng Status	NativeDoc	Service	Entity Type	Main Function	Module	Area	From Tag	From Main Fun	From Tag Section	To Tag	To Main Func	To Tag Sectio	Material ID	Material Desc.	Gland St	From Gland	From Entry	From Fitting	To Gland	To Entry	To Fitting	Routing	Routing Manual
P-EJB-200N1-02-L1-07		Cable	LSP	VFC	123A90-DDL-EL-LIS-20148						EJB-200N1-02-L1-02	Normal Lighting JB		EJB-200N1-02-L1-07	Normal Lighting JB		ELECV21-4G4_E	Cable Cu Cl.2/MGT/EPR/LSZH/GSWB/LSZH 0,6/1kV 4G4mm^2_E - Orange	M25S	T2_M25S_Double	M25		T2_M25S_Double	M25				L-150-102-LVT-014 / L-150-102-LVT-010 / L-300-102-LVT-009 / L-150-102-LVT-012

FLEI s.r.l.

Cu Cl.2/MGT/EPR/LSZH/GSWB/LSZH 0,6/1 KV

4G4_E - L.V. POWER CABLE - Fire Resistant & Flame Retardant - ARMOURED



TECHNICAL FEATURES

Conductors :	**STRANDED** plain/bare annealed copper wires	IEC 60228 Class 2
Insulation :	Mica/Glass Tape (MGT) plus EPR compound, quality to IEC 60092.360, Nominal Thickness 1,0 mm	
Cores colour code :	**Black - Brown - Blue - Yellow/Green**	
Pair Assembling :	Not required	
Pair Wrapping:	Not required	
Drain wire :	Not required	
Pair Shield :	Not required	
Shield Insulation :	Not Required	
Total Assembling :	Cores layed up with optimal lay length	
Overall Wrapping:	Not required	
Drain wire :	Not required	
Overall Shield:	Not required	
Inner covering :	Extruded LSZH compound, Average Thickness 1,0 mm	
Inner covering color code:	**Black or Natural**	
Armour :	**Galvanized Steel Wire Braid Armour (coverage ≥ 90%)**	
Outer sheath :	Extruded LSZH Thermoplastic Compound (O.I. ≥ 30%), type **SHF1** to IEC 60092.360, Average Thickness 1,4 mm	
Outer sheath color code:	**Orange**	
Outer printing (INKJET) :	**FLEI - ELECTRIC CABLE - 1000V - 4G4 SQMM - MGT/EPR/LSZH/GSWB/LSZH - 0,6/1 KV - IEC 60331.21 -**	
	IEC 60332.1.2 - IEC 60332.3.22 - Year of Manufacture - CE + Meter Marking	
Under Armour diameter :	(14,3 ± 10%) mm	
Over Armour diameter :	(15,5 ± 10%) mm	
Outer diameter :	(18,3 ± 10%) mm	
Bending radius :	cable outer diameter x 10	(in fixed installation)
Voltage test :	3,5 kV a.c. for 5' (Between Cores - Armour)	
Conductors DC Resistance :		IEC 60228 Class 2
Insulation Resistance :	≥ 790 MΩ x Km (@ 20°C)	
Applicable Standards		
Design Guidelines :	**IEC 60092.353**	
ON COMPLETE CABLE		
Fire Resistant test :	**IEC 60331.21**	
Flame Retardant test :	IEC 60332.1.2 - IEC 60332.3.22	
Acid Gas generation :	IEC 60754.1/2	
Smoke density/Light Transmittance	IEC 61034.2 (LT ≥ 60%)	
Hazardous Areas :	IEC 60079.14:2013 par.9.3.2a	
Temperature Range :		
ON INSULATION	(max +90°C)	(max continuous operation temperature of conductors)
	(max +250°C)	(max conductors temperature during short-circuit for 5 seconds)
ON COMPLETE CABLE		
During Operation :	(-20°C up to +90°C)	(in fixed installation)
During installation :	(- 5°C up to +50°C)	
Note :	**To meet the requirements of installation and use in Zone 1 & Zone 2 (IEC 60079-14) and "Gas & Vapour Tight"**	
	the cable must be provided with Penetrating Inner covering together with correct ATEX approved	
	equipment or accessories.	

Office	Date	Sign	Rev.	Date	Sign
Drawn by :	29/03/2024	Messa			
Checked :	29/03/2024	Spaccasassi			
Approved :	29/03/2024	Cucinotta			

The data provided, lending assent for the treatment, will be used to the sense of the article 13 of of the Regulation (UE) 2016/679, also through outsiders, in order to allow the realization of the fulfilments informatives, administrative, commercial and accounting related to the contractual relationship. Integral copy of the informative could be requested at our offices.

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ITEM	Tag	P-ELF-200N1-02-L1-09	: Normal Lighting JB / Normal Lighting Fixture			Dwg	123A90-DDL-EL-LIS-20148
	S/Sys	83-40	: Normal Lighting Upper Deck			Module	UD
TASK	code	C10000675		Location	Onshore Activities	User	Rosetti Marino Quality Control
FORM	Process	MC	Activity CCK	Discipline	Electrical	Form	CPX09 LV Power Cable

CABLE DATA

Type Cu Cl.2/MGT/EPR/LSZH/GSWB/LSZH Cores/Size mm² 3G2,5 mm2 Color ORANGE

From EJB-200N1-02-L1-07 To ELF-200N1-02-L1-09

1	Confirm cable is as specified in project cable schedule	OK
2	Visual Check cable physical integrity.	OK
3	Check is installed in accordance with layout drawing (segregation, distance…).	OK
4	Check cable is supported and fixed to rack according to project specification.	Note
5	Check bending radius is within the specified limits.	OK
6	Confirm cable glands suit for cable type, correctly mounted and tightened.	OK
7	Check gland plate for single core cables is non ferrous (non -magnetic).	NA
8	Confirm cable labelling is in accordance with specifications.	OK
9	Check cable is correctly loomed and segregated in accordance with specification.	OK
10	Check cable earthing against lastest drawings.	OK
11	Check cores marking are in accordance with termination diagram	OK
12	Check terminations are in accordance with latest termination diagram	OK
13	If required produce Red Line Mark Up for "AS BUILT"	

ROSETTI MARINO | PROVERLIS | CROSSWIND

ITEM	Tag	P-ELF-200N1-02-L1-09	: Normal Lighting JB / Normal Lighting Fixture			Dwg	123A90-DDL-EL-LIS-20148
	S/Sys	83-40	: Normal Lighting Upper Deck			Module	UD
TASK	code	C10000675		Location	Onshore Activities	User	Rosetti Marino Quality Control
FORM	Process	MC	Activity CCK	Discipline	Electrical	Form	CPX09 LV Power Cable

	CONTINUITY			
5	CORE CONTINUITY Ω	PH 1	0,2	
6		PH 2	0,2	
7		PH 3	NA	
8	ARMOUR CONTINUITY Ω		0,2	
9	PROTECTIVE CONDUCTOR CONTINUITY Ω		0,2	
	INSULATION			
10	CORES / ARMOUR+EARTH MΩ	PH1 / PH2-PH3-A-E	>999	
11		PH2 / PH1-PH3-A-E	>999	
12		PH3 / PH1-PH2-A-E	NA	
13	CABLE IS CORRECTLY RE-CONNECTED.		Yes	

TESTING INSTRUMENTS USED

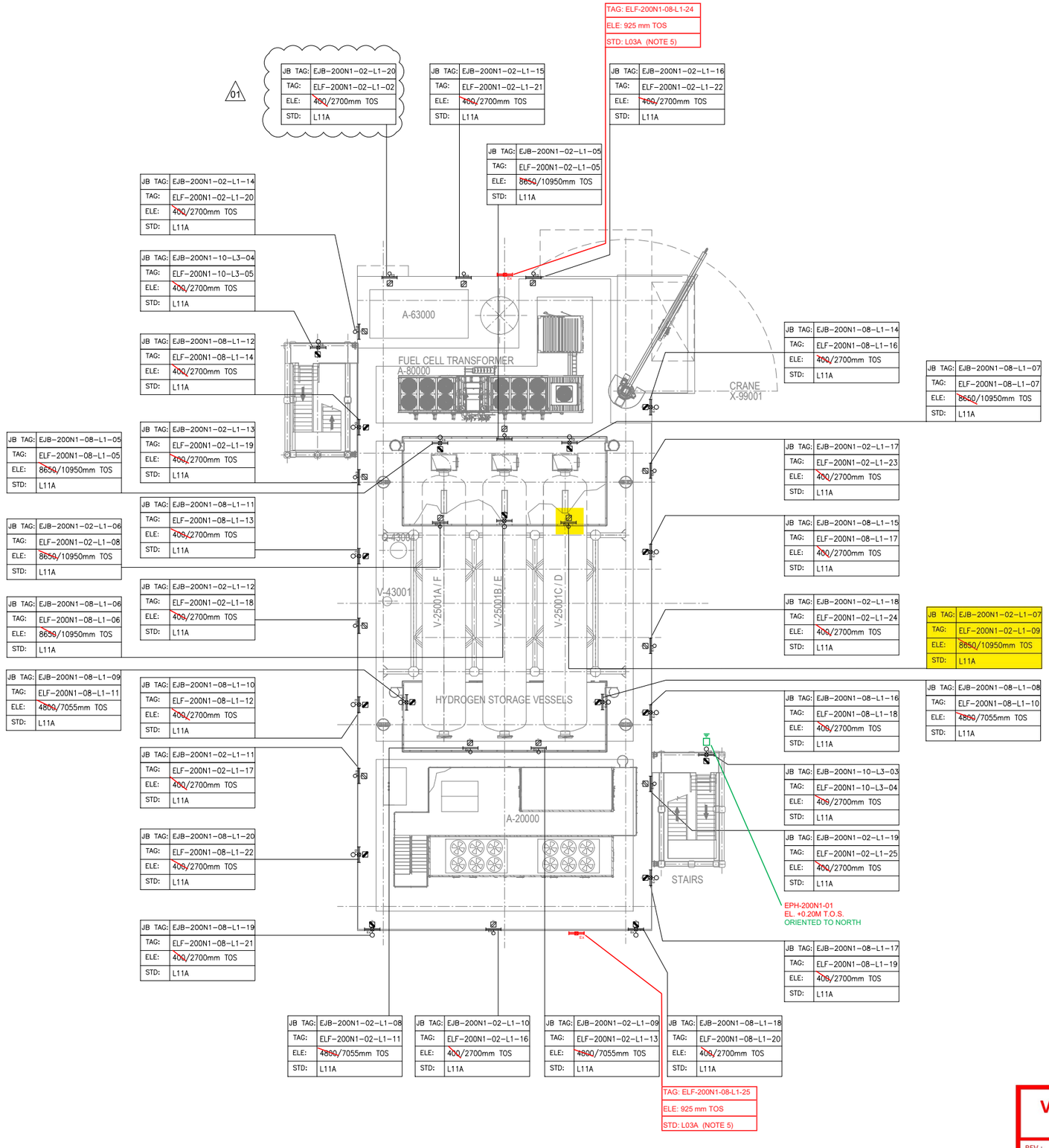
TYPE / SERIAL N° :	MULTIMETRO SIN-STRU-017 S/N:H240103023	TYPE / SERIAL N° :	MEGGER : KEW3125A SERIAL: W8330207
Calibration certificate N° and date:	12/10/2024	Calibration certificate N° and date:	N°7722/24 _ 10/07/2024

Comments: Nota 4: refer to PL C30000681

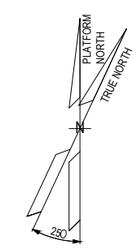
	Performed by	● WITNESS ☐ REVIEW	☐ WITNESS ☐ REVIEW
Company	ICS IMPIANTI	RM(ROSETTI MARINO)	
Name	Michele Tartaglia	Andrea Andreani	
Date	2025-01-08	2025-01-22	
Signature	PROVERLIS Digitaly signed by Michele Tartaglia 2025-01-08T09:56:33.019Z	PROVERLIS Digitaly signed by Andrea Andreani 2025-01-22T17:22:51.525Z	

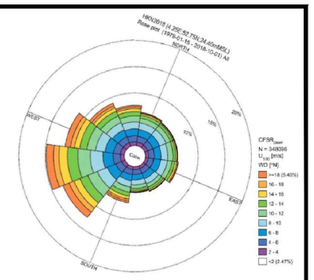
DRAWING NO. 123A90-DDL-EL-DL-20118

REV. 01



PLAN ON UPPER DECK
EL+30.310 T.O.S.





NOTES

1. ALL DIMENSIONS AND ELEVATIONS ARE GIVEN IN mm UNLESS OTHERWISE NOTED.
2. ELEVATIONS REFER TO T.O.S.
3. ELEVATION OF THE LAMPS ARE REFFERED TO THE BOTTOM OF THE LAMP.
4. FOR THE ELEVATION OF JB, REFER TO THE TYPICAL INSTALLATION.
5. FOR ELF-200N1-08-L1-24 AND ELF-200N1-08-L1-25 CONSTRUCTION DETAILS REFER TO DOC. 123A90-DDL-ST-DD-90076

LEGEND

- EMERGENCY LIGHTING JB
- 60W LED EMERGENCY LUMINARIES
- 60W LED EMERGENCY LUMINARIES FIXTURE POLE MOUNTED
- NORMAL LIGHTING JB
- 45W LED NORMAL LUMINARIES
- 45W LED NORMAL LUMINARIES FIXTURE POLE MOUNTED
- WELDING SOCKET WITH INTEGRATED JB
- SMALL POWER SOCKET WITH INTEGRATED JB
- TWILIGHT RELAY SENSOR

JB TAG:	JB-TAG
TAG:	TAG
ELE:	ELEVATION
STD:	STANDARD

REFERENCE DOCUMENTS

123A90-DDL-PP-DL-70070	PLOT PLAN - LOWER & UPPER DECK
123A90-DDL-EL-DL-20100	ELECTRICAL EQUIPMENT LAYOUT - TOP DECK
123A90-DDL-EL-DD-20091	ELECTRICAL TYPICAL INSTALLATION DETAILS - LIGHTING SYSTEM
123A90-DDL-EL-DD-20092	ELECTRICAL TYPICAL INSTALLATION DETAILS - POWER SYSTEM & CABLE INSTALLATION
123A90-DDL-EL-RE-20153	LIGHTING CALCULATION STUDY REPORT
123A90-DDL-ST-DD-90076	IDENTIFICATION PANELS ASSEMBLY AND DETAILS

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	02/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	28/05/24	ASR	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DL-20118**

REV.:	DATE:	SIGNATURE:
1_G	09/01/25	V.Ramponi

ROSETTI MARINO SpA

CROSSWIND | ROSETTI MARINO

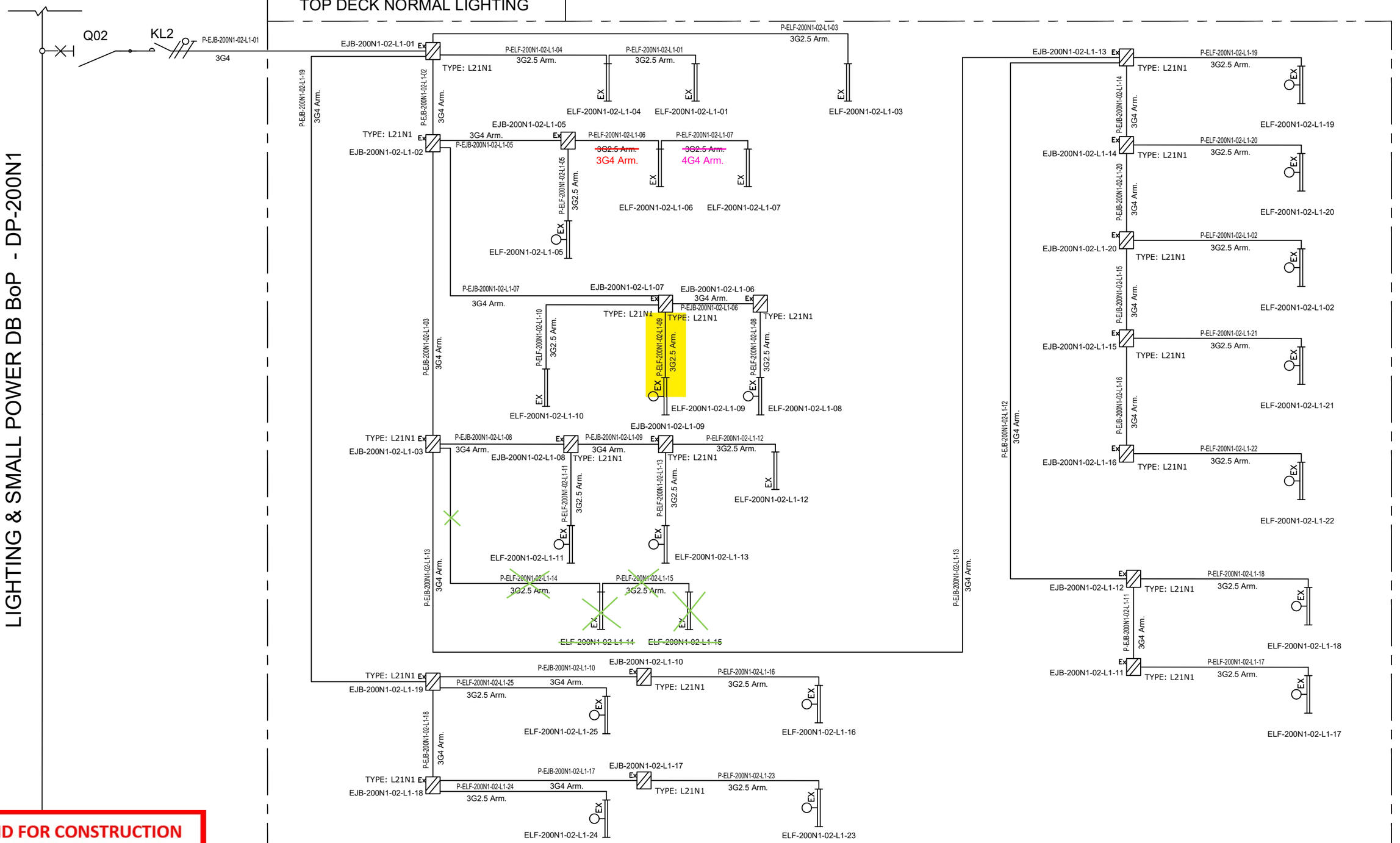
TITLE : BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET LAYOUT – TOP DECK

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK			SCALE 1:150
DRAWN ASR	CHECKED FMA/AMA	APPROVED FPA/DLO	DATE 01/08/24
A1	DRAWING NO. 123A90-DDL-EL-DL-20118	SHEET 1of2	REV. 01

File Name : 123A90-DDL-EL-DL-20118

LIGHTING & SMALL POWER DB BoP - DP-200N1

TOP DECK NORMAL LIGHTING



VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DG-20125**

REV.:	DATE:	SIGNATURE:
2_G	16/01/25	G.Randi

ROSETTI MARINO SpA

CROSSWIND

ROSETTI MARINO

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	08/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	01/07/24	ASR	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

TITLE : BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET CIRCUIT DIAGRAM
TOP DECK–NORMAL LIGHTING

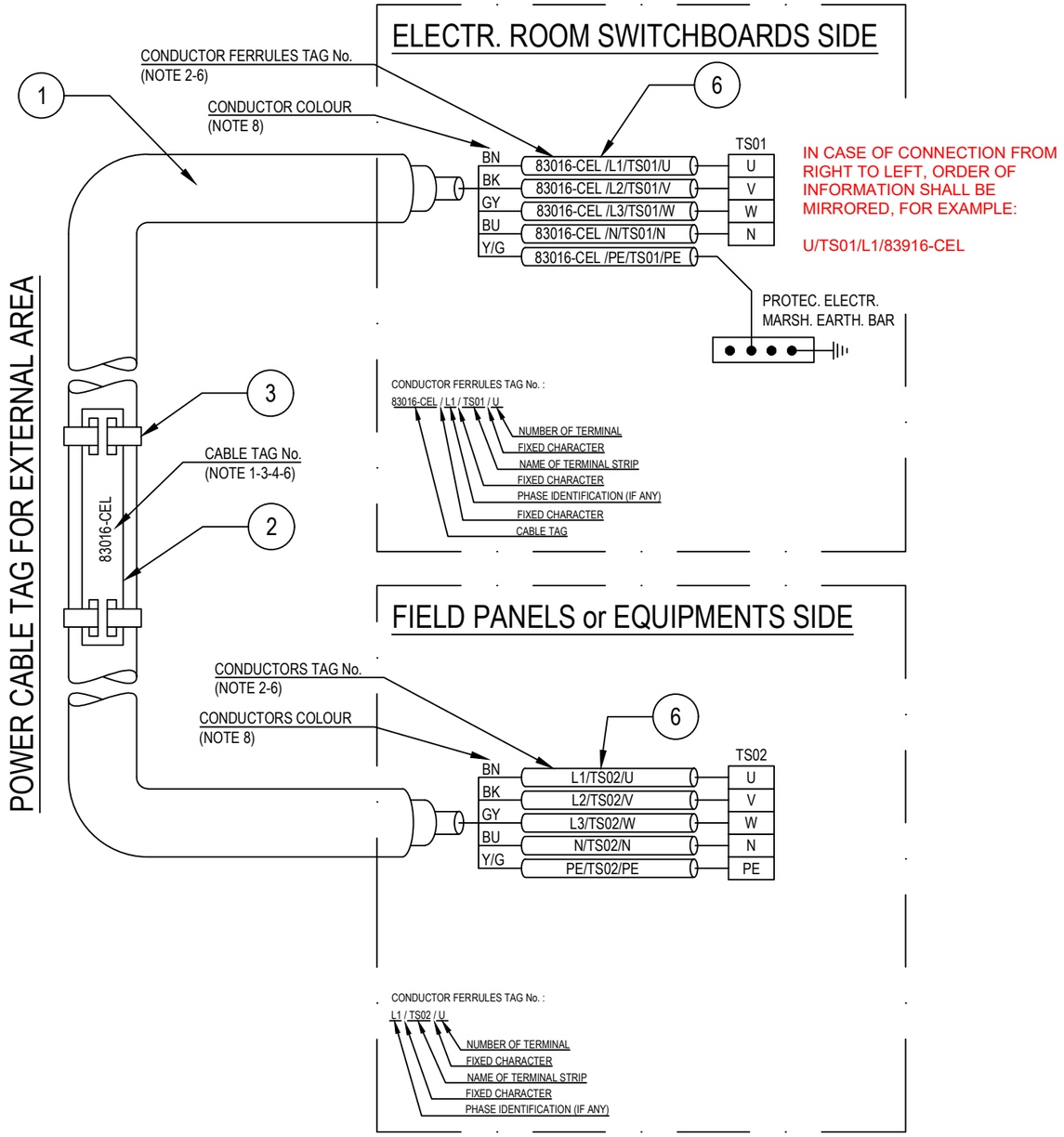
CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK | SCALE : NTS

A3 | DRAWING NO. 123A90–DDL–EL–DG–20125 | SHEET 010 | REV. 01

F.to UNI A3: 420mmx297mm

File Name : 123A90–DDL–EL–DG–20125

C02



POS.	DESCRIPTION	MATERIAL	SIZE	Q.TY	NOTE
1	UNARMOURED CABLE				
2	CABLE TAG FOR EXTERNAL AREA	HDG/SS			NOTE 1 NOTE 4
3	TIE FOR CABLE TAG IN EXTERNAL AREA	HDG/SS			
4	CABLE TAG FOR INTERNAL AREA	PVC			NOTE 1 NOTE 5
5	TIE FOR CABLE TAG IN INTERNAL AREA	NYLON 6.6			
6	CORE FERRULES	PVC			

NOTES:

1) ALL CABLES SHALL BE IDENTIFIED AT EACH TERMINATION AND EACH SIDE OF ANY OBSTACLE (E.G. CABLE TRANSIT ON WALLS INSIDE SHELTER AND FLOOR DECK CROSSING, BY THEIR RESPECTIVE TAGS/NUMBERS, AS INDICATED ON THE CABLE SCHEDULE.
CABLE IDENTIFICATION SHALL BE ALSO DONE BELOW AND IN THE SWITCHBOARD CABLE COMPARTMENT.

2) CABLE CORE FERRULES SHALL BE FITTED AT EVERY TERMINATION. THESE FERRULES SHALL BE OF ENGRAVED PLASTIC SLIP ON, INTERLOCKED AND SELF GRIP TYPE.

3) ON CABLE TRAYS OR LADDERS, CABLES SHALL BE IDENTIFIED AT EACH END, AND EVERY 25 METERS.

4) THE CABLE TAG FOR EXTERNAL AREA SHALL DONE BY 316L STAINLESS STEEL LABELS, TAG (H=5mm) SHALL BE LASER PRINTED PREFERABLY OR EMBOSSED, LABEL HELD BY TWO 316L STAINLESS STEEL TIES.

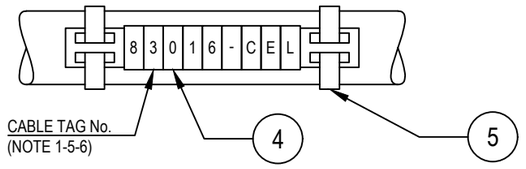
5) THE CABLE TAG FOR INTERNAL AREA SHALL BE DONE BY ENGRAVED PLASTIC SLIP ON CHARACTERS ONTO PLASTIC TIE, BLACK LETTER (H=5mm) ON WHITE.

6) CABLE AND CONDUCTOR TAG ARE INDICATIVE ONLY.

7) WITHIN TECHNICAL BUILDING, PROTECTIVE CONDUCTOR SHALL BE TAGGED BETWEEN FOLLOWING ITEMS:
- PANEL (SWITCHBOARD, SWITCHGEAR, DISTRIBUTION BOARD, ETC) AND EARTH BAR
- EARTH BAR AND EARTH BOSS

8) ONLY IF NECESSARY, SHRINK TUBES OF THE APPROPRIATE COLOR WILL BE INSTALLED TO COVER THE WRONG CONDUCTOR COLOR, THIS WILL BE PERFORMED IN EACH SIDE OF THE CABLES WHERE NECESSARY.

POWER CABLE TAG FOR INTERNAL AREA



VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DD-20092**

REV.:	DATE:	SIGNATURE:
2_D	20/12/24	V.Ramponi

ROSETTI MARINO SpA

CROSSWIND

ROSETTI MARINO

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	28/08/24	GRA	AMA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	04/07/24	NLK	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	21/11/23	SPS	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL TYPICAL INSTALLATION DETAILS-POWER SYSTEM & CABLE INSTALLATION
CABLES INSTALLATION SYSTEM IDENTIFICATION FOR POWER CABLES

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK | SCALE : NTS

A3 | DRAWING NO. 123A90-DDL-EL-DD-20092 | SHEET 007 | REV. 02

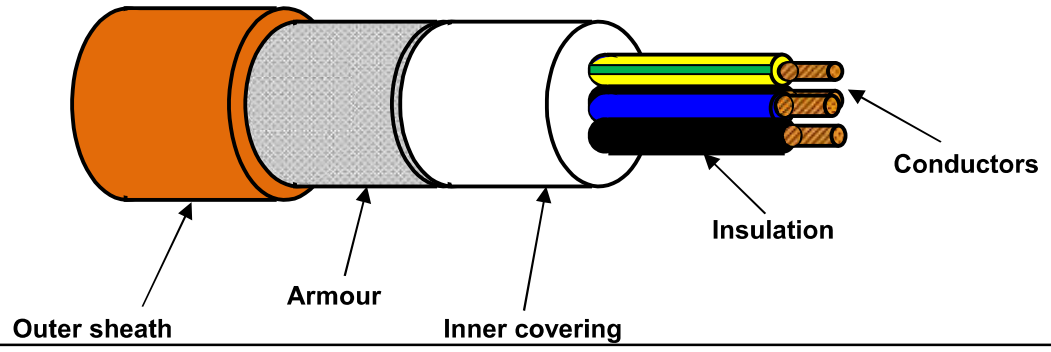
F.to UNI A3: 420mmx297mm

File Name : 123A90-DDL-EL-DD-20092 REV.02.DWG

Tag Number	Category	Discipline	Eng Status	NativeDoc	Layout	Parent Tag	Main Function	Secondary Function	Area	From Tag	From Main Function	From Area	To Tag	To Main Function	To Area	Material ID	Material Desc.	Gland Standard	From Gland	From Entry	From Fitting	To Gland	To Entry	To Fitting	Routing	Routing Manual
P-ELF-200N1-02-L1-09	Cable	LSP	VFC	123A90-DDL-EL-LIS-20148						EJB-200N1-02-L1-07	Normal Lighting JB	Upper Deck	ELF-200N1-02-L1-09	Normal Lighting Fixture	Upper Deck	ELECV19-3G2,5	Cable Cu Cl.2/MGT/EPR/LSZH/GSWB/LSZH 0,6/1kV 3G2,5mm² - Orange	M20	T2_M20_Double			T2_M20_Double				L-50-102-LVT-050

Cu Cl.2/MGT/EPR/LSZH/GSWB/LSZH 0,6/1 KV

3G2,5 - L.V. POWER CABLE - Fire Resistant & Flame Retardant - ARMOURED



TECHNICAL FEATURES

Conductors :	**STRANDED** plain/bare annealed copper wires	IEC 60228 Class 2
Insulation :	Mica/Glass Tape (MGT) plus EPR compound, quality to IEC 60092.360, Nominal Thickness 1,0 mm	
Cores colour code :	**Brown - Blue - Yellow/Green**	
Pair Assembling :	Not required	
Pair Wrapping:	Not required	
Drain wire :	Not required	
Pair Shield :	Not required	
Shield Insulation :	Not Required	
Total Assembling :	Cores layed up with optimal lay length	
Overall Wrapping:	Not required	
Drain wire :	Not required	
Overall Shield:	Not required	
Inner covering :	Extruded LSZH compound, Average Thickness 1,0 mm	
Inner covering color code:	**Black or Natural**	
Armour :	**Galvanized Steel Wire Braid Armour (coverage ≥ 90%)**	
Outer sheath :	Extruded LSZH Thermoplastic Compound (O.I. ≥ 30%), type **SHF1** to IEC 60093.360, Average Thickness 1,3 mm	
Outer sheath color code:	**Orange**	
Outer printing (INKJET) :	**FLEI - ELECTRIC CABLE - 1000V - 3G2,5 SQMM - MGT/EPR/LSZH/GSWB/LSZH - 0,6/1 KV - IEC 60331.21 - IEC 60332.1.2 - IEC 60332.3.22 - Year of Manufacture - CE + Meter Marking**	
Under Armour diameter :	(11,7 ± 10%) mm	
Over Armour diameter :	(12,9 ± 10%) mm	
Outer diameter :	(15,5 ± 10%) mm	
Bending radius :	cable outer diameter x 10	(in fixed installation)
Voltage test :	3,5 kV a.c. for 5' (Between Cores - Armour)	
Conductors DC Resistance :		IEC 60228 Class 2
Insulation Resistance :	≥ 940 MΩ x Km (@ 20°C)	
Applicable Standards		
Design Guidelines :	**IEC 60092.353**	
ON COMPLETE CABLE		
Fire Resistant test :	**IEC 60331.21**	
Flame Retardant test :	IEC 60332.1.2 - IEC 60332.3.22	
Acid Gas generation :	IEC 60754.1/2	
Smoke density/Light Transmittance	IEC 61034.2 (LT ≥ 60%)	
Temperature Range :		
ON INSULATION	(max +90°C)	(max continuous operation temperature of conductors)
	(max +250°C)	(max conductors temperature during short-circuit for 5 seconds)
ON COMPLETE CABLE		
During Operation :	(-20°C up to +90°C)	(in fixed installation)
During installation :	(- 5°C up to +50°C)	
Note :	**To meet the requirements of installation and use in Zone 1 & Zone 2 (IEC 60079-14) and "Gas & Vapour Tight" the cable must be provided with Penetrating Inner covering together with correct ATEX approved equipment or accessories.**	

Office	Date	Sign	Rev.	Date	Sign
Drawn by :	29/03/2024	Messa			
Checked :	29/03/2024	Spaccasassi			
Approved :	29/03/2024	Cucinotta			

The data provided, lending assent for the treatment, will be used to the sense of the article 13 of of the Regulation (UE) 2016/679, also through outsiders, in order to allow the realization of the fulfilments informatives, administrative, commercial and accounting related to the contractual relationship. Integral copy of the informative could be requested at our offices.

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ITEM	Tag	P-EJB-200N1-02-L1-03	: Normal Lighting JB / Normal Lighting JB			Dwg	123A90-DDL-EL-LIS-20148
	S/Sys	83-40	: Normal Lighting Upper Deck			Module	UD
TASK	code	C10000676		Location	Onshore Activities	User	Rosetti Marino Quality Control
FORM	Process	MC	Activity CCK	Discipline	Electrical	Form	CPX09 LV Power Cable

CABLE DATA

Type Cu Cl.2/MGT/EPR/LSZH/GSWB/LSZH Cores/Size mm² 3G4 mm2 Color ORANGE

From EJB-200N1-02-L1-02 To EJB-200N1-02-L1-03

1	Confirm cable is as specified in project cable schedule	OK
2	Visual Check cable physical integrity.	OK
3	Check is installed in accordance with layout drawing (segregation, distance…).	OK
4	Check cable is supported and fixed to rack according to project specification.	Note
5	Check bending radius is within the specified limits.	OK
6	Confirm cable glands suit for cable type, correctly mounted and tightened.	OK
7	Check gland plate for single core cables is non ferrous (non -magnetic).	NA
8	Confirm cable labelling is in accordance with specifications.	PL
9	Check cable is correctly loomed and segregated in accordance with specification.	OK
10	Check cable earthing against lastest drawings.	OK
11	Check cores marking are in accordance with termination diagram	OK
12	Check terminations are in accordance with latest termination diagram	OK
13	If required produce Red Line Mark Up for "AS BUILT"	

ROSETTI MARINO PROVERLIS CROSSWIND

ITEM	Tag	P-EJB-200N1-02-L1-03	: Normal Lighting JB / Normal Lighting JB			Dwg	123A90-DDL-EL-LIS-20148
	S/Sys	83-40	: Normal Lighting Upper Deck			Module	UD
TASK	code	C10000676		Location	Onshore Activities	User	Rosetti Marino Quality Control
FORM	Process	MC	Activity CCK	Discipline	Electrical	Form	CPX09 LV Power Cable

CONTINUITY				
5	CORE CONTINUITY Ω	PH 1	0,5	
6		PH 2	0,5	
7		PH 3	NA	
8	ARMOUR CONTINUITY Ω		0,5	
9	PROTECTIVE CONDUCTOR CONTINUITY Ω		0,5	
INSULATION				
10	CORES / ARMOUR+EARTH MΩ	PH1 / PH2-PH3-A-E	>999	
11		PH2 / PH1-PH3-A-E	>999	
12		PH3 / PH1-PH2-A-E	NA	
13	CABLE IS CORRECTLY RE-CONNECTED.		Yes	

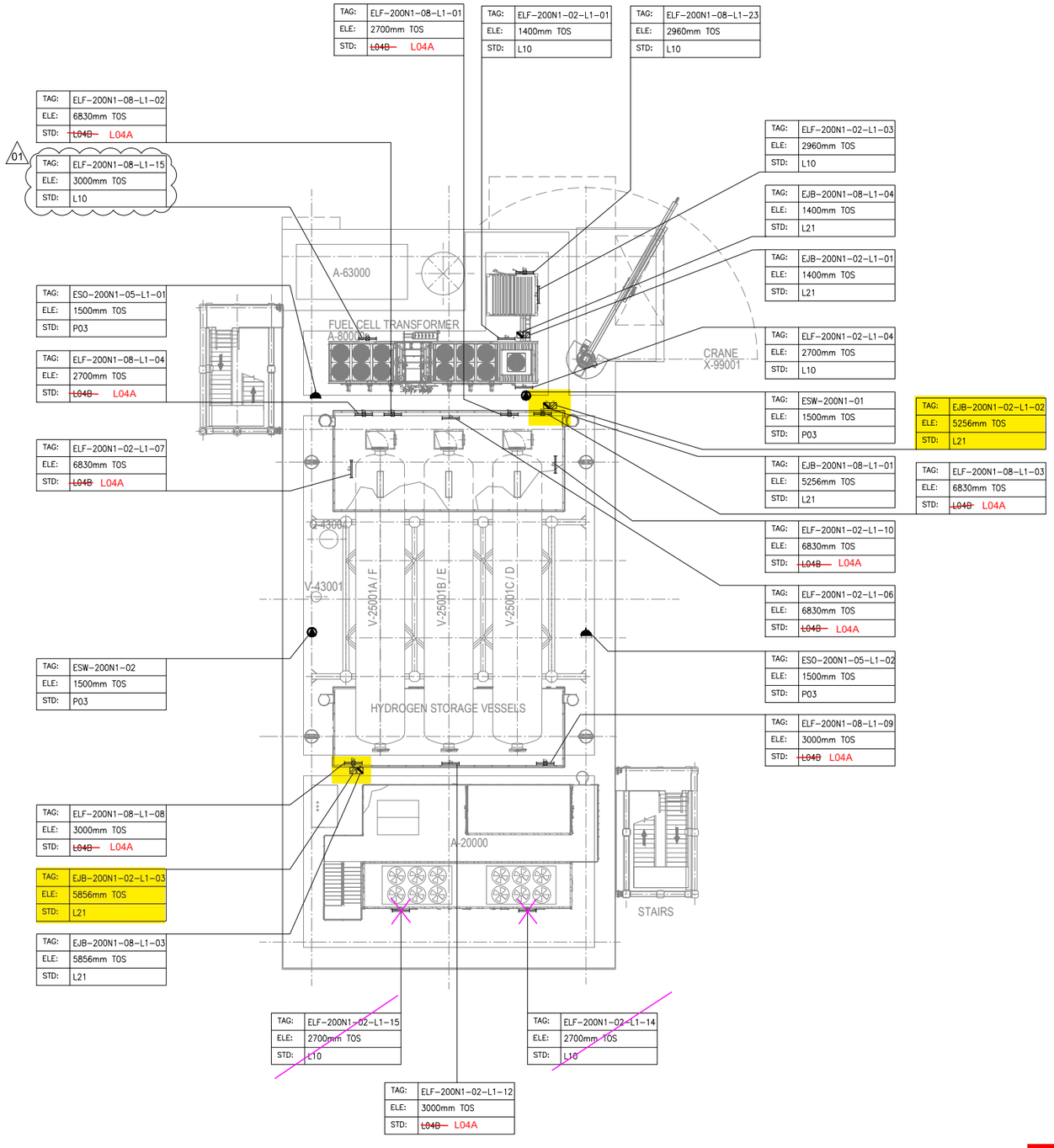
TESTING INSTRUMENTS USED			
TYPE / SERIAL N° :	VOLCRAFT 1000V - ET-200 S/N:H240103023	TYPE / SERIAL N° :	MEGGER : KEW3125A SERIAL: W8330207
Calibration certificate N° and date:	N°LAT 042 00768/24 _ 12/10/2024	Calibration certificate N° and date:	N°7722/24 _ 10/07/2024

Comments: Nota 4: refer to PL C30000681

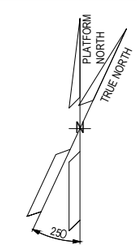
	Performed by	● WITNESS ☐ REVIEW	☐ WITNESS ☐ REVIEW
Company	ICS IMPIANTI	RM(ROSETTI MARINO)	
Name	Michele Tartaglia	Andrea Andreani	
Date	2025-01-20	2025-01-20	
Signature	PROVERLIS Digitaly signed by Michele Tartaglia 2025-01-20T08:46:09.955Z	PROVERLIS Digitaly signed by Andrea Andreani 2025-01-20T17:34:49.553Z	

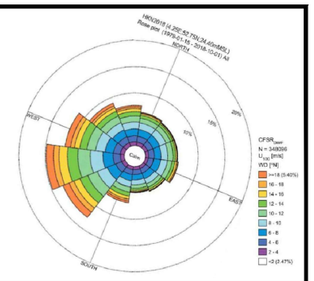
DRAWING NO. 123A90-DDL-EL-DL-20118

REV. 01



PLAN ON UPPER DECK
EL+30.310 T.O.S.





NOTES

1. ALL DIMENSIONS AND ELEVATIONS ARE GIVEN IN mm UNLESS OTHERWISE NOTED.
2. ELEVATIONS REFER TO T.O.S.
3. ELEVATION OF THE LAMPS ARE REFFERED TO THE BOTTOM OF THE LAMP.
4. FOR THE ELEVATION OF JB, REFER TO THE TYPICAL INSTALLATION.

LEGEND

- EMERGENCY LIGHTING JB
- 60W LED EMERGENCY LUMINARIES
- 60W LED EMERGENCY LUMINARIES FIXTURE POLE MOUNTED
- NORMAL LIGHTING JB
- 45W LED NORMAL LUMINARIES
- 45W LED NORMAL LUMINARIES FIXTURE POLE MOUNTED
- WELDING SOCKET WITH INTEGRATED JB
- SMALL POWER SOCKET WITH INTEGRATED JB

JB TAG:	JB-TAG
TAG:	TAG
ELE:	ELEVATION
STD:	STANDARD

REFERENCE DOCUMENTS

123A90-DDL-PP-DL-70070	PLOT PLAN - LOWER & UPPER DECK
123A90-DDL-EL-DL-20100	ELECTRICAL EQUIPMENT LAYOUT - TOP DECK
123A90-DDL-EL-DD-20091	ELECTRICAL TYPICAL INSTALLATION DETAILS - LIGHTING SYSTEM
123A90-DDL-EL-DD-20092	ELECTRICAL TYPICAL INSTALLATION DETAILS - POWER SYSTEM & CABLE INSTALLATION
123A90-DDL-EL-RE-20153	LIGHTING CALCULATION STUDY REPORT
123A90-DDL-ST-DD-90076	IDENTIFICATION PANELS ASSEMBLY AND DETAILS

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	02/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	28/05/24	ASR	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DL-20118**

REV.:	DATE:	SIGNATURE:
1_G	09/01/25	V.Ramponi

ROSETTI MARINO SpA

CROSSWIND

ROSETTI MARINO

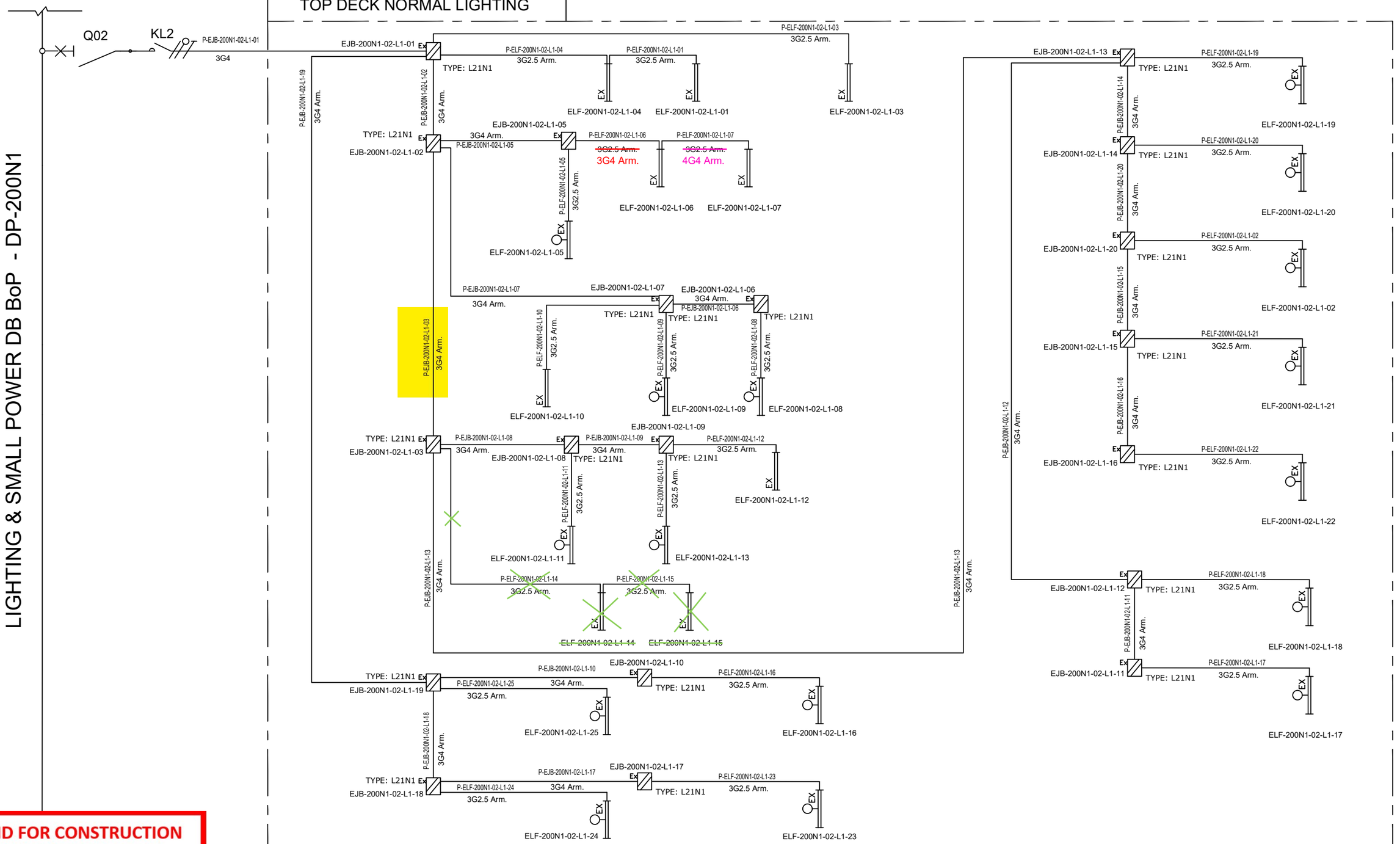
TITLE :
BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET LAYOUT – TOP DECK

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK			SCALE 1:150
DRAWN ASR	CHECKED FMA/AMA	APPROVED FPA/DLO	DATE 01/08/24
A1	DRAWING NO. 123A90-DDL-EL-DL-20118	SHEET 2of2	REV. 01

File Name : 123A90-DDL-EL-DL-20118

LIGHTING & SMALL POWER DB BoP - DP-200N1

TOP DECK NORMAL LIGHTING



VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DG-20125**

REV.:	DATE:	SIGNATURE:
2_G	16/01/25	G.Randi

ROSETTI MARINO SpA

CROSSWIND

ROSETTI MARINO

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	08/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	01/07/24	ASR	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

TITLE : BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET CIRCUIT DIAGRAM
TOP DECK–NORMAL LIGHTING

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE : NTS

A3

DRAWING NO. 123A90–DDL–EL–DG–20125

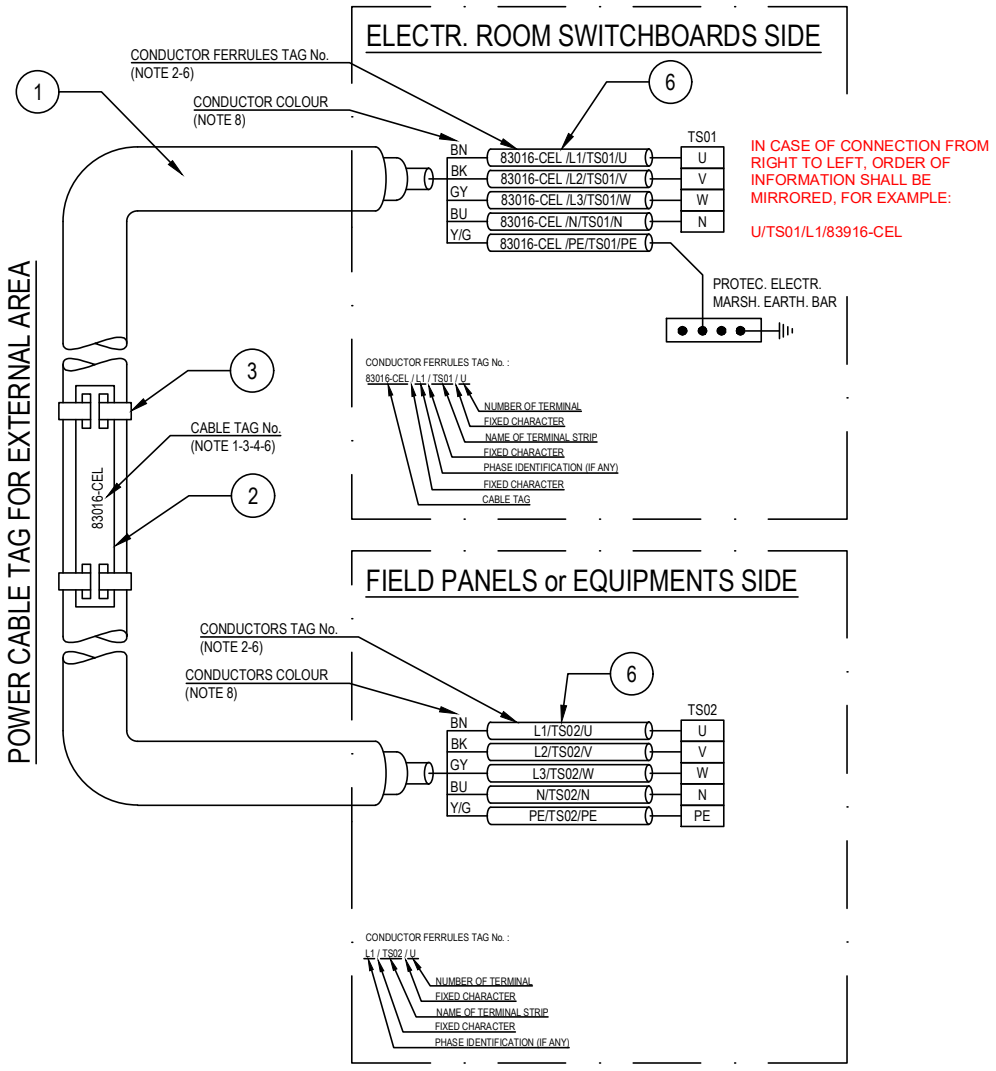
SHEET 010

REV. 01

F.to UNI A3: 420mmx297mm

File Name : 123A90–DDL–EL–DG–20125

C02



POS.	DESCRIPTION	MATERIAL	SIZE	Q.TY	NOTE
1	UNARMOURED CABLE				
2	CABLE TAG FOR EXTERNAL AREA	HDG/SS			NOTE 1 NOTE 4
3	TIE FOR CABLE TAG IN EXTERNAL AREA	HDG/SS			
4	CABLE TAG FOR INTERNAL AREA	PVC			NOTE 1 NOTE 5
5	TIE FOR CABLE TAG IN INTERNAL AREA	NYLON 6.6			
6	CORE FERRULES	PVC			

NOTES:

1) ALL CABLES SHALL BE IDENTIFIED AT EACH TERMINATION AND EACH SIDE OF ANY OBSTACLE (E.G. CABLE TRANSIT ON WALLS INSIDE SHELTER AND FLOOR DECK CROSSING, BY THEIR RESPECTIVE TAGS/NUMBERS, AS INDICATED ON THE CABLE SCHEDULE.
CABLE IDENTIFICATION SHALL BE ALSO DONE BELOW AND IN THE SWITCHBOARD CABLE COMPARTMENT.

2) CABLE CORE FERRULES SHALL BE FITTED AT EVERY TERMINATION. THESE FERRULES SHALL BE OF ENGRAVED PLASTIC SLIP ON, INTERLOCKED AND SELF GRIP TYPE.

3) ON CABLE TRAYS OR LADDERS, CABLES SHALL BE IDENTIFIED AT EACH END, AND EVERY 25 METERS.

4) THE CABLE TAG FOR EXTERNAL AREA SHALL DONE BY 316L STAINLESS STEEL LABELS, TAG (H=5mm) SHALL BE LASER PRINTED PREFERABLY OR EMBOSSED, LABEL HELD BY TWO 316L STAINLESS STEEL TIES.

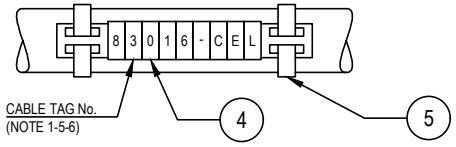
5) THE CABLE TAG FOR INTERNAL AREA SHALL BE DONE BY ENGRAVED PLASTIC SLIP ON CHARACTERS ONTO PLASTIC TIE, BLACK LETTER (H=5mm) ON WHITE.

6) CABLE AND CONDUCTOR TAG ARE INDICATIVE ONLY.

7) WITHIN TECHNICAL BUILDING, PROTECTIVE CONDUCTOR SHALL BE TAGGED BETWEEN FOLLOWING ITEMS:
- PANEL (SWITCHBOARD, SWITCHGEAR, DISTRIBUTION BOARD, ETC) AND EARTH BAR
- EARTH BAR AND EARTH BOSS

8) ONLY IF NECESSARY, SHRINK TUBES OF THE APPROPRIATE COLOR WILL BE INSTALLED TO COVER THE WRONG CONDUCTOR COLOR, THIS WILL BE PERFORMED IN EACH SIDE OF THE CABLES WHERE NECESSARY.

POWER CABLE TAG FOR INTERNAL AREA



VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DD-20092**

REV.:	DATE:	SIGNATURE:
2_D	20/12/24	V.Ramponi

ROSETTI MARINO SpA

CROSSWIND

ROSETTI MARINO

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	28/08/24	GRA	AMA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	04/07/24	NLK	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	21/11/23	SPS	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL TYPICAL INSTALLATION DETAILS-POWER SYSTEM & CABLE INSTALLATION
CABLES INSTALLATION SYSTEM IDENTIFICATION FOR POWER CABLES

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK | SCALE : NTS

A3 | DRAWING NO. 123A90-DDL-EL-DD-20092 | SHEET 007 | REV. 02

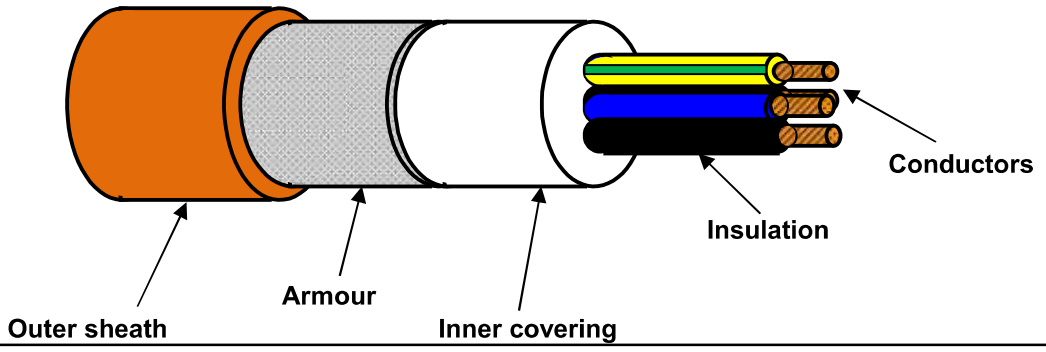
F.to UNI A3: 420mmx297mm

File Name : 123A90-DDL-EL-DD-20092 REV.02.DWG

Tag Number	Category	Disciplir	Eng Statu	NativeDoc	Layout	Parent Tag	Main Function	Secondary Fun	Area	From Tag	From Main Function	From Area	To Tag	To Main Function	To Area	Material ID	Material Desc.	Gland Standard	From Glan	From Entry	From Fitt	To Gland	To Entry	To Fitting	Routing	Routing Manual
P-EJB-200N1-02-L1-03	Cable	LSP	VFC	123A90-DDL-EL-LIS-20148						EJB-200N1-02-L1-02	Normal Lighting JB	Upper Deck	EJB-200N1-02-L1-03	Normal Lighting JB	Upper Deck	ELECV38-3G4	Cable Cu Cl.2/MGT/EPR/LSZH/GSWB/LSZH 0,6/1kV 3G4mm² - Orange	M20	T2_M20_ Double			T2_M20_Double				L-150-102-LVT-014 / L-150-102-LVT-010 / L-300-102-LVT-009 / E-MCT-U06 / L-300-101-LVT-095 / L-750-101-LVT-014 / L-600-101-LVT-094 / L-600-101-LVT-012 / L-150-101-LVT-104 / E-MCT-U03 / L-150-102-LVT-007 / L-150-102-LVT-008 / L-150-102-LVT-013

Cu Cl.2/MGT/EPR/LSZH/GSWB/LSZH 0,6/1 KV

3G4 - L.V. POWER CABLE - Fire Resistant & Flame Retardant - ARMOURED



TECHNICAL FEATURES

Conductors :	**STRANDED** plain/bare annealed copper wires	IEC 60228 Class 2
Insulation :	Mica/Glass Tape (MGT) plus EPR compound, quality to IEC 60092.360, Nominal Thickness 1,0 mm	
Cores colour code :	**Brown - Blue - Yellow/Green**	
Pair Assembling :	Not required	
Pair Wrapping:	Not required	
Drain wire :	Not required	
Pair Shield :	Not required	
Shield Insulation :	Not Required	
Total Assembling :	Cores layed up with optimal lay length	
Overall Wrapping:	Not required	
Drain wire :	Not required	
Overall Shield:	Not required	
Inner covering :	Extruded LSZH compound, Average Thickness 1,0 mm	
Inner covering color code:	**Black or Natural**	
Armour :	**Galvanized Steel Wire Braid Armour (coverage ≥ 90%)**	
Outer sheath :	Extruded LSZH Thermoplastic Compound (O.I. ≥ 30%), type **SHF1** to IEC 60093.360, Average Thickness 1,4 mm	
Outer sheath color code:	**Orange**	
Outer printing (INKJET) :	**FLEI - ELECTRIC CABLE - 1000V - 3G4 SQMM - MGT/EPR/LSZH/GSWB/LSZH - 0,6/1 KV - IEC 60331.21 -**	
	IEC 60332.1.2 - IEC 60332.3.22 - Year of Manufacture - CE + Meter Marking	
Under Armour diameter :	(13,0 ± 10%) mm	
Over Armour diameter :	(14,2 ± 10%) mm	
Outer diameter :	(17,0 ± 10%) mm	
Bending radius :	cable outer diameter x 10	(in fixed installation)
Voltage test :	3,5 kV a.c. for 5' (Between Cores - Armour)	
Conductors DC Resistance :		IEC 60228 Class 2
Insulation Resistance :	≥ 790 MΩ x Km (@ 20°C)	
Applicable Standards		
Design Guidelines :	**IEC 60092.353**	
ON COMPLETE CABLE		
Fire Resistant test :	**IEC 60331.21**	
Flame Retardant test :	IEC 60332.1.2 - IEC 60332.3.22	
Acid Gas generation :	IEC 60754.1/2	
Smoke density/Light Transmittance	IEC 61034.2 (LT ≥ 60%)	
Temperature Range :		
ON INSULATION	(max +90°C)	(max continuous operation temperature of conductors)
	(max +250°C)	(max conductors temperature during short-circuit for 5 seconds)
ON COMPLETE CABLE		
During Operation :	(-20°C up to +90°C)	(in fixed installation)
During installation :	(- 5°C up to +50°C)	
Note :	**To meet the requirements of installation and use in Zone 1 & Zone 2 (IEC 60079-14) and "Gas & Vapour Tight" the cable must be provided with Penetrating Inner covering together with correct ATEX approved equipment or accessories.**	

Office	Date	Sign	Rev.	Date	Sign
Drawn by :	29/03/2024	Messa			
Checked :	29/03/2024	Spaccasassi			
Approved :	29/03/2024	Cucinotta			

The data provided, lending assent for the treatment, will be used to the sense of the article 13 of of the Regulation (UE) 2016/679, also through outsiders, in order to allow the realization of the fulfilments informatives, administrative, commercial and accounting related to the contractual relationship. Integral copy of the informative could be requested at our offices.

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ITEM	Tag	P-ELF-200N1-02-L1-12	: Normal Lighting JB / Normal Lighting Fixture			Dwg	123A90-DDL-EL-LIS-20148
	S/Sys	83-40	: Normal Lighting Upper Deck			Module	UD
TASK	code	C10000677		Location	Onshore Activities	User	Rosetti Marino Quality Control
FORM	Process	MC	Activity CCK	Discipline	Electrical	Form	CPX09 LV Power Cable

CABLE DATA

Type Cu Cl.2/MGT/EPR/LSZH/GSWB/LSZH Cores/Size mm² 3G2,5 mm2 Color ORANGE

From EJB-200N1-02-L1-09 To ELF-200N1-02-L1-12

1	Confirm cable is as specified in project cable schedule	OK
2	Visual Check cable physical integrity.	OK
3	Check is installed in accordance with layout drawing (segregation, distance…).	OK
4	Check cable is supported and fixed to rack according to project specification.	Note
5	Check bending radius is within the specified limits.	OK
6	Confirm cable glands suit for cable type, correctly mounted and tightened.	OK
7	Check gland plate for single core cables is non ferrous (non -magnetic).	NA
8	Confirm cable labelling is in accordance with specifications.	PL
9	Check cable is correctly loomed and segregated in accordance with specification.	OK
10	Check cable earthing against lastest drawings.	OK
11	Check cores marking are in accordance with termination diagram	OK
12	Check terminations are in accordance with latest termination diagram	OK
13	If required produce Red Line Mark Up for "AS BUILT"	

ROSETTI MARINO PROVERLIS CROSSWIND

ITEM	Tag	P-ELF-200N1-02-L1-12	: Normal Lighting JB / Normal Lighting Fixture			Dwg	123A90-DDL-EL-LIS-20148
	S/Sys	83-40	: Normal Lighting Upper Deck			Module	UD
TASK	code	C10000677		Location	Onshore Activities	User	Rosetti Marino Quality Control
FORM	Process	MC	Activity CCK	Discipline	Electrical	Form	CPX09 LV Power Cable

	CONTINUITY			
5	CORE CONTINUITY Ω	PH 1	0,2	
6		PH 2	0,2	
7		PH 3	NA	
8	ARMOUR CONTINUITY Ω		0,2	
9	PROTECTIVE CONDUCTOR CONTINUITY Ω		0,2	
	INSULATION			
10	CORES / ARMOUR+EARTH MΩ	PH1 / PH2-PH3-A-E	>999	
11		PH2 / PH1-PH3-A-E	>999	
12		PH3 / PH1-PH2-A-E	NA	
13	CABLE IS CORRECTLY RE-CONNECTED.		Yes	

TESTING INSTRUMENTS USED

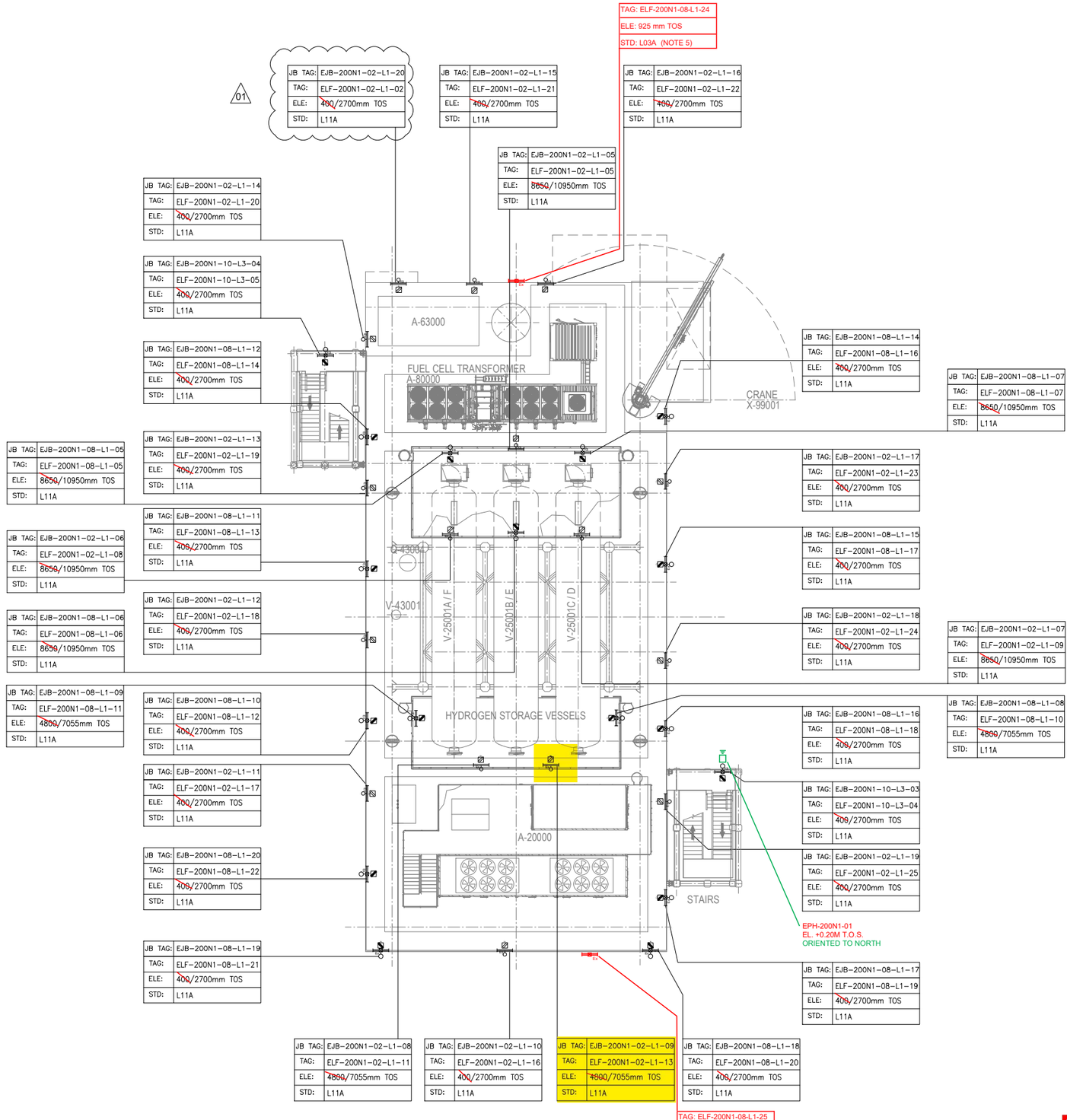
TYPE / SERIAL N° :	MEGGER : KEW3125A SERIAL: W8330207	TYPE / SERIAL N° :	MULTIMETER: FLUKE 175 SERIAL:AW1/018(17140769
Calibration certificate N° and date:	N°7722/24 _ 10/07/2024	Calibration certificate N° and date:	N°7715/24 _ 10/07/2024

Comments: Nota 4: refer to PL C30000681

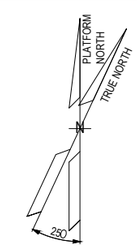
	Performed by	● WITNESS ☐ REVIEW	☐ WITNESS ☐ REVIEW
Company	ICS IMPIANTI	RM(ROSETTI MARINO)	
Name	Francesco Zucca	Andrea Andreani	
Date	2024-12-05	2025-01-16	
Signature	PROVERLIS Digitaly signed by Francesco Zucca 2024-12-05T18:07:28.336Z	PROVERLIS Digitaly signed by Andrea Andreani 2025-01-16T08:10:18.587Z	

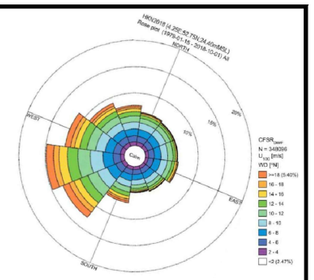
DRAWING NO. 123A90-DDL-EL-DL-20118

REV. 01



PLAN ON UPPER DECK
EL+30.310 T.O.S.





NOTES

1. ALL DIMENSIONS AND ELEVATIONS ARE GIVEN IN mm UNLESS OTHERWISE NOTED.
2. ELEVATIONS REFER TO T.O.S.
3. ELEVATION OF THE LAMPS ARE REFFERED TO THE BOTTOM OF THE LAMP.
4. FOR THE ELEVATION OF JB, REFER TO THE TYPICAL INSTALLATION.
5. FOR ELF-200N1-08-L1-24 AND ELF-200N1-08-L1-25 CONSTRUCTION DETAILS REFER TO DOC. 123A90-DDL-ST-DD-90076

LEGEND

- EMERGENCY LIGHTING JB
- 60W LED EMERGENCY LUMINARIES
- 60W LED EMERGENCY LUMINARIES FIXTURE POLE MOUNTED
- NORMAL LIGHTING JB
- 45W LED NORMAL LUMINARIES
- 45W LED NORMAL LUMINARIES FIXTURE POLE MOUNTED
- WELDING SOCKET WITH INTEGRATED JB
- SMALL POWER SOCKET WITH INTEGRATED JB
- TWILIGHT RELAY SENSOR

JB TAG:	JB-TAG
TAG:	TAG
ELE:	ELEVATION
STD:	STANDARD

REFERENCE DOCUMENTS

123A90-DDL-PP-DL-70070	PLOT PLAN - LOWER & UPPER DECK
123A90-DDL-EL-DL-20100	ELECTRICAL EQUIPMENT LAYOUT - TOP DECK
123A90-DDL-EL-DD-20091	ELECTRICAL TYPICAL INSTALLATION DETAILS - LIGHTING SYSTEM
123A90-DDL-EL-DD-20092	ELECTRICAL TYPICAL INSTALLATION DETAILS - POWER SYSTEM & CABLE INSTALLATION
123A90-DDL-EL-RE-20153	LIGHTING CALCULATION STUDY REPORT
123A90-DDL-ST-DD-90076	IDENTIFICATION PANELS ASSEMBLY AND DETAILS

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	02/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	28/05/24	ASR	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DL-20118**

REV.:	DATE:	SIGNATURE:
1_F	26/11/24	G.Randi

ROSETTI MARINO SpA

CROSSWIND | ROSETTI MARINO

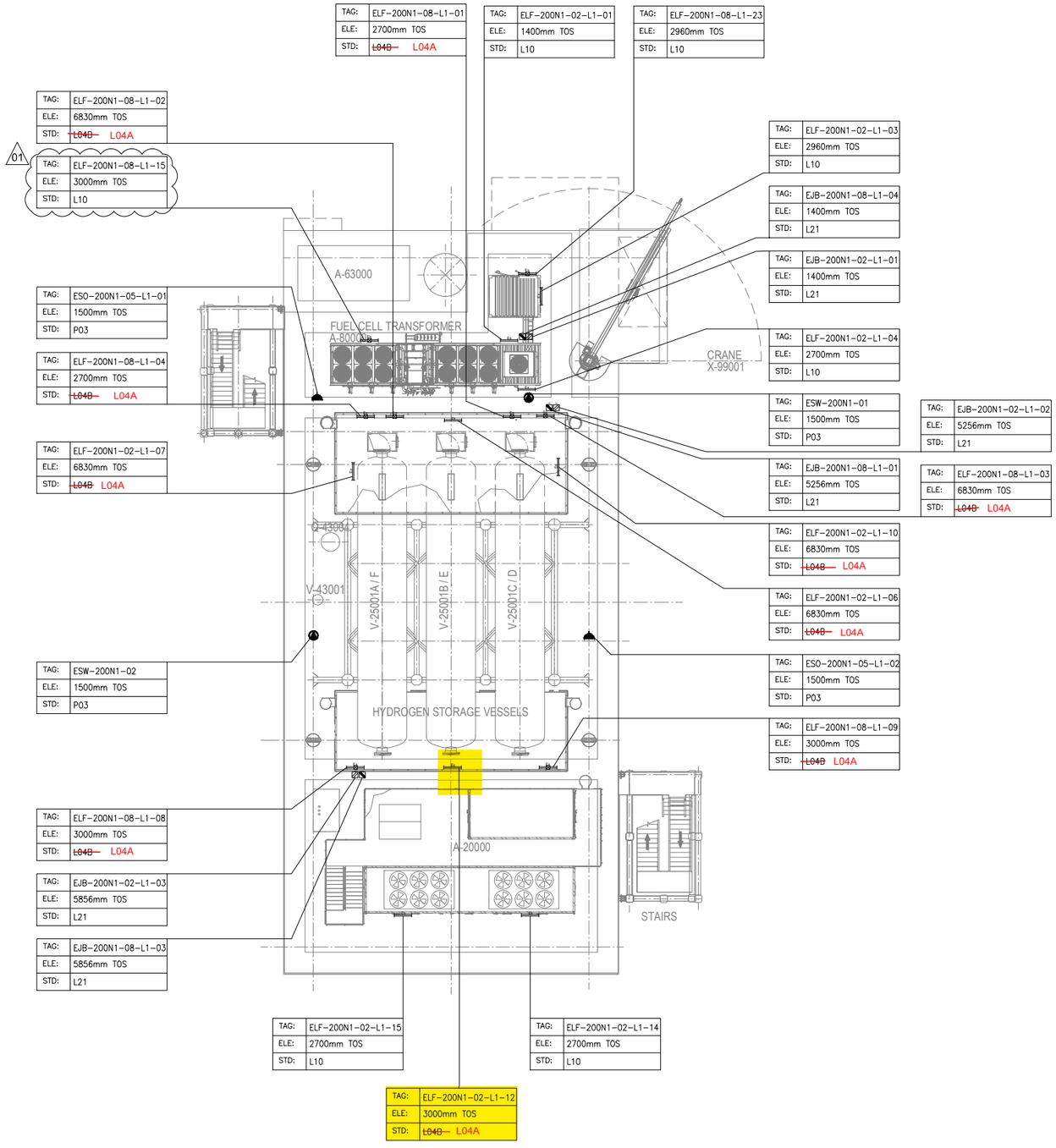
TITLE : BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET LAYOUT – TOP DECK

CONTRACT NO./TITLE CW-1-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK			SCALE 1:150
DRAWN ASR	CHECKED FMA/AMA	APPROVED FPA/DLO	DATE 01/08/24
A1	DRAWING NO. 123A90-DDL-EL-DL-20118	SHEET 1of2	REV. 01

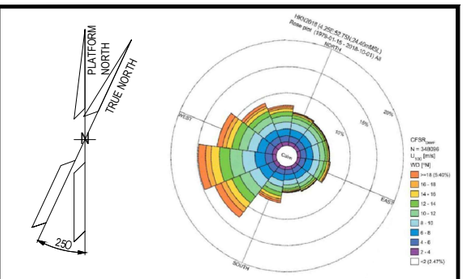
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DRAWING NO. 123A90-DDL-EL-DL-20118

REV. 01



PLAN ON UPPER DECK
EL+30.310 T.O.S.



NOTES

1. ALL DIMENSIONS AND ELEVATIONS ARE GIVEN IN mm UNLESS OTHERWISE NOTED.
2. ELEVATIONS REFER TO T.O.S.
3. ELEVATION OF THE LAMPS ARE REFFERED TO THE BOTTOM OF THE LAMP.
4. FOR THE ELEVATION OF JB, REFER TO THE TYPICAL INSTALLATION.

LEGEND

- EMERGENCY LIGHTING JB
- 60W LED EMERGENCY LUMINARIES
- 60W LED EMERGENCY LUMINARIES FIXTURE POLE MOUNTED
- NORMAL LIGHTING JB
- 45W LED NORMAL LUMINARIES
- 45W LED NORMAL LUMINARIES FIXTURE POLE MOUNTED
- WELDING SOCKET WITH INTEGRATED JB
- SMALL POWER SOCKET WITH INTEGRATED JB

JB TAG:	JB-TAG
TAG:	TAG
ELE:	ELEVATION
STD:	STANDARD

REFERENCE DOCUMENTS

123A90-DDL-PP-DL-70070	PLOT PLAN - LOWER & UPPER DECK
123A90-DDL-EL-DL-20100	ELECTRICAL EQUIPMENT LAYOUT - TOP DECK
123A90-DDL-EL-DD-20091	ELECTRICAL TYPICAL INSTALLATION DETAILS - LIGHTING SYSTEM
123A90-DDL-EL-DD-20092	ELECTRICAL TYPICAL INSTALLATION DETAILS - POWER SYSTEM & CABLE INSTALLATION
123A90-DDL-EL-RE-20153	LIGHTING CALCULATION STUDY REPORT
123A90-DDL-ST-DD-90076	IDENTIFICATION PANELS ASSEMBLY AND DETAILS

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	02/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	28/05/24	ASR	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DL-20118**

REV.:	DATE:	SIGNATURE:
1_F	26/11/24	G.Randi

ROSETTI MARINO SpA

CROSSWIND

ROSETTI MARINO

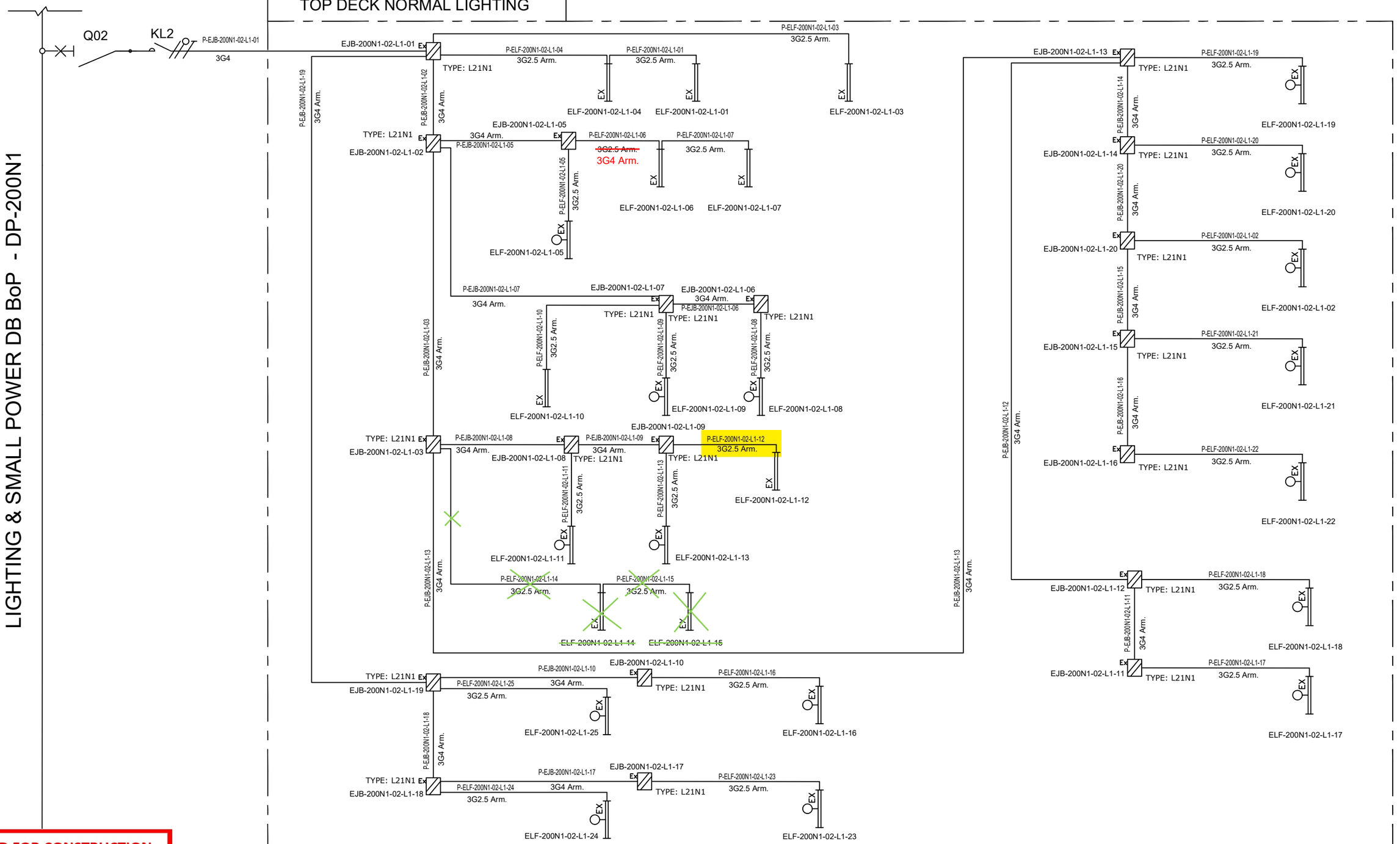
TITLE :
BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET LAYOUT – TOP DECK

CONTRACT NO./TITLE	CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK		SCALE	1:150
DRAWN ASR	CHECKED FMA/AMA	APPROVED FPA/DLO	DATE	01/08/24
A1	DRAWING NO. 123A90-DDL-EL-DL-20118		SHEET 2of2	REV. 01

File Name : 123A90-DDL-EL-DL-20118

LIGHTING & SMALL POWER DB BoP - DP-200N1

TOP DECK NORMAL LIGHTING



VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DG-20152**

REV.:	DATE:	SIGNATURE:
2_F	14/01/25	G.Randi

ROSETTI MARINO SpA

CROSSWIND

ROSETTI MARINO

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	08/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	01/07/24	ASR	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

TITLE : BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET CIRCUIT DIAGRAM
TOP DECK–NORMAL LIGHTING

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE : NTS

A3

DRAWING NO. 123A90–DDL–EL–DG–20125

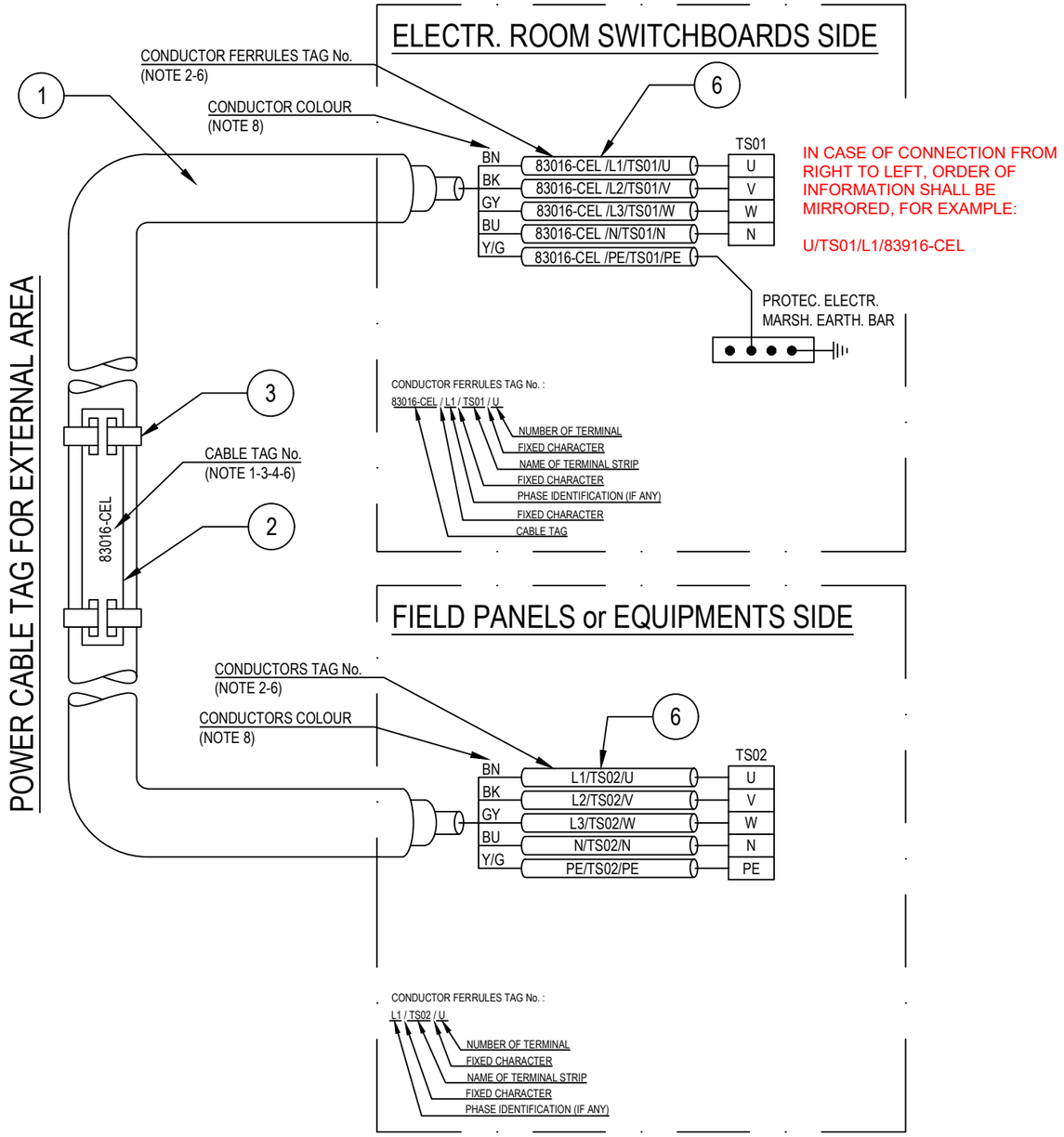
SHEET 010

REV. 01

F.to UNI A3: 420mmx297mm

File Name : 123A90–DDL–EL–DG–20125

C02



POS.	DESCRIPTION	MATERIAL	SIZE	Q.TY	NOTE
1	UNARMOURED CABLE				
2	CABLE TAG FOR EXTERNAL AREA	HDG/SS			NOTE 1 NOTE 4
3	TIE FOR CABLE TAG IN EXTERNAL AREA	HDG/SS			
4	CABLE TAG FOR INTERNAL AREA	PVC			NOTE 1 NOTE 5
5	TIE FOR CABLE TAG IN INTERNAL AREA	NYLON 6.6			
6	CORE FERRULES	PVC			

NOTES:

1) ALL CABLES SHALL BE IDENTIFIED AT EACH TERMINATION AND EACH SIDE OF ANY OBSTACLE (E.G. CABLE TRANSIT ON WALLS INSIDE SHELTER AND FLOOR DECK CROSSING, BY THEIR RESPECTIVE TAGS/NUMBERS, AS INDICATED ON THE CABLE SCHEDULE.
CABLE IDENTIFICATION SHALL BE ALSO DONE BELOW AND IN THE SWITCHBOARD CABLE COMPARTMENT.

2) CABLE CORE FERRULES SHALL BE FITTED AT EVERY TERMINATION. THESE FERRULES SHALL BE OF ENGRAVED PLASTIC SLIP ON, INTERLOCKED AND SELF GRIP TYPE.

3) ON CABLE TRAYS OR LADDERS, CABLES SHALL BE IDENTIFIED AT EACH END, AND EVERY 25 METERS.

4) THE CABLE TAG FOR EXTERNAL AREA SHALL DONE BY 316L STAINLESS STEEL LABELS, TAG (H=5mm) SHALL BE LASER PRINTED PREFERABLY OR EMBOSSED, LABEL HELD BY TWO 316L STAINLESS STEEL TIES.

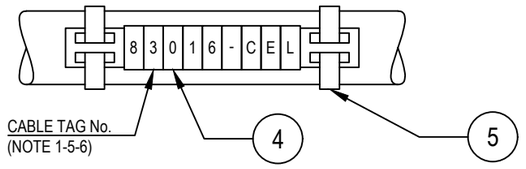
5) THE CABLE TAG FOR INTERNAL AREA SHALL BE DONE BY ENGRAVED PLASTIC SLIP ON CHARACTERS ONTO PLASTIC TIE, BLACK LETTER (H=5mm) ON WHITE.

6) CABLE AND CONDUCTOR TAG ARE INDICATIVE ONLY.

7) WITHIN TECHNICAL BUILDING, PROTECTIVE CONDUCTOR SHALL BE TAGGED BETWEEN FOLLOWING ITEMS:
- PANEL (SWITCHBOARD, SWITCHGEAR, DISTRIBUTION BOARD, ETC) AND EARTH BAR
- EARTH BAR AND EARTH BOSS

8) ONLY IF NECESSARY, SHRINK TUBES OF THE APPROPRIATE COLOR WILL BE INSTALLED TO COVER THE WRONG CONDUCTOR COLOR, THIS WILL BE PERFORMED IN EACH SIDE OF THE CABLES WHERE NECESSARY.

POWER CABLE TAG FOR INTERNAL AREA



VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DD-20092**

REV.:	DATE:	SIGNATURE:
2_B	28/11/24	G.Randi

ROSETTI MARINO SpA

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	28/08/24	GRA	AMA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	04/07/24	NLK	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	21/11/23	SPS	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL TYPICAL INSTALLATION DETAILS-POWER SYSTEM & CABLE INSTALLATION
CABLES INSTALLATION SYSTEM IDENTIFICATION FOR POWER CABLES

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK | SCALE : NTS

A3	DRAWING NO.	SHEET	REV.
	123A90-DDL-EL-DD-20092	007	02

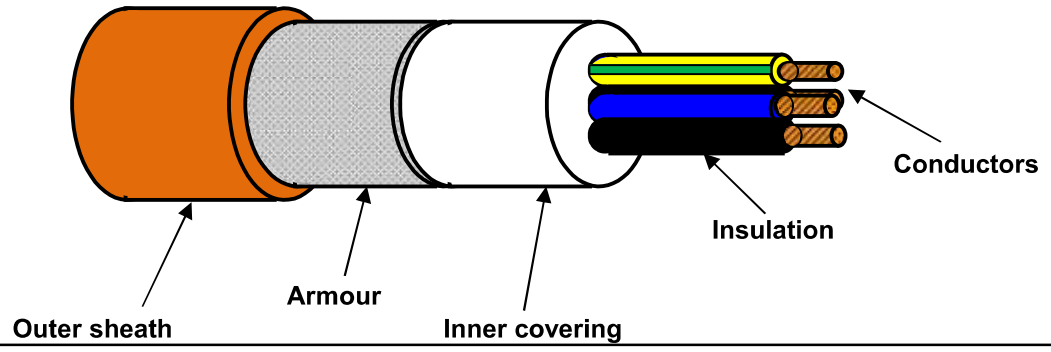
F.to UNI A3: 420mmx297mm

File Name : 123A90-DDL-EL-DD-20092 REV.02.DWG

Tag Number	Category	Discipline	Eng Status	NativeDoc	Layout	Parent Tag	Main Function	Secondary Function	Area	From Tag	From Main Function	From Area	To Tag	To Main Function	To Area	Material ID	Material Desc.	Gland Standard	From Gland	From Entry	From Fitting	To Gland	To Entry	To Fitting	Routing	Routing Manual
P-ELF-200N1-02-L1-12	Cable	LSP	VFC	123A90-DDL-EL-LIS-20148						EJB-200N1-02-L1-09	Normal Lighting JB	Upper Deck	ELF-200N1-02-L1-12	Normal Lighting Fixture	Upper Deck	ELECV19-3G2,5	Cable Cu Cl.2/MGT/EPR/LSZH/GSWB/LSZH 0,6/1kV 3G2,5mm² - Orange	M20	T2_M20_Double			T2_M20_Double				L-50-102-LVT-058 / L-150-102-LVT-008

Cu Cl.2/MGT/EPR/LSZH/GSWB/LSZH 0,6/1 KV

3G2,5 - L.V. POWER CABLE - Fire Resistant & Flame Retardant - ARMOURED



TECHNICAL FEATURES

Conductors :	**STRANDED** plain/bare annealed copper wires	IEC 60228 Class 2
Insulation :	Mica/Glass Tape (MGT) plus EPR compound, quality to IEC 60092.360, Nominal Thickness 1,0 mm	
Cores colour code :	**Brown - Blue - Yellow/Green**	
Pair Assembling :	Not required	
Pair Wrapping:	Not required	
Drain wire :	Not required	
Pair Shield :	Not required	
Shield Insulation :	Not Required	
Total Assembling :	Cores layed up with optimal lay length	
Overall Wrapping:	Not required	
Drain wire :	Not required	
Overall Shield:	Not required	
Inner covering :	Extruded LSZH compound, Average Thickness 1,0 mm	
Inner covering color code:	**Black or Natural**	
Armour :	**Galvanized Steel Wire Braid Armour (coverage ≥ 90%)**	
Outer sheath :	Extruded LSZH Thermoplastic Compound (O.I. ≥ 30%), type **SHF1** to IEC 60093.360, Average Thickness 1,3 mm	
Outer sheath color code:	**Orange**	
Outer printing (INKJET) :	**FLEI - ELECTRIC CABLE - 1000V - 3G2,5 SQMM - MGT/EPR/LSZH/GSWB/LSZH - 0,6/1 KV - IEC 60331.21 - IEC 60332.1.2 - IEC 60332.3.22 - Year of Manufacture - CE + Meter Marking**	
Under Armour diameter :	(11,7 ± 10%) mm	
Over Armour diameter :	(12,9 ± 10%) mm	
Outer diameter :	(15,5 ± 10%) mm	
Bending radius :	cable outer diameter x 10	(in fixed installation)
Voltage test :	3,5 kV a.c. for 5' (Between Cores - Armour)	
Conductors DC Resistance :		IEC 60228 Class 2
Insulation Resistance :	≥ 940 MΩ x Km (@ 20°C)	
Applicable Standards		
Design Guidelines :	**IEC 60092.353**	
ON COMPLETE CABLE		
Fire Resistant test :	**IEC 60331.21**	
Flame Retardant test :	IEC 60332.1.2 - IEC 60332.3.22	
Acid Gas generation :	IEC 60754.1/2	
Smoke density/Light Transmittance	IEC 61034.2 (LT ≥ 60%)	
Temperature Range :		
ON INSULATION	(max +90°C)	(max continuous operation temperature of conductors)
	(max +250°C)	(max conductors temperature during short-circuit for 5 seconds)
ON COMPLETE CABLE		
During Operation :	(-20°C up to +90°C)	(in fixed installation)
During installation :	(- 5°C up to +50°C)	
Note :	**To meet the requirements of installation and use in Zone 1 & Zone 2 (IEC 60079-14) and "Gas & Vapour Tight" the cable must be provided with Penetrating Inner covering together with correct ATEX approved equipment or accessories.**	

Office	Date	Sign	Rev.	Date	Sign
Drawn by :	29/03/2024	Messa			
Checked :	29/03/2024	Spaccasassi			
Approved :	29/03/2024	Cucinotta			

The data provided, lending assent for the treatment, will be used to the sense of the article 13 of of the Regulation (UE) 2016/679, also through outsiders, in order to allow the realization of the fulfilments informatives, administrative, commercial and accounting related to the contractual relationship. Integral copy of the informative could be requested at our offices.

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ITEM	Tag	P-EJB-200N1-02-L1-08	: Normal Lighting JB / Normal Lighting JB			Dwg	123A90-DDL-EL-LIS-20148
	S/Sys	83-40	: Normal Lighting Upper Deck			Module	UD
TASK	code	C10000678		Location	Onshore Activities	User	Rosetti Marino Quality Control
FORM	Process	MC	Activity CCK	Discipline	Electrical	Form	CPX09 LV Power Cable

CABLE DATA

Type Cu Cl.2/MGT/EPR/LSZH/GSWB/LSZH Cores/Size mm² 3G4 mm2 Color ORANGE

From EJB-200N1-02-L1-03 To EJB-200N1-02-L1-08

1	Confirm cable is as specified in project cable schedule	OK
2	Visual Check cable physical integrity.	OK
3	Check is installed in accordance with layout drawing (segregation, distance…).	OK
4	Check cable is supported and fixed to rack according to project specification.	Note
5	Check bending radius is within the specified limits.	OK
6	Confirm cable glands suit for cable type, correctly mounted and tightened.	PL
7	Check gland plate for single core cables is non ferrous (non -magnetic).	NA
8	Confirm cable labelling is in accordance with specifications.	PL
9	Check cable is correctly loomed and segregated in accordance with specification.	OK
10	Check cable earthing against lastest drawings.	OK
11	Check cores marking are in accordance with termination diagram	PL
12	Check terminations are in accordance with latest termination diagram	OK
13	If required produce Red Line Mark Up for "AS BUILT"	

ROSETTI MARINO PROVERLIS CROSSWIND

ITEM	Tag	P-EJB-200N1-02-L1-08	: Normal Lighting JB / Normal Lighting JB			Dwg	123A90-DDL-EL-LIS-20148
	S/Sys	83-40	: Normal Lighting Upper Deck			Module	UD
TASK	code	C10000678		Location	Onshore Activities	User	Rosetti Marino Quality Control
FORM	Process	MC	Activity CCK	Discipline	Electrical	Form	CPX09 LV Power Cable

	CONTINUITY			
5	CORE CONTINUITY Ω	PH 1	0,6	
6		PH 2	0,6	
7		PH 3	NA	
8	ARMOUR CONTINUITY Ω		0,6	
9	PROTECTIVE CONDUCTOR CONTINUITY Ω		0,6	
	INSULATION			
10	CORES / ARMOUR+EARTH MΩ	PH1 / PH2-PH3-A-E	>999	
11		PH2 / PH1-PH3-A-E	>999	
12		PH3 / PH1-PH2-A-E	NA	
13	CABLE IS CORRECTLY RE-CONNECTED.		Yes	

TESTING INSTRUMENTS USED

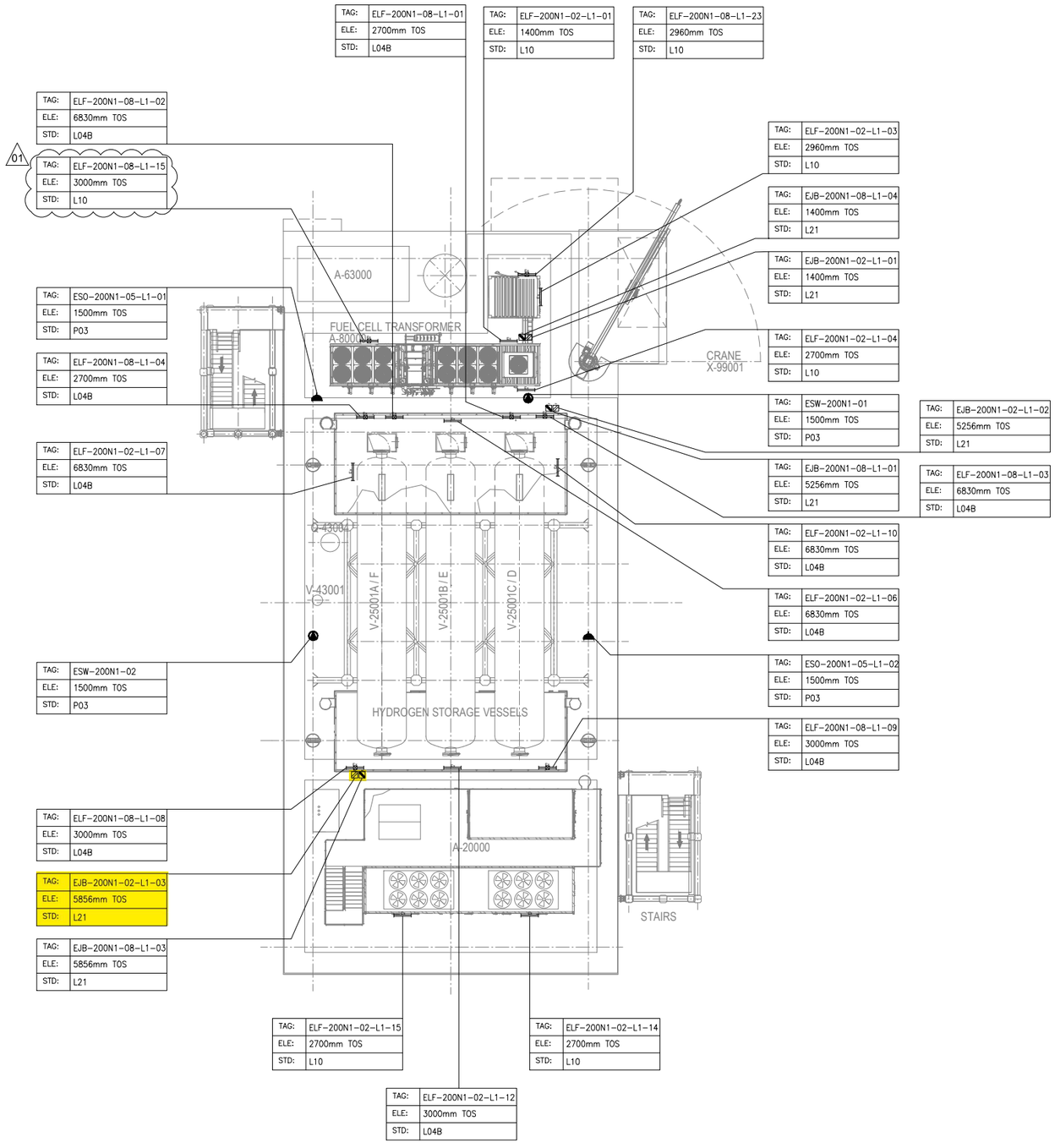
TYPE / SERIAL N° :	MEGGER : KEW3125A SERIAL: W8330207	TYPE / SERIAL N° :	MULTIMETER: FLUKE 175 SERIAL:AW1/018(17140769
Calibration certificate N° and date:	N°7722/24 _ 10/07/2024	Calibration certificate N° and date:	N°7715/24 _ 10/07/2024

Comments: Nota 4: refer to PL C30000679

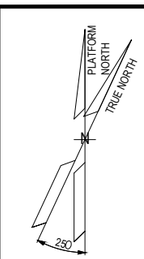
	Performed by	● WITNESS ☐ REVIEW	☐ WITNESS ☐ REVIEW
Company	ICS IMPIANTI	RM(ROSETTI MARINO)	
Name	Francesco Zucca	Andrea Andreani	
Date	2024-12-28	2025-01-13	
Signature	PROVERLIS Digitaly signed by Francesco Zucca 2024-12-28T07:29:16.298Z	PROVERLIS Digitaly signed by Andrea Andreani 2025-01-13T14:07:52.658Z	

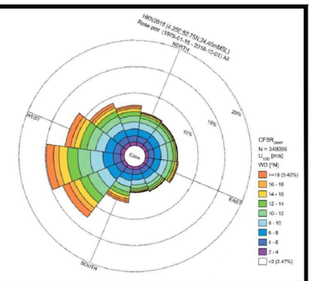
DRAWING NO. 123A90-DDL-EL-DL-20118

REV. 01



PLAN ON UPPER DECK
EL+30.310 T.O.S.





NOTES

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4. FOR THE ELEVATION OF JB, REFER TO THE TYPICAL INSTALLATION.

LEGEND

- EMERGENCY LIGHTING JB
- 60W LED EMERGENCY LUMINARIES
- 60W LED EMERGENCY LUMINARIES FIXTURE POLE MOUNTED
- NORMAL LIGHTING JB
- 45W LED NORMAL LUMINARIES
- 45W LED NORMAL LUMINARIES FIXTURE POLE MOUNTED
- WELDING SOCKET WITH INTEGRATED JB
- SMALL POWER SOCKET WITH INTEGRATED JB

JB TAG:	JB-TAG
TAG:	TAG
ELE:	ELEVATION
STD:	STANDARD

VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DL-20118**

REV.:	DATE:	SIGNATURE:
1_B	22/10/24	G.Randi

ROSETTI MARINO SpA

REFERENCE DOCUMENTS

123A90-DDL-PP-DL-70070	PLOT PLAN - LOWER & UPPER DECK
123A90-DDL-EL-DL-20100	ELECTRICAL EQUIPMENT LAYOUT - TOP DECK
123A90-DDL-EL-DD-20091	ELECTRICAL TYPICAL INSTALLATION DETAILS - LIGHTING SYSTEM
123A90-DDL-EL-DD-20092	ELECTRICAL TYPICAL INSTALLATION DETAILS - POWER SYSTEM & CABLE INSTALLATION
123A90-DDL-EL-RE-20153	LIGHTING CALCULATION STUDY REPORT

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	02/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	28/05/24	ASR	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND

ROSETTI MARINO

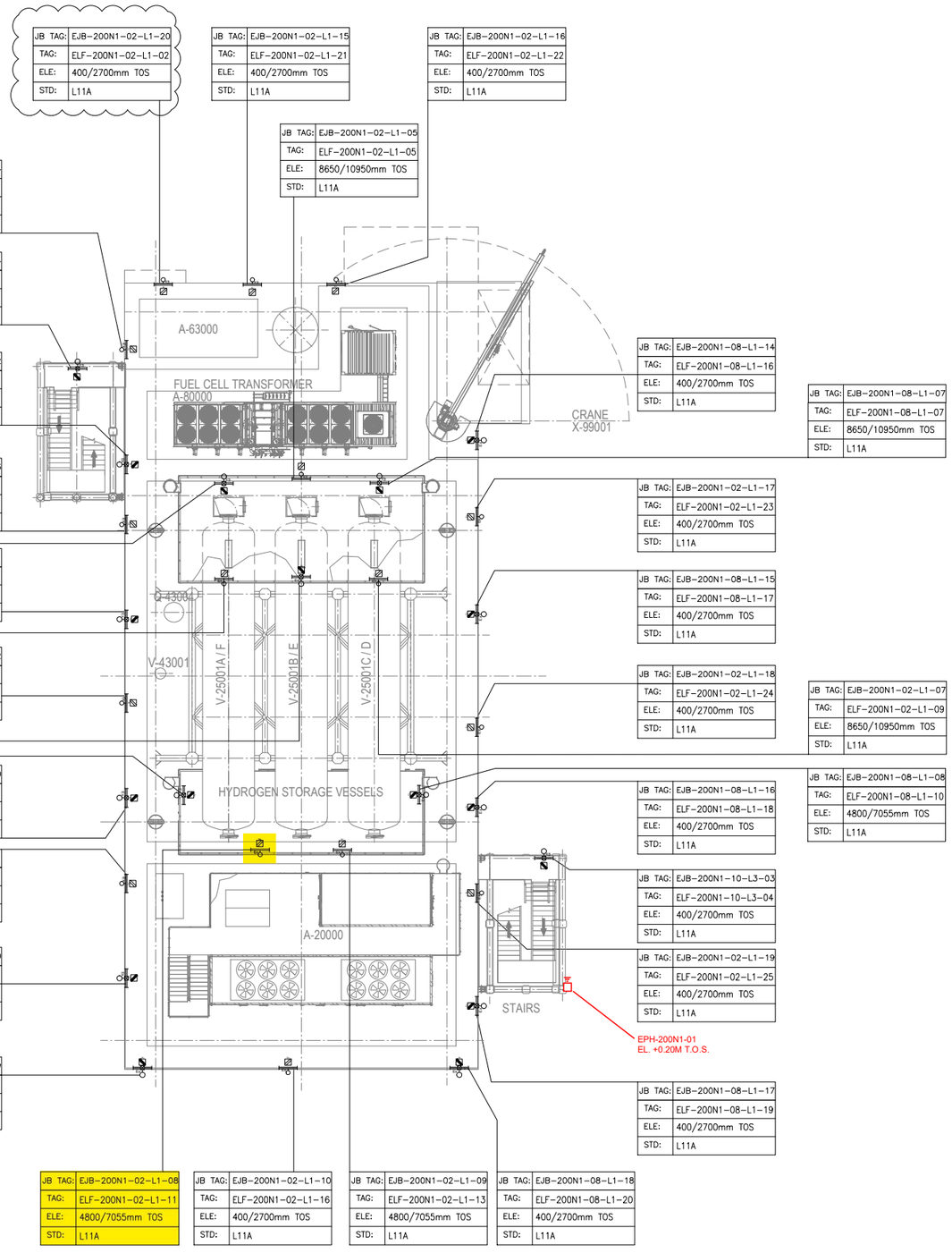
TITLE :
BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET LAYOUT – TOP DECK

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK			SCALE 1:150
DRAWN ASR	CHECKED FMA/AMA	APPROVED FPA/DLO	DATE 01/08/24
A1	DRAWING NO. 123A90-DDL-EL-DL-20118	SHEET 2of2	REV. 01

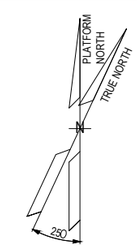
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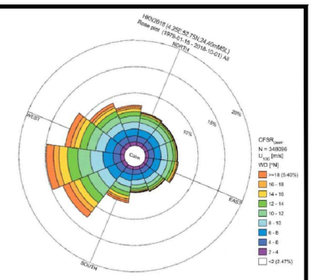
DRAWING NO. 123A90-DDL-EL-DL-20118

REV. 01



PLAN ON UPPER DECK
EL+30.310 T.O.S.





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00	28/05/24	ASR	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND | ROSETTI MARINO

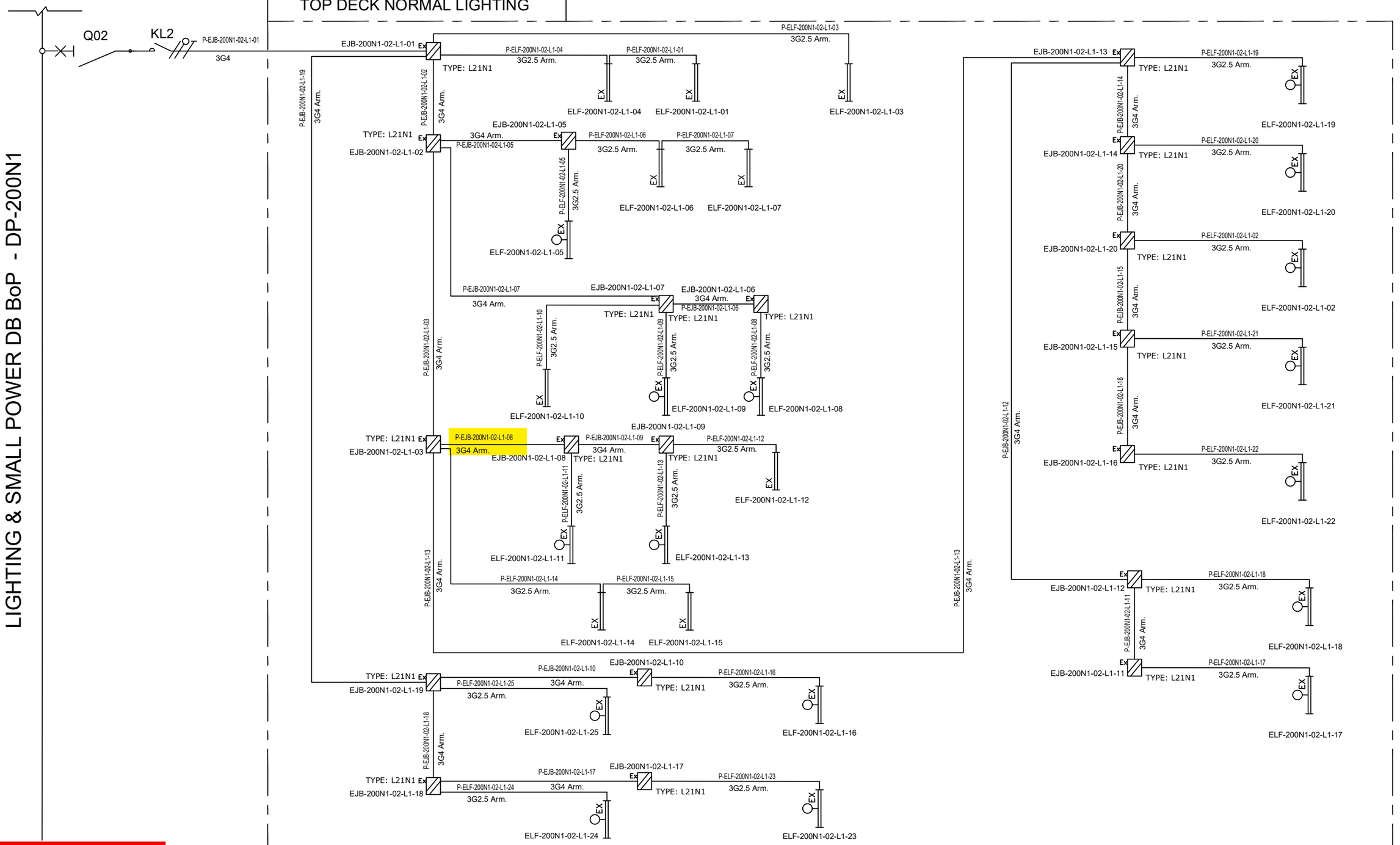
TITLE :
BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET LAYOUT – TOP DECK

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK			SCALE 1:150
DRAWN ASR	CHECKED FMA/AMA	APPROVED FPA/DLO	DATE 01/08/24
A1	DRAWING NO. 123A90-DDL-EL-DL-20118	SHEET 1of2	REV. 01

File Name : 123A90-DDL-EL-DL-20118

LIGHTING & SMALL POWER DB BoP - DP-200N1

TOP DECK NORMAL LIGHTING



VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DG-20125**

REV.:	DATE:	SIGNATURE:
2_C	20/12/24	V.Ramponi

ROSETTI MARINO SpA

CROSSWIND

ROSETTI MARINO

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	08/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	01/07/24	ASR	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

TITLE : BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET CIRCUIT DIAGRAM
TOP DECK–NORMAL LIGHTING

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE : NTS

A3

DRAWING NO. 123A90–DDL–EL–DG–20125

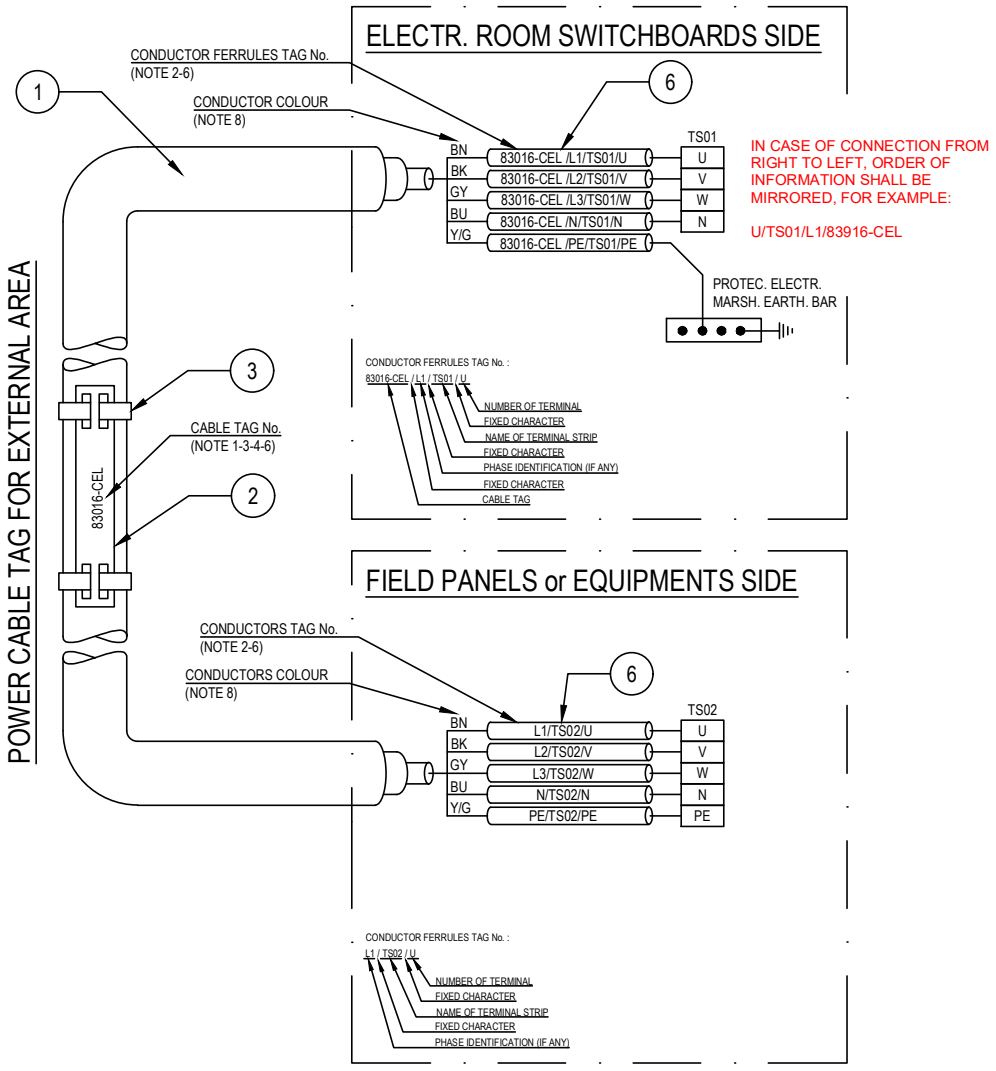
SHEET 010

REV. 01

F.to UNI A3: 420mmx297mm

File Name : 123A90–DDL–EL–DG–20125

C02



POS.	DESCRIPTION	MATERIAL	SIZE	Q.TY	NOTE
1	UNARMOURED CABLE				
2	CABLE TAG FOR EXTERNAL AREA	HDG/SS			NOTE 1 NOTE 4
3	TIE FOR CABLE TAG IN EXTERNAL AREA	HDG/SS			
4	CABLE TAG FOR INTERNAL AREA	PVC			NOTE 1 NOTE 5
5	TIE FOR CABLE TAG IN INTERNAL AREA	NYLON 6.6			
6	CORE FERRULES	PVC			

NOTES:

1) ALL CABLES SHALL BE IDENTIFIED AT EACH TERMINATION AND EACH SIDE OF ANY OBSTACLE (E.G. CABLE TRANSIT ON WALLS INSIDE SHELTER AND FLOOR DECK CROSSING, BY THEIR RESPECTIVE TAGS/NUMBERS, AS INDICATED ON THE CABLE SCHEDULE.
CABLE IDENTIFICATION SHALL BE ALSO DONE BELOW AND IN THE SWITCHBOARD CABLE COMPARTMENT.

2) CABLE CORE FERRULES SHALL BE FITTED AT EVERY TERMINATION. THESE FERRULES SHALL BE OF ENGRAVED PLASTIC SLIP ON, INTERLOCKED AND SELF GRIP TYPE.

3) ON CABLE TRAYS OR LADDERS, CABLES SHALL BE IDENTIFIED AT EACH END, AND EVERY 25 METERS.

4) THE CABLE TAG FOR EXTERNAL AREA SHALL DONE BY 316L STAINLESS STEEL LABELS, TAG (H=5mm) SHALL BE LASER PRINTED PREFERABLY OR EMBOSSED, LABEL HELD BY TWO 316L STAINLESS STEEL TIES.

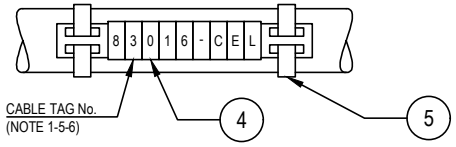
5) THE CABLE TAG FOR INTERNAL AREA SHALL BE DONE BY ENGRAVED PLASTIC SLIP ON CHARACTERS ONTO PLASTIC TIE, BLACK LETTER (H=5mm) ON WHITE.

6) CABLE AND CONDUCTOR TAG ARE INDICATIVE ONLY.

7) WITHIN TECHNICAL BUILDING, PROTECTIVE CONDUCTOR SHALL BE TAGGED BETWEEN FOLLOWING ITEMS:
- PANEL (SWITCHBOARD, SWITCHGEAR, DISTRIBUTION BOARD, ETC) AND EARTH BAR
- EARTH BAR AND EARTH BOSS

8) ONLY IF NECESSARY, SHRINK TUBES OF THE APPROPRIATE COLOR WILL BE INSTALLED TO COVER THE WRONG CONDUCTOR COLOR, THIS WILL BE PERFORMED IN EACH SIDE OF THE CABLES WHERE NECESSARY.

POWER CABLE TAG FOR INTERNAL AREA



VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DD-20092**

REV.:	DATE:	SIGNATURE:
2_D	20/12/24	V.Ramponi

ROSETTI MARINO SpA

CROSSWIND

ROSETTI MARINO

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	28/08/24	GRA	AMA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	04/07/24	NLK	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	21/11/23	SPS	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL TYPICAL INSTALLATION DETAILS-POWER SYSTEM & CABLE INSTALLATION
CABLES INSTALLATION SYSTEM IDENTIFICATION FOR POWER CABLES

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK | SCALE : NTS

A3 | DRAWING NO. 123A90-DDL-EL-DD-20092 | SHEET 007 | REV. 02

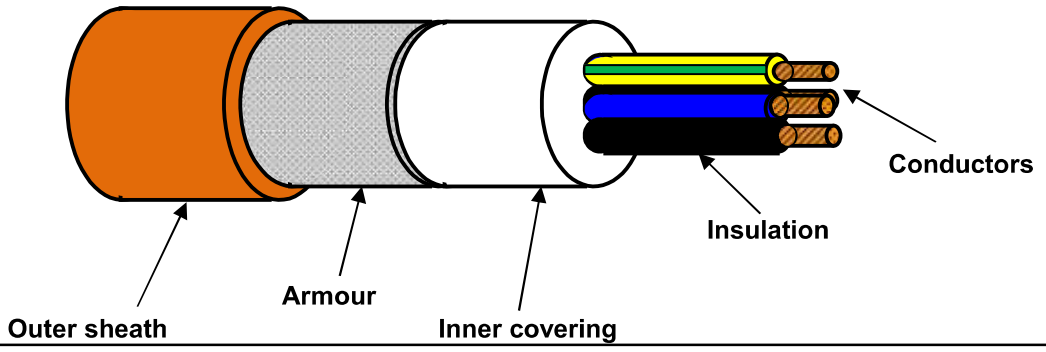
F.to UNI A3: 420mmx297mm

File Name : 123A90-DDL-EL-DD-20092 REV.02.DWG

Tag Number	Category	Disciplir	Eng Statu	NativeDoc	Layout	Parent Tag	Main Function	Secondary Fun	Area	From Tag	From Main Function	From Area	To Tag	To Main Function	To Area	Material ID	Material Desc.	Gland Standard	From Glan	From Entry	From Fitt	To Gland	To Entry	To Fitting	Routing	Routing Manual
P-EJB-200N1-02-L1-08	Cable	LSP	VFC	123A90-DDL-EL-LIS-20148						EJB-200N1-02-L1-03	Normal Lighting JB	Upper Deck	EJB-200N1-02-L1-08	Normal Lighting JB	Upper Deck	ELECV38-3G4	Cable Cu Cl.2/MGT/EPR/LSZH/GSWB/LSZH 0,6/1kV 3G4mm² - Orange	M20	T2_M20_ Double			T2_M20_Double				L-150-102-LVT-013 / L-150-102-LVT-008 / L-50-102-LVT-057

Cu Cl.2/MGT/EPR/LSZH/GSWB/LSZH 0,6/1 KV

3G4 - L.V. POWER CABLE - Fire Resistant & Flame Retardant - ARMOURED



TECHNICAL FEATURES

Conductors :	**STRANDED** plain/bare annealed copper wires	IEC 60228 Class 2
Insulation :	Mica/Glass Tape (MGT) plus EPR compound, quality to IEC 60092.360, Nominal Thickness 1,0 mm	
Cores colour code :	**Brown - Blue - Yellow/Green**	
Pair Assembling :	Not required	
Pair Wrapping:	Not required	
Drain wire :	Not required	
Pair Shield :	Not required	
Shield Insulation :	Not Required	
Total Assembling :	Cores layed up with optimal lay length	
Overall Wrapping:	Not required	
Drain wire :	Not required	
Overall Shield:	Not required	
Inner covering :	Extruded LSZH compound, Average Thickness 1,0 mm	
Inner covering color code:	**Black or Natural**	
Armour :	**Galvanized Steel Wire Braid Armour (coverage ≥ 90%)**	
Outer sheath :	Extruded LSZH Thermoplastic Compound (O.I. ≥ 30%), type **SHF1** to IEC 60093.360, Average Thickness 1,4 mm	
Outer sheath color code:	**Orange**	
Outer printing (INKJET) :	**FLEI - ELECTRIC CABLE - 1000V - 3G4 SQMM - MGT/EPR/LSZH/GSWB/LSZH - 0,6/1 KV - IEC 60331.21 -**	
	IEC 60332.1.2 - IEC 60332.3.22 - Year of Manufacture - CE + Meter Marking	
Under Armour diameter :	(13,0 ± 10%) mm	
Over Armour diameter :	(14,2 ± 10%) mm	
Outer diameter :	(17,0 ± 10%) mm	
Bending radius :	cable outer diameter x 10	(in fixed installation)
Voltage test :	3,5 kV a.c. for 5' (Between Cores - Armour)	
Conductors DC Resistance :		IEC 60228 Class 2
Insulation Resistance :	≥ 790 MΩ x Km (@ 20°C)	
Applicable Standards		
Design Guidelines :	**IEC 60092.353**	
ON COMPLETE CABLE		
Fire Resistant test :	**IEC 60331.21**	
Flame Retardant test :	IEC 60332.1.2 - IEC 60332.3.22	
Acid Gas generation :	IEC 60754.1/2	
Smoke density/Light Transmittance	IEC 61034.2 (LT ≥ 60%)	
Temperature Range :		
ON INSULATION	(max +90°C)	(max continuous operation temperature of conductors)
	(max +250°C)	(max conductors temperature during short-circuit for 5 seconds)
ON COMPLETE CABLE		
During Operation :	(-20°C up to +90°C)	(in fixed installation)
During installation :	(- 5°C up to +50°C)	
Note :	**To meet the requirements of installation and use in Zone 1 & Zone 2 (IEC 60079-14) and "Gas & Vapour Tight" the cable must be provided with Penetrating Inner covering together with correct ATEX approved equipment or accessories.**	

Office	Date	Sign	Rev.	Date	Sign
Drawn by :	29/03/2024	Messa			
Checked :	29/03/2024	Spaccasassi			
Approved :	29/03/2024	Cucinotta			

The data provided, lending assent for the treatment, will be used to the sense of the article 13 of of the Regulation (UE) 2016/679, also through outsiders, in order to allow the realization of the fulfilments informatives, administrative, commercial and accounting related to the contractual relationship. Integral copy of the informative could be requested at our offices.

All proprietary rights reserved according to law. This document shall be not reproduced without written permission. FLEI reserves the right to change characteristics and technical data of product shown at any time.

ITEM	Tag	P-ELF-200N1-02-L1-11	: Normal Lighting JB / Normal Lighting Fixture			Dwg	123A90-DDL-EL-LIS-20148
	S/Sys	83-40	: Normal Lighting Upper Deck			Module	UD
TASK	code	C10000679		Location	Onshore Activities	User	Rosetti Marino Quality Control
FORM	Process	MC	Activity CCK	Discipline	Electrical	Form	CPX09 LV Power Cable

CABLE DATA

Type Cu Cl.2/MGT/EPR/LSZH/GSWB/LSZH Cores/Size mm² 3G2,5 mm2 Color ORANGE

From EJB-200N1-02-L1-08 To ELF-200N1-02-L1-11

1	Confirm cable is as specified in project cable schedule	OK
2	Visual Check cable physical integrity.	OK
3	Check is installed in accordance with layout drawing (segregation, distance…).	OK
4	Check cable is supported and fixed to rack according to project specification.	Note
5	Check bending radius is within the specified limits.	OK
6	Confirm cable glands suit for cable type, correctly mounted and tightened.	OK
7	Check gland plate for single core cables is non ferrous (non -magnetic).	NA
8	Confirm cable labelling is in accordance with specifications.	PL
9	Check cable is correctly loomed and segregated in accordance with specification.	OK
10	Check cable earthing against lastest drawings.	OK
11	Check cores marking are in accordance with termination diagram	OK
12	Check terminations are in accordance with latest termination diagram	OK
13	If required produce Red Line Mark Up for "AS BUILT"	

ROSETTI MARINO PROVERLIS CROSSWIND

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TASK	code	C10000679		Location	Onshore Activities	User	Rosetti Marino Quality Control
FORM	Process	MC	Activity CCK	Discipline	Electrical	Form	CPX09 LV Power Cable

	CONTINUITY			
5	CORE CONTINUITY Ω	PH 1	0,2	
6		PH 2	0,2	
7		PH 3	NA	
8	ARMOUR CONTINUITY Ω		0,2	
9	PROTECTIVE CONDUCTOR CONTINUITY Ω		0,2	
	INSULATION			
10	CORES / ARMOUR+EARTH MΩ	PH1 / PH2-PH3-A-E	>999	
11		PH2 / PH1-PH3-A-E	>999	
12		PH3 / PH1-PH2-A-E	NA	
13	CABLE IS CORRECTLY RE-CONNECTED.		Yes	

TESTING INSTRUMENTS USED

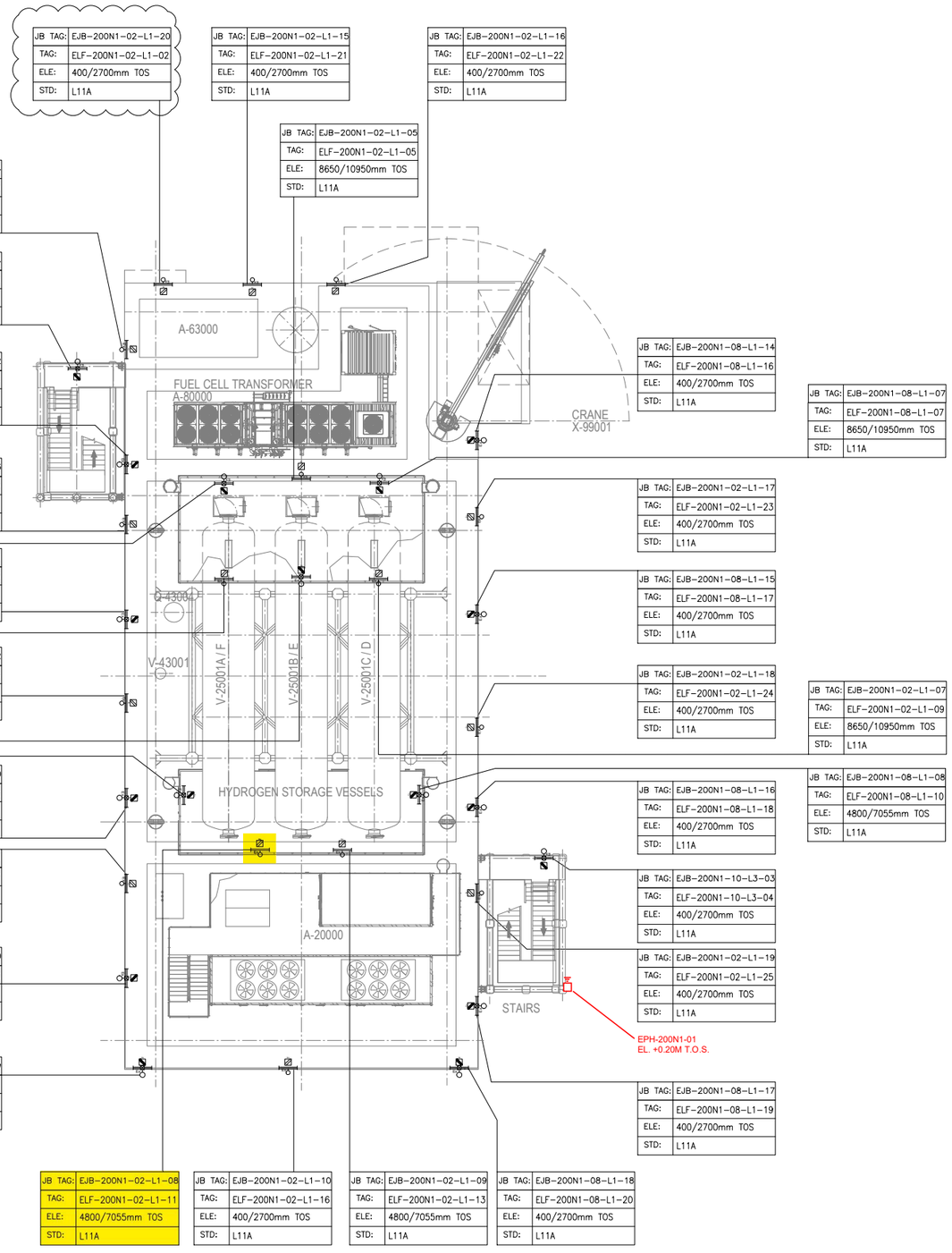
TYPE / SERIAL N° :	MEGGER : KEW3125A SERIAL: W8330207	TYPE / SERIAL N° :	MULTIMETER: FLUKE 175 SERIAL:AW1/018(17140769
Calibration certificate N° and date:	N°7722/24 _ 10/07/2024	Calibration certificate N° and date:	N°7715/24 _ 10/07/2024

Comments: Nota 4: refer to PL C30000679

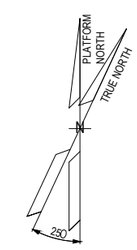
	Performed by	● WITNESS ☐ REVIEW	☐ WITNESS ☐ REVIEW
Company	ICS IMPIANTI	RM(ROSETTI MARINO)	
Name	Francesco Zucca	Andrea Andreani	
Date	2024-11-29	2025-01-13	
Signature	PROVERLIS Digitaly signed by Francesco Zucca 2024-11-29T10:32:21.654Z	PROVERLIS Digitaly signed by Andrea Andreani 2025-01-13T14:26:18.143Z	

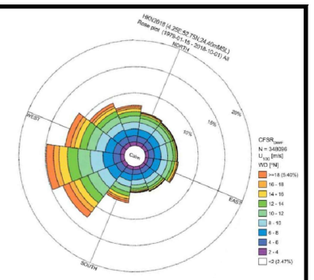
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REV. 01



PLAN ON UPPER DECK
EL+30.310 T.O.S.





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ELE:	ELEVATION
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FDL DWG: **123A90-FDL-EL-DL-20118**

REV.:	DATE:	SIGNATURE:
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ROSETTI MARINO SpA

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123A90-DDL-EL-DD-20091	ELECTRICAL TYPICAL INSTALLATION DETAILS - LIGHTING SYSTEM
123A90-DDL-EL-DD-20092	ELECTRICAL TYPICAL INSTALLATION DETAILS - POWER SYSTEM & CABLE INSTALLATION
123A90-DDL-EL-RE-20153	LIGHTING CALCULATION STUDY REPORT

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CROSSWIND | ROSETTI MARINO

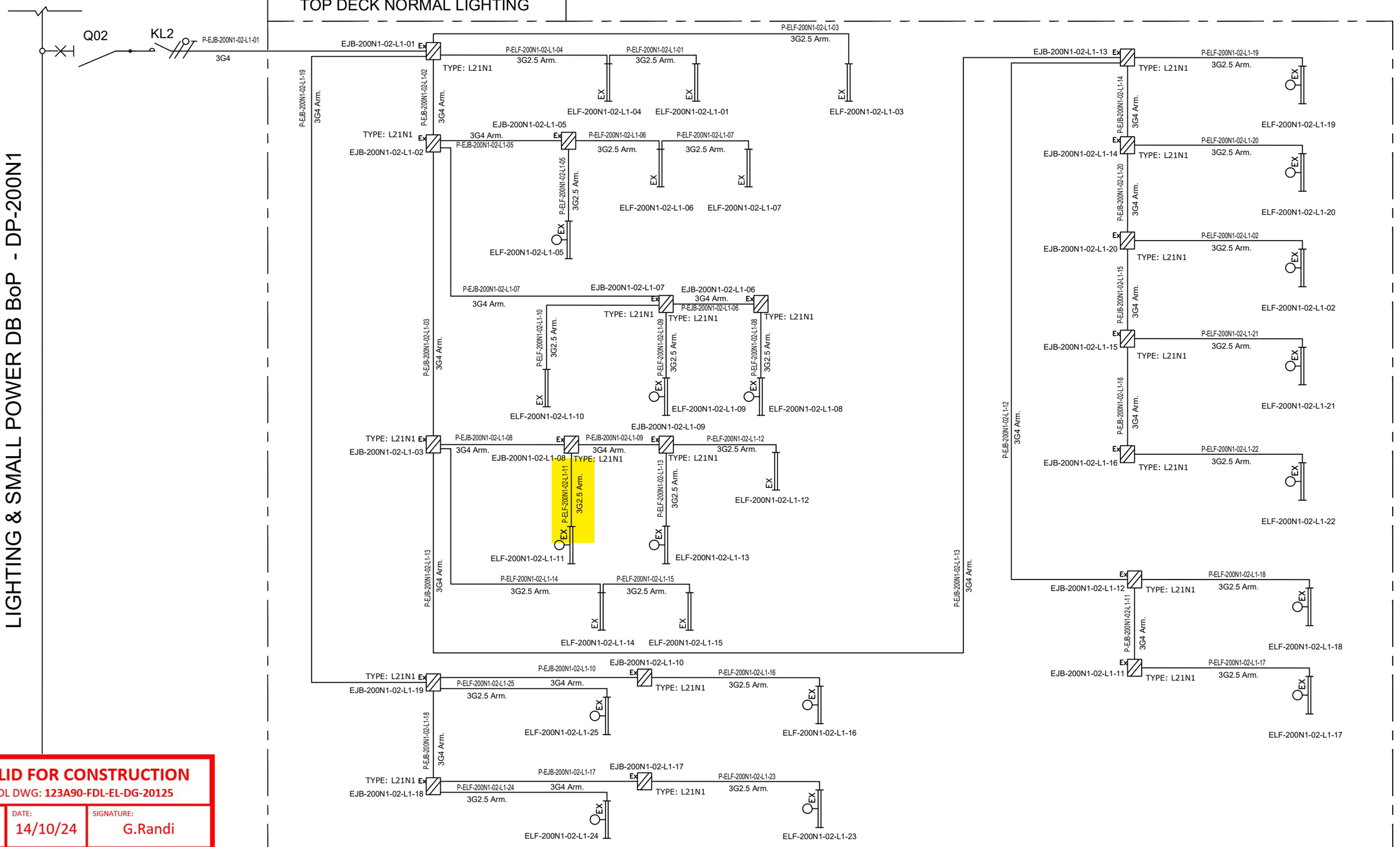
TITLE :
BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET LAYOUT – TOP DECK

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK			SCALE 1:150
DRAWN ASR	CHECKED FMA/AMA	APPROVED FPA/DLO	DATE 01/08/24
A1	DRAWING NO. 123A90-DDL-EL-DL-20118	SHEET 1of2	REV. 01

File Name : 123A90-DDL-EL-DL-20118

LIGHTING & SMALL POWER DB BoP - DP-200N1

TOP DECK NORMAL LIGHTING



VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DG-20125**

REV.:	DATE:	SIGNATURE:
1_B	14/10/24	G.Randi

ROSETTI MARINO SpA

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
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00	01/07/24	ASR	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

TITLE : BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET CIRCUIT DIAGRAM
TOP DECK–NORMAL LIGHTING

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK | SCALE : NTS

A3 | DRAWING NO. 123A90-DDL-EL-DG-20125 | SHEET 010 | REV. 01

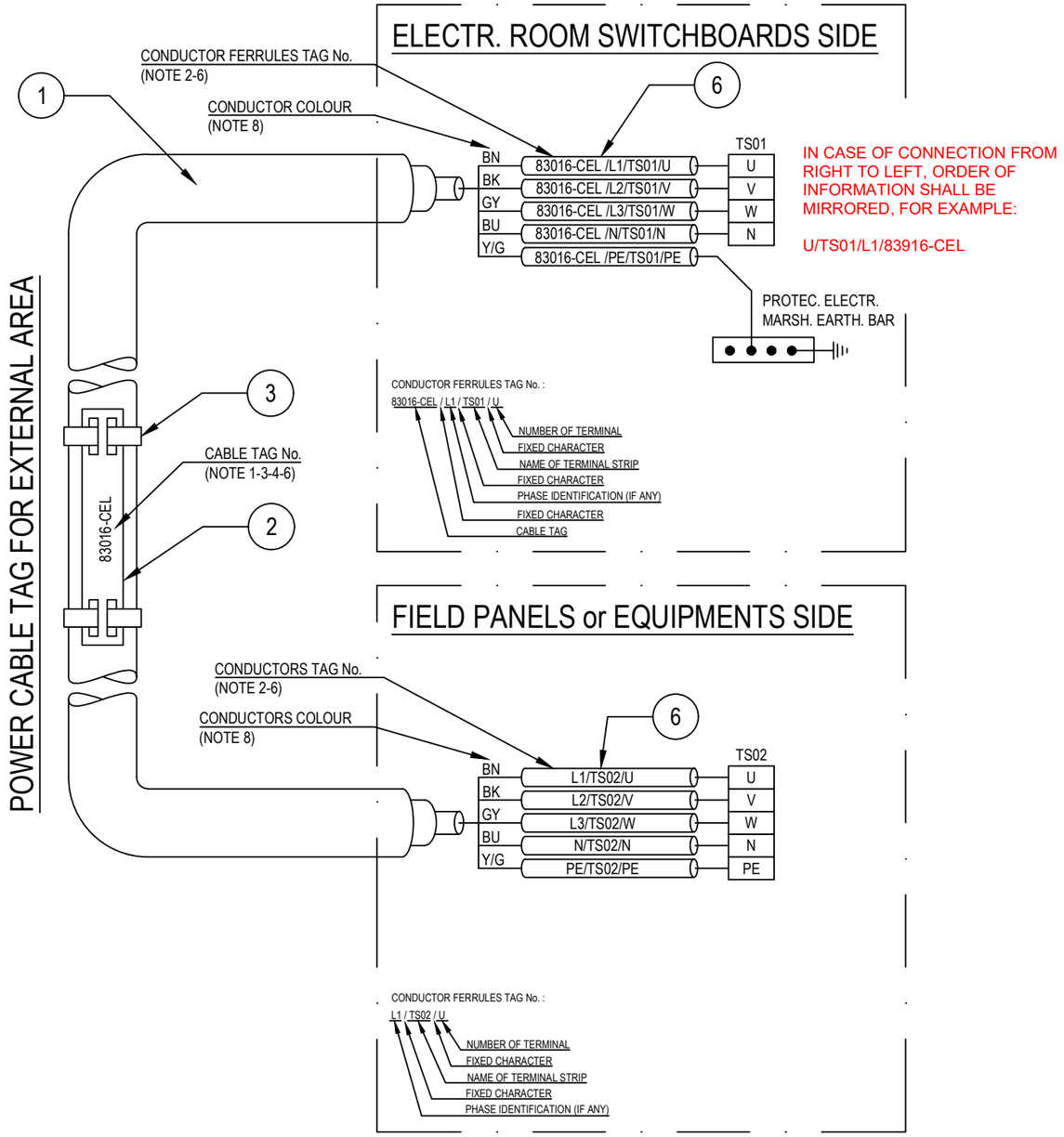
CROSSWIND

ROSETTI MARINO

F.to UNI A3: 420mmx297mm

File Name : 123A90-DDL-EL-DG-20125

C02



POS.	DESCRIPTION	MATERIAL	SIZE	Q.TY	NOTE
1	UNARMOURED CABLE				
2	CABLE TAG FOR EXTERNAL AREA	HDG/SS			NOTE 1 NOTE 4
3	TIE FOR CABLE TAG IN EXTERNAL AREA	HDG/SS			
4	CABLE TAG FOR INTERNAL AREA	PVC			NOTE 1 NOTE 5
5	TIE FOR CABLE TAG IN INTERNAL AREA	NYLON 6.6			
6	CORE FERRULES	PVC			

NOTES:

1) ALL CABLES SHALL BE IDENTIFIED AT EACH TERMINATION AND EACH SIDE OF ANY OBSTACLE (E.G. CABLE TRANSIT ON WALLS INSIDE SHELTER AND FLOOR DECK CROSSING, BY THEIR RESPECTIVE TAGS/NUMBERS, AS INDICATED ON THE CABLE SCHEDULE.
CABLE IDENTIFICATION SHALL BE ALSO DONE BELOW AND IN THE SWITCHBOARD CABLE COMPARTMENT.

2) CABLE CORE FERRULES SHALL BE FITTED AT EVERY TERMINATION. THESE FERRULES SHALL BE OF ENGRAVED PLASTIC SLIP ON, INTERLOCKED AND SELF GRIP TYPE.

3) ON CABLE TRAYS OR LADDERS, CABLES SHALL BE IDENTIFIED AT EACH END, AND EVERY 25 METERS.

4) THE CABLE TAG FOR EXTERNAL AREA SHALL DONE BY 316L STAINLESS STEEL LABELS, TAG (H=5mm) SHALL BE LASER PRINTED PREFERABLY OR EMBOSSED, LABEL HELD BY TWO 316L STAINLESS STEEL TIES.

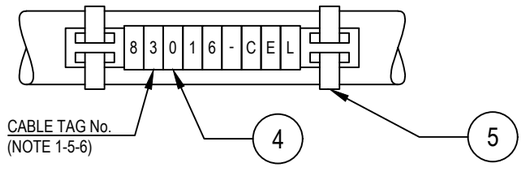
5) THE CABLE TAG FOR INTERNAL AREA SHALL BE DONE BY ENGRAVED PLASTIC SLIP ON CHARACTERS ONTO PLASTIC TIE, BLACK LETTER (H=5mm) ON WHITE.

6) CABLE AND CONDUCTOR TAG ARE INDICATIVE ONLY.

7) WITHIN TECHNICAL BUILDING, PROTECTIVE CONDUCTOR SHALL BE TAGGED BETWEEN FOLLOWING ITEMS:
- PANEL (SWITCHBOARD, SWITCHGEAR, DISTRIBUTION BOARD, ETC) AND EARTH BAR
- EARTH BAR AND EARTH BOSS

8) ONLY IF NECESSARY, SHRINK TUBES OF THE APPROPRIATE COLOR WILL BE INSTALLED TO COVER THE WRONG CONDUCTOR COLOR, THIS WILL BE PERFORMED IN EACH SIDE OF THE CABLES WHERE NECESSARY.

POWER CABLE TAG FOR INTERNAL AREA



VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DD-20092**

REV.:	DATE:	SIGNATURE:
2_B	28/11/24	G.Randi

ROSETTI MARINO SpA

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	28/08/24	GRA	AMA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	04/07/24	NLK	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	21/11/23	SPS	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL TYPICAL INSTALLATION DETAILS-POWER SYSTEM & CABLE INSTALLATION
CABLES INSTALLATION SYSTEM IDENTIFICATION FOR POWER CABLES

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK | SCALE : NTS

A3	DRAWING NO.	SHEET	REV.
	123A90-DDL-EL-DD-20092	007	02

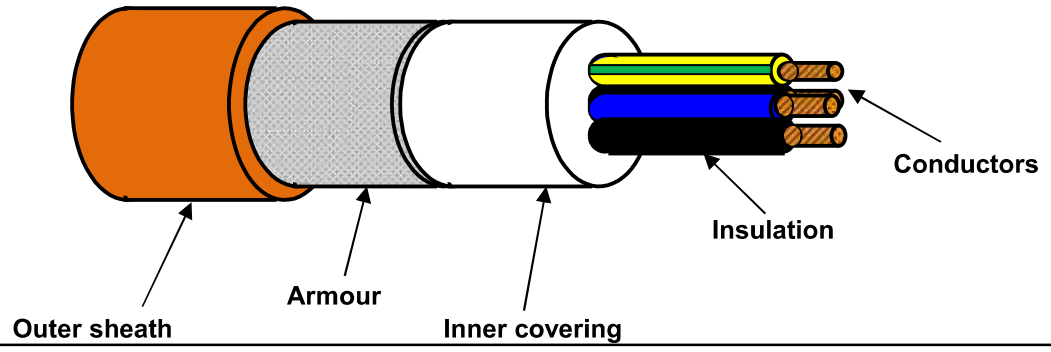
F.to UNI A3: 420mmx297mm

File Name : 123A90-DDL-EL-DD-20092 REV.02.DWG

Tag Number	Category	Discipline	Eng Status	NativeDoc	Layout	Parent Tag	Main Function	Secondary Function	Area	From Tag	From Main Function	From Area	To Tag	To Main Function	To Area	Material ID	Material Desc.	Gland Standard	From Gland	From Entry	From Fitting	To Gland	To Entry	To Fitting	Routing	Routing Manual
P-ELF-200N1-02-L1-11	Cable	LSP	VFC	123A90-DDL-EL-LIS-20148						EJB-200N1-02-L1-08	Normal Lighting JB	Upper Deck	ELF-200N1-02-L1-11	Normal Lighting Fixture	Upper Deck	ELECV19-3G2,5	Cable Cu Cl.2/MGT/EPR/LSZH/GSWB/LSZH 0,6/1kV 3G2,5mm² - Orange	M20	T2_M20_Double			T2_M20_Double				L-50-102-LVT-046

Cu Cl.2/MGT/EPR/LSZH/GSWB/LSZH 0,6/1 KV

3G2,5 - L.V. POWER CABLE - Fire Resistant & Flame Retardant - ARMOURED



TECHNICAL FEATURES

Conductors :	**STRANDED** plain/bare annealed copper wires	IEC 60228 Class 2
Insulation :	Mica/Glass Tape (MGT) plus EPR compound, quality to IEC 60092.360, Nominal Thickness 1,0 mm	
Cores colour code :	**Brown - Blue - Yellow/Green**	
Pair Assembling :	Not required	
Pair Wrapping:	Not required	
Drain wire :	Not required	
Pair Shield :	Not required	
Shield Insulation :	Not Required	
Total Assembling :	Cores layed up with optimal lay length	
Overall Wrapping:	Not required	
Drain wire :	Not required	
Overall Shield:	Not required	
Inner covering :	Extruded LSZH compound, Average Thickness 1,0 mm	
Inner covering color code:	**Black or Natural**	
Armour :	**Galvanized Steel Wire Braid Armour (coverage ≥ 90%)**	
Outer sheath :	Extruded LSZH Thermoplastic Compound (O.I. ≥ 30%), type **SHF1** to IEC 60093.360, Average Thickness 1,3 mm	
Outer sheath color code:	**Orange**	
Outer printing (INKJET) :	**FLEI - ELECTRIC CABLE - 1000V - 3G2,5 SQMM - MGT/EPR/LSZH/GSWB/LSZH - 0,6/1 KV - IEC 60331.21 - IEC 60332.1.2 - IEC 60332.3.22 - Year of Manufacture - CE + Meter Marking**	
Under Armour diameter :	(11,7 ± 10%) mm	
Over Armour diameter :	(12,9 ± 10%) mm	
Outer diameter :	(15,5 ± 10%) mm	
Bending radius :	cable outer diameter x 10	(in fixed installation)
Voltage test :	3,5 kV a.c. for 5' (Between Cores - Armour)	
Conductors DC Resistance :		IEC 60228 Class 2
Insulation Resistance :	≥ 940 MΩ x Km (@ 20°C)	
Applicable Standards		
Design Guidelines :	**IEC 60092.353**	
ON COMPLETE CABLE		
Fire Resistant test :	**IEC 60331.21**	
Flame Retardant test :	IEC 60332.1.2 - IEC 60332.3.22	
Acid Gas generation :	IEC 60754.1/2	
Smoke density/Light Transmittance	IEC 61034.2 (LT ≥ 60%)	
Temperature Range :		
ON INSULATION	(max +90°C)	(max continuous operation temperature of conductors)
	(max +250°C)	(max conductors temperature during short-circuit for 5 seconds)
ON COMPLETE CABLE		
During Operation :	(-20°C up to +90°C)	(in fixed installation)
During installation :	(- 5°C up to +50°C)	
Note :	**To meet the requirements of installation and use in Zone 1 & Zone 2 (IEC 60079-14) and "Gas & Vapour Tight" the cable must be provided with Penetrating Inner covering together with correct ATEX approved equipment or accessories.**	

Office	Date	Sign	Rev.	Date	Sign
Drawn by :	29/03/2024	Messa			
Checked :	29/03/2024	Spaccasassi			
Approved :	29/03/2024	Cucinotta			

The data provided, lending assent for the treatment, will be used to the sense of the article 13 of of the Regulation (UE) 2016/679, also through outsiders, in order to allow the realization of the fulfilments informatives, administrative, commercial and accounting related to the contractual relationship. Integral copy of the informative could be requested at our offices.

All proprietary rights reserved according to law. This document shall be not reproduced without written permission. FLEI reserves the right to change characteristics and technical data of product shown at any time.

ITEM	Tag	P-EJB-200N1-02-L1-09	: Normal Lighting JB / Normal Lighting JB			Dwg	123A90-DDL-EL-LIS-20148
	S/Sys	83-40	: Normal Lighting Upper Deck			Module	UD
TASK	code	C10000680		Location	Onshore Activities	User	Rosetti Marino Quality Control
FORM	Process	MC	Activity CCK	Discipline	Electrical	Form	CPX09 LV Power Cable

CABLE DATA

Type Cu Cl.2/MGT/EPR/LSZH/GSWB/LSZH Cores/Size mm² 3G4 mm2 Color ORANGE

From EJB-200N1-02-L1-08 To EJB-200N1-02-L1-09

1	Confirm cable is as specified in project cable schedule	OK
2	Visual Check cable physical integrity.	OK
3	Check is installed in accordance with layout drawing (segregation, distance…).	OK
4	Check cable is supported and fixed to rack according to project specification.	Note
5	Check bending radius is within the specified limits.	PL
6	Confirm cable glands suit for cable type, correctly mounted and tightened.	OK
7	Check gland plate for single core cables is non ferrous (non -magnetic).	NA
8	Confirm cable labelling is in accordance with specifications.	PL
9	Check cable is correctly loomed and segregated in accordance with specification.	PL
10	Check cable earthing against lastest drawings.	OK
11	Check cores marking are in accordance with termination diagram	PL
12	Check terminations are in accordance with latest termination diagram	OK
13	If required produce Red Line Mark Up for "AS BUILT"	

ROSETTI MARINO PROVERLIS CROSSWIND

ITEM	Tag	P-EJB-200N1-02-L1-09	: Normal Lighting JB / Normal Lighting JB			Dwg	123A90-DDL-EL-LIS-20148
	S/Sys	83-40	: Normal Lighting Upper Deck			Module	UD
TASK	code	C10000680		Location	Onshore Activities	User	Rosetti Marino Quality Control
FORM	Process	MC	Activity CCK	Discipline	Electrical	Form	CPX09 LV Power Cable

CONTINUITY				
5	CORE CONTINUITY Ω	PH 1	0,8	
6		PH 2	0,8	
7		PH 3	NA	
8	ARMOUR CONTINUITY Ω		0,8	
9	PROTECTIVE CONDUCTOR CONTINUITY Ω		0,8	
INSULATION				
10	CORES / ARMOUR+EARTH MΩ	PH1 / PH2-PH3-A-E	>999	
11		PH2 / PH1-PH3-A-E	>999	
12		PH3 / PH1-PH2-A-E	>999	
13	CABLE IS CORRECTLY RE-CONNECTED.		Yes	

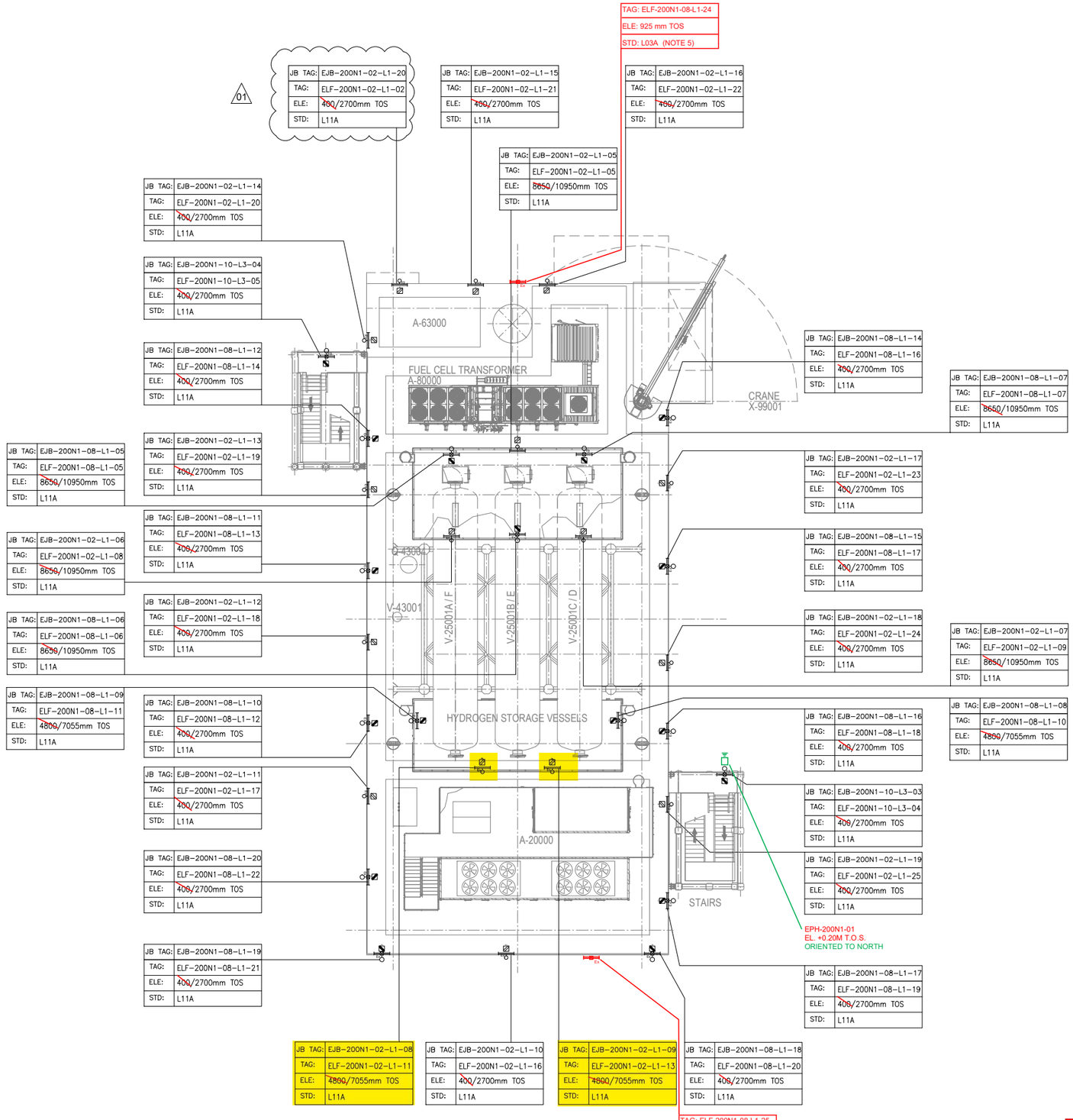
TESTING INSTRUMENTS USED			
TYPE / SERIAL N° :	MEGGER : KEW3125A SERIAL: W8330207	TYPE / SERIAL N° :	MULTIMETER: FLUKE 175 SERIAL:AW1/018(17140769)
Calibration certificate N° and date:	N°7722/24 _ 10/07/2024	Calibration certificate N° and date:	N°7715/24 _ 10/07/2024

Comments: Nota 4: refer to PL C30000679

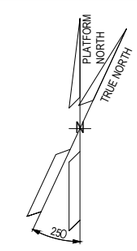
	Performed by	● WITNESS ☐ REVIEW	☐ WITNESS ☐ REVIEW
Company	ICS IMPIANTI	RM(ROSETTI MARINO)	
Name	Michele Tartaglia	Giovanni Tangianu	
Date	2025-01-08	2025-01-09	
Signature	PROVERLIS Digitaly signed by Michele Tartaglia 2025-01-08T09:57:02.367Z	PROVERLIS Digitaly signed by Giovanni Tangianu 2025-01-09T10:38:54.662Z	

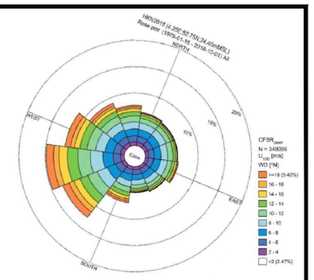
DRAWING NO. 123A90-DDL-EL-DL-20118

REV. 01



PLAN ON UPPER DECK
EL+30.310 T.O.S.





NOTES

1. ALL DIMENSIONS AND ELEVATIONS ARE GIVEN IN mm UNLESS OTHERWISE NOTED.
2. ELEVATIONS REFER TO T.O.S.
3. ELEVATION OF THE LAMPS ARE REFFERED TO THE BOTTOM OF THE LAMP.
4. FOR THE ELEVATION OF JB, REFER TO THE TYPICAL INSTALLATION.
5. FOR ELF-200N1-08-L1-24 AND ELF-200N1-08-L1-25 CONSTRUCTION DETAILS REFER TO DOC. 123A90-DDL-ST-DD-90076

LEGEND

- EMERGENCY LIGHTING JB
- 60W LED EMERGENCY LUMINARIES
- 60W LED EMERGENCY LUMINARIES FIXTURE POLE MOUNTED
- NORMAL LIGHTING JB
- 45W LED NORMAL LUMINARIES
- 45W LED NORMAL LUMINARIES FIXTURE POLE MOUNTED
- WELDING SOCKET WITH INTEGRATED JB
- SMALL POWER SOCKET WITH INTEGRATED JB
- TWILIGHT RELAY SENSOR

JB TAG:	JB-TAG
TAG:	TAG
ELE:	ELEVATION
STD:	STANDARD

REFERENCE DOCUMENTS

123A90-DDL-PP-DL-70070	PLOT PLAN - LOWER & UPPER DECK
123A90-DDL-EL-DL-20100	ELECTRICAL EQUIPMENT LAYOUT - TOP DECK
123A90-DDL-EL-DD-20091	ELECTRICAL TYPICAL INSTALLATION DETAILS - LIGHTING SYSTEM
123A90-DDL-EL-DD-20092	ELECTRICAL TYPICAL INSTALLATION DETAILS - POWER SYSTEM & CABLE INSTALLATION
123A90-DDL-EL-RE-20153	LIGHTING CALCULATION STUDY REPORT
123A90-DDL-ST-DD-90076	IDENTIFICATION PANELS ASSEMBLY AND DETAILS

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	02/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	28/05/24	ASR	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DL-20118**

REV.:	DATE:	SIGNATURE:
1_F	26/11/24	G.Randi

ROSETTI MARINO SpA

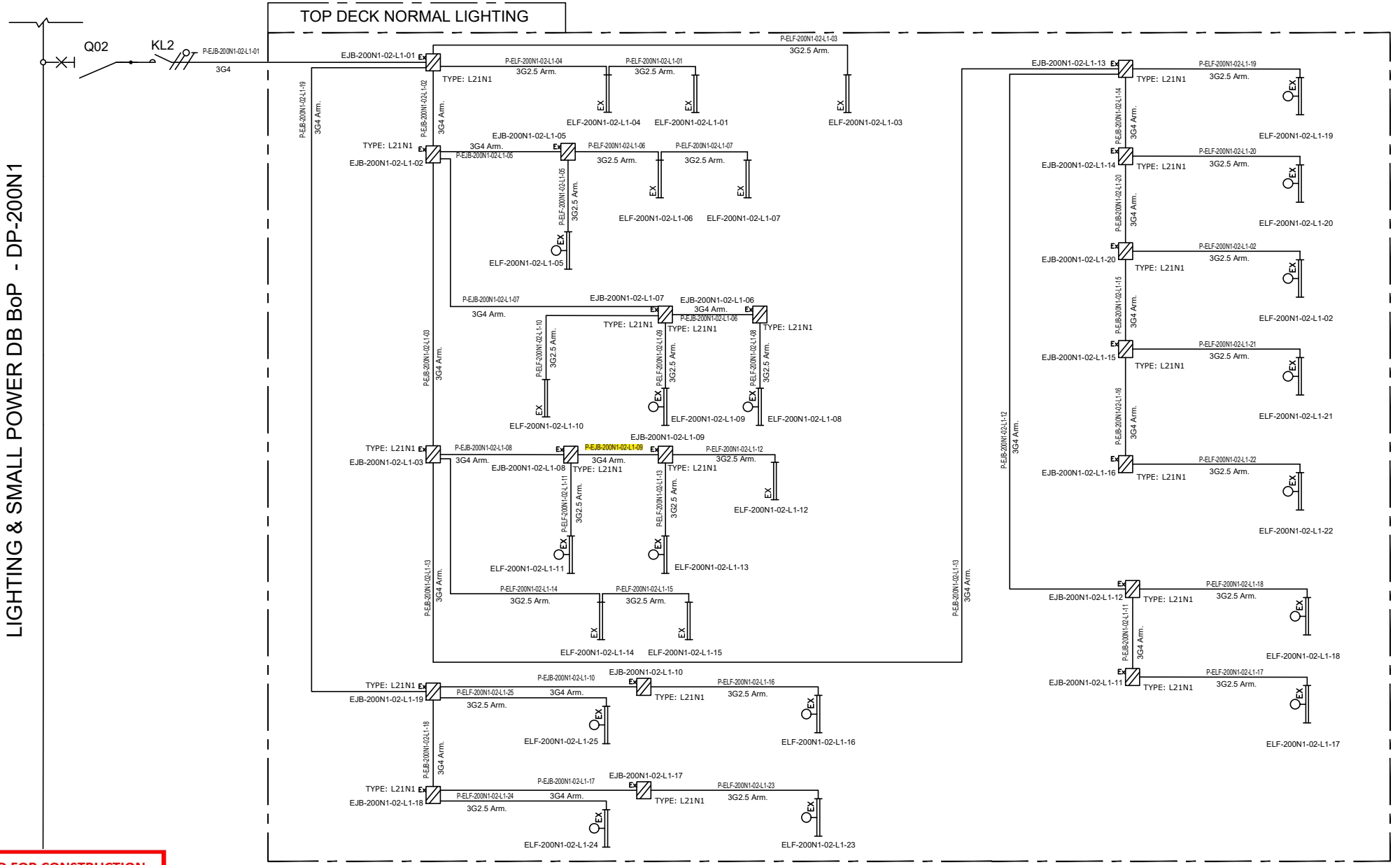
CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET LAYOUT – TOP DECK

CONTRACT NO./TITLE	CW-1-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK	SCALE	1:150
DRAWN ASR	CHECKED FMA/AMA	APPROVED FPA/DLO	DATE 01/08/24
A1	DRAWING NO. 123A90-DDL-EL-DL-20118	SHEET 1of2	REV. 01

File Name : 123A90-DDL-EL-DL-20118



VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DG-20125**

REV.:	DATE:	SIGNATURE:
2_C	20/12/24	V.Ramponi

ROSETTI MARINO SpA

CROSSWIND

ROSETTI MARINO

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	08/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	01/07/24	ASR	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

TITLE : BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET CIRCUIT DIAGRAM
TOP DECK–NORMAL LIGHTING

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE : NTS

A3

DRAWING NO. 123A90–DDL–EL–DG–20125

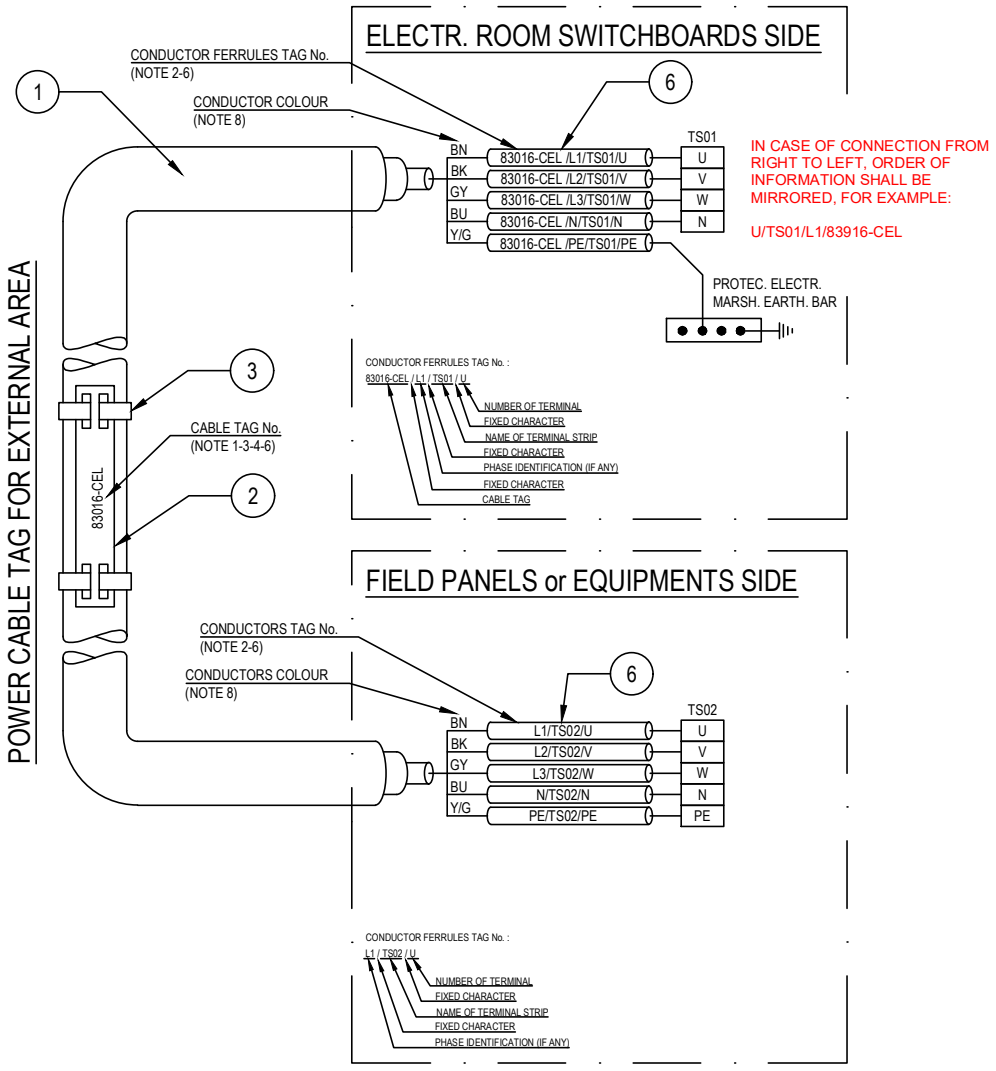
SHEET 010

REV. 01

F.to UNI A3: 420mmx297mm

File Name : 123A90–DDL–EL–DG–20125

C02



POS.	DESCRIPTION	MATERIAL	SIZE	Q.TY	NOTE
1	UNARMOURED CABLE				
2	CABLE TAG FOR EXTERNAL AREA	HDG/SS			NOTE 1 NOTE 4
3	TIE FOR CABLE TAG IN EXTERNAL AREA	HDG/SS			
4	CABLE TAG FOR INTERNAL AREA	PVC			NOTE 1 NOTE 5
5	TIE FOR CABLE TAG IN INTERNAL AREA	NYLON 6.6			
6	CORE FERRULES	PVC			

NOTES:

1) ALL CABLES SHALL BE IDENTIFIED AT EACH TERMINATION AND EACH SIDE OF ANY OBSTACLE (E.G. CABLE TRANSIT ON WALLS INSIDE SHELTER AND FLOOR DECK CROSSING, BY THEIR RESPECTIVE TAGS/NUMBERS, AS INDICATED ON THE CABLE SCHEDULE.
CABLE IDENTIFICATION SHALL BE ALSO DONE BELOW AND IN THE SWITCHBOARD CABLE COMPARTMENT.

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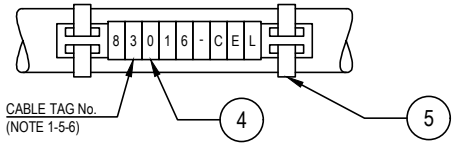
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7) WITHIN TECHNICAL BUILDING, PROTECTIVE CONDUCTOR SHALL BE TAGGED BETWEEN FOLLOWING ITEMS:
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- EARTH BAR AND EARTH BOSS

8) ONLY IF NECESSARY, SHRINK TUBES OF THE APPROPRIATE COLOR WILL BE INSTALLED TO COVER THE WRONG CONDUCTOR COLOR, THIS WILL BE PERFORMED IN EACH SIDE OF THE CABLES WHERE NECESSARY.

POWER CABLE TAG FOR INTERNAL AREA



VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DD-20092**

REV.:	DATE:	SIGNATURE:
2_D	20/12/24	V.Ramponi

ROSETTI MARINO SpA

CROSSWIND

ROSETTI MARINO

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	28/08/24	GRA	AMA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	04/07/24	NLK	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	21/11/23	SPS	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL TYPICAL INSTALLATION DETAILS-POWER SYSTEM & CABLE INSTALLATION
CABLES INSTALLATION SYSTEM IDENTIFICATION FOR POWER CABLES

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK | SCALE : NTS

A3 | DRAWING NO. 123A90-DDL-EL-DD-20092 | SHEET 007 | REV. 02

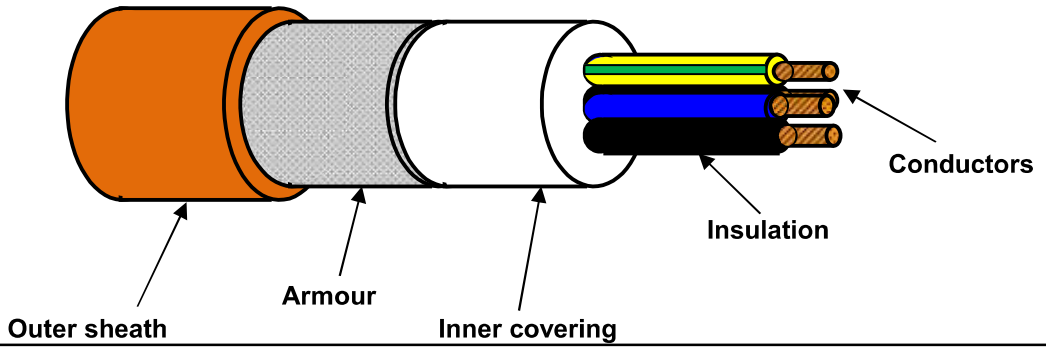
F.to UNI A3: 420mmx297mm

File Name : 123A90-DDL-EL-DD-20092 REV.02.DWG

Tag Number	Category	Disciplir	Eng Statu	NativeDoc	Layout	Parent Tag	Main Function	Secondary Fun	Area	From Tag	From Main Function	From Area	To Tag	To Main Function	To Area	Material ID	Material Desc.	Gland Standard	From Glan	From Entry	From Fitt	To Gland	To Entry	To Fitting	Routing	Routing Manual
P-EJB-200N1-02-L1-09	Cable	LSP	VFC	123A90-DDL-EL-LIS-20148						EJB-200N1-02-L1-08	Normal Lighting JB	Upper Deck	EJB-200N1-02-L1-09	Normal Lighting JB	Upper Deck	ELECV38-3G4	Cable Cu Cl.2/MGT/EPR/LSZH/GSWB/LSZH 0,6/1kV 3G4mm² - Orange	M20	T2_M20_ Double			T2_M20_Double				L-50-102-LVT-057 / L-150-102-LVT-008 / L-50-102-LVT-058

Cu Cl.2/MGT/EPR/LSZH/GSWB/LSZH 0,6/1 KV

3G4 - L.V. POWER CABLE - Fire Resistant & Flame Retardant - ARMOURED



TECHNICAL FEATURES

Conductors :	**STRANDED** plain/bare annealed copper wires	IEC 60228 Class 2
Insulation :	Mica/Glass Tape (MGT) plus EPR compound, quality to IEC 60092.360, Nominal Thickness 1,0 mm	
Cores colour code :	**Brown - Blue - Yellow/Green**	
Pair Assembling :	Not required	
Pair Wrapping:	Not required	
Drain wire :	Not required	
Pair Shield :	Not required	
Shield Insulation :	Not Required	
Total Assembling :	Cores layed up with optimal lay length	
Overall Wrapping:	Not required	
Drain wire :	Not required	
Overall Shield:	Not required	
Inner covering :	Extruded LSZH compound, Average Thickness 1,0 mm	
Inner covering color code:	**Black or Natural**	
Armour :	**Galvanized Steel Wire Braid Armour (coverage ≥ 90%)**	
Outer sheath :	Extruded LSZH Thermoplastic Compound (O.I. ≥ 30%), type **SHF1** to IEC 60093.360, Average Thickness 1,4 mm	
Outer sheath color code:	**Orange**	
Outer printing (INKJET) :	**FLEI - ELECTRIC CABLE - 1000V - 3G4 SQMM - MGT/EPR/LSZH/GSWB/LSZH - 0,6/1 KV - IEC 60331.21 -**	
	IEC 60332.1.2 - IEC 60332.3.22 - Year of Manufacture - CE + Meter Marking	
Under Armour diameter :	(13,0 ± 10%) mm	
Over Armour diameter :	(14,2 ± 10%) mm	
Outer diameter :	(17,0 ± 10%) mm	
Bending radius :	cable outer diameter x 10	(in fixed installation)
Voltage test :	3,5 kV a.c. for 5' (Between Cores - Armour)	
Conductors DC Resistance :		IEC 60228 Class 2
Insulation Resistance :	≥ 790 MΩ x Km (@ 20°C)	
Applicable Standards		
Design Guidelines :	**IEC 60092.353**	
ON COMPLETE CABLE		
Fire Resistant test :	**IEC 60331.21**	
Flame Retardant test :	IEC 60332.1.2 - IEC 60332.3.22	
Acid Gas generation :	IEC 60754.1/2	
Smoke density/Light Transmittance	IEC 61034.2 (LT ≥ 60%)	
Temperature Range :		
ON INSULATION	(max +90°C)	(max continuous operation temperature of conductors)
	(max +250°C)	(max conductors temperature during short-circuit for 5 seconds)
ON COMPLETE CABLE		
During Operation :	(-20°C up to +90°C)	(in fixed installation)
During installation :	(- 5°C up to +50°C)	
Note :	**To meet the requirements of installation and use in Zone 1 & Zone 2 (IEC 60079-14) and "Gas & Vapour Tight" the cable must be provided with Penetrating Inner covering together with correct ATEX approved equipment or accessories.**	

Office	Date	Sign	Rev.	Date	Sign
Drawn by :	29/03/2024	Messa			
Checked :	29/03/2024	Spaccasassi			
Approved :	29/03/2024	Cucinotta			

The data provided, lending assent for the treatment, will be used to the sense of the article 13 of of the Regulation (UE) 2016/679, also through outsiders, in order to allow the realization of the fulfilments informatives, administrative, commercial and accounting related to the contractual relationship. Integral copy of the informative could be requested at our offices.

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ITEM	Tag	P-ELF-200N1-02-L1-13	: Normal Lighting JB / Normal Lighting Fixture			Dwg	123A90-DDL-EL-LIS-20148
	S/Sys	83-40	: Normal Lighting Upper Deck			Module	UD
TASK	code	C10000681		Location	Onshore Activities	User	Rosetti Marino Quality Control
FORM	Process	MC	Activity CCK	Discipline	Electrical	Form	CPX09 LV Power Cable

CABLE DATA

Type Cu Cl.2/MGT/EPR/LSZH/GSWB/LSZH Cores/Size mm² 3G2,5 mm2 Color ORANGE

From EJB-200N1-02-L1-09 To ELF-200N1-02-L1-13

1	Confirm cable is as specified in project cable schedule	OK
2	Visual Check cable physical integrity.	OK
3	Check is installed in accordance with layout drawing (segregation, distance…).	OK
4	Check cable is supported and fixed to rack according to project specification.	Note
5	Check bending radius is within the specified limits.	OK
6	Confirm cable glands suit for cable type, correctly mounted and tightened.	PL
7	Check gland plate for single core cables is non ferrous (non -magnetic).	NA
8	Confirm cable labelling is in accordance with specifications.	PL
9	Check cable is correctly loomed and segregated in accordance with specification.	OK
10	Check cable earthing against lastest drawings.	OK
11	Check cores marking are in accordance with termination diagram	OK
12	Check terminations are in accordance with latest termination diagram	OK
13	If required produce Red Line Mark Up for "AS BUILT"	

ROSETTI MARINO PROVERLIS CROSSWIND

ITEM	Tag	P-ELF-200N1-02-L1-13	: Normal Lighting JB / Normal Lighting Fixture			Dwg	123A90-DDL-EL-LIS-20148
	S/Sys	83-40	: Normal Lighting Upper Deck			Module	UD
TASK	code	C10000681		Location	Onshore Activities	User	Rosetti Marino Quality Control
FORM	Process	MC	Activity CCK	Discipline	Electrical	Form	CPX09 LV Power Cable

CONTINUITY				
5	CORE CONTINUITY Ω	PH 1	0,2	
6		PH 2	0,2	
7		PH 3	NA	
8	ARMOUR CONTINUITY Ω		0,2	
9	PROTECTIVE CONDUCTOR CONTINUITY Ω		0,2	
INSULATION				
10	CORES / ARMOUR+EARTH MΩ	PH1 / PH2-PH3-A-E	>999	
11		PH2 / PH1-PH3-A-E	>999	
12		PH3 / PH1-PH2-A-E	NA	
13	CABLE IS CORRECTLY RE-CONNECTED.		Yes	

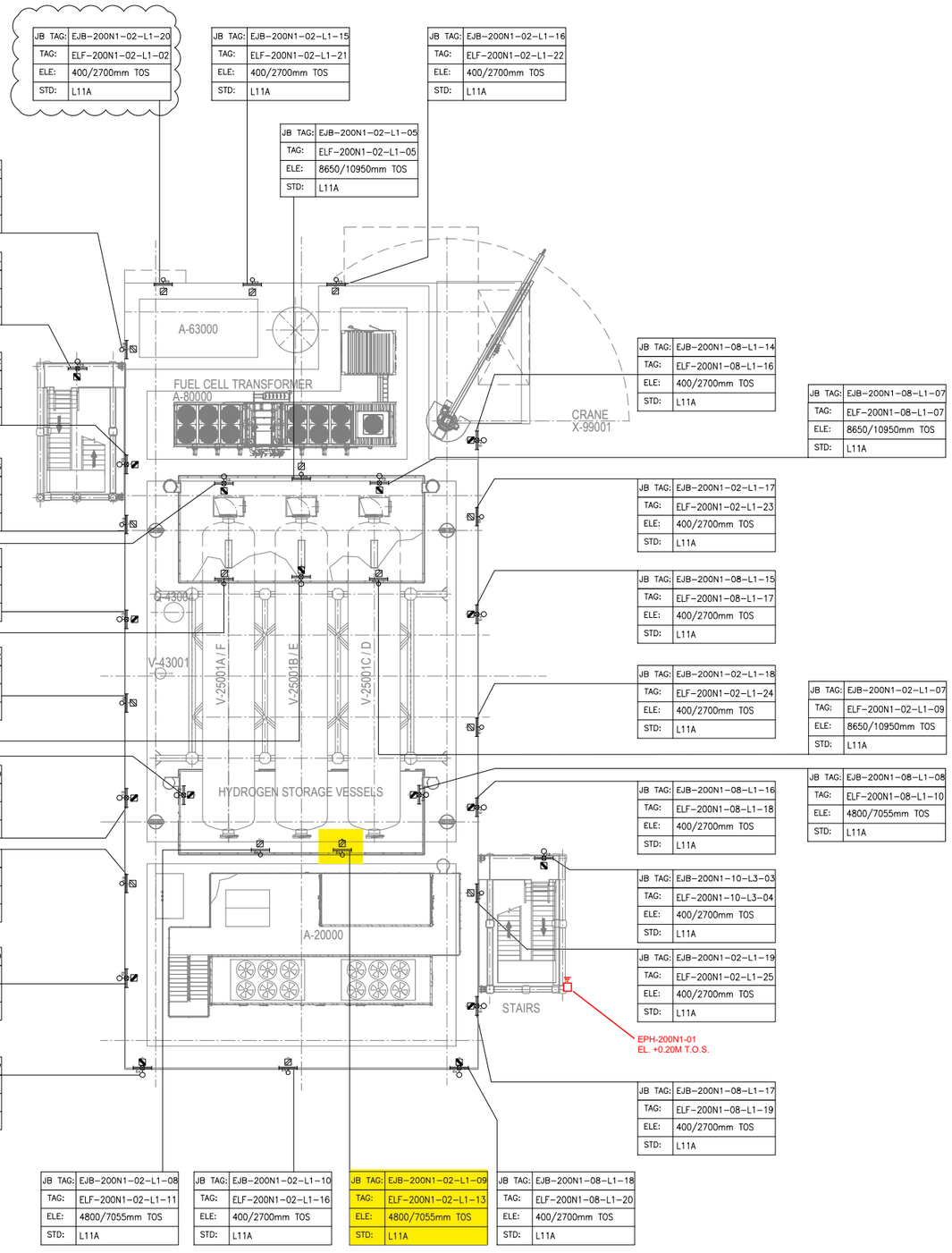
TESTING INSTRUMENTS USED			
TYPE / SERIAL N° :	MEGGER : KEW3125A SERIAL: W8330207	TYPE / SERIAL N° :	MULTIMETER: FLUKE 175 SERIAL:AW1/018(17140769
Calibration certificate N° and date:	N°7722/24 _ 10/07/2024	Calibration certificate N° and date:	N°7715/24 _ 10/07/2024

Comments: Nota 4: refer to PL C30000679

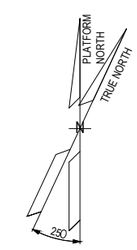
	Performed by	● WITNESS ☐ REVIEW	☐ WITNESS ☐ REVIEW
Company	ICS IMPIANTI	RM(ROSETTI MARINO)	
Name	Carmelo Bongiovanni	Andrea Andreani	
Date	2024-11-22	2025-01-13	
Signature	PROVERLIS Digitaly signed by Carmelo Bongiovanni 2024-11-22T17:17:55.803Z	PROVERLIS Digitaly signed by Andrea Andreani 2025-01-13T14:41:22.037Z	

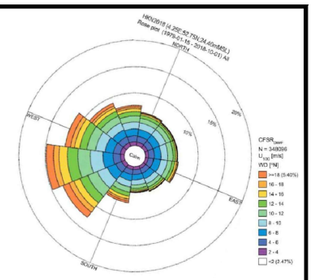
DRAWING NO. 123A90-DDL-EL-DL-20118

REV. 01



PLAN ON UPPER DECK
EL+30.310 T.O.S.





NOTES

1. ALL DIMENSIONS AND ELEVATIONS ARE GIVEN IN mm UNLESS OTHERWISE NOTED.
2. ELEVATIONS REFER TO T.O.S.
3. ELEVATION OF THE LAMPS ARE REFFERED TO THE BOTTOM OF THE LAMP.
4. FOR THE ELEVATION OF JB, REFER TO THE TYPICAL INSTALLATION.

LEGEND

- EMERGENCY LIGHTING JB
- 60W LED EMERGENCY LUMINARIES
- 60W LED EMERGENCY LUMINARIES FIXTURE POLE MOUNTED
- NORMAL LIGHTING JB
- 45W LED NORMAL LUMINARIES
- 45W LED NORMAL LUMINARIES FIXTURE POLE MOUNTED
- WELDING SOCKET WITH INTEGRATED JB
- SMALL POWER SOCKET WITH INTEGRATED JB
- TWILIGHT RELAY SENSOR

JB TAG:	JB-TAG
TAG:	TAG
ELE:	ELEVATION
STD:	STANDARD

VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DL-20118**

REV.:	DATE:	SIGNATURE:
1_B	22/10/24	G.Randi

ROSETTI MARINO SpA

REFERENCE DOCUMENTS

123A90-DDL-PP-DL-70070	PLOT PLAN - LOWER & UPPER DECK
123A90-DDL-EL-DL-20100	ELECTRICAL EQUIPMENT LAYOUT - TOP DECK
123A90-DDL-EL-DD-20091	ELECTRICAL TYPICAL INSTALLATION DETAILS - LIGHTING SYSTEM
123A90-DDL-EL-DD-20092	ELECTRICAL TYPICAL INSTALLATION DETAILS - POWER SYSTEM & CABLE INSTALLATION
123A90-DDL-EL-RE-20153	LIGHTING CALCULATION STUDY REPORT

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	02/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	28/05/24	ASR	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND | ROSETTI MARINO

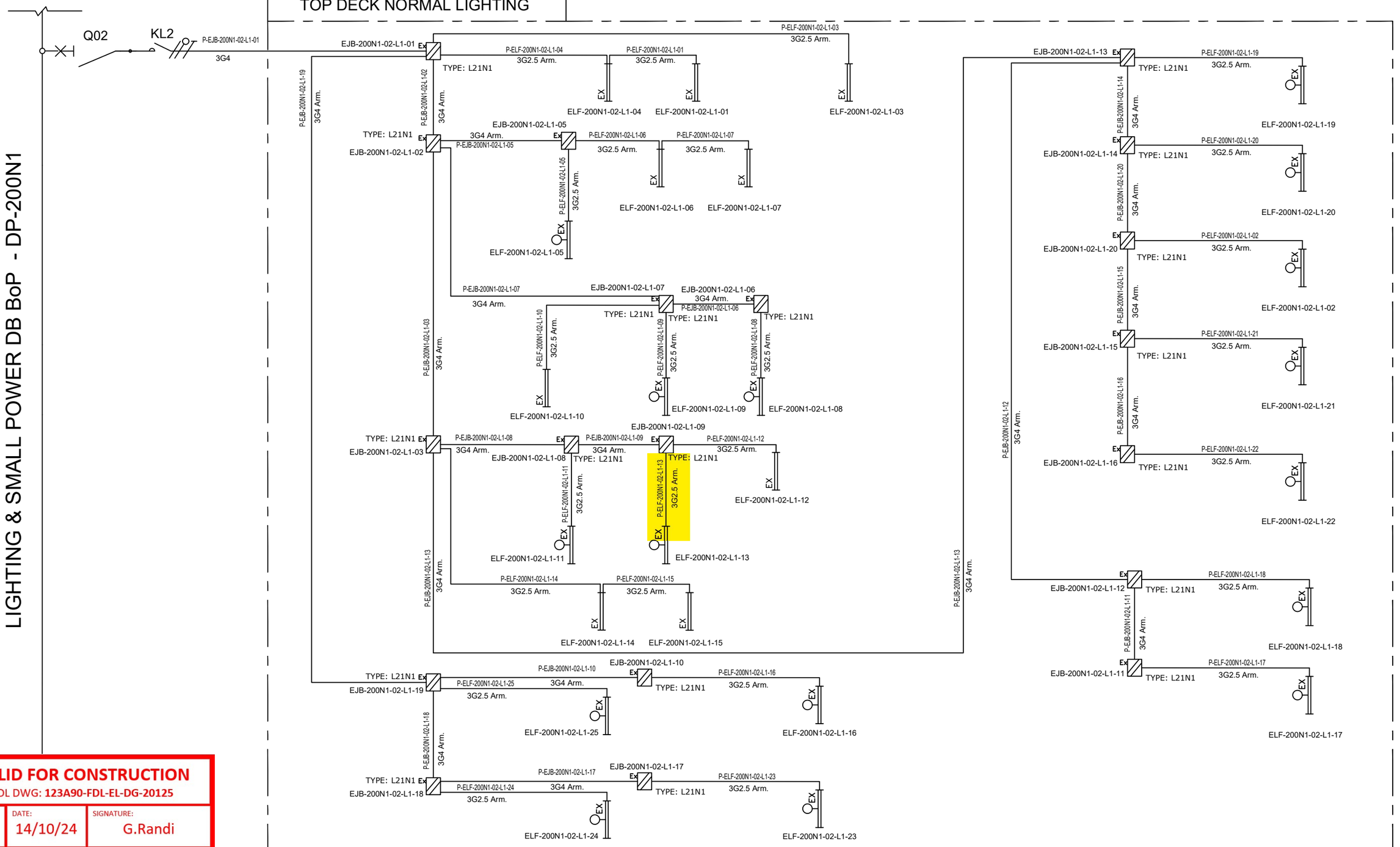
TITLE :
BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET LAYOUT – TOP DECK

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK			SCALE 1:150
DRAWN ASR	CHECKED FMA/AMA	APPROVED FPA/DLO	DATE 01/08/24
A1	DRAWING NO. 123A90-DDL-EL-DL-20118	SHEET 1of2	REV. 01

File Name : 123A90-DDL-EL-DL-20118

LIGHTING & SMALL POWER DB BoP - DP-200N1

TOP DECK NORMAL LIGHTING



VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DG-20125**

REV.:	DATE:	SIGNATURE:
1_B	14/10/24	G.Randi

ROSETTI MARINO SpA

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	08/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	01/07/24	ASR	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

TITLE : BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET CIRCUIT DIAGRAM
TOP DECK–NORMAL LIGHTING

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE : NTS

A3

DRAWING NO. 123A90-DDL-EL-DG-20125

SHEET 010

REV. 01

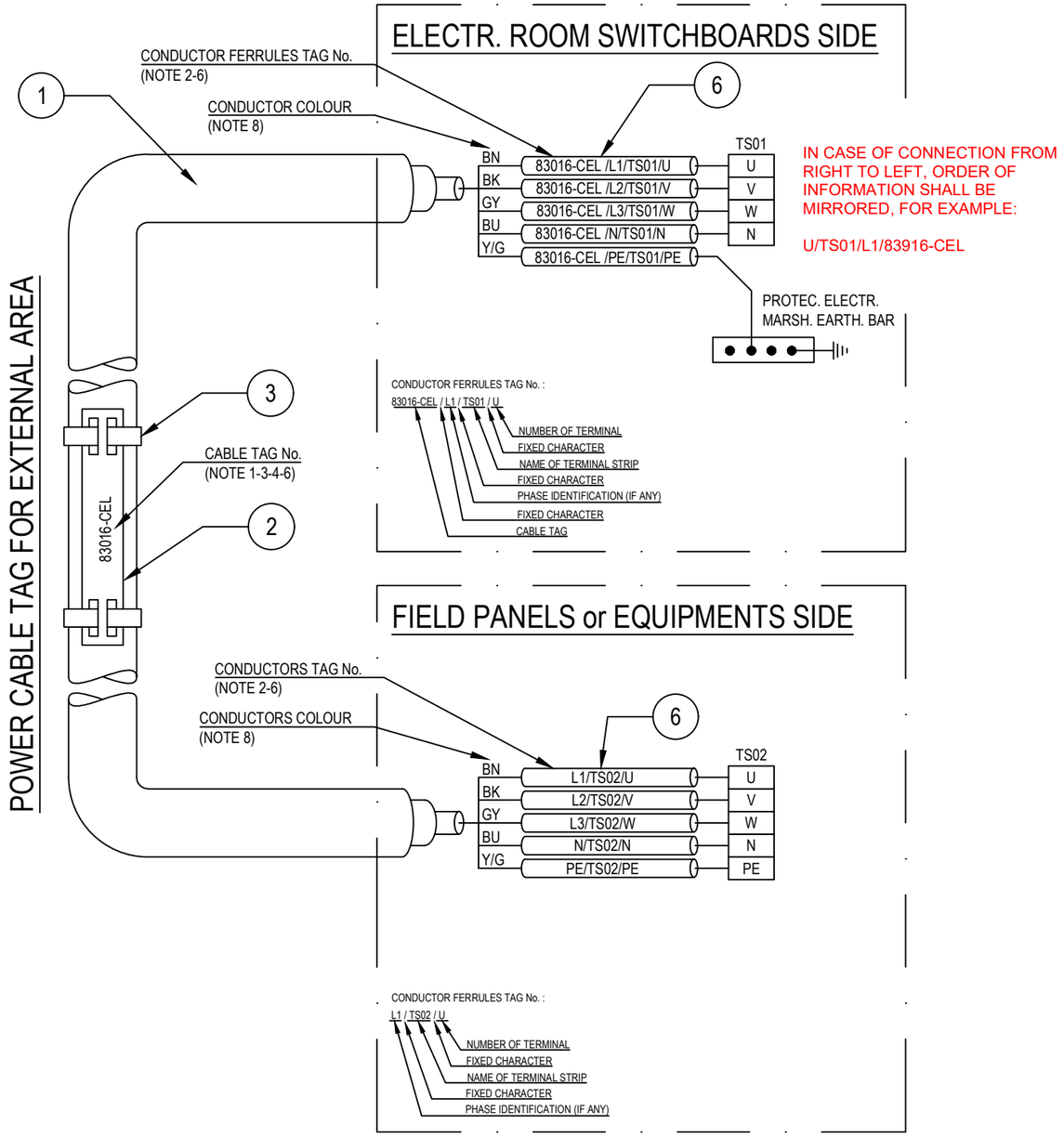
CROSSWIND

ROSETTI MARINO

F.to UNI A3: 420mmx297mm

File Name : 123A90-DDL-EL-DG-20125

C02



POS.	DESCRIPTION	MATERIAL	SIZE	Q.TY	NOTE
1	UNARMOURED CABLE				
2	CABLE TAG FOR EXTERNAL AREA	HDG/SS			NOTE 1 NOTE 4
3	TIE FOR CABLE TAG IN EXTERNAL AREA	HDG/SS			
4	CABLE TAG FOR INTERNAL AREA	PVC			NOTE 1 NOTE 5
5	TIE FOR CABLE TAG IN INTERNAL AREA	NYLON 6.6			
6	CORE FERRULES	PVC			

NOTES:

1) ALL CABLES SHALL BE IDENTIFIED AT EACH TERMINATION AND EACH SIDE OF ANY OBSTACLE (E.G. CABLE TRANSIT ON WALLS INSIDE SHELTER AND FLOOR DECK CROSSING, BY THEIR RESPECTIVE TAGS/NUMBERS, AS INDICATED ON THE CABLE SCHEDULE.
CABLE IDENTIFICATION SHALL BE ALSO DONE BELOW AND IN THE SWITCHBOARD CABLE COMPARTMENT.

2) CABLE CORE FERRULES SHALL BE FITTED AT EVERY TERMINATION. THESE FERRULES SHALL BE OF ENGRAVED PLASTIC SLIP ON, INTERLOCKED AND SELF GRIP TYPE.

3) ON CABLE TRAYS OR LADDERS, CABLES SHALL BE IDENTIFIED AT EACH END, AND EVERY 25 METERS.

4) THE CABLE TAG FOR EXTERNAL AREA SHALL DONE BY 316L STAINLESS STEEL LABELS, TAG (H=5mm) SHALL BE LASER PRINTED PREFERABLY OR EMBOSSED, LABEL HELD BY TWO 316L STAINLESS STEEL TIES.

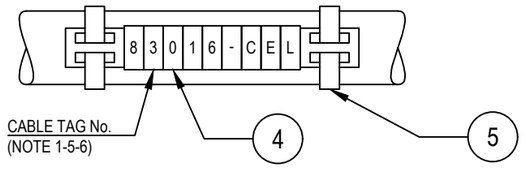
5) THE CABLE TAG FOR INTERNAL AREA SHALL BE DONE BY ENGRAVED PLASTIC SLIP ON CHARACTERS ONTO PLASTIC TIE, BLACK LETTER (H=5mm) ON WHITE.

6) CABLE AND CONDUCTOR TAG ARE INDICATIVE ONLY.

7) WITHIN TECHNICAL BUILDING, PROTECTIVE CONDUCTOR SHALL BE TAGGED BETWEEN FOLLOWING ITEMS:
- PANEL (SWITCHBOARD, SWITCHGEAR, DISTRIBUTION BOARD, ETC) AND EARTH BAR
- EARTH BAR AND EARTH BOSS

8) ONLY IF NECESSARY, SHRINK TUBES OF THE APPROPRIATE COLOR WILL BE INSTALLED TO COVER THE WRONG CONDUCTOR COLOR, THIS WILL BE PERFORMED IN EACH SIDE OF THE CABLES WHERE NECESSARY.

POWER CABLE TAG FOR INTERNAL AREA



VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DD-20092**

REV.:	DATE:	SIGNATURE:
2_B	28/11/24	G.Randi

ROSETTI MARINO SpA

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	28/08/24	GRA	AMA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	04/07/24	NLK	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	21/11/23	SPS	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL TYPICAL INSTALLATION DETAILS-POWER SYSTEM & CABLE INSTALLATION
CABLES INSTALLATION SYSTEM IDENTIFICATION FOR POWER CABLES

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK | SCALE : NTS

A3	DRAWING NO.	SHEET	REV.
	123A90-DDL-EL-DD-20092	007	02

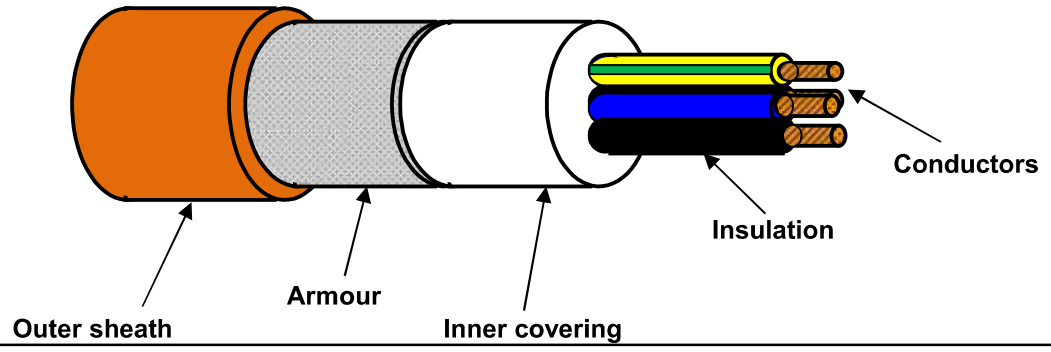
F.to UNI A3: 420mmx297mm

File Name : 123A90-DDL-EL-DD-20092 REV.02.DWG

Tag Number	Category	Discipline	Eng Status	NativeDoc	Layout	Parent Tag	Main Function	Secondary Function	Area	From Tag	From Main Function	From Area	To Tag	To Main Function	To Area	Material ID	Material Desc.	Gland Standard	From Gland	From Entry	From Fitting	To Gland	To Entry	To Fitting	Routing	Routing Manual
P-ELF-200N1-02-L1-13	Cable	LSP	VFC	123A90-DDL-EL-LIS-20148						EJB-200N1-02-L1-09	Normal Lighting JB	Upper Deck	ELF-200N1-02-L1-13	Normal Lighting Fixture	Upper Deck	ELECV19-3G2,5	Cable Cu Cl.2/MGT/EPR/LSZH/GSWB/LSZH 0,6/1kV 3G2,5mm² - Orange	M20	T2_M20_Double			T2_M20_Double				L-50-102-LVT-047

Cu Cl.2/MGT/EPR/LSZH/GSWB/LSZH 0,6/1 KV

3G2,5 - L.V. POWER CABLE - Fire Resistant & Flame Retardant - ARMOURED



TECHNICAL FEATURES

Conductors :	**STRANDED** plain/bare annealed copper wires	IEC 60228 Class 2
Insulation :	Mica/Glass Tape (MGT) plus EPR compound, quality to IEC 60092.360, Nominal Thickness 1,0 mm	
Cores colour code :	**Brown - Blue - Yellow/Green**	
Pair Assembling :	Not required	
Pair Wrapping:	Not required	
Drain wire :	Not required	
Pair Shield :	Not required	
Shield Insulation :	Not Required	
Total Assembling :	Cores layed up with optimal lay length	
Overall Wrapping:	Not required	
Drain wire :	Not required	
Overall Shield:	Not required	
Inner covering :	Extruded LSZH compound, Average Thickness 1,0 mm	
Inner covering color code:	**Black or Natural**	
Armour :	**Galvanized Steel Wire Braid Armour (coverage ≥ 90%)**	
Outer sheath :	Extruded LSZH Thermoplastic Compound (O.I. ≥ 30%), type **SHF1** to IEC 60093.360, Average Thickness 1,3 mm	
Outer sheath color code:	**Orange**	
Outer printing (INKJET) :	**FLEI - ELECTRIC CABLE - 1000V - 3G2,5 SQMM - MGT/EPR/LSZH/GSWB/LSZH - 0,6/1 KV - IEC 60331.21 - IEC 60332.1.2 - IEC 60332.3.22 - Year of Manufacture - CE + Meter Marking**	
Under Armour diameter :	(11,7 ± 10%) mm	
Over Armour diameter :	(12,9 ± 10%) mm	
Outer diameter :	(15,5 ± 10%) mm	
Bending radius :	cable outer diameter x 10	(in fixed installation)
Voltage test :	3,5 kV a.c. for 5' (Between Cores - Armour)	
Conductors DC Resistance :		IEC 60228 Class 2
Insulation Resistance :	≥ 940 MΩ x Km (@ 20°C)	
Applicable Standards		
Design Guidelines :	**IEC 60092.353**	
ON COMPLETE CABLE		
Fire Resistant test :	**IEC 60331.21**	
Flame Retardant test :	IEC 60332.1.2 - IEC 60332.3.22	
Acid Gas generation :	IEC 60754.1/2	
Smoke density/Light Transmittance	IEC 61034.2 (LT ≥ 60%)	
Temperature Range :		
ON INSULATION	(max +90°C)	(max continuous operation temperature of conductors)
	(max +250°C)	(max conductors temperature during short-circuit for 5 seconds)
ON COMPLETE CABLE		
During Operation :	(-20°C up to +90°C)	(in fixed installation)
During installation :	(- 5°C up to +50°C)	
Note :	**To meet the requirements of installation and use in Zone 1 & Zone 2 (IEC 60079-14) and "Gas & Vapour Tight" the cable must be provided with Penetrating Inner covering together with correct ATEX approved equipment or accessories.**	

Office	Date	Sign	Rev.	Date	Sign
Drawn by :	29/03/2024	Messa			
Checked :	29/03/2024	Spaccasassi			
Approved :	29/03/2024	Cucinotta			

The data provided, lending assent for the treatment, will be used to the sense of the article 13 of of the Regulation (UE) 2016/679, also through outsiders, in order to allow the realization of the fulfilments informatives, administrative, commercial and accounting related to the contractual relationship. Integral copy of the informative could be requested at our offices.

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ITEM	Tag	P-EJB-200N1-02-L1-10	: Normal Lighting JB / Normal Lighting JB			Dwg	123A90-DDL-EL-LIS-20148
	S/Sys	83-40	: Normal Lighting Upper Deck			Module	UD
TASK	code	C10000685		Location	Onshore Activities	User	Rosetti Marino Quality Control
FORM	Process	MC	Activity CCK	Discipline	Electrical	Form	CPX09 LV Power Cable

CABLE DATA

Type Cu Cl.2/MGT/EPR/LSZH/GSWB/LSZH Cores/Size mm² 3G4 mm2 Color ORANGE

From EJB-200N1-02-L1-19 To EJB-200N1-02-L1-10

1	Confirm cable is as specified in project cable schedule	OK
2	Visual Check cable physical integrity.	OK
3	Check is installed in accordance with layout drawing (segregation, distance…).	OK
4	Check cable is supported and fixed to rack according to project specification.	OK
5	Check bending radius is within the specified limits.	OK
6	Confirm cable glands suit for cable type, correctly mounted and tightened.	OK
7	Check gland plate for single core cables is non ferrous (non -magnetic).	NA
8	Confirm cable labelling is in accordance with specifications.	PL
9	Check cable is correctly loomed and segregated in accordance with specification.	OK
10	Check cable earthing against lastest drawings.	OK
11	Check cores marking are in accordance with termination diagram	PL
12	Check terminations are in accordance with latest termination diagram	OK
13	If required produce Red Line Mark Up for "AS BUILT"	

ROSETTI MARINO PROVERLIS CROSSWIND

ITEM	Tag	P-EJB-200N1-02-L1-10	: Normal Lighting JB / Normal Lighting JB			Dwg	123A90-DDL-EL-LIS-20148
	S/Sys	83-40	: Normal Lighting Upper Deck			Module	UD
TASK	code	C10000685		Location	Onshore Activities	User	Rosetti Marino Quality Control
FORM	Process	MC	Activity CCK	Discipline	Electrical	Form	CPX09 LV Power Cable

	CONTINUITY			
5	CORE CONTINUITY Ω	PH 1	0,2	
6		PH 2	0,2	
7		PH 3	NA	
8	ARMOUR CONTINUITY Ω		0,2	
9	PROTECTIVE CONDUCTOR CONTINUITY Ω		0,2	
	INSULATION			
10	CORES / ARMOUR+EARTH MΩ	PH1 / PH2-PH3-A-E	>999	
11		PH2 / PH1-PH3-A-E	>999	
12		PH3 / PH1-PH2-A-E	>999	
13	CABLE IS CORRECTLY RE-CONNECTED.		Yes	

TESTING INSTRUMENTS USED

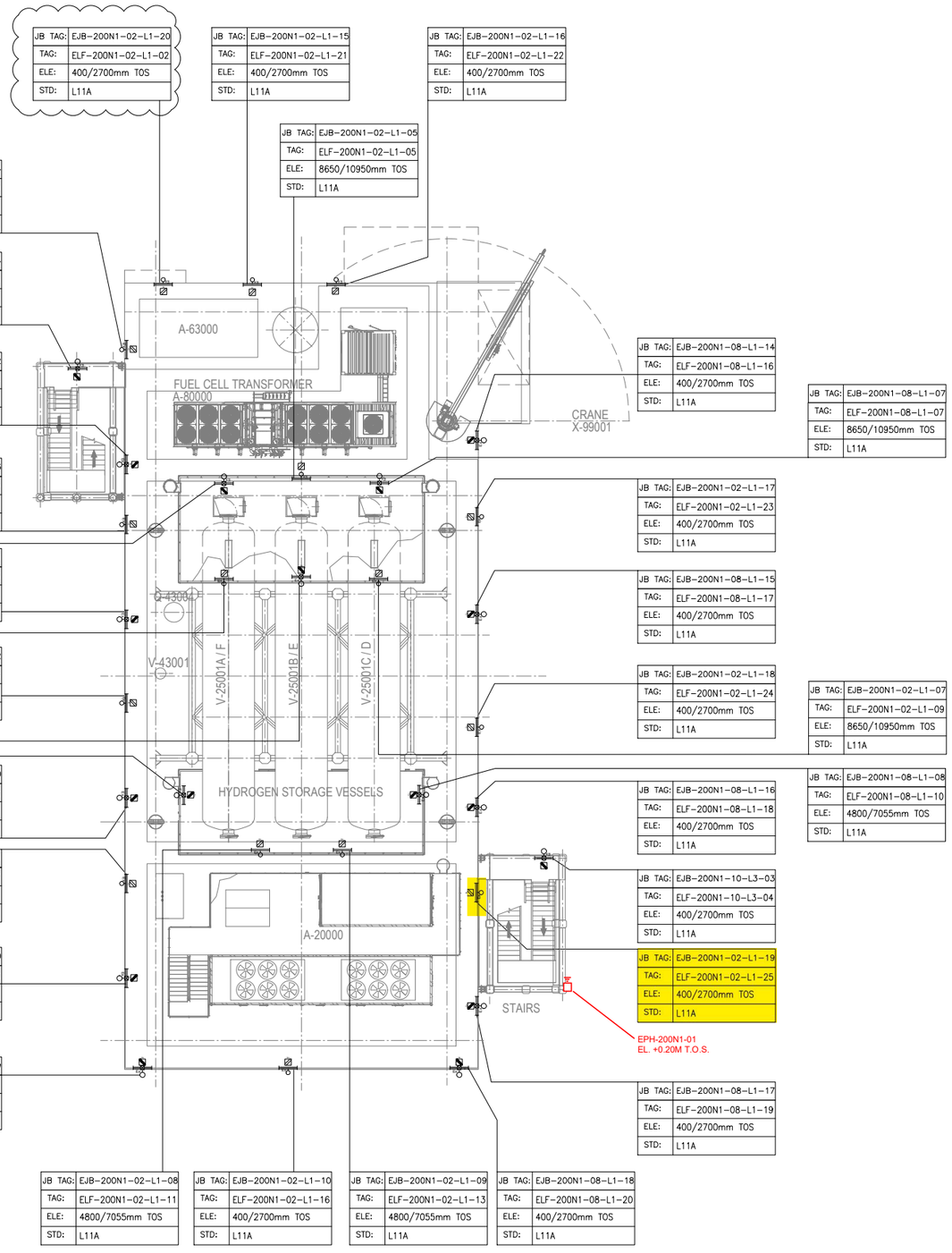
TYPE / SERIAL N° :	MEGGER : KEW3125A SERIAL: W8330207	TYPE / SERIAL N° :	MULTIMETER: FLUKE 175 SERIAL:AW1/018(17140769)
Calibration certificate N° and date:	N°7722/24 _ 10/07/2024	Calibration certificate N° and date:	N°7715/24 _ 10/07/2024

Comments: Nota 4: refer to PL C30000679

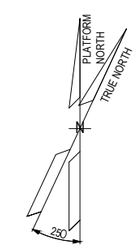
	Performed by	● WITNESS ☐ REVIEW	☐ WITNESS ☐ REVIEW
Company	ICS IMPIANTI	RM(ROSETTI MARINO)	
Name	Michele Tartaglia	Giovanni Tangianu	
Date	2025-01-08	2025-01-09	
Signature	PROVERLIS Digitaly signed by Michele Tartaglia 2025-01-08T09:57:17.698Z	PROVERLIS Digitaly signed by Giovanni Tangianu 2025-01-09T10:15:52.218Z	

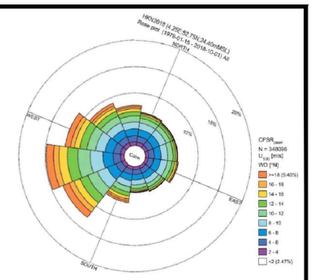
DRAWING NO. 123A90-DDL-EL-DL-20118

REV. 01



PLAN ON UPPER DECK
EL+30.310 T.O.S.





NOTES

1. ALL DIMENSIONS AND ELEVATIONS ARE GIVEN IN mm UNLESS OTHERWISE NOTED.
2. ELEVATIONS REFER TO T.O.S.
3. ELEVATION OF THE LAMPS ARE REFFERED TO THE BOTTOM OF THE LAMP.
4. FOR THE ELEVATION OF JB, REFER TO THE TYPICAL INSTALLATION.

LEGEND

- EMERGENCY LIGHTING JB
- 60W LED EMERGENCY LUMINARIES
- 60W LED EMERGENCY LUMINARIES FIXTURE POLE MOUNTED
- NORMAL LIGHTING JB
- 45W LED NORMAL LUMINARIES
- 45W LED NORMAL LUMINARIES FIXTURE POLE MOUNTED
- WELDING SOCKET WITH INTEGRATED JB
- SMALL POWER SOCKET WITH INTEGRATED JB
- TWILIGHT RELAY SENSOR

JB TAG:	JB-TAG
TAG:	TAG
ELE:	ELEVATION
STD:	STANDARD

VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DL-20118**

REV.:	DATE:	SIGNATURE:
1_B	22/10/24	G.Randi

ROSETTI MARINO SpA

REFERENCE DOCUMENTS

123A90-DDL-PP-DL-70070	PLOT PLAN - LOWER & UPPER DECK
123A90-DDL-EL-DL-20100	ELECTRICAL EQUIPMENT LAYOUT - TOP DECK
123A90-DDL-EL-DD-20091	ELECTRICAL TYPICAL INSTALLATION DETAILS - LIGHTING SYSTEM
123A90-DDL-EL-DD-20092	ELECTRICAL TYPICAL INSTALLATION DETAILS - POWER SYSTEM & CABLE INSTALLATION
123A90-DDL-EL-RE-20153	LIGHTING CALCULATION STUDY REPORT

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	02/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	28/05/24	ASR	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND

ROSETTI MARINO

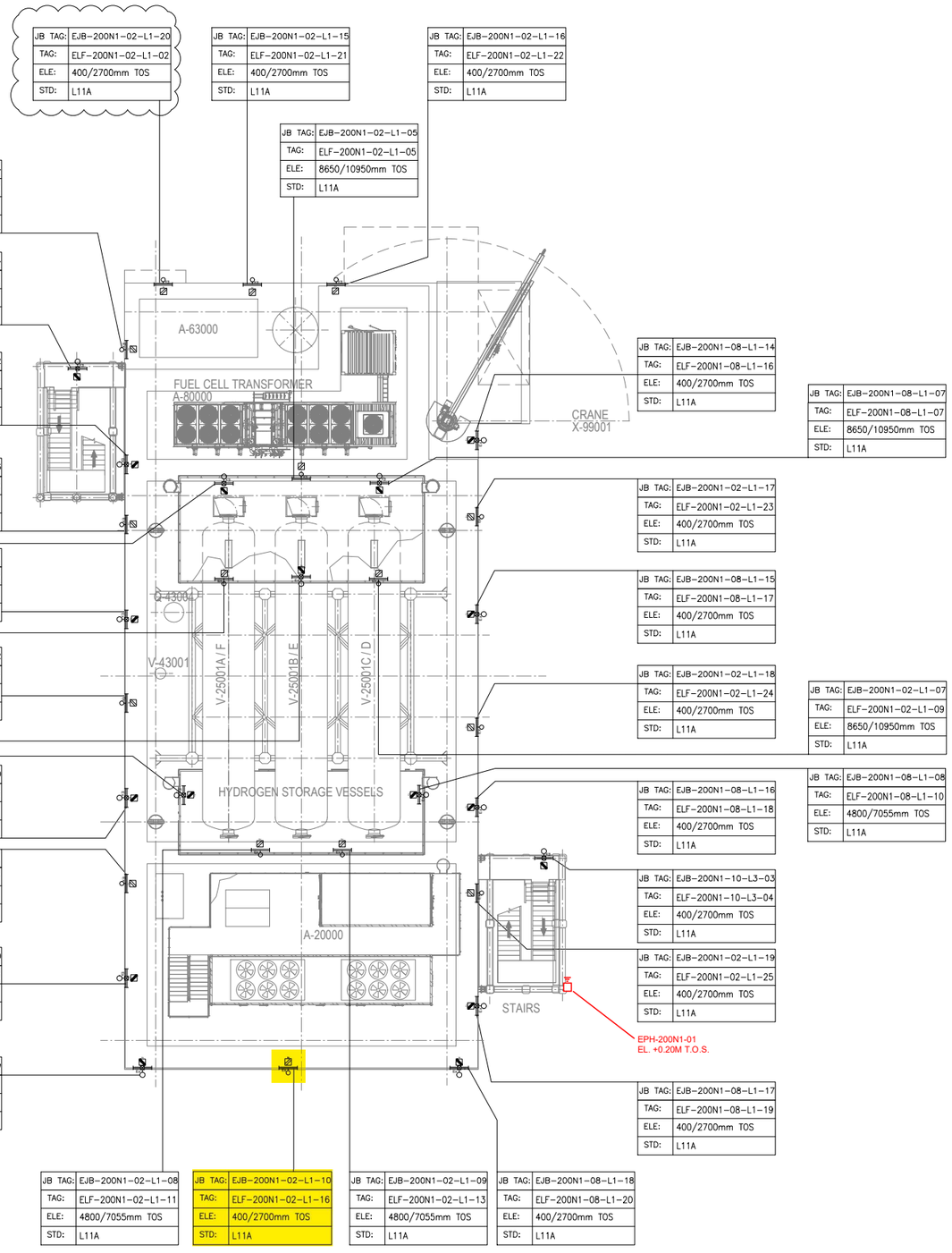
TITLE :
BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET LAYOUT – TOP DECK

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK			SCALE 1:150
DRAWN ASR	CHECKED FMA/AMA	APPROVED FPA/DLO	DATE 01/08/24
A1	DRAWING NO. 123A90-DDL-EL-DL-20118	SHEET 1of2	REV. 01

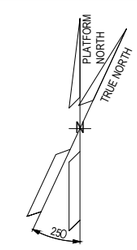
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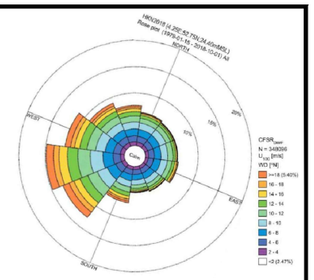
DRAWING NO. 123A90-DDL-EL-DL-20118

REV. 01



PLAN ON UPPER DECK
EL+30.310 T.O.S.





NOTES

1. ALL DIMENSIONS AND ELEVATIONS ARE GIVEN IN mm UNLESS OTHERWISE NOTED.
2. ELEVATIONS REFER TO T.O.S.
3. ELEVATION OF THE LAMPS ARE REFFERED TO THE BOTTOM OF THE LAMP.
4. FOR THE ELEVATION OF JB, REFER TO THE TYPICAL INSTALLATION.

LEGEND

- EMERGENCY LIGHTING JB
- 60W LED EMERGENCY LUMINARIES
- 60W LED EMERGENCY LUMINARIES FIXTURE POLE MOUNTED
- NORMAL LIGHTING JB
- 45W LED NORMAL LUMINARIES
- 45W LED NORMAL LUMINARIES FIXTURE POLE MOUNTED
- WELDING SOCKET WITH INTEGRATED JB
- SMALL POWER SOCKET WITH INTEGRATED JB
- TWILIGHT RELAY SENSOR

JB TAG:	JB-TAG
TAG:	TAG
ELE:	ELEVATION
STD:	STANDARD

VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DL-20118**

REV.:	DATE:	SIGNATURE:
1_B	22/10/24	G.Randi

ROSETTI MARINO SpA

REFERENCE DOCUMENTS

123A90-DDL-PP-DL-70070	PLOT PLAN - LOWER & UPPER DECK
123A90-DDL-EL-DL-20100	ELECTRICAL EQUIPMENT LAYOUT - TOP DECK
123A90-DDL-EL-DD-20091	ELECTRICAL TYPICAL INSTALLATION DETAILS - LIGHTING SYSTEM
123A90-DDL-EL-DD-20092	ELECTRICAL TYPICAL INSTALLATION DETAILS - POWER SYSTEM & CABLE INSTALLATION
123A90-DDL-EL-RE-20153	LIGHTING CALCULATION STUDY REPORT

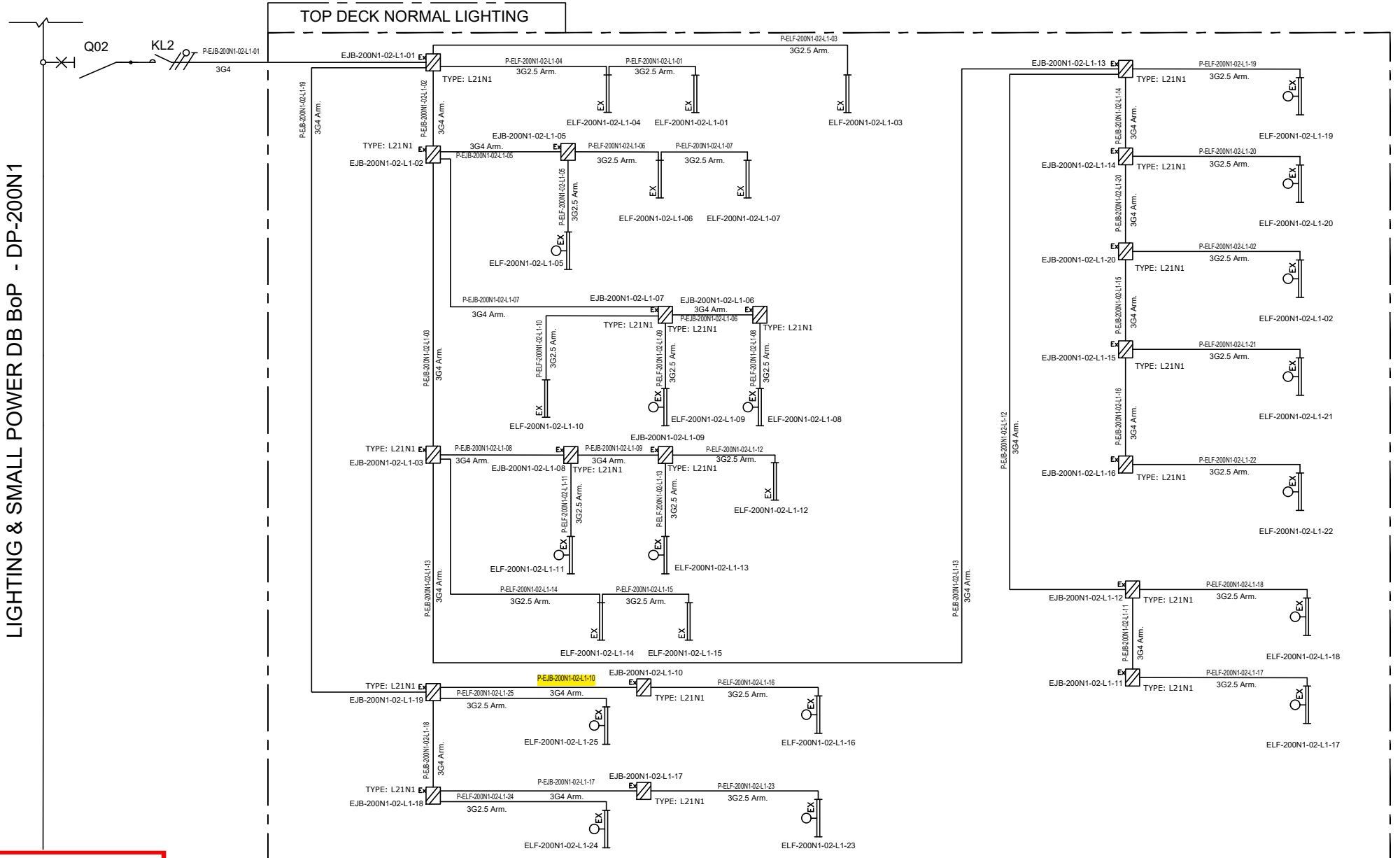
REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	02/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	28/05/24	ASR	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND | ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET LAYOUT – TOP DECK

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK			SCALE 1:150
DRAWN ASR	CHECKED FMA/AMA	APPROVED FPA/DLO	DATE 01/08/24
A1	DRAWING NO. 123A90-DDL-EL-DL-20118	SHEET 1of2	REV. 01

File Name : 123A90-DDL-EL-DL-20118



VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DG-20125**

REV.:	DATE:	SIGNATURE:
2_C	20/12/24	V.Ramponi

ROSETTI MARINO SpA

CROSSWIND

ROSETTI MARINO

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	08/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	01/07/24	ASR	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

TITLE : BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET CIRCUIT DIAGRAM
TOP DECK–NORMAL LIGHTING

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE : NTS

A3

DRAWING NO. 123A90–DDL–EL–DG–20125

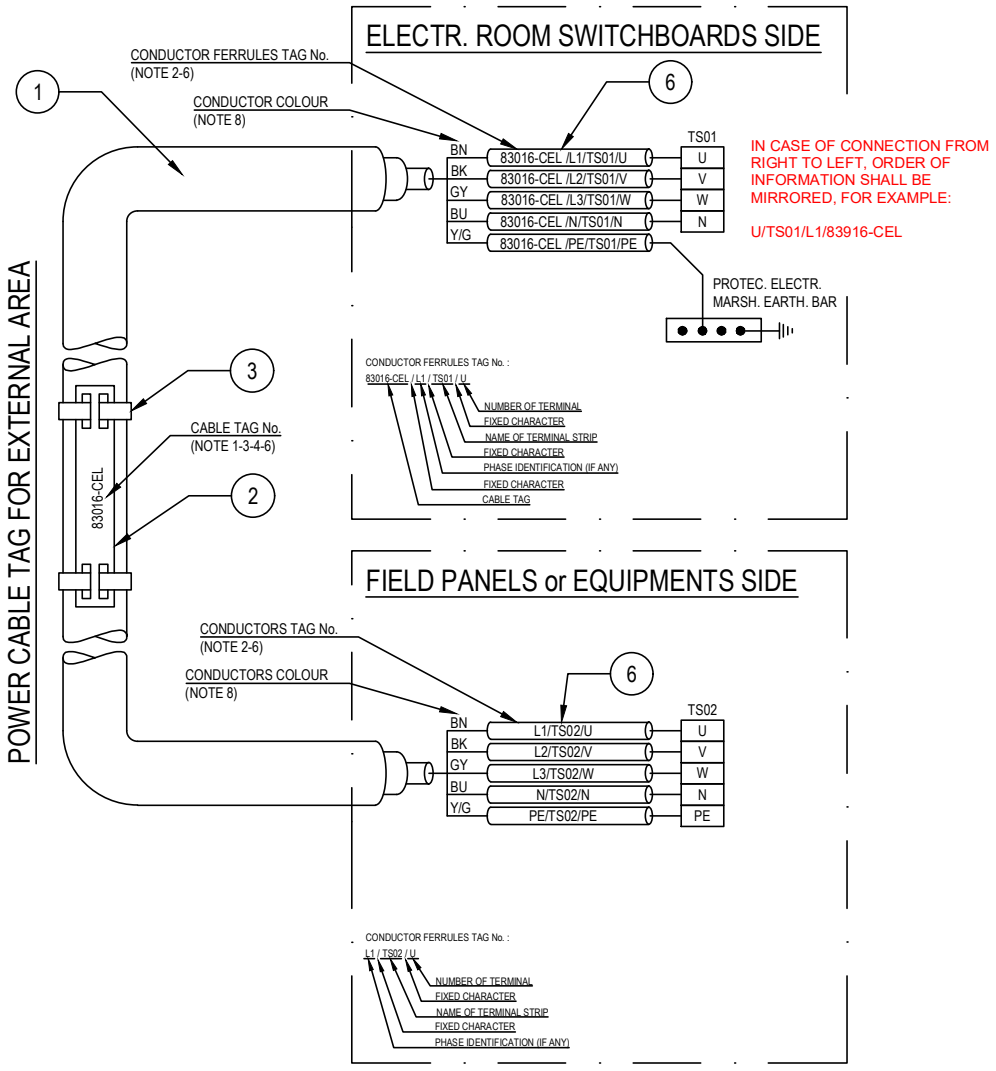
SHEET 010

REV. 01

F.to UNI A3: 420mmx297mm

File Name : 123A90–DDL–EL–DG–20125

C02



POS.	DESCRIPTION	MATERIAL	SIZE	Q.TY	NOTE
1	UNARMOURED CABLE				
2	CABLE TAG FOR EXTERNAL AREA	HDG/SS			NOTE 1 NOTE 4
3	TIE FOR CABLE TAG IN EXTERNAL AREA	HDG/SS			
4	CABLE TAG FOR INTERNAL AREA	PVC			NOTE 1 NOTE 5
5	TIE FOR CABLE TAG IN INTERNAL AREA	NYLON 6.6			
6	CORE FERRULES	PVC			

NOTES:

1) ALL CABLES SHALL BE IDENTIFIED AT EACH TERMINATION AND EACH SIDE OF ANY OBSTACLE (E.G. CABLE TRANSIT ON WALLS INSIDE SHELTER AND FLOOR DECK CROSSING, BY THEIR RESPECTIVE TAGS/NUMBERS, AS INDICATED ON THE CABLE SCHEDULE.
CABLE IDENTIFICATION SHALL BE ALSO DONE BELOW AND IN THE SWITCHBOARD CABLE COMPARTMENT.

2) CABLE CORE FERRULES SHALL BE FITTED AT EVERY TERMINATION. THESE FERRULES SHALL BE OF ENGRAVED PLASTIC SLIP ON, INTERLOCKED AND SELF GRIP TYPE.

3) ON CABLE TRAYS OR LADDERS, CABLES SHALL BE IDENTIFIED AT EACH END, AND EVERY 25 METERS.

4) THE CABLE TAG FOR EXTERNAL AREA SHALL DONE BY 316L STAINLESS STEEL LABELS, TAG (H=5mm) SHALL BE LASER PRINTED PREFERABLY OR EMBOSSED, LABEL HELD BY TWO 316L STAINLESS STEEL TIES.

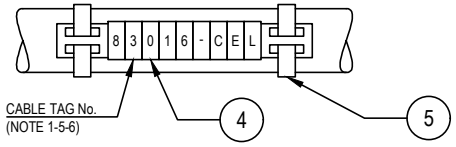
5) THE CABLE TAG FOR INTERNAL AREA SHALL BE DONE BY ENGRAVED PLASTIC SLIP ON CHARACTERS ONTO PLASTIC TIE, BLACK LETTER (H=5mm) ON WHITE.

6) CABLE AND CONDUCTOR TAG ARE INDICATIVE ONLY.

7) WITHIN TECHNICAL BUILDING, PROTECTIVE CONDUCTOR SHALL BE TAGGED BETWEEN FOLLOWING ITEMS:
- PANEL (SWITCHBOARD, SWITCHGEAR, DISTRIBUTION BOARD, ETC) AND EARTH BAR
- EARTH BAR AND EARTH BOSS

8) ONLY IF NECESSARY, SHRINK TUBES OF THE APPROPRIATE COLOR WILL BE INSTALLED TO COVER THE WRONG CONDUCTOR COLOR, THIS WILL BE PERFORMED IN EACH SIDE OF THE CABLES WHERE NECESSARY.

POWER CABLE TAG FOR INTERNAL AREA



VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DD-20092**

REV.:	DATE:	SIGNATURE:
2_D	20/12/24	V.Ramponi

ROSETTI MARINO SpA

CROSSWIND

ROSETTI MARINO

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	28/08/24	GRA	AMA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	04/07/24	NLK	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	21/11/23	SPS	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL TYPICAL INSTALLATION DETAILS-POWER SYSTEM & CABLE INSTALLATION
CABLES INSTALLATION SYSTEM IDENTIFICATION FOR POWER CABLES

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK | SCALE : NTS

A3 | DRAWING NO. 123A90-DDL-EL-DD-20092 | SHEET 007 | REV. 02

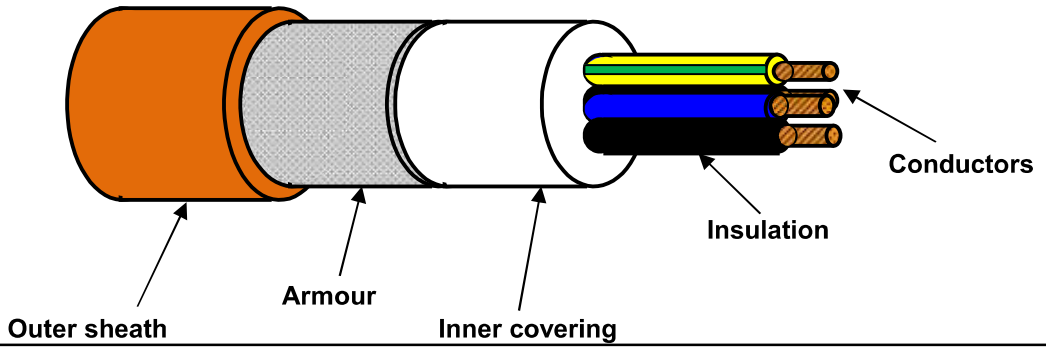
F.to UNI A3: 420mmx297mm

File Name : 123A90-DDL-EL-DD-20092 REV.02.DWG

Tag Number	Category	Disciplir	Eng Statu	NativeDoc	Layout	Parent Tag	Main Function	Secondary Fun	Area	From Tag	From Main Function	From Area	To Tag	To Main Function	To Area	Material ID	Material Desc.	Gland Standard	From Glan	From Entry	From Fitt	To Gland	To Entry	To Fitting	Routing	Routing Manual
P-EJB-200N1-02-L1-10	Cable	LSP	VFC	123A90-DDL-EL-LIS-20148						EJB-200N1-02-L1-19	Normal Lighting JB	Upper Deck	EJB-200N1-02-L1-10	Normal Lighting JB	Upper Deck	ELECV38-3G4	Cable Cu Cl.2/MGT/EPR/LSZH/GSWB/LSZH 0,6/1kV 3G4mm² - Orange	M20	T2_M20_ Double			T2_M20_Double				L-150-102-LVT-004

Cu Cl.2/MGT/EPR/LSZH/GSWB/LSZH 0,6/1 KV

3G4 - L.V. POWER CABLE - Fire Resistant & Flame Retardant - ARMOURED



TECHNICAL FEATURES

Conductors :	**STRANDED** plain/bare annealed copper wires	IEC 60228 Class 2
Insulation :	Mica/Glass Tape (MGT) plus EPR compound, quality to IEC 60092.360, Nominal Thickness 1,0 mm	
Cores colour code :	**Brown - Blue - Yellow/Green**	
Pair Assembling :	Not required	
Pair Wrapping:	Not required	
Drain wire :	Not required	
Pair Shield :	Not required	
Shield Insulation :	Not Required	
Total Assembling :	Cores layed up with optimal lay length	
Overall Wrapping:	Not required	
Drain wire :	Not required	
Overall Shield:	Not required	
Inner covering :	Extruded LSZH compound, Average Thickness 1,0 mm	
Inner covering color code:	**Black or Natural**	
Armour :	**Galvanized Steel Wire Braid Armour (coverage ≥ 90%)**	
Outer sheath :	Extruded LSZH Thermoplastic Compound (O.I. ≥ 30%), type **SHF1** to IEC 60093.360, Average Thickness 1,4 mm	
Outer sheath color code:	**Orange**	
Outer printing (INKJET) :	**FLEI - ELECTRIC CABLE - 1000V - 3G4 SQMM - MGT/EPR/LSZH/GSWB/LSZH - 0,6/1 KV - IEC 60331.21 -**	
	IEC 60332.1.2 - IEC 60332.3.22 - Year of Manufacture - CE + Meter Marking	
Under Armour diameter :	(13,0 ± 10%) mm	
Over Armour diameter :	(14,2 ± 10%) mm	
Outer diameter :	(17,0 ± 10%) mm	
Bending radius :	cable outer diameter x 10	(in fixed installation)
Voltage test :	3,5 kV a.c. for 5' (Between Cores - Armour)	
Conductors DC Resistance :		IEC 60228 Class 2
Insulation Resistance :	≥ 790 MΩ x Km (@ 20°C)	
Applicable Standards		
Design Guidelines :	**IEC 60092.353**	
ON COMPLETE CABLE		
Fire Resistant test :	**IEC 60331.21**	
Flame Retardant test :	IEC 60332.1.2 - IEC 60332.3.22	
Acid Gas generation :	IEC 60754.1/2	
Smoke density/Light Transmittance	IEC 61034.2 (LT ≥ 60%)	
Temperature Range :		
ON INSULATION	(max +90°C)	(max continuous operation temperature of conductors)
	(max +250°C)	(max conductors temperature during short-circuit for 5 seconds)
ON COMPLETE CABLE		
During Operation :	(-20°C up to +90°C)	(in fixed installation)
During installation :	(- 5°C up to +50°C)	
Note :	**To meet the requirements of installation and use in Zone 1 & Zone 2 (IEC 60079-14) and "Gas & Vapour Tight" the cable must be provided with Penetrating Inner covering together with correct ATEX approved equipment or accessories.**	

Office	Date	Sign	Rev.	Date	Sign
Drawn by :	29/03/2024	Messa			
Checked :	29/03/2024	Spaccasassi			
Approved :	29/03/2024	Cucinotta			

The data provided, lending assent for the treatment, will be used to the sense of the article 13 of of the Regulation (UE) 2016/679, also through outsiders, in order to allow the realization of the fulfilments informatives, administrative, commercial and accounting related to the contractual relationship. Integral copy of the informative could be requested at our offices.

All proprietary rights reserved according to law. This document shall be not reproduced without written permission. FLEI reserves the right to change characteristics and technical data of product shown at any time.

ITEM	Tag	P-ELF-200N1-02-L1-16	: Normal Lighting JB / Normal Lighting Fixture			Dwg	123A90-DDL-EL-LIS-20148
	S/Sys	83-40	: Normal Lighting Upper Deck			Module	UD
TASK	code	C10000686		Location	Onshore Activities	User	Rosetti Marino Quality Control
FORM	Process	MC	Activity CCK	Discipline	Electrical	Form	CPX09 LV Power Cable

CABLE DATA

Type Cu Cl.2/MGT/EPR/LSZH/GSWB/LSZH Cores/Size mm² 3G2,5 mm2 Color ORANGE

From EJB-200N1-02-L1-10 To ELF-200N1-02-L1-16

1	Confirm cable is as specified in project cable schedule	OK
2	Visual Check cable physical integrity.	OK
3	Check is installed in accordance with layout drawing (segregation, distance…).	PL
4	Check cable is supported and fixed to rack according to project specification.	Note
5	Check bending radius is within the specified limits.	OK
6	Confirm cable glands suit for cable type, correctly mounted and tightened.	PL
7	Check gland plate for single core cables is non ferrous (non -magnetic).	NA
8	Confirm cable labelling is in accordance with specifications.	PL
9	Check cable is correctly loomed and segregated in accordance with specification.	OK
10	Check cable earthing against lastest drawings.	OK
11	Check cores marking are in accordance with termination diagram	PL
12	Check terminations are in accordance with latest termination diagram	OK
13	If required produce Red Line Mark Up for "AS BUILT"	

ROSETTI MARINO PROVERLIS CROSSWIND

ITEM	Tag	P-ELF-200N1-02-L1-16	: Normal Lighting JB / Normal Lighting Fixture			Dwg	123A90-DDL-EL-LIS-20148
	S/Sys	83-40	: Normal Lighting Upper Deck			Module	UD
TASK	code	C10000686		Location	Onshore Activities	User	Rosetti Marino Quality Control
FORM	Process	MC	Activity CCK	Discipline	Electrical	Form	CPX09 LV Power Cable

	CONTINUITY			
5	CORE CONTINUITY Ω	PH 1	0,2	
6		PH 2	0,2	
7		PH 3	NA	
8	ARMOUR CONTINUITY Ω		0.2	
9	PROTECTIVE CONDUCTOR CONTINUITY Ω		0,2	
	INSULATION			
10	CORES / ARMOUR+EARTH MΩ	PH1 / PH2-PH3-A-E	>999	
11		PH2 / PH1-PH3-A-E	>999	
12		PH3 / PH1-PH2-A-E	NA	
13	CABLE IS CORRECTLY RE-CONNECTED.		Yes	

TESTING INSTRUMENTS USED

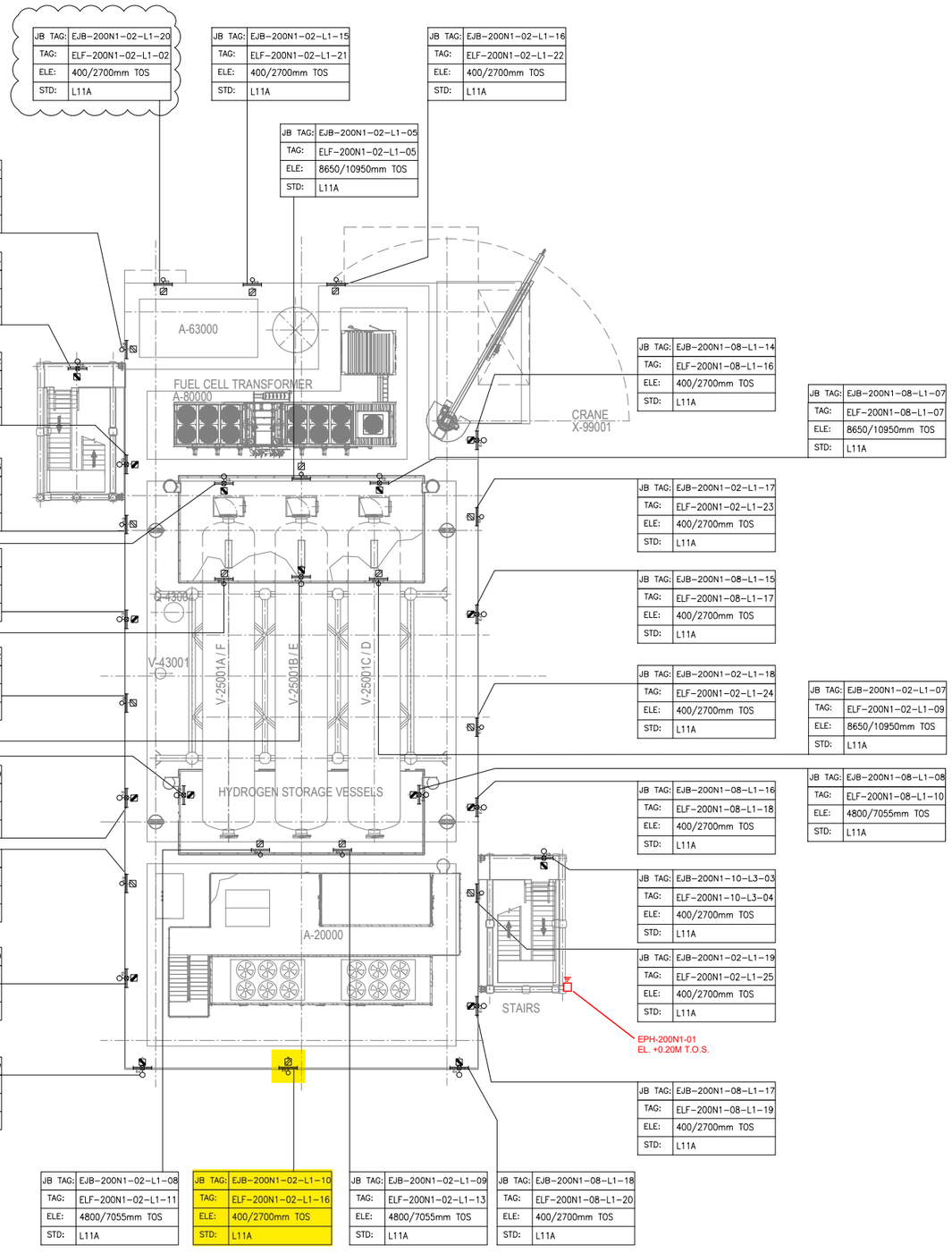
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Calibration certificate N° and date:	N°7722/24 _ 10/07/2024	Calibration certificate N° and date:	N°7715/24 _ 10/07/2024

Comments: Nota 4: refer to PL C30000679

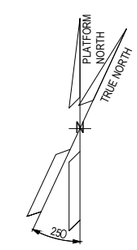
	Performed by	● WITNESS ☐ REVIEW	☐ WITNESS ☐ REVIEW
Company	ICS IMPIANTI	RM(ROSETTI MARINO)	
Name	Francesco Zucca	Andrea Andreani	
Date	2024-12-05	2024-12-07	
Signature	PROVERLIS Digitaly signed by Francesco Zucca 2024-12-05T18:07:59.956Z	PROVERLIS Digitaly signed by Andrea Andreani 2024-12-07T08:22:20.415Z	

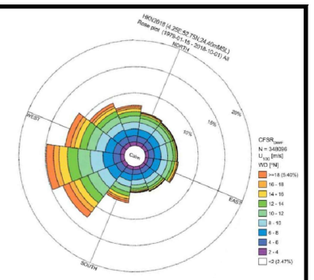
DRAWING NO. 123A90-DDL-EL-DL-20118

REV. 01



PLAN ON UPPER DECK
EL+30.310 T.O.S.





NOTES

1. ALL DIMENSIONS AND ELEVATIONS ARE GIVEN IN mm UNLESS OTHERWISE NOTED.
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3. ELEVATION OF THE LAMPS ARE REFFERED TO THE BOTTOM OF THE LAMP.
4. FOR THE ELEVATION OF JB, REFER TO THE TYPICAL INSTALLATION.

LEGEND

- EMERGENCY LIGHTING JB
- 60W LED EMERGENCY LUMINARIES
- 60W LED EMERGENCY LUMINARIES FIXTURE POLE MOUNTED
- NORMAL LIGHTING JB
- 45W LED NORMAL LUMINARIES
- 45W LED NORMAL LUMINARIES FIXTURE POLE MOUNTED
- WELDING SOCKET WITH INTEGRATED JB
- SMALL POWER SOCKET WITH INTEGRATED JB
- TWILIGHT RELAY SENSOR

JB TAG:	JB-TAG
TAG:	TAG
ELE:	ELEVATION
STD:	STANDARD

VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DL-20118**

REV.:	DATE:	SIGNATURE:
1_B	22/10/24	G.Randi

ROSETTI MARINO SpA

REFERENCE DOCUMENTS

123A90-DDL-PP-DL-70070	PLOT PLAN - LOWER & UPPER DECK
123A90-DDL-EL-DL-20100	ELECTRICAL EQUIPMENT LAYOUT - TOP DECK
123A90-DDL-EL-DD-20091	ELECTRICAL TYPICAL INSTALLATION DETAILS - LIGHTING SYSTEM
123A90-DDL-EL-DD-20092	ELECTRICAL TYPICAL INSTALLATION DETAILS - POWER SYSTEM & CABLE INSTALLATION
123A90-DDL-EL-RE-20153	LIGHTING CALCULATION STUDY REPORT

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	02/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	28/05/24	ASR	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND | ROSETTI MARINO

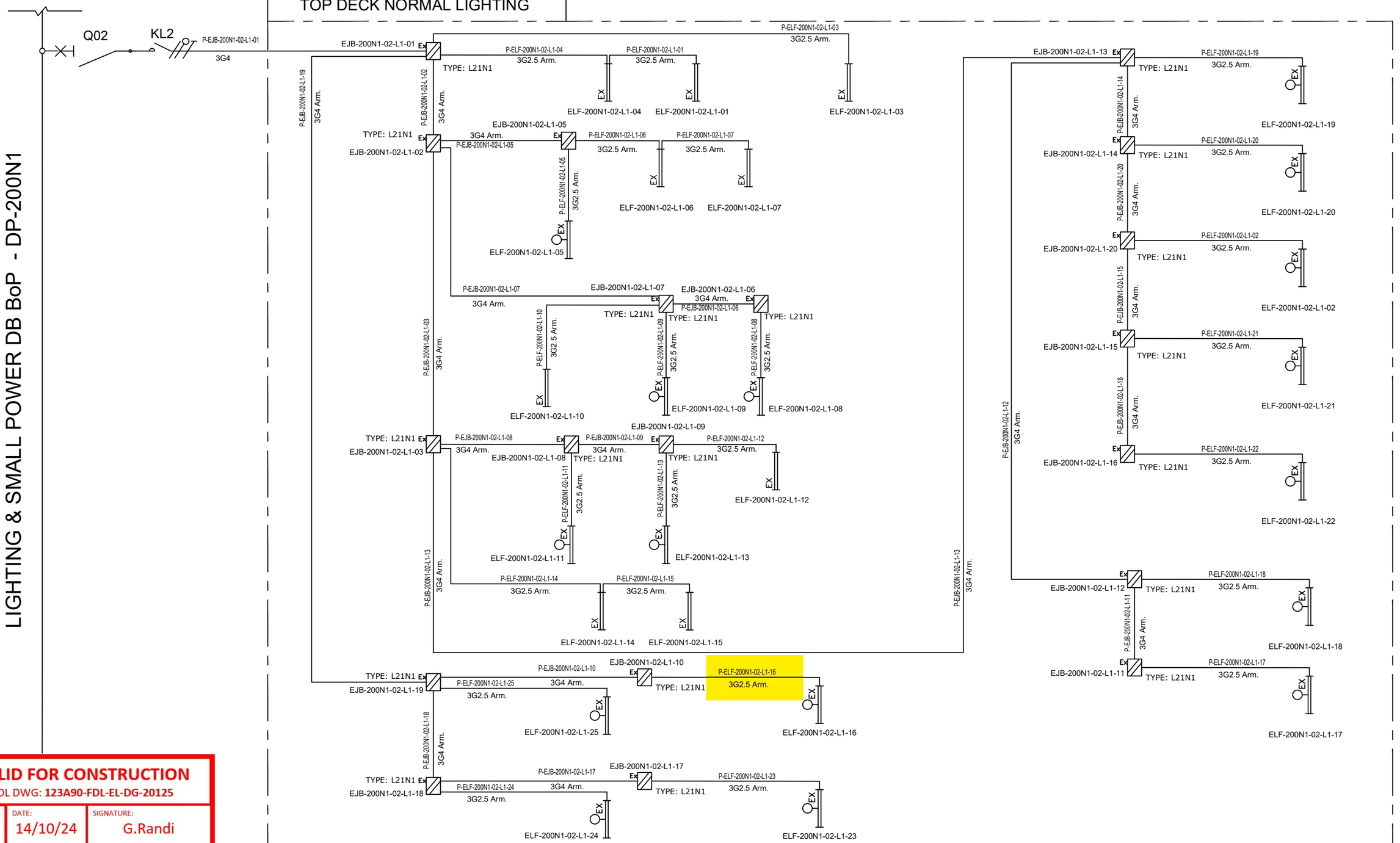
TITLE : BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET LAYOUT – TOP DECK

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK			SCALE 1:150
DRAWN ASR	CHECKED FMA/AMA	APPROVED FPA/DLO	DATE 01/08/24
A1	DRAWING NO. 123A90-DDL-EL-DL-20118	SHEET 1of2	REV. 01

File Name : 123A90-DDL-EL-DL-20118

LIGHTING & SMALL POWER DB BoP - DP-200N1

TOP DECK NORMAL LIGHTING



VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DG-20125**

REV.:	DATE:	SIGNATURE:
1_B	14/10/24	G.Randi

ROSETTI MARINO SpA

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	08/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	01/07/24	ASR	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

TITLE : BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET CIRCUIT DIAGRAM
TOP DECK–NORMAL LIGHTING

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE : NTS

A3

DRAWING NO. 123A90–DDL–EL–DG–20125

SHEET 010

REV. 01

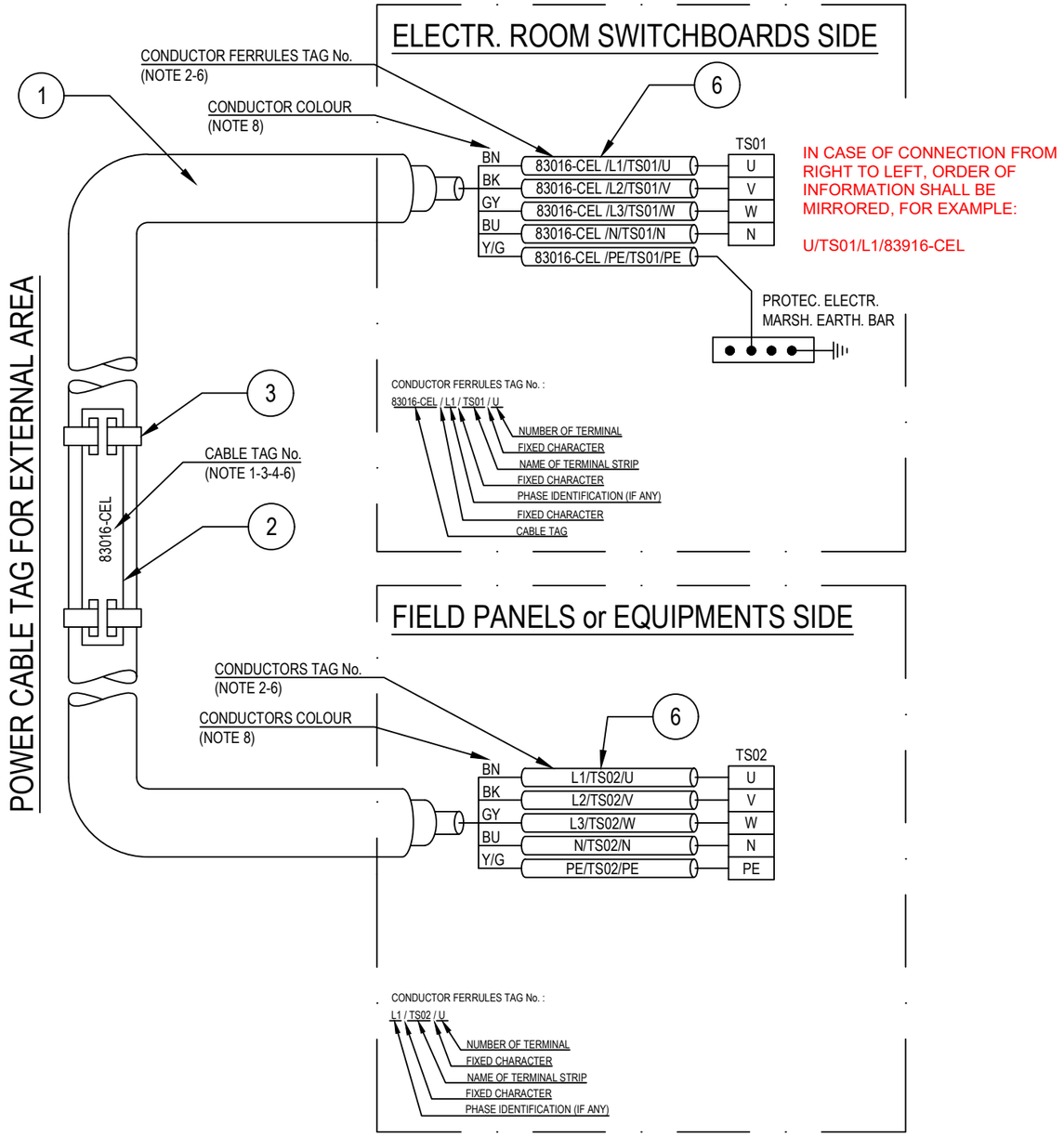
CROSSWIND

ROSETTI MARINO

F.to UNI A3: 420mmx297mm

File Name : 123A90–DDL–EL–DG–20125

C02



POS.	DESCRIPTION	MATERIAL	SIZE	Q.TY	NOTE
1	UNARMOURED CABLE				
2	CABLE TAG FOR EXTERNAL AREA	HDG/SS			NOTE 1 NOTE 4
3	TIE FOR CABLE TAG IN EXTERNAL AREA	HDG/SS			
4	CABLE TAG FOR INTERNAL AREA	PVC			NOTE 1 NOTE 5
5	TIE FOR CABLE TAG IN INTERNAL AREA	NYLON 6.6			
6	CORE FERRULES	PVC			

NOTES:

1) ALL CABLES SHALL BE IDENTIFIED AT EACH TERMINATION AND EACH SIDE OF ANY OBSTACLE (E.G. CABLE TRANSIT ON WALLS INSIDE SHELTER AND FLOOR DECK CROSSING, BY THEIR RESPECTIVE TAGS/NUMBERS, AS INDICATED ON THE CABLE SCHEDULE.
CABLE IDENTIFICATION SHALL BE ALSO DONE BELOW AND IN THE SWITCHBOARD CABLE COMPARTMENT.

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4) THE CABLE TAG FOR EXTERNAL AREA SHALL DONE BY 316L STAINLESS STEEL LABELS, TAG (H=5mm) SHALL BE LASER PRINTED PREFERABLY OR EMBOSSED, LABEL HELD BY TWO 316L STAINLESS STEEL TIES.

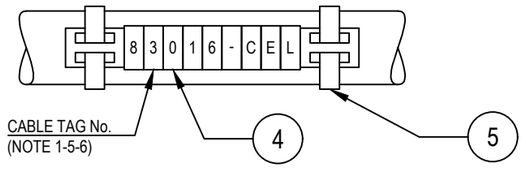
5) THE CABLE TAG FOR INTERNAL AREA SHALL BE DONE BY ENGRAVED PLASTIC SLIP ON CHARACTERS ONTO PLASTIC TIE, BLACK LETTER (H=5mm) ON WHITE.

6) CABLE AND CONDUCTOR TAG ARE INDICATIVE ONLY.

7) WITHIN TECHNICAL BUILDING, PROTECTIVE CONDUCTOR SHALL BE TAGGED BETWEEN FOLLOWING ITEMS:
- PANEL (SWITCHBOARD, SWITCHGEAR, DISTRIBUTION BOARD, ETC) AND EARTH BAR
- EARTH BAR AND EARTH BOSS

8) ONLY IF NECESSARY, SHRINK TUBES OF THE APPROPRIATE COLOR WILL BE INSTALLED TO COVER THE WRONG CONDUCTOR COLOR, THIS WILL BE PERFORMED IN EACH SIDE OF THE CABLES WHERE NECESSARY.

POWER CABLE TAG FOR INTERNAL AREA



VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DD-20092**

REV.:	DATE:	SIGNATURE:
2_B	28/11/24	G.Randi

ROSETTI MARINO SpA

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	28/08/24	GRA	AMA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	04/07/24	NLK	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	21/11/23	SPS	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL TYPICAL INSTALLATION DETAILS-POWER SYSTEM & CABLE INSTALLATION
CABLES INSTALLATION SYSTEM IDENTIFICATION FOR POWER CABLES

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK | SCALE : NTS

A3	DRAWING NO.	SHEET	REV.
	123A90-DDL-EL-DD-20092	007	02

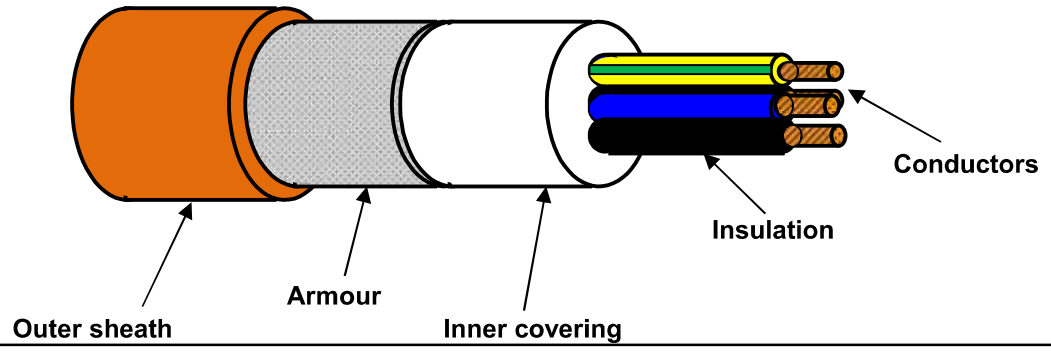
F.to UNI A3: 420mmx297mm

File Name : 123A90-DDL-EL-DD-20092 REV.02.DWG

Tag Number	Category	Discipline	Eng Status	NativeDoc	Layout	Parent Tag	Main Function	Secondary Function	Area	From Tag	From Main Function	From Area	To Tag	To Main Function	To Area	Material ID	Material Desc.	Gland Standard	From Gland	From Entry	From Fitting	To Gland	To Entry	To Fitting	Routing	Routing Manual
P-ELF-200N1-02-L1-16	Cable	LSP	VFC	123A90-DDL-EL-LIS-20148						EJB-200N1-02-L1-10	Normal Lighting JB	Upper Deck	ELF-200N1-02-L1-16	Normal Lighting Fixture	Upper Deck	ELECV19-3G2,5	Cable Cu Cl.2/MGT/EPR/LSZH/GSWB/LSZH 0,6/1kV 3G2,5mm² - Orange	M20	T2_M20_Double			T2_M20_Double				L-50-102-LVT-035

Cu Cl.2/MGT/EPR/LSZH/GSWB/LSZH 0,6/1 KV

3G2,5 - L.V. POWER CABLE - Fire Resistant & Flame Retardant - ARMOURED



TECHNICAL FEATURES

Conductors :	**STRANDED** plain/bare annealed copper wires	IEC 60228 Class 2
Insulation :	Mica/Glass Tape (MGT) plus EPR compound, quality to IEC 60092.360, Nominal Thickness 1,0 mm	
Cores colour code :	**Brown - Blue - Yellow/Green**	
Pair Assembling :	Not required	
Pair Wrapping:	Not required	
Drain wire :	Not required	
Pair Shield :	Not required	
Shield Insulation :	Not Required	
Total Assembling :	Cores layed up with optimal lay length	
Overall Wrapping:	Not required	
Drain wire :	Not required	
Overall Shield:	Not required	
Inner covering :	Extruded LSZH compound, Average Thickness 1,0 mm	
Inner covering color code:	**Black or Natural**	
Armour :	**Galvanized Steel Wire Braid Armour (coverage ≥ 90%)**	
Outer sheath :	Extruded LSZH Thermoplastic Compound (O.I. ≥ 30%), type **SHF1** to IEC 60093.360, Average Thickness 1,3 mm	
Outer sheath color code:	**Orange**	
Outer printing (INKJET) :	**FLEI - ELECTRIC CABLE - 1000V - 3G2,5 SQMM - MGT/EPR/LSZH/GSWB/LSZH - 0,6/1 KV - IEC 60331.21 - IEC 60332.1.2 - IEC 60332.3.22 - Year of Manufacture - CE + Meter Marking**	
Under Armour diameter :	(11,7 ± 10%) mm	
Over Armour diameter :	(12,9 ± 10%) mm	
Outer diameter :	(15,5 ± 10%) mm	
Bending radius :	cable outer diameter x 10	(in fixed installation)
Voltage test :	3,5 kV a.c. for 5' (Between Cores - Armour)	
Conductors DC Resistance :		IEC 60228 Class 2
Insulation Resistance :	≥ 940 MΩ x Km (@ 20°C)	
Applicable Standards		
Design Guidelines :	**IEC 60092.353**	
ON COMPLETE CABLE		
Fire Resistant test :	**IEC 60331.21**	
Flame Retardant test :	IEC 60332.1.2 - IEC 60332.3.22	
Acid Gas generation :	IEC 60754.1/2	
Smoke density/Light Transmittance	IEC 61034.2 (LT ≥ 60%)	
Temperature Range :		
ON INSULATION	(max +90°C)	(max continuous operation temperature of conductors)
	(max +250°C)	(max conductors temperature during short-circuit for 5 seconds)
ON COMPLETE CABLE		
During Operation :	(-20°C up to +90°C)	(in fixed installation)
During installation :	(- 5°C up to +50°C)	
Note :	**To meet the requirements of installation and use in Zone 1 & Zone 2 (IEC 60079-14) and "Gas & Vapour Tight" the cable must be provided with Penetrating Inner covering together with correct ATEX approved equipment or accessories.**	

Office	Date	Sign	Rev.	Date	Sign
Drawn by :	29/03/2024	Messa			
Checked :	29/03/2024	Spaccasassi			
Approved :	29/03/2024	Cucinotta			

The data provided, lending assent for the treatment, will be used to the sense of the article 13 of of the Regulation (UE) 2016/679, also through outsiders, in order to allow the realization of the fulfilments informatives, administrative, commercial and accounting related to the contractual relationship. Integral copy of the informative could be requested at our offices.

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ITEM	Tag	P-EJB-200N1-02-L1-11	: Normal Lighting JB / Normal Lighting JB			Dwg	123A90-DDL-EL-LIS-20148
	S/Sys	83-40	: Normal Lighting Upper Deck			Module	UD
TASK	code	C10000687		Location	Onshore Activities	User	Rosetti Marino Quality Control
FORM	Process	MC	Activity CCK	Discipline	Electrical	Form	CPX09 LV Power Cable

CABLE DATA

Type	Cu Cl.2/MGT/EPR/LSZH/GSWB/LSZH	Cores/Size mm²	3G4 mm2	Color	ORANGE

From EJB-200N1-02-L1-12 To EJB-200N1-02-L1-11

1	Confirm cable is as specified in project cable schedule	OK
2	Visual Check cable physical integrity.	OK
3	Check is installed in accordance with layout drawing (segregation, distance…).	OK
4	Check cable is supported and fixed to rack according to project specification.	NA
5	Check bending radius is within the specified limits.	OK
6	Confirm cable glands suit for cable type, correctly mounted and tightened.	PL
7	Check gland plate for single core cables is non ferrous (non -magnetic).	NA
8	Confirm cable labelling is in accordance with specifications.	PL
9	Check cable is correctly loomed and segregated in accordance with specification.	OK
10	Check cable earthing against lastest drawings.	OK
11	Check cores marking are in accordance with termination diagram	OK
12	Check terminations are in accordance with latest termination diagram	OK
13	If required produce Red Line Mark Up for "AS BUILT"	

ROSETTI MARINO PROVERLIS CROSSWIND

ITEM	Tag	P-EJB-200N1-02-L1-11	: Normal Lighting JB / Normal Lighting JB			Dwg	123A90-DDL-EL-LIS-20148
	S/Sys	83-40	: Normal Lighting Upper Deck			Module	UD
TASK	code	C10000687		Location	Onshore Activities	User	Rosetti Marino Quality Control
FORM	Process	MC	Activity CCK	Discipline	Electrical	Form	CPX09 LV Power Cable

	CONTINUITY			
5	CORE CONTINUITY Ω	PH 1	0,1	
6		PH 2	0,1	
7		PH 3	NA	
8	ARMOUR CONTINUITY Ω		0,1	
9	PROTECTIVE CONDUCTOR CONTINUITY Ω		0,1	
	INSULATION			
10	CORES / ARMOUR+EARTH MΩ	PH1 / PH2-PH3-A-E	>999	
11		PH2 / PH1-PH3-A-E	>999	
12		PH3 / PH1-PH2-A-E	NA	
13	CABLE IS CORRECTLY RE-CONNECTED.		Yes	

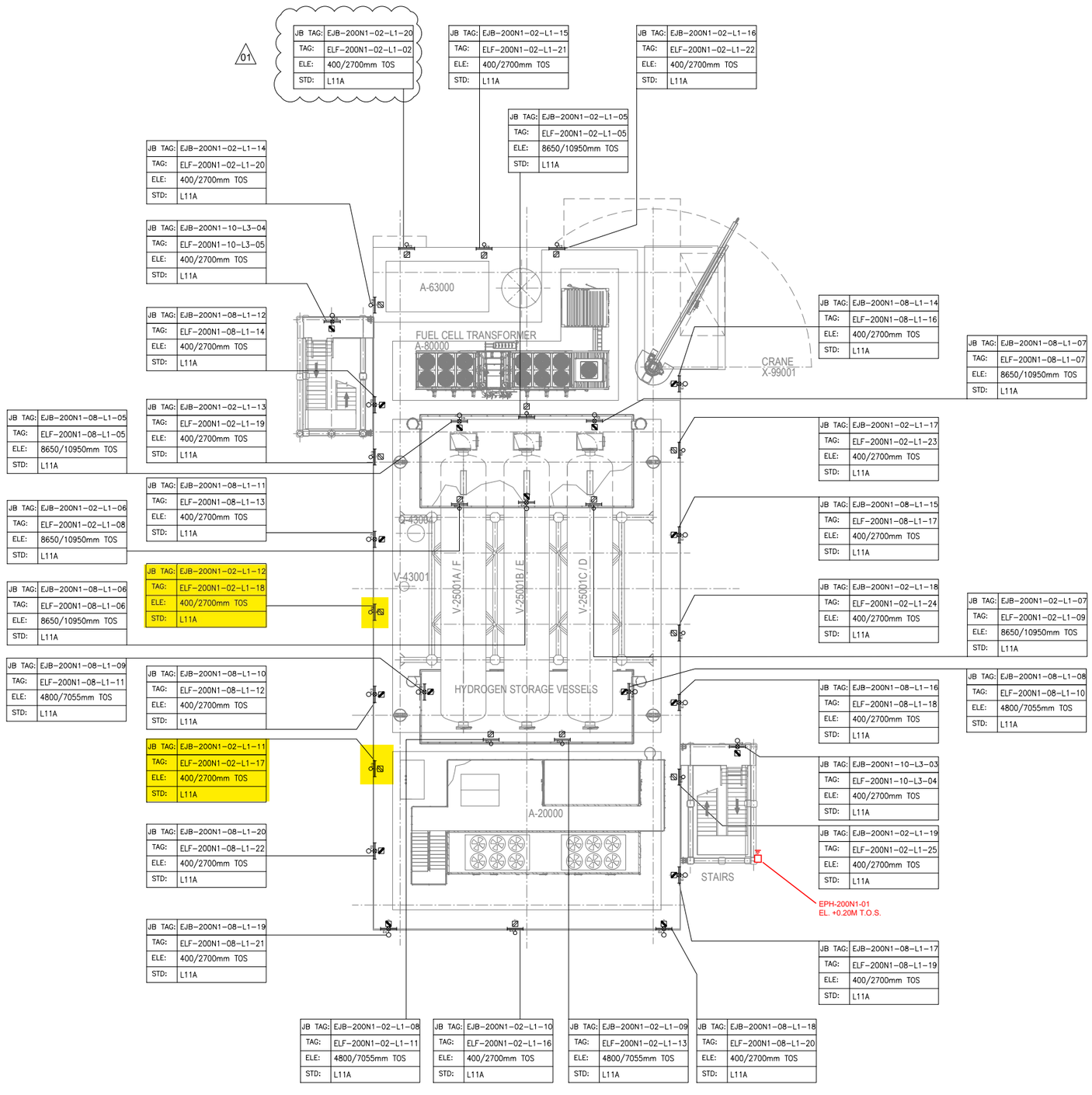
TESTING INSTRUMENTS USED			
TYPE / SERIAL N° :	MEGGER : KEW3125A SERIAL: W8330207	TYPE / SERIAL N° :	MULTIMETER: FLUKE 175 SERIAL:AW1/018(17140769)
Calibration certificate N° and date:	N°7722/24 _ 10/07/2024	Calibration certificate N° and date:	N°7715/24 _ 10/07/2024

Comments: Nota 4: refer to PL C30000679

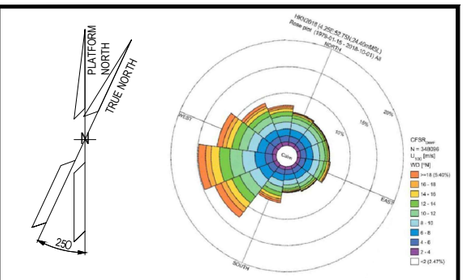
	Performed by	● WITNESS ☐ REVIEW	☐ WITNESS ☐ REVIEW
Company	ICS IMPIANTI	RM(ROSETTI MARINO)	
Name	Francesco Zucca	Luca Mussi	
Date	2024-12-28	2024-12-28	
Signature	PROVERLIS Digitaly signed by Francesco Zucca 2024-12-28T07:29:31.255Z	PROVERLIS Digitaly signed by Luca Mussi 2024-12-28T12:22:34.691Z	

DRAWING NO. 123A90-DDL-EL-DL-20118

REV. 01



PLAN ON UPPER DECK
EL+30.310 T.O.S.



NOTES

1. ALL DIMENSIONS AND ELEVATIONS ARE GIVEN IN mm UNLESS OTHERWISE NOTED.
2. ELEVATIONS REFER TO T.O.S.
3. ELEVATION OF THE LAMPS ARE REFFERED TO THE BOTTOM OF THE LAMP.
4. FOR THE ELEVATION OF JB, REFER TO THE TYPICAL INSTALLATION.

LEGEND

- EMERGENCY LIGHTING JB
- 60W LED EMERGENCY LUMINARIES
- 60W LED EMERGENCY LUMINARIES FIXTURE POLE MOUNTED
- NORMAL LIGHTING JB
- 45W LED NORMAL LUMINARIES
- 45W LED NORMAL LUMINARIES FIXTURE POLE MOUNTED
- WELDING SOCKET WITH INTEGRATED JB
- SMALL POWER SOCKET WITH INTEGRATED JB
- TWILIGHT RELAY SENSOR

JB TAG:	JB-TAG
TAG:	TAG
ELE:	ELEVATION
STD:	STANDARD

VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DL-20118**

REV.:	DATE:	SIGNATURE:
1_B	22/10/24	G.Randi

ROSETTI MARINO SpA

REFERENCE DOCUMENTS

123A90-DDL-PP-DL-70070	PLOT PLAN - LOWER & UPPER DECK
123A90-DDL-EL-DL-20100	ELECTRICAL EQUIPMENT LAYOUT - TOP DECK
123A90-DDL-EL-DD-20091	ELECTRICAL TYPICAL INSTALLATION DETAILS - LIGHTING SYSTEM
123A90-DDL-EL-DD-20092	ELECTRICAL TYPICAL INSTALLATION DETAILS - POWER SYSTEM & CABLE INSTALLATION
123A90-DDL-EL-RE-20153	LIGHTING CALCULATION STUDY REPORT

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	02/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	28/05/24	ASR	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND | ROSETTI MARINO

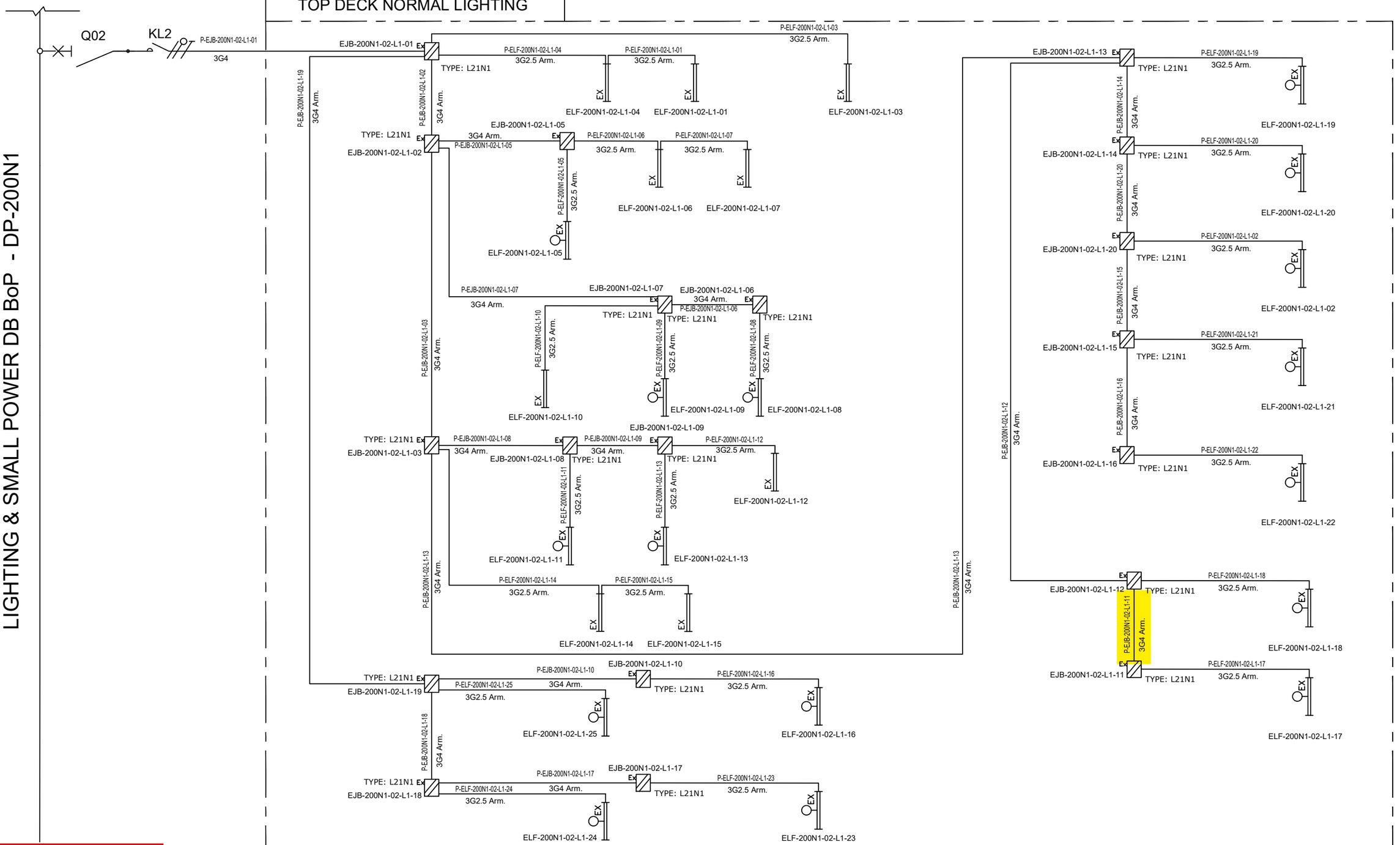
TITLE : BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET LAYOUT – TOP DECK

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK			SCALE 1:150
DRAWN ASR	CHECKED FMA/AMA	APPROVED FPA/DLO	DATE 01/08/24
A1	DRAWING NO. 123A90-DDL-EL-DL-20118	SHEET 1of2	REV. 01

File Name : 123A90-DDL-EL-DL-20118

LIGHTING & SMALL POWER DB BoP - DP-200N1

TOP DECK NORMAL LIGHTING



VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DG-20125**

REV.:	DATE:	SIGNATURE:
2_C	20/12/24	V.Ramponi

ROSETTI MARINO SpA

CROSSWIND

ROSETTI MARINO

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	08/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	01/07/24	ASR	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

TITLE : BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET CIRCUIT DIAGRAM
TOP DECK–NORMAL LIGHTING

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE : NTS

A3

DRAWING NO. 123A90–DDL–EL–DG–20125

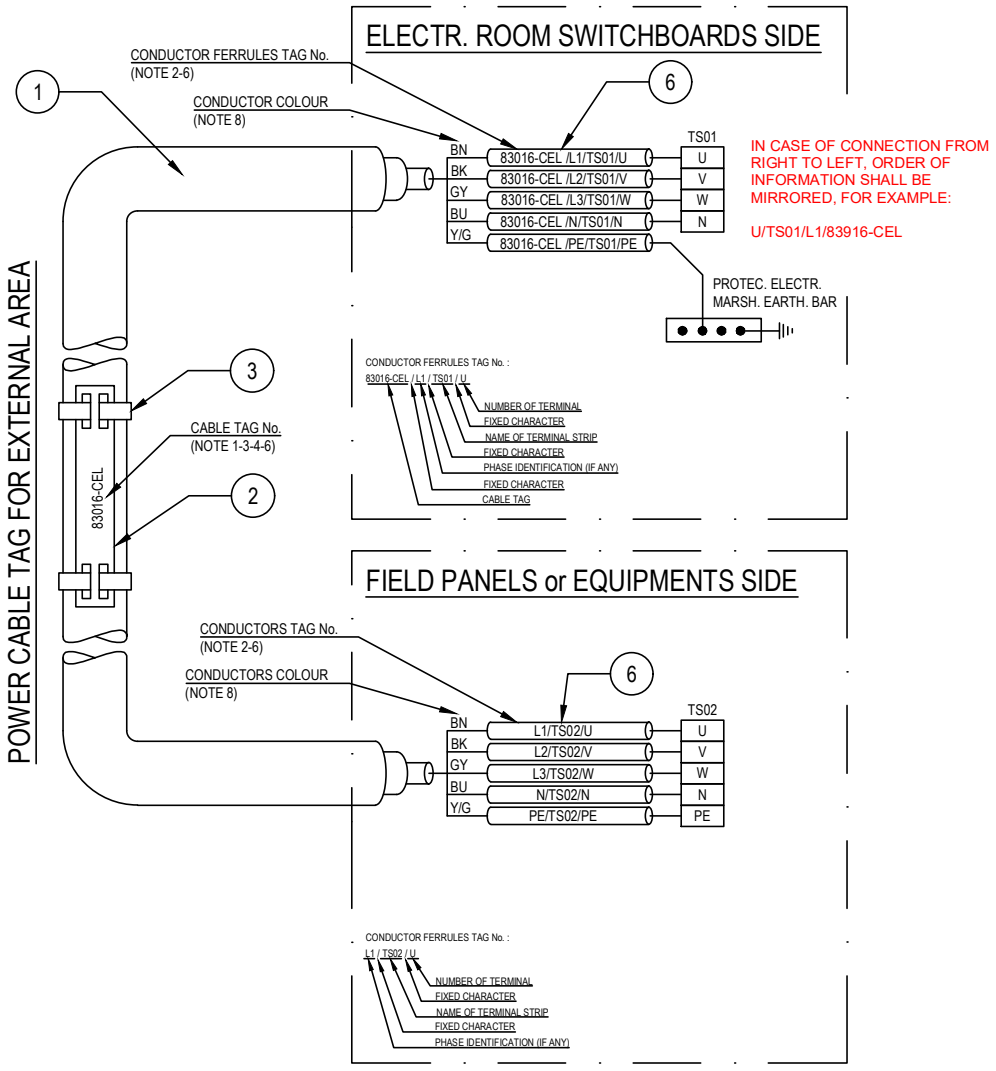
SHEET 010

REV. 01

F.to UNI A3: 420mmx297mm

File Name : 123A90–DDL–EL–DG–20125

C02



POS.	DESCRIPTION	MATERIAL	SIZE	Q.TY	NOTE
1	UNARMOURED CABLE				
2	CABLE TAG FOR EXTERNAL AREA	HDG/SS			NOTE 1 NOTE 4
3	TIE FOR CABLE TAG IN EXTERNAL AREA	HDG/SS			
4	CABLE TAG FOR INTERNAL AREA	PVC			NOTE 1 NOTE 5
5	TIE FOR CABLE TAG IN INTERNAL AREA	NYLON 6.6			
6	CORE FERRULES	PVC			

NOTES:

1) ALL CABLES SHALL BE IDENTIFIED AT EACH TERMINATION AND EACH SIDE OF ANY OBSTACLE (E.G. CABLE TRANSIT ON WALLS INSIDE SHELTER AND FLOOR DECK CROSSING, BY THEIR RESPECTIVE TAGS/NUMBERS, AS INDICATED ON THE CABLE SCHEDULE.
CABLE IDENTIFICATION SHALL BE ALSO DONE BELOW AND IN THE SWITCHBOARD CABLE COMPARTMENT.

2) CABLE CORE FERRULES SHALL BE FITTED AT EVERY TERMINATION. THESE FERRULES SHALL BE OF ENGRAVED PLASTIC SLIP ON, INTERLOCKED AND SELF GRIP TYPE.

3) ON CABLE TRAYS OR LADDERS, CABLES SHALL BE IDENTIFIED AT EACH END, AND EVERY 25 METERS.

4) THE CABLE TAG FOR EXTERNAL AREA SHALL DONE BY 316L STAINLESS STEEL LABELS, TAG (H=5mm) SHALL BE LASER PRINTED PREFERABLY OR EMBOSSED, LABEL HELD BY TWO 316L STAINLESS STEEL TIES.

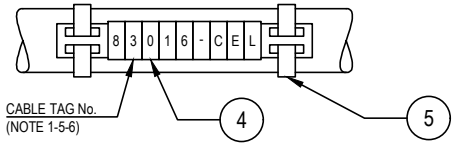
5) THE CABLE TAG FOR INTERNAL AREA SHALL BE DONE BY ENGRAVED PLASTIC SLIP ON CHARACTERS ONTO PLASTIC TIE, BLACK LETTER (H=5mm) ON WHITE.

6) CABLE AND CONDUCTOR TAG ARE INDICATIVE ONLY.

7) WITHIN TECHNICAL BUILDING, PROTECTIVE CONDUCTOR SHALL BE TAGGED BETWEEN FOLLOWING ITEMS:
- PANEL (SWITCHBOARD, SWITCHGEAR, DISTRIBUTION BOARD, ETC) AND EARTH BAR
- EARTH BAR AND EARTH BOSS

8) ONLY IF NECESSARY, SHRINK TUBES OF THE APPROPRIATE COLOR WILL BE INSTALLED TO COVER THE WRONG CONDUCTOR COLOR, THIS WILL BE PERFORMED IN EACH SIDE OF THE CABLES WHERE NECESSARY.

POWER CABLE TAG FOR INTERNAL AREA



VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DD-20092**

REV.:	DATE:	SIGNATURE:
2_D	20/12/24	V.Ramponi

ROSETTI MARINO SpA

CROSSWIND

ROSETTI MARINO

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	28/08/24	GRA	AMA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	04/07/24	NLK	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	21/11/23	SPS	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL TYPICAL INSTALLATION DETAILS-POWER SYSTEM & CABLE INSTALLATION
CABLES INSTALLATION SYSTEM IDENTIFICATION FOR POWER CABLES

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK | SCALE : NTS

A3 | DRAWING NO. 123A90-DDL-EL-DD-20092 | SHEET 007 | REV. 02

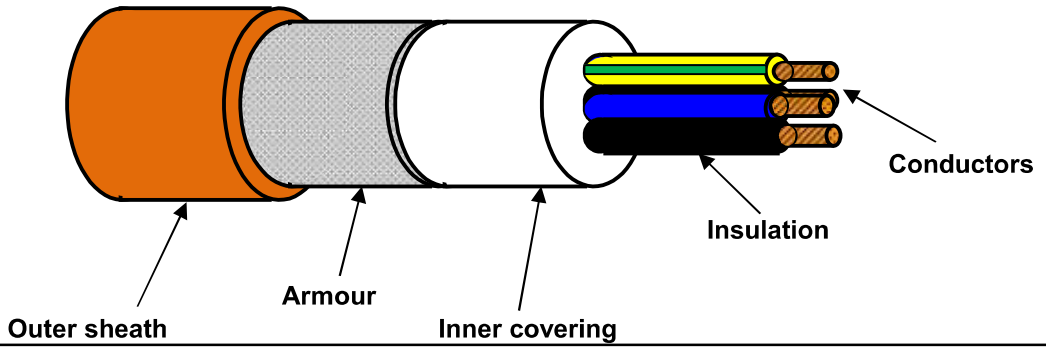
F.to UNI A3: 420mmx297mm

File Name : 123A90-DDL-EL-DD-20092 REV.02.DWG

Tag Number	Category	Disciplir	Eng Statu	NativeDoc	Layout	Parent Tag	Main Function	Secondary Fun	Area	From Tag	From Main Function	From Area	To Tag	To Main Function	To Area	Material ID	Material Desc.	Gland Standard	From Glan	From Entry	From Fitt	To Gland	To Entry	To Fitting	Routing	Routing Manual
P-EJB-200N1-02-L1-11	Cable	LSP	VFC	123A90-DDL-EL-LIS-20148						EJB-200N1-02-L1-12	Normal Lighting JB	Upper Deck	EJB-200N1-02-L1-11	Normal Lighting JB	Upper Deck	ELECV38-3G4	Cable Cu Cl.2/MGT/EPR/LSZH/GSWB/LSZH 0,6/1kV 3G4mm² - Orange	M20	T2_M20_ Double			T2_M20_Double				L-150-102-LVT-006

Cu Cl.2/MGT/EPR/LSZH/GSWB/LSZH 0,6/1 KV

3G4 - L.V. POWER CABLE - Fire Resistant & Flame Retardant - ARMOURED



TECHNICAL FEATURES

Conductors :	**STRANDED** plain/bare annealed copper wires	IEC 60228 Class 2
Insulation :	Mica/Glass Tape (MGT) plus EPR compound, quality to IEC 60092.360, Nominal Thickness 1,0 mm	
Cores colour code :	**Brown - Blue - Yellow/Green**	
Pair Assembling :	Not required	
Pair Wrapping:	Not required	
Drain wire :	Not required	
Pair Shield :	Not required	
Shield Insulation :	Not Required	
Total Assembling :	Cores layed up with optimal lay length	
Overall Wrapping:	Not required	
Drain wire :	Not required	
Overall Shield:	Not required	
Inner covering :	Extruded LSZH compound, Average Thickness 1,0 mm	
Inner covering color code:	**Black or Natural**	
Armour :	**Galvanized Steel Wire Braid Armour (coverage ≥ 90%)**	
Outer sheath :	Extruded LSZH Thermoplastic Compound (O.I. ≥ 30%), type **SHF1** to IEC 60093.360, Average Thickness 1,4 mm	
Outer sheath color code:	**Orange**	
Outer printing (INKJET) :	**FLEI - ELECTRIC CABLE - 1000V - 3G4 SQMM - MGT/EPR/LSZH/GSWB/LSZH - 0,6/1 KV - IEC 60331.21 -**	
	IEC 60332.1.2 - IEC 60332.3.22 - Year of Manufacture - CE + Meter Marking	
Under Armour diameter :	(13,0 ± 10%) mm	
Over Armour diameter :	(14,2 ± 10%) mm	
Outer diameter :	(17,0 ± 10%) mm	
Bending radius :	cable outer diameter x 10	(in fixed installation)
Voltage test :	3,5 kV a.c. for 5' (Between Cores - Armour)	
Conductors DC Resistance :		IEC 60228 Class 2
Insulation Resistance :	≥ 790 MΩ x Km (@ 20°C)	
Applicable Standards		
Design Guidelines :	**IEC 60092.353**	
ON COMPLETE CABLE		
Fire Resistant test :	**IEC 60331.21**	
Flame Retardant test :	IEC 60332.1.2 - IEC 60332.3.22	
Acid Gas generation :	IEC 60754.1/2	
Smoke density/Light Transmittance	IEC 61034.2 (LT ≥ 60%)	
Temperature Range :		
ON INSULATION	(max +90°C)	(max continuous operation temperature of conductors)
	(max +250°C)	(max conductors temperature during short-circuit for 5 seconds)
ON COMPLETE CABLE		
During Operation :	(-20°C up to +90°C)	(in fixed installation)
During installation :	(- 5°C up to +50°C)	
Note :	**To meet the requirements of installation and use in Zone 1 & Zone 2 (IEC 60079-14) and "Gas & Vapour Tight" the cable must be provided with Penetrating Inner covering together with correct ATEX approved equipment or accessories.**	

Office	Date	Sign	Rev.	Date	Sign
Drawn by :	29/03/2024	Messa			
Checked :	29/03/2024	Spaccasassi			
Approved :	29/03/2024	Cucinotta			

The data provided, lending assent for the treatment, will be used to the sense of the article 13 of of the Regulation (UE) 2016/679, also through outsiders, in order to allow the realization of the fulfilments informatives, administrative, commercial and accounting related to the contractual relationship. Integral copy of the informative could be requested at our offices.

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ITEM	Tag	P-ELF-200N1-02-L1-17	: Normal Lighting JB / Normal Lighting Fixture			Dwg	123A90-DDL-EL-LIS-20148
	S/Sys	83-40	: Normal Lighting Upper Deck			Module	UD
TASK	code	C10000688		Location	Onshore Activities	User	Rosetti Marino Quality Control
FORM	Process	MC	Activity CCK	Discipline	Electrical	Form	CPX09 LV Power Cable

CABLE DATA

Type	Cu Cl.2/MGT/EPR/LSZH/GSWB/LSZH	Cores/Size mm²	3G2,5 mm2	Color	ORANGE

From EJB-200N1-02-L1-11 To ELF-200N1-02-L1-17

1	Confirm cable is as specified in project cable schedule	OK
2	Visual Check cable physical integrity.	OK
3	Check is installed in accordance with layout drawing (segregation, distance…).	PL
4	Check cable is supported and fixed to rack according to project specification.	Note
5	Check bending radius is within the specified limits.	OK
6	Confirm cable glands suit for cable type, correctly mounted and tightened.	OK
7	Check gland plate for single core cables is non ferrous (non -magnetic).	NA
8	Confirm cable labelling is in accordance with specifications.	PL
9	Check cable is correctly loomed and segregated in accordance with specification.	OK
10	Check cable earthing against lastest drawings.	PL
11	Check cores marking are in accordance with termination diagram	PL
12	Check terminations are in accordance with latest termination diagram	OK
13	If required produce Red Line Mark Up for "AS BUILT"	

ROSETTI MARINO PROVERLIS CROSSWIND

ITEM	Tag	P-ELF-200N1-02-L1-17	: Normal Lighting JB / Normal Lighting Fixture			Dwg	123A90-DDL-EL-LIS-20148
	S/Sys	83-40	: Normal Lighting Upper Deck			Module	UD
TASK	code	C10000688		Location	Onshore Activities	User	Rosetti Marino Quality Control
FORM	Process	MC	Activity CCK	Discipline	Electrical	Form	CPX09 LV Power Cable

	CONTINUITY			
5	CORE CONTINUITY Ω	PH 1	0,2	
6		PH 2	0,2	
7		PH 3	NA	
8	ARMOUR CONTINUITY Ω		0,2	
9	PROTECTIVE CONDUCTOR CONTINUITY Ω		0,2	
	INSULATION			
10	CORES / ARMOUR+EARTH MΩ	PH1 / PH2-PH3-A-E	>999	
11		PH2 / PH1-PH3-A-E	>999	
12		PH3 / PH1-PH2-A-E	NA	
13	CABLE IS CORRECTLY RE-CONNECTED.		Yes	

TESTING INSTRUMENTS USED

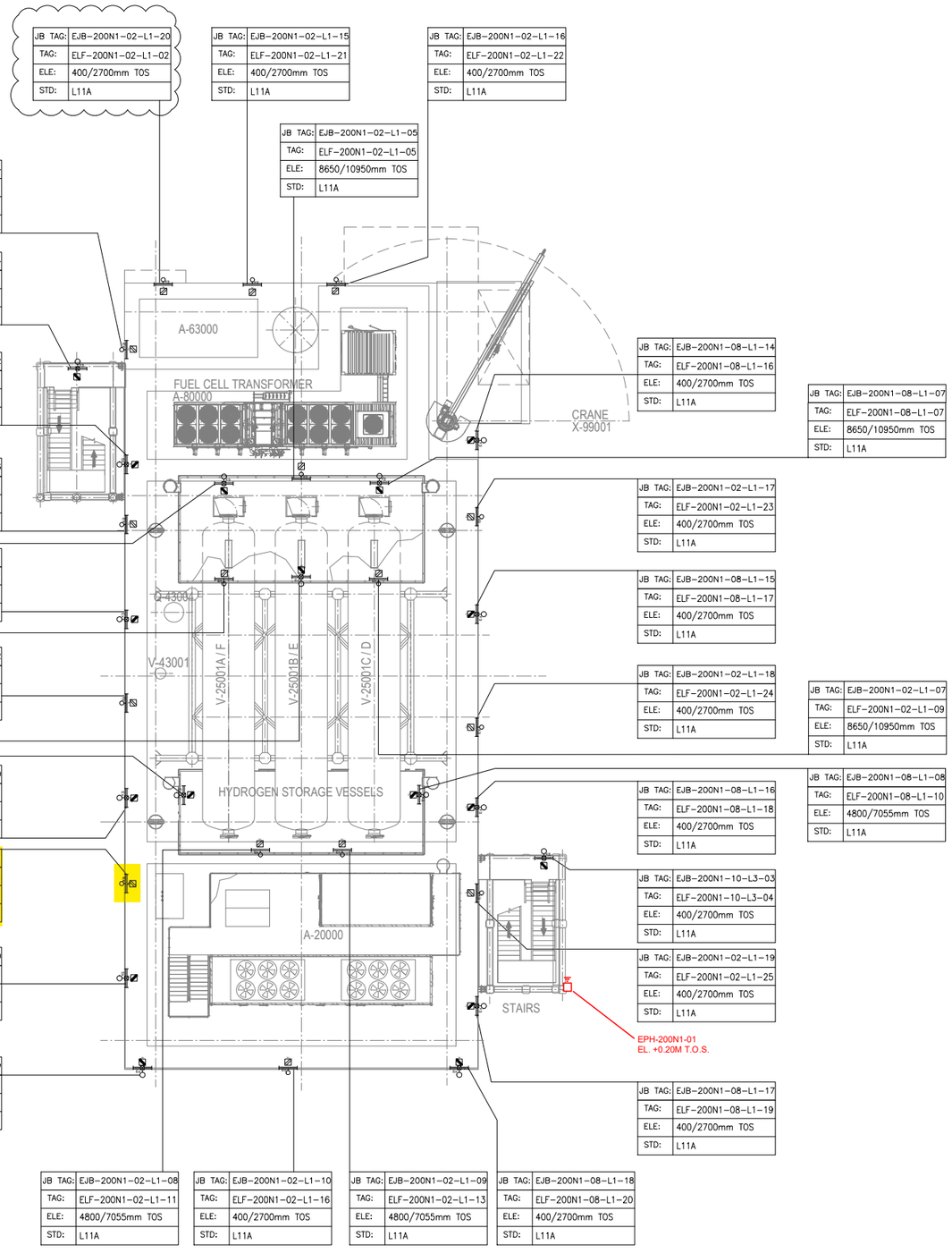
TYPE / SERIAL N° :	MEGGER : KEW3125A SERIAL: W8330207	TYPE / SERIAL N° :	MULTIMETER: FLUKE 175 SERIAL:AW1/018(17140769)
Calibration certificate N° and date:	N°7722/24 _ 10/07/2024	Calibration certificate N° and date:	N°7715/24 _ 10/07/2024

Comments: Nota 4: refer to PL C30000679

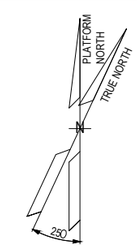
	Performed by	☉ WITNESS ☐ REVIEW	☐ WITNESS ☐ REVIEW
Company	ICS IMPIANTI	RM(ROSETTI MARINO)	
Name	Francesco Zucca	Andrea Andreani	
Date	2024-12-05	2024-12-06	
Signature	PROVERLIS Digitaly signed by Francesco Zucca 2024-12-05T18:08:35.522Z	PROVERLIS Digitaly signed by Andrea Andreani 2024-12-06T18:08:49.326Z	

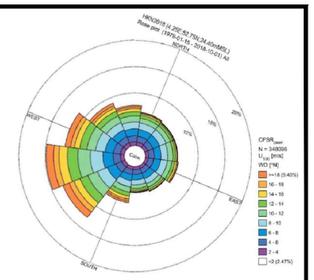
DRAWING NO. 123A90-DDL-EL-DL-20118

REV. 01



PLAN ON UPPER DECK
EL+30.310 T.O.S.





NOTES

1. ALL DIMENSIONS AND ELEVATIONS ARE GIVEN IN mm UNLESS OTHERWISE NOTED.
2. ELEVATIONS REFER TO T.O.S.
3. ELEVATION OF THE LAMPS ARE REFFERED TO THE BOTTOM OF THE LAMP.
4. FOR THE ELEVATION OF JB, REFER TO THE TYPICAL INSTALLATION.

LEGEND

- EMERGENCY LIGHTING JB
- 60W LED EMERGENCY LUMINARIES
- 60W LED EMERGENCY LUMINARIES FIXTURE POLE MOUNTED
- NORMAL LIGHTING JB
- 45W LED NORMAL LUMINARIES
- 45W LED NORMAL LUMINARIES FIXTURE POLE MOUNTED
- WELDING SOCKET WITH INTEGRATED JB
- SMALL POWER SOCKET WITH INTEGRATED JB
- TWILIGHT RELAY SENSOR

JB TAG:	JB-TAG
TAG:	TAG
ELE:	ELEVATION
STD:	STANDARD

VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DL-20118**

REV.:	DATE:	SIGNATURE:
1_B	22/10/24	G.Randi

ROSETTI MARINO SpA

REFERENCE DOCUMENTS

123A90-DDL-PP-DL-70070	PLOT PLAN - LOWER & UPPER DECK
123A90-DDL-EL-DL-20100	ELECTRICAL EQUIPMENT LAYOUT - TOP DECK
123A90-DDL-EL-DD-20091	ELECTRICAL TYPICAL INSTALLATION DETAILS - LIGHTING SYSTEM
123A90-DDL-EL-DD-20092	ELECTRICAL TYPICAL INSTALLATION DETAILS - POWER SYSTEM & CABLE INSTALLATION
123A90-DDL-EL-RE-20153	LIGHTING CALCULATION STUDY REPORT

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	02/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	28/05/24	ASR	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND | ROSETTI MARINO

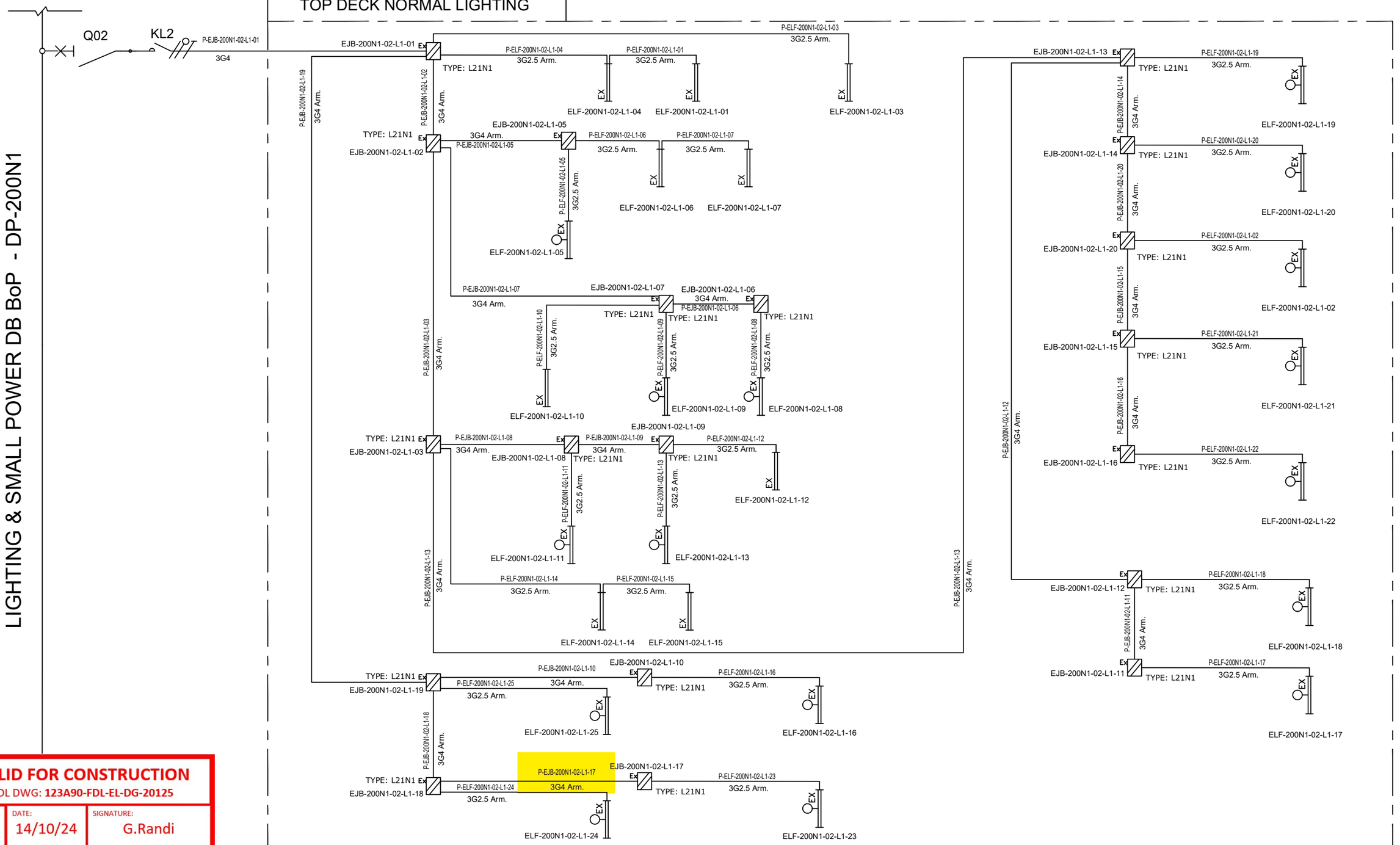
TITLE : BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET LAYOUT – TOP DECK

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK			SCALE 1:150
DRAWN ASR	CHECKED FMA/AMA	APPROVED FPA/DLO	DATE 01/08/24
A1	DRAWING NO. 123A90-DDL-EL-DL-20118	SHEET 1of2	REV. 01

File Name : 123A90-DDL-EL-DL-20118

LIGHTING & SMALL POWER DB BoP - DP-200N1

TOP DECK NORMAL LIGHTING



VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DG-20125**

REV.:	DATE:	SIGNATURE:
1_B	14/10/24	G.Randi

ROSETTI MARINO SpA

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	08/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	01/07/24	ASR	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

TITLE : BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET CIRCUIT DIAGRAM
TOP DECK–NORMAL LIGHTING

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE : NTS

A3

DRAWING NO. 123A90-DDL-EL-DG-20125

SHEET 010

REV. 01

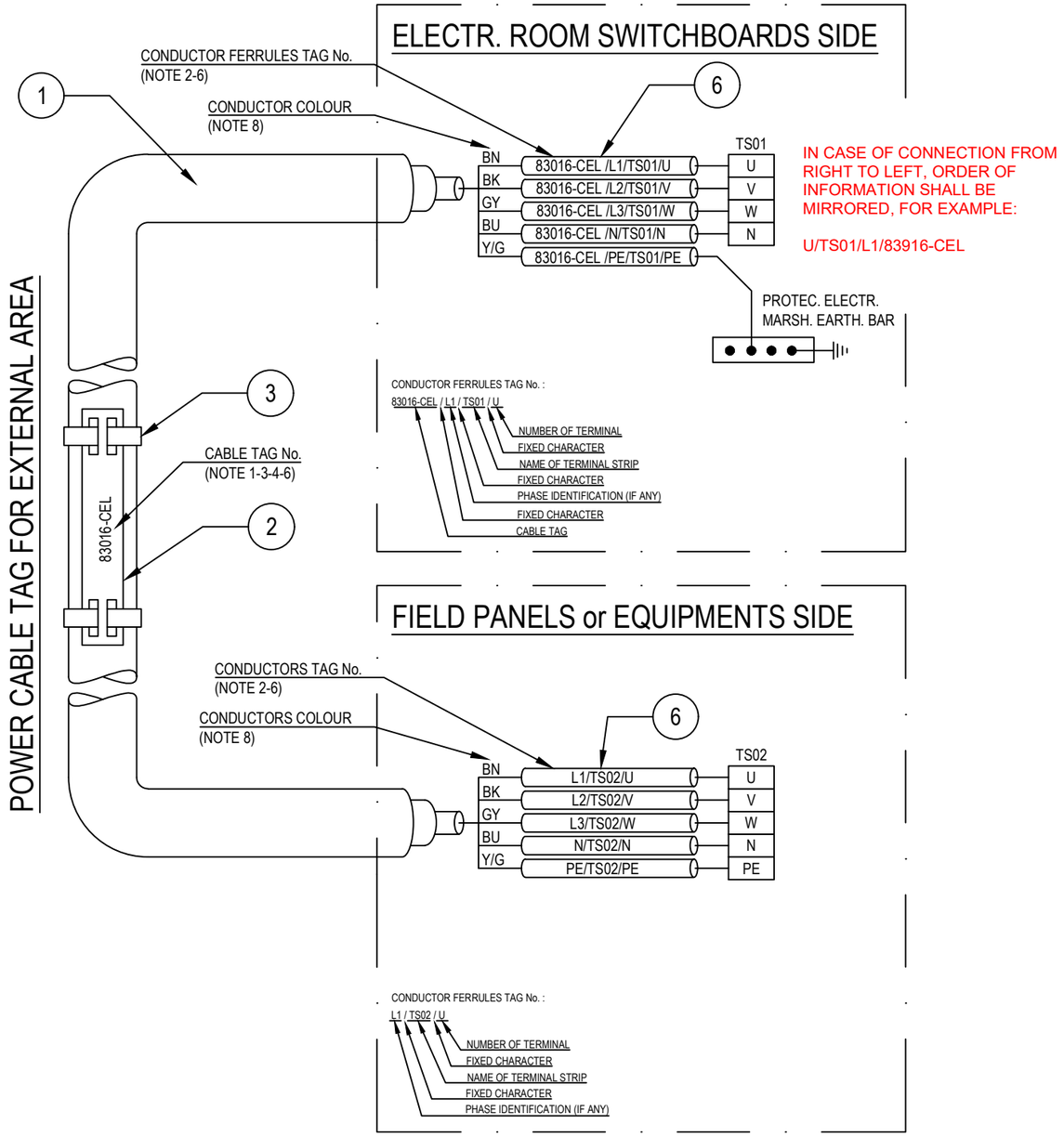
CROSSWIND

ROSETTI MARINO

F.to UNI A3: 420mmx297mm

File Name : 123A90-DDL-EL-DG-20125

C02



POS.	DESCRIPTION	MATERIAL	SIZE	Q.TY	NOTE
1	UNARMOURED CABLE				
2	CABLE TAG FOR EXTERNAL AREA	HDG/SS			NOTE 1 NOTE 4
3	TIE FOR CABLE TAG IN EXTERNAL AREA	HDG/SS			
4	CABLE TAG FOR INTERNAL AREA	PVC			NOTE 1 NOTE 5
5	TIE FOR CABLE TAG IN INTERNAL AREA	NYLON 6.6			
6	CORE FERRULES	PVC			

NOTES:

1) ALL CABLES SHALL BE IDENTIFIED AT EACH TERMINATION AND EACH SIDE OF ANY OBSTACLE (E.G. CABLE TRANSIT ON WALLS INSIDE SHELTER AND FLOOR DECK CROSSING, BY THEIR RESPECTIVE TAGS/NUMBERS, AS INDICATED ON THE CABLE SCHEDULE.
CABLE IDENTIFICATION SHALL BE ALSO DONE BELOW AND IN THE SWITCHBOARD CABLE COMPARTMENT.

2) CABLE CORE FERRULES SHALL BE FITTED AT EVERY TERMINATION. THESE FERRULES SHALL BE OF ENGRAVED PLASTIC SLIP ON, INTERLOCKED AND SELF GRIP TYPE.

3) ON CABLE TRAYS OR LADDERS, CABLES SHALL BE IDENTIFIED AT EACH END, AND EVERY 25 METERS.

4) THE CABLE TAG FOR EXTERNAL AREA SHALL DONE BY 316L STAINLESS STEEL LABELS, TAG (H=5mm) SHALL BE LASER PRINTED PREFERABLY OR EMBOSSED, LABEL HELD BY TWO 316L STAINLESS STEEL TIES.

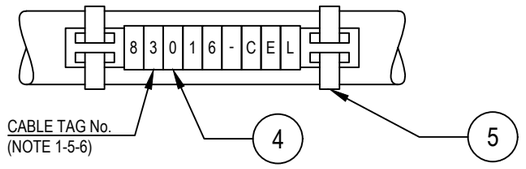
5) THE CABLE TAG FOR INTERNAL AREA SHALL BE DONE BY ENGRAVED PLASTIC SLIP ON CHARACTERS ONTO PLASTIC TIE, BLACK LETTER (H=5mm) ON WHITE.

6) CABLE AND CONDUCTOR TAG ARE INDICATIVE ONLY.

7) WITHIN TECHNICAL BUILDING, PROTECTIVE CONDUCTOR SHALL BE TAGGED BETWEEN FOLLOWING ITEMS:
- PANEL (SWITCHBOARD, SWITCHGEAR, DISTRIBUTION BOARD, ETC) AND EARTH BAR
- EARTH BAR AND EARTH BOSS

8) ONLY IF NECESSARY, SHRINK TUBES OF THE APPROPRIATE COLOR WILL BE INSTALLED TO COVER THE WRONG CONDUCTOR COLOR, THIS WILL BE PERFORMED IN EACH SIDE OF THE CABLES WHERE NECESSARY.

POWER CABLE TAG FOR INTERNAL AREA



VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DD-20092**

REV.:	DATE:	SIGNATURE:
2_B	28/11/24	G.Randi

ROSETTI MARINO SpA

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	28/08/24	GRA	AMA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	04/07/24	NLK	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	21/11/23	SPS	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL TYPICAL INSTALLATION DETAILS-POWER SYSTEM & CABLE INSTALLATION
CABLES INSTALLATION SYSTEM IDENTIFICATION FOR POWER CABLES

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK | SCALE : NTS

A3	DRAWING NO.	SHEET	REV.
	123A90-DDL-EL-DD-20092	007	02

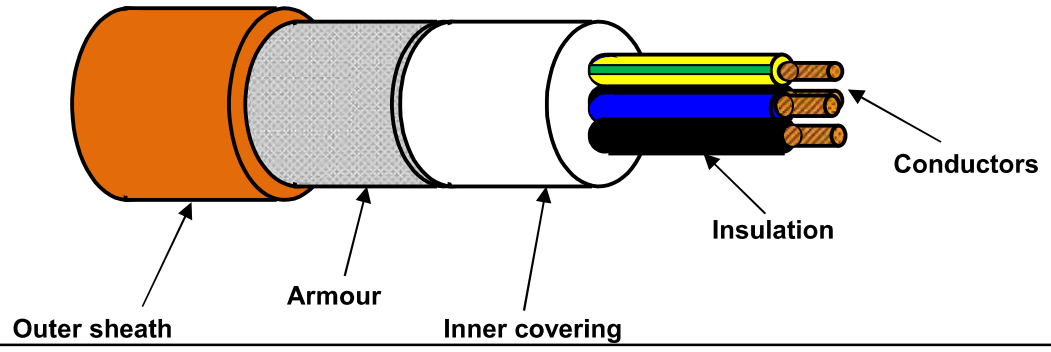
F.to UNI A3: 420mmx297mm

File Name : 123A90-DDL-EL-DD-20092 REV.02.DWG

Tag Number	Category	Discipline	Eng Status	NativeDoc	Layout	Parent Tag	Main Function	Secondary Function	Area	From Tag	From Main Function	From Area	To Tag	To Main Function	To Area	Material ID	Material Desc.	Gland Standard	From Gland	From Entry	From Fitting	To Gland	To Entry	To Fitting	Routing	Routing Manual
P-ELF-200N1-02-L1-17	Cable	LSP	VFC	123A90-DDL-EL-LIS-20148						EJB-200N1-02-L1-11	Normal Lighting JB	Upper Deck	ELF-200N1-02-L1-17	Normal Lighting Fixture	Upper Deck	ELECV19-3G2,5	Cable Cu Cl.2/MGT/EPR/LSZH/GSWB/LSZH 0,6/1kV 3G2,5mm² - Orange	M20	T2_M20_Double			T2_M20_Double				L-50-102-LVT-032

Cu Cl.2/MGT/EPR/LSZH/GSWB/LSZH 0,6/1 KV

3G2,5 - L.V. POWER CABLE - Fire Resistant & Flame Retardant - ARMOURED



TECHNICAL FEATURES

Conductors :	**STRANDED** plain/bare annealed copper wires	IEC 60228 Class 2
Insulation :	Mica/Glass Tape (MGT) plus EPR compound, quality to IEC 60092.360, Nominal Thickness 1,0 mm	
Cores colour code :	**Brown - Blue - Yellow/Green**	
Pair Assembling :	Not required	
Pair Wrapping:	Not required	
Drain wire :	Not required	
Pair Shield :	Not required	
Shield Insulation :	Not Required	
Total Assembling :	Cores layed up with optimal lay length	
Overall Wrapping:	Not required	
Drain wire :	Not required	
Overall Shield:	Not required	
Inner covering :	Extruded LSZH compound, Average Thickness 1,0 mm	
Inner covering color code:	**Black or Natural**	
Armour :	**Galvanized Steel Wire Braid Armour (coverage ≥ 90%)**	
Outer sheath :	Extruded LSZH Thermoplastic Compound (O.I. ≥ 30%), type **SHF1** to IEC 60093.360, Average Thickness 1,3 mm	
Outer sheath color code:	**Orange**	
Outer printing (INKJET) :	**FLEI - ELECTRIC CABLE - 1000V - 3G2,5 SQMM - MGT/EPR/LSZH/GSWB/LSZH - 0,6/1 KV - IEC 60331.21 - IEC 60332.1.2 - IEC 60332.3.22 - Year of Manufacture - CE + Meter Marking**	
Under Armour diameter :	(11,7 ± 10%) mm	
Over Armour diameter :	(12,9 ± 10%) mm	
Outer diameter :	(15,5 ± 10%) mm	
Bending radius :	cable outer diameter x 10	(in fixed installation)
Voltage test :	3,5 kV a.c. for 5' (Between Cores - Armour)	
Conductors DC Resistance :		IEC 60228 Class 2
Insulation Resistance :	≥ 940 MΩ x Km (@ 20°C)	
Applicable Standards		
Design Guidelines :	**IEC 60092.353**	
ON COMPLETE CABLE		
Fire Resistant test :	**IEC 60331.21**	
Flame Retardant test :	IEC 60332.1.2 - IEC 60332.3.22	
Acid Gas generation :	IEC 60754.1/2	
Smoke density/Light Transmittance	IEC 61034.2 (LT ≥ 60%)	
Temperature Range :		
ON INSULATION	(max +90°C)	(max continuous operation temperature of conductors)
	(max +250°C)	(max conductors temperature during short-circuit for 5 seconds)
ON COMPLETE CABLE		
During Operation :	(-20°C up to +90°C)	(in fixed installation)
During installation :	(- 5°C up to +50°C)	
Note :	**To meet the requirements of installation and use in Zone 1 & Zone 2 (IEC 60079-14) and "Gas & Vapour Tight" the cable must be provided with Penetrating Inner covering together with correct ATEX approved equipment or accessories.**	

Office	Date	Sign	Rev.	Date	Sign
Drawn by :	29/03/2024	Messa			
Checked :	29/03/2024	Spaccasassi			
Approved :	29/03/2024	Cucinotta			

The data provided, lending assent for the treatment, will be used to the sense of the article 13 of of the Regulation (UE) 2016/679, also through outsiders, in order to allow the realization of the fulfilments informatives, administrative, commercial and accounting related to the contractual relationship. Integral copy of the informative could be requested at our offices.

All proprietary rights reserved according to law. This document shall be not reproduced without written permission. FLEI reserves the right to change characteristics and technical data of product shown at any time.

ITEM	Tag	P-EJB-200N1-02-L1-12	: Normal Lighting JB / Normal Lighting JB			Dwg	123A90-DDL-EL-LIS-20148
	S/Sys	83-40	: Normal Lighting Upper Deck			Module	UD
TASK	code	C10000689		Location	Onshore Activities	User	Rosetti Marino Quality Control
FORM	Process	MC	Activity CCK	Discipline	Electrical	Form	CPX09 LV Power Cable

CABLE DATA

Type Cu Cl.2/MGT/EPR/LSZH/GSWB/LSZH Cores/Size mm² 3G4 mm2 Color ORANGE

From EJB-200N1-02-L1-13 To EJB-200N1-02-L1-12

1	Confirm cable is as specified in project cable schedule	OK
2	Visual Check cable physical integrity.	OK
3	Check is installed in accordance with layout drawing (segregation, distance…).	OK
4	Check cable is supported and fixed to rack according to project specification.	NA
5	Check bending radius is within the specified limits.	OK
6	Confirm cable glands suit for cable type, correctly mounted and tightened.	OK
7	Check gland plate for single core cables is non ferrous (non -magnetic).	PL
8	Confirm cable labelling is in accordance with specifications.	PL
9	Check cable is correctly loomed and segregated in accordance with specification.	OK
10	Check cable earthing against lastest drawings.	OK
11	Check cores marking are in accordance with termination diagram	PL
12	Check terminations are in accordance with latest termination diagram	PL
13	If required produce Red Line Mark Up for "AS BUILT"	

ROSETTI MARINO PROVERLIS CROSSWIND

ITEM	Tag	P-EJB-200N1-02-L1-12	: Normal Lighting JB / Normal Lighting JB			Dwg	123A90-DDL-EL-LIS-20148
	S/Sys	83-40	: Normal Lighting Upper Deck			Module	UD
TASK	code	C10000689		Location	Onshore Activities	User	Rosetti Marino Quality Control
FORM	Process	MC	Activity CCK	Discipline	Electrical	Form	CPX09 LV Power Cable

	CONTINUITY			
5	CORE CONTINUITY Ω	PH 1	0,1	
6		PH 2	0,1	
7		PH 3	NA	
8	ARMOUR CONTINUITY Ω		0,1	
9	PROTECTIVE CONDUCTOR CONTINUITY Ω		0,1	
	INSULATION			
10	CORES / ARMOUR+EARTH MΩ	PH1 / PH2-PH3-A-E	>999	
11		PH2 / PH1-PH3-A-E	>999	
12		PH3 / PH1-PH2-A-E	NA	
13	CABLE IS CORRECTLY RE-CONNECTED.		Yes	

TESTING INSTRUMENTS USED

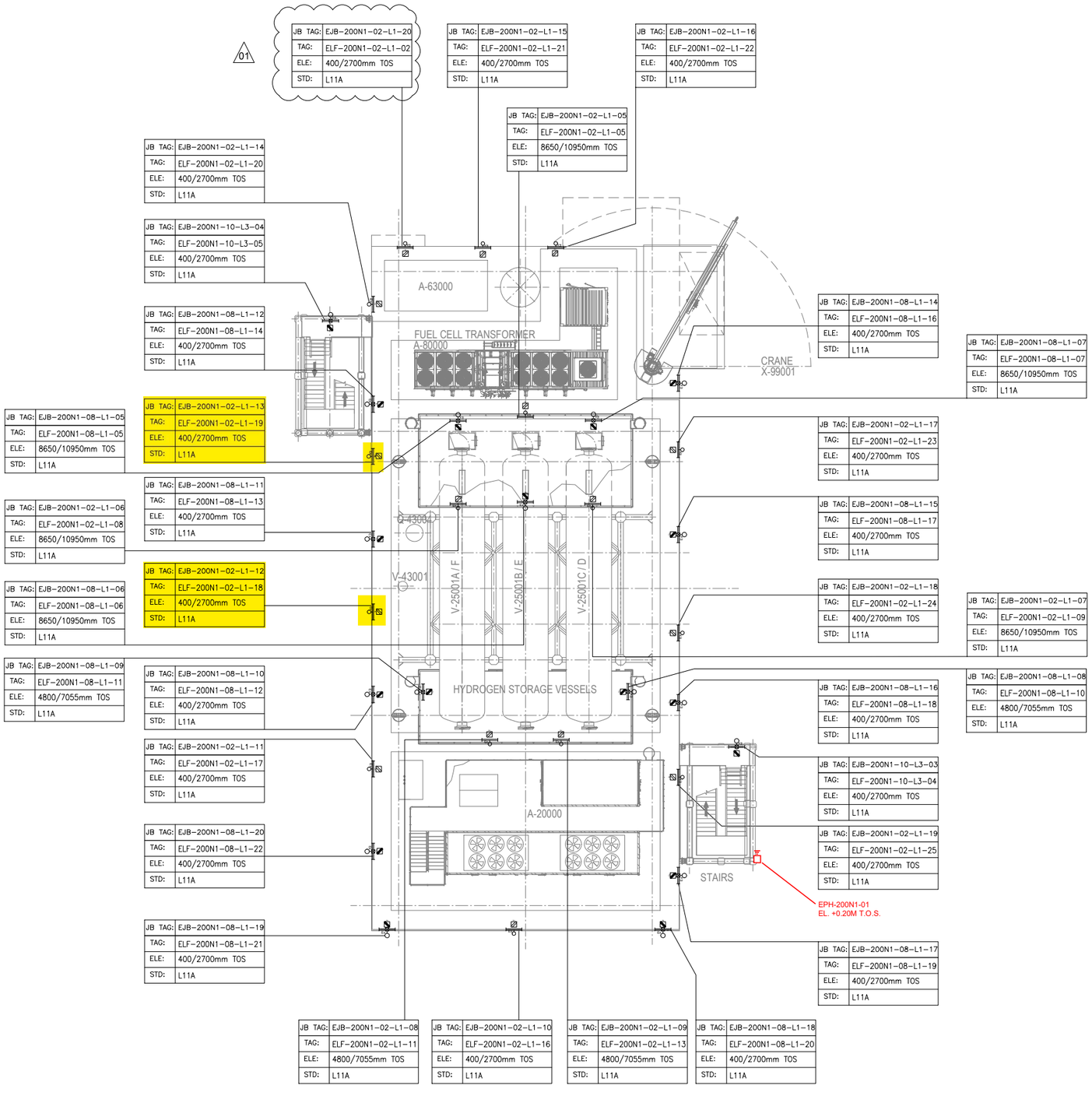
TYPE / SERIAL N° :	MEGGER : KEW3125A SERIAL: W8330207	TYPE / SERIAL N° :	MULTIMETER: FLUKE 175 SERIAL:AW1/018(17140769)
Calibration certificate N° and date:	N°7722/24 _ 10/07/2024	Calibration certificate N° and date:	N°7715/24 _ 10/07/2024

Comments: Nota 4: refer to PL C30000679

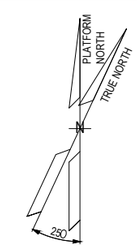
	Performed by	☉ WITNESS ☐ REVIEW	☐ WITNESS ☐ REVIEW
Company	ICS IMPIANTI	RM(ROSETTI MARINO)	
Name	Francesco Zucca	Luca Mussi	
Date	2024-12-28	2024-12-28	
Signature	PROVERLIS Digitaly signed by Francesco Zucca 2024-12-28T07:29:41.693Z	PROVERLIS Digitaly signed by Luca Mussi 2024-12-28T12:35:52.165Z	

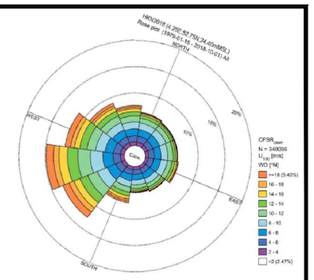
DRAWING NO. 123A90-DDL-EL-DL-20118

REV. 01



PLAN ON UPPER DECK
EL+30.310 T.O.S.





NOTES

1. ALL DIMENSIONS AND ELEVATIONS ARE GIVEN IN mm UNLESS OTHERWISE NOTED.
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4. FOR THE ELEVATION OF JB, REFER TO THE TYPICAL INSTALLATION.

LEGEND

- EMERGENCY LIGHTING JB
- 60W LED EMERGENCY LUMINARIES
- 60W LED EMERGENCY LUMINARIES FIXTURE POLE MOUNTED
- NORMAL LIGHTING JB
- 45W LED NORMAL LUMINARIES
- 45W LED NORMAL LUMINARIES FIXTURE POLE MOUNTED
- WELDING SOCKET WITH INTEGRATED JB
- SMALL POWER SOCKET WITH INTEGRATED JB
- TWILIGHT RELAY SENSOR

JB TAG: — JB-TAG
TAG: — TAG
ELE: — ELEVATION
STD: — STANDARD

VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DL-20118**

REV.:	DATE:	SIGNATURE:
1_B	22/10/24	G.Randi

ROSETTI MARINO SpA

REFERENCE DOCUMENTS

123A90-DDL-PP-DL-70070	PLOT PLAN - LOWER & UPPER DECK
123A90-DDL-EL-DL-20100	ELECTRICAL EQUIPMENT LAYOUT - TOP DECK
123A90-DDL-EL-DD-20091	ELECTRICAL TYPICAL INSTALLATION DETAILS - LIGHTING SYSTEM
123A90-DDL-EL-DD-20092	ELECTRICAL TYPICAL INSTALLATION DETAILS - POWER SYSTEM & CABLE INSTALLATION
123A90-DDL-EL-RE-20153	LIGHTING CALCULATION STUDY REPORT

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	02/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	28/05/24	ASR	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND

ROSETTI MARINO

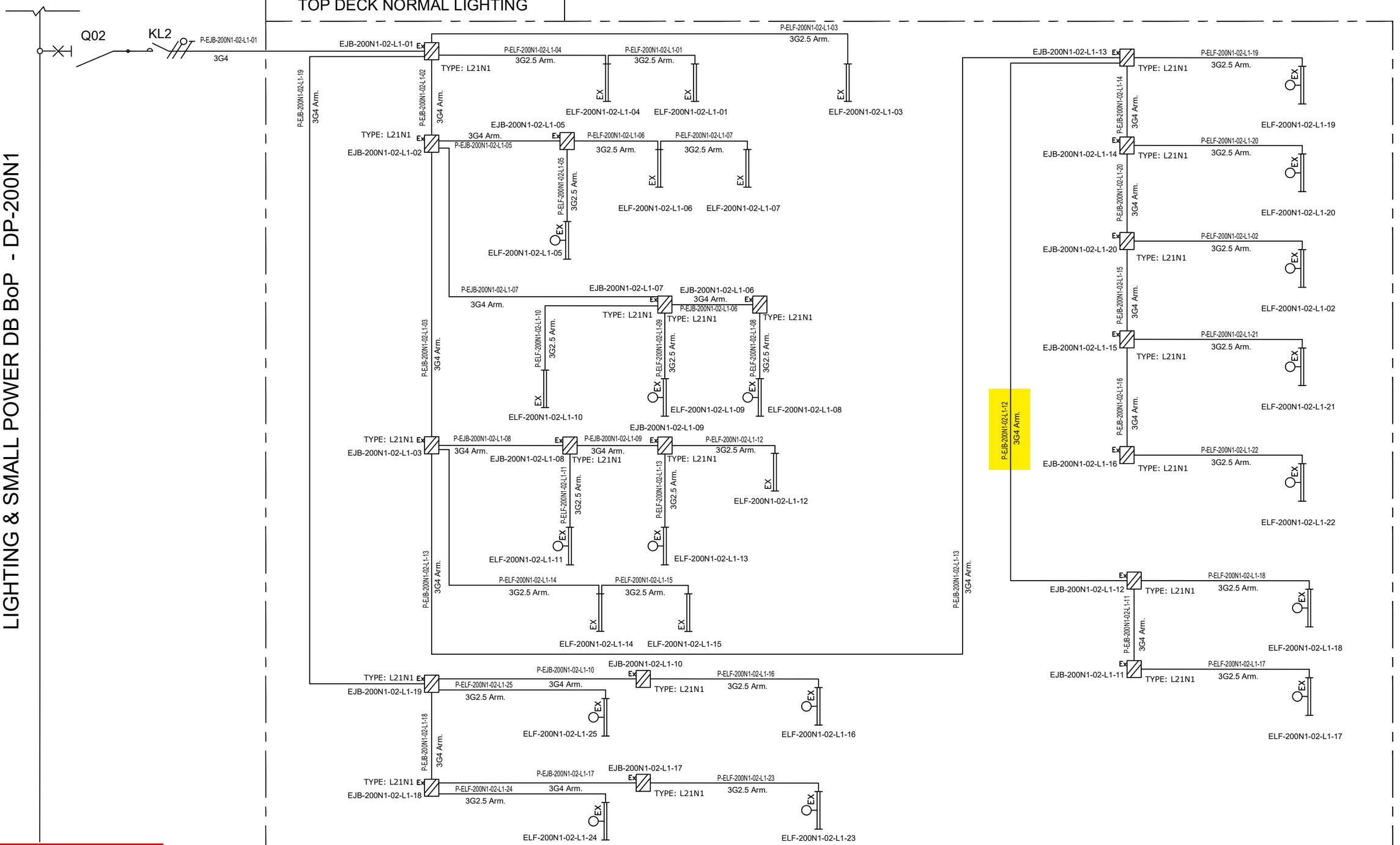
TITLE :
BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET LAYOUT – TOP DECK

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK			SCALE 1:150
DRAWN ASR	CHECKED FMA/AMA	APPROVED FPA/DLO	DATE 01/08/24
A1	DRAWING NO. 123A90-DDL-EL-DL-20118	SHEET 1of2	REV. 01

File Name : 123A90-DDL-EL-DL-20118

LIGHTING & SMALL POWER DB BoP - DP-200N1

TOP DECK NORMAL LIGHTING



VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DG-20125**

REV.:	DATE:	SIGNATURE:
2_C	20/12/24	V.Ramponi

ROSETTI MARINO SpA

CROSSWIND

ROSETTI MARINO

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	08/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	01/07/24	ASR	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

TITLE : BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET CIRCUIT DIAGRAM
TOP DECK–NORMAL LIGHTING

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE : NTS

A3

DRAWING NO. 123A90–DDL–EL–DG–20125

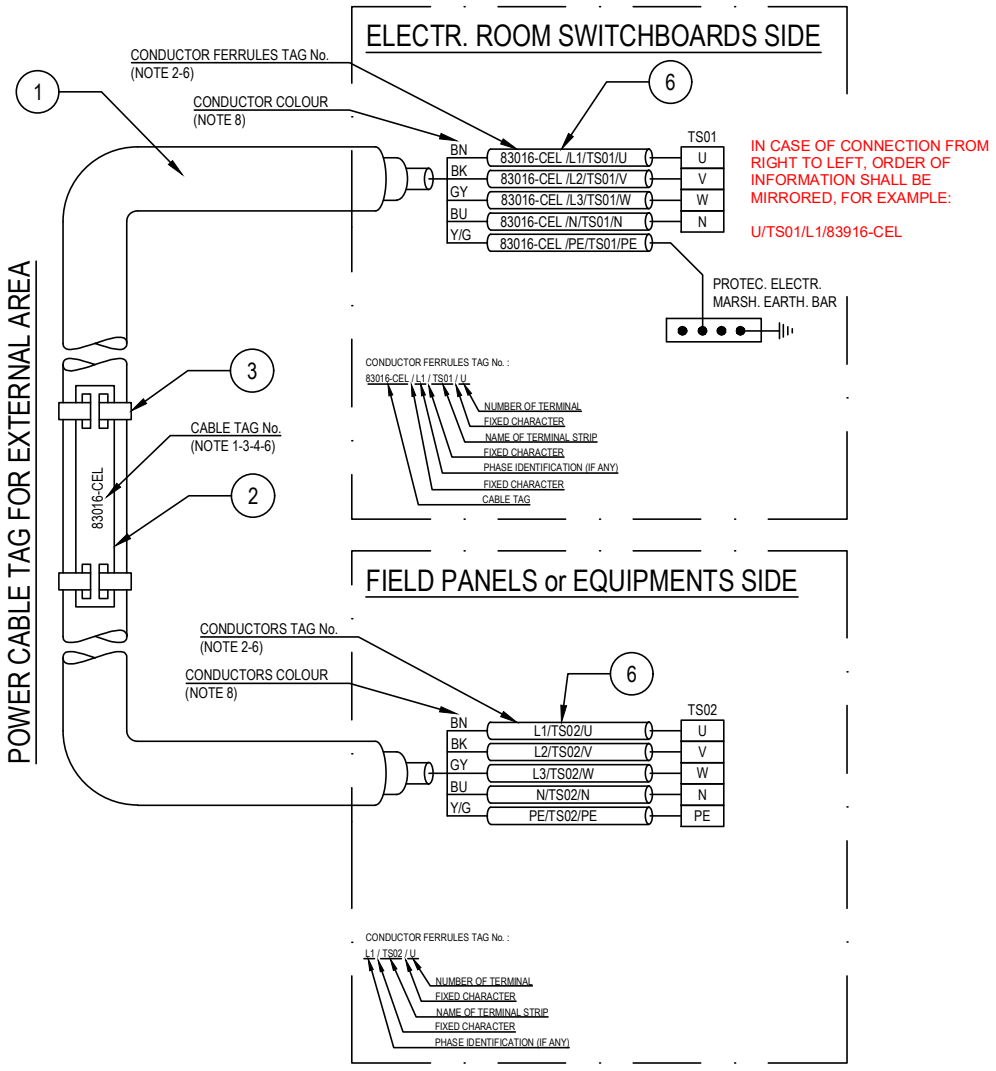
SHEET 010

REV. 01

F.to UNI A3: 420mmx297mm

File Name : 123A90–DDL–EL–DG–20125

C02



POS.	DESCRIPTION	MATERIAL	SIZE	Q.TY	NOTE
1	UNARMOURED CABLE				
2	CABLE TAG FOR EXTERNAL AREA	HDG/SS			NOTE 1 NOTE 4
3	TIE FOR CABLE TAG IN EXTERNAL AREA	HDG/SS			
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5	TIE FOR CABLE TAG IN INTERNAL AREA	NYLON 6.6			
6	CORE FERRULES	PVC			

NOTES:

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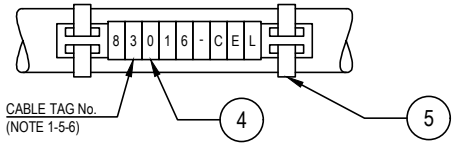
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- EARTH BAR AND EARTH BOSS

8) ONLY IF NECESSARY, SHRINK TUBES OF THE APPROPRIATE COLOR WILL BE INSTALLED TO COVER THE WRONG CONDUCTOR COLOR, THIS WILL BE PERFORMED IN EACH SIDE OF THE CABLES WHERE NECESSARY.

POWER CABLE TAG FOR INTERNAL AREA



VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DD-20092**

REV.:	DATE:	SIGNATURE:
2_D	20/12/24	V.Ramponi

ROSETTI MARINO SpA

CROSSWIND

ROSETTI MARINO

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	28/08/24	GRA	AMA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	04/07/24	NLK	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	21/11/23	SPS	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL TYPICAL INSTALLATION DETAILS-POWER SYSTEM & CABLE INSTALLATION
CABLES INSTALLATION SYSTEM IDENTIFICATION FOR POWER CABLES

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK | SCALE : NTS

A3 | DRAWING NO. 123A90-DDL-EL-DD-20092 | SHEET 007 | REV. 02

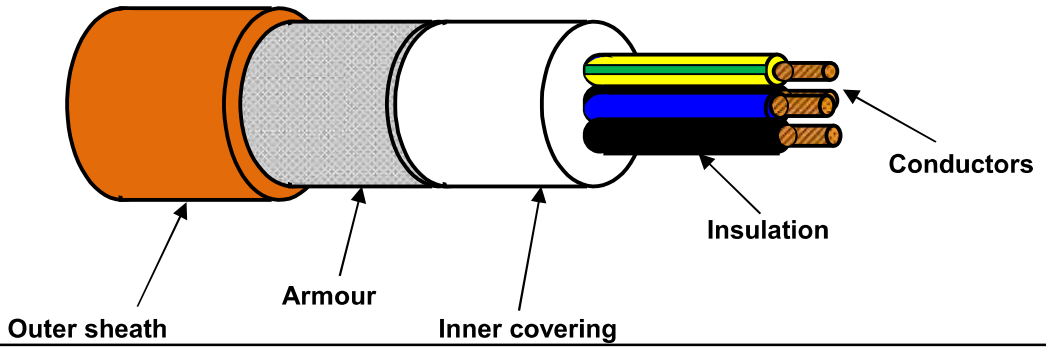
F.to UNI A3: 420mmx297mm

File Name : 123A90-DDL-EL-DD-20092 REV.02.DWG

Tag Number	Category	Disciplir	Eng Statu	NativeDoc	Layout	Parent Tag	Main Function	Secondary Fun	Area	From Tag	From Main Function	From Area	To Tag	To Main Function	To Area	Material ID	Material Desc.	Gland Standard	From Glan	From Entry	From Fitt	To Gland	To Entry	To Fitting	Routing	Routing Manual
P-EJB-200N1-02-L1-12	Cable	LSP	VFC	123A90-DDL-EL-LIS-20148						EJB-200N1-02-L1-13	Normal Lighting JB	Upper Deck	EJB-200N1-02-L1-12	Normal Lighting JB	Upper Deck	ELECV38-3G4	Cable Cu Cl.2/MGT/EPR/LSZH/GSWB/LSZH 0,6/1kV 3G4mm² - Orange	M20	T2_M20_ Double			T2_M20_Double				L-150-102-LVT-006

Cu Cl.2/MGT/EPR/LSZH/GSWB/LSZH 0,6/1 KV

3G4 - L.V. POWER CABLE - Fire Resistant & Flame Retardant - ARMOURED



TECHNICAL FEATURES

Conductors :	**STRANDED** plain/bare annealed copper wires	IEC 60228 Class 2
Insulation :	Mica/Glass Tape (MGT) plus EPR compound, quality to IEC 60092.360, Nominal Thickness 1,0 mm	
Cores colour code :	**Brown - Blue - Yellow/Green**	
Pair Assembling :	Not required	
Pair Wrapping:	Not required	
Drain wire :	Not required	
Pair Shield :	Not required	
Shield Insulation :	Not Required	
Total Assembling :	Cores layed up with optimal lay length	
Overall Wrapping:	Not required	
Drain wire :	Not required	
Overall Shield:	Not required	
Inner covering :	Extruded LSZH compound, Average Thickness 1,0 mm	
Inner covering color code:	**Black or Natural**	
Armour :	**Galvanized Steel Wire Braid Armour (coverage ≥ 90%)**	
Outer sheath :	Extruded LSZH Thermoplastic Compound (O.I. ≥ 30%), type **SHF1** to IEC 60093.360, Average Thickness 1,4 mm	
Outer sheath color code:	**Orange**	
Outer printing (INKJET) :	**FLEI - ELECTRIC CABLE - 1000V - 3G4 SQMM - MGT/EPR/LSZH/GSWB/LSZH - 0,6/1 KV - IEC 60331.21 -**	
	IEC 60332.1.2 - IEC 60332.3.22 - Year of Manufacture - CE + Meter Marking	
Under Armour diameter :	(13,0 ± 10%) mm	
Over Armour diameter :	(14,2 ± 10%) mm	
Outer diameter :	(17,0 ± 10%) mm	
Bending radius :	cable outer diameter x 10	(in fixed installation)
Voltage test :	3,5 kV a.c. for 5' (Between Cores - Armour)	
Conductors DC Resistance :		IEC 60228 Class 2
Insulation Resistance :	≥ 790 MΩ x Km (@ 20°C)	
Applicable Standards		
Design Guidelines :	**IEC 60092.353**	
ON COMPLETE CABLE		
Fire Resistant test :	**IEC 60331.21**	
Flame Retardant test :	IEC 60332.1.2 - IEC 60332.3.22	
Acid Gas generation :	IEC 60754.1/2	
Smoke density/Light Transmittance	IEC 61034.2 (LT ≥ 60%)	
Temperature Range :		
ON INSULATION	(max +90°C)	(max continuous operation temperature of conductors)
	(max +250°C)	(max conductors temperature during short-circuit for 5 seconds)
ON COMPLETE CABLE		
During Operation :	(-20°C up to +90°C)	(in fixed installation)
During installation :	(- 5°C up to +50°C)	
Note :	**To meet the requirements of installation and use in Zone 1 & Zone 2 (IEC 60079-14) and "Gas & Vapour Tight" the cable must be provided with Penetrating Inner covering together with correct ATEX approved equipment or accessories.**	

Office	Date	Sign	Rev.	Date	Sign
Drawn by :	29/03/2024	Messa			
Checked :	29/03/2024	Spaccasassi			
Approved :	29/03/2024	Cucinotta			

The data provided, lending assent for the treatment, will be used to the sense of the article 13 of of the Regulation (UE) 2016/679, also through outsiders, in order to allow the realization of the fulfilments informatives, administrative, commercial and accounting related to the contractual relationship. Integral copy of the informative could be requested at our offices.

All proprietary rights reserved according to law. This document shall be not reproduced without written permission. FLEI reserves the right to change characteristics and technical data of product shown at any time.

ITEM	Tag	P-ELF-200N1-02-L1-18	: Normal Lighting JB / Normal Lighting Fixture			Dwg	123A90-DDL-EL-LIS-20148
	S/Sys	83-40	: Normal Lighting Upper Deck			Module	UD
TASK	code	C10000690		Location	Onshore Activities	User	Rosetti Marino Quality Control
FORM	Process	MC	Activity CCK	Discipline	Electrical	Form	CPX09 LV Power Cable

CABLE DATA

Type Cu Cl.2/MGT/EPR/LSZH/GSWB/LSZH Cores/Size mm² 3G2,5 mm2 Color ORANGE

From EJB-200N1-02-L1-12 To ELF-200N1-02-L1-18

1	Confirm cable is as specified in project cable schedule	OK
2	Visual Check cable physical integrity.	OK
3	Check is installed in accordance with layout drawing (segregation, distance…).	PL
4	Check cable is supported and fixed to rack according to project specification.	Note
5	Check bending radius is within the specified limits.	OK
6	Confirm cable glands suit for cable type, correctly mounted and tightened.	PL
7	Check gland plate for single core cables is non ferrous (non -magnetic).	NA
8	Confirm cable labelling is in accordance with specifications.	PL
9	Check cable is correctly loomed and segregated in accordance with specification.	OK
10	Check cable earthing against lastest drawings.	OK
11	Check cores marking are in accordance with termination diagram	PL
12	Check terminations are in accordance with latest termination diagram	OK
13	If required produce Red Line Mark Up for "AS BUILT"	

ROSETTI MARINO PROVERLIS CROSSWIND

ITEM	Tag	P-ELF-200N1-02-L1-18	: Normal Lighting JB / Normal Lighting Fixture			Dwg	123A90-DDL-EL-LIS-20148
	S/Sys	83-40	: Normal Lighting Upper Deck			Module	UD
TASK	code	C10000690		Location	Onshore Activities	User	Rosetti Marino Quality Control
FORM	Process	MC	Activity CCK	Discipline	Electrical	Form	CPX09 LV Power Cable

	CONTINUITY			
5	CORE CONTINUITY Ω	PH 1	0,2	
6		PH 2	0,2	
7		PH 3	NA	
8	ARMOUR CONTINUITY Ω		0,2	
9	PROTECTIVE CONDUCTOR CONTINUITY Ω		0,2	
	INSULATION			
10	CORES / ARMOUR+EARTH MΩ	PH1 / PH2-PH3-A-E	>999	
11		PH2 / PH1-PH3-A-E	>999	
12		PH3 / PH1-PH2-A-E	NA	
13	CABLE IS CORRECTLY RE-CONNECTED.		Yes	

TESTING INSTRUMENTS USED

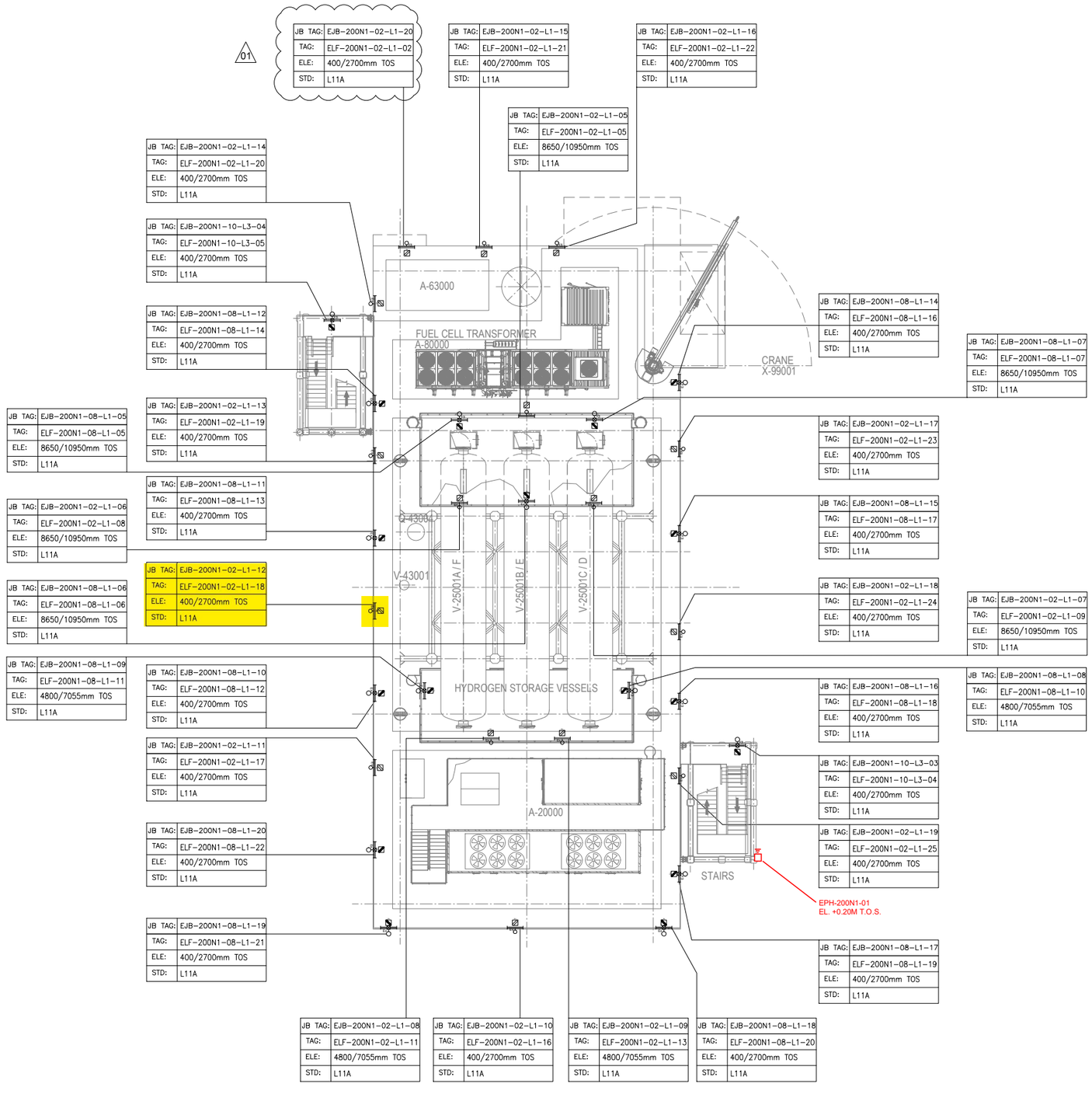
TYPE / SERIAL N° :	MEGGER : KEW3125A SERIAL: W8330207	TYPE / SERIAL N° :	MULTIMETER: FLUKE 175 SERIAL:AW1/018(17140769)
Calibration certificate N° and date:	N°7722/24 _ 10/07/2024	Calibration certificate N° and date:	N°7715/24 _ 10/07/2024

Comments: Nota 4: refer to PL C30000679

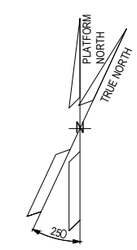
	Performed by	● WITNESS ☐ REVIEW	☐ WITNESS ☐ REVIEW
Company	ICS IMPIANTI	RM(ROSETTI MARINO)	
Name	Francesco Zucca	Luca Mussi	
Date	2024-12-05	2024-12-06	
Signature	PROVERLIS Digitaly signed by Francesco Zucca 2024-12-05T18:10:01.292Z	PROVERLIS Digitaly signed by Luca Mussi 2024-12-06T18:17:04.956Z	

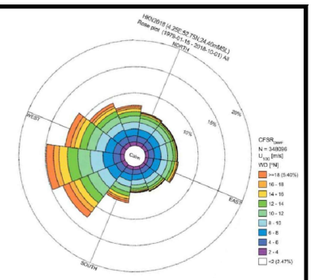
DRAWING NO. 123A90-DDL-EL-DL-20118

REV. 01



PLAN ON UPPER DECK
EL+30.310 T.O.S.





NOTES

1. ALL DIMENSIONS AND ELEVATIONS ARE GIVEN IN mm UNLESS OTHERWISE NOTED.
2. ELEVATIONS REFER TO T.O.S.
3. ELEVATION OF THE LAMPS ARE REFFERED TO THE BOTTOM OF THE LAMP.
4. FOR THE ELEVATION OF JB, REFER TO THE TYPICAL INSTALLATION.

LEGEND

- EMERGENCY LIGHTING JB
- 60W LED EMERGENCY LUMINARIES
- 60W LED EMERGENCY LUMINARIES FIXTURE POLE MOUNTED
- NORMAL LIGHTING JB
- 45W LED NORMAL LUMINARIES
- 45W LED NORMAL LUMINARIES FIXTURE POLE MOUNTED
- WELDING SOCKET WITH INTEGRATED JB
- SMALL POWER SOCKET WITH INTEGRATED JB
- TWILIGHT RELAY SENSOR

JB TAG:	JB-TAG
TAG:	TAG
ELE:	ELEVATION
STD:	STANDARD

VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DL-20118**

REV.:	DATE:	SIGNATURE:
1_B	22/10/24	G.Randi

ROSETTI MARINO SpA

REFERENCE DOCUMENTS

123A90-DDL-PP-DL-70070	PLOT PLAN - LOWER & UPPER DECK
123A90-DDL-EL-DL-20100	ELECTRICAL EQUIPMENT LAYOUT - TOP DECK
123A90-DDL-EL-DD-20091	ELECTRICAL TYPICAL INSTALLATION DETAILS - LIGHTING SYSTEM
123A90-DDL-EL-DD-20092	ELECTRICAL TYPICAL INSTALLATION DETAILS - POWER SYSTEM & CABLE INSTALLATION
123A90-DDL-EL-RE-20153	LIGHTING CALCULATION STUDY REPORT

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	02/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	28/05/24	ASR	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND | ROSETTI MARINO

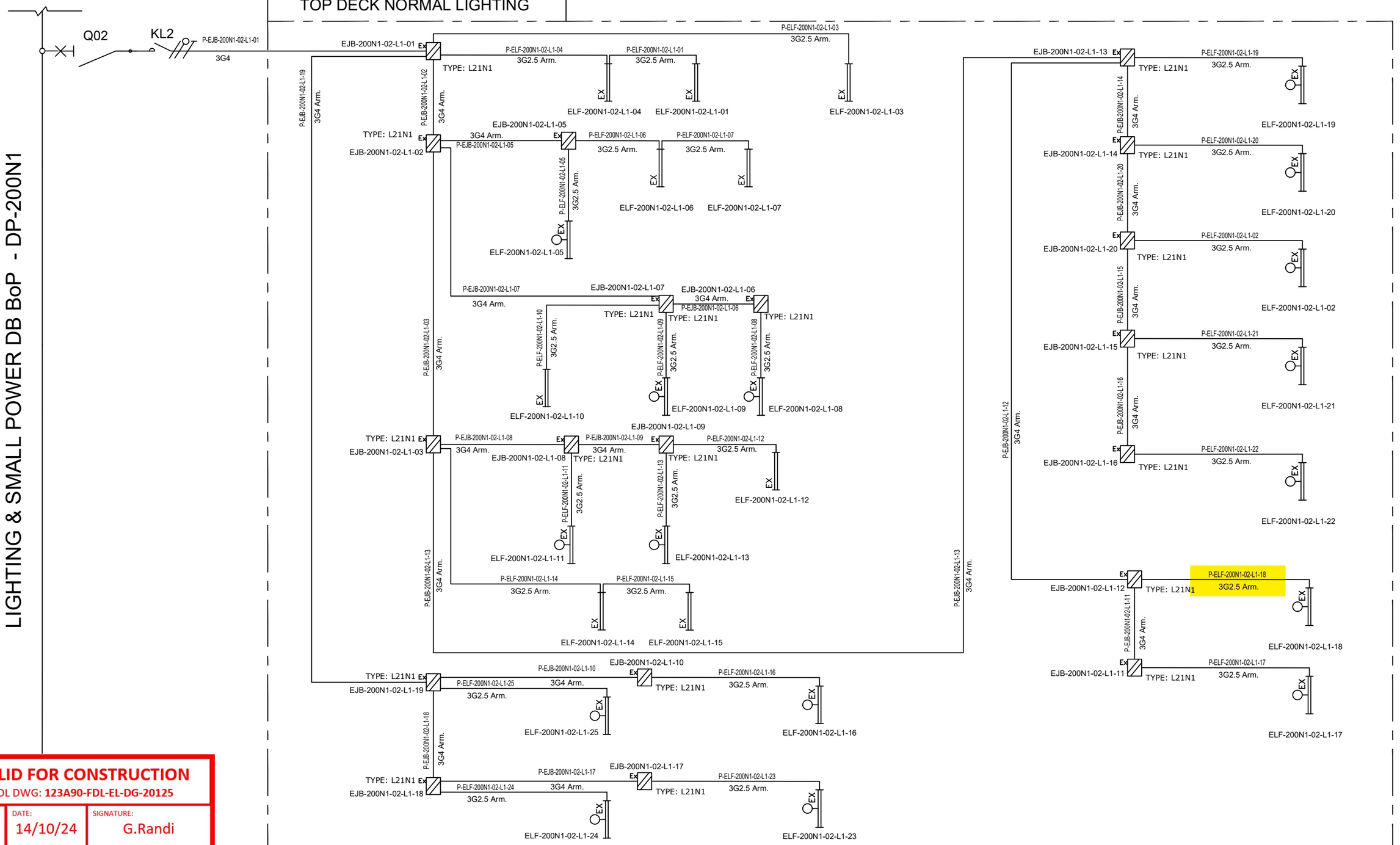
TITLE :
BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET LAYOUT – TOP DECK

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK			SCALE 1:150
DRAWN ASR	CHECKED FMA/AMA	APPROVED FPA/DLO	DATE 01/08/24
A1	DRAWING NO. 123A90-DDL-EL-DL-20118	SHEET 1of2	REV. 01

File Name : 123A90-DDL-EL-DL-20118

LIGHTING & SMALL POWER DB BoP - DP-200N1

TOP DECK NORMAL LIGHTING



VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DG-20125**

REV.:	DATE:	SIGNATURE:
1_B	14/10/24	G.Randi

ROSETTI MARINO SpA

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	08/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	01/07/24	ASR	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

TITLE : BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET CIRCUIT DIAGRAM
TOP DECK–NORMAL LIGHTING

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK | SCALE : NTS

A3 | DRAWING NO. 123A90–DDL–EL–DG–20125 | SHEET 010 | REV. 01

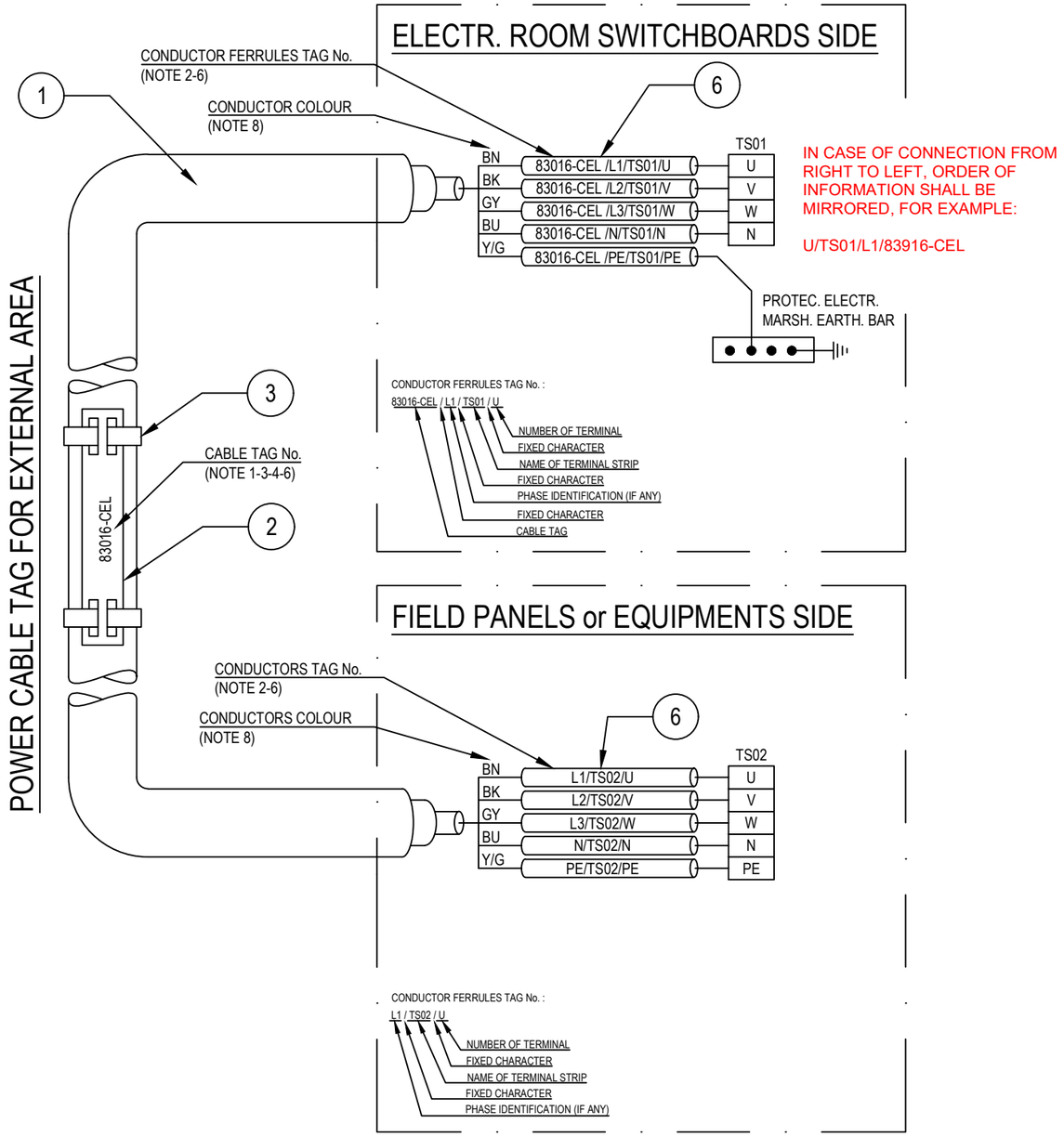
F.to UNI A3: 420mmx297mm

File Name : 123A90–DDL–EL–DG–20125

CROSSWIND

ROSETTI MARINO

C02



POS.	DESCRIPTION	MATERIAL	SIZE	Q.TY	NOTE
1	UNARMOURED CABLE				
2	CABLE TAG FOR EXTERNAL AREA	HDG/SS			NOTE 1 NOTE 4
3	TIE FOR CABLE TAG IN EXTERNAL AREA	HDG/SS			
4	CABLE TAG FOR INTERNAL AREA	PVC			NOTE 1 NOTE 5
5	TIE FOR CABLE TAG IN INTERNAL AREA	NYLON 6.6			
6	CORE FERRULES	PVC			

NOTES:

1) ALL CABLES SHALL BE IDENTIFIED AT EACH TERMINATION AND EACH SIDE OF ANY OBSTACLE (E.G. CABLE TRANSIT ON WALLS INSIDE SHELTER AND FLOOR DECK CROSSING, BY THEIR RESPECTIVE TAGS/NUMBERS, AS INDICATED ON THE CABLE SCHEDULE.
CABLE IDENTIFICATION SHALL BE ALSO DONE BELOW AND IN THE SWITCHBOARD CABLE COMPARTMENT.

2) CABLE CORE FERRULES SHALL BE FITTED AT EVERY TERMINATION. THESE FERRULES SHALL BE OF ENGRAVED PLASTIC SLIP ON, INTERLOCKED AND SELF GRIP TYPE.

3) ON CABLE TRAYS OR LADDERS, CABLES SHALL BE IDENTIFIED AT EACH END, AND EVERY 25 METERS.

4) THE CABLE TAG FOR EXTERNAL AREA SHALL DONE BY 316L STAINLESS STEEL LABELS, TAG (H=5mm) SHALL BE LASER PRINTED PREFERABLY OR EMBOSSED, LABEL HELD BY TWO 316L STAINLESS STEEL TIES.

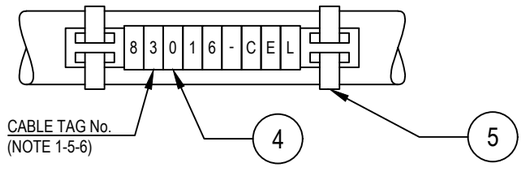
5) THE CABLE TAG FOR INTERNAL AREA SHALL BE DONE BY ENGRAVED PLASTIC SLIP ON CHARACTERS ONTO PLASTIC TIE, BLACK LETTER (H=5mm) ON WHITE.

6) CABLE AND CONDUCTOR TAG ARE INDICATIVE ONLY.

7) WITHIN TECHNICAL BUILDING, PROTECTIVE CONDUCTOR SHALL BE TAGGED BETWEEN FOLLOWING ITEMS:
- PANEL (SWITCHBOARD, SWITCHGEAR, DISTRIBUTION BOARD, ETC) AND EARTH BAR
- EARTH BAR AND EARTH BOSS

8) ONLY IF NECESSARY, SHRINK TUBES OF THE APPROPRIATE COLOR WILL BE INSTALLED TO COVER THE WRONG CONDUCTOR COLOR, THIS WILL BE PERFORMED IN EACH SIDE OF THE CABLES WHERE NECESSARY.

POWER CABLE TAG FOR INTERNAL AREA



VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DD-20092**

REV.:	DATE:	SIGNATURE:
2_B	28/11/24	G.Randi

ROSETTI MARINO SpA

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	28/08/24	GRA	AMA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	04/07/24	NLK	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	21/11/23	SPS	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL TYPICAL INSTALLATION DETAILS-POWER SYSTEM & CABLE INSTALLATION
CABLES INSTALLATION SYSTEM IDENTIFICATION FOR POWER CABLES

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK | SCALE : NTS

A3	DRAWING NO.	SHEET	REV.
	123A90-DDL-EL-DD-20092	007	02

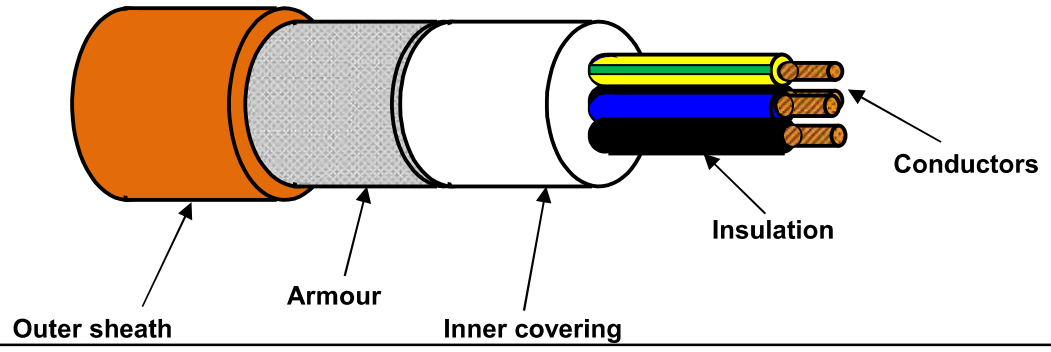
F.to UNI A3: 420mmx297mm

File Name : 123A90-DDL-EL-DD-20092 REV.02.DWG

Tag Number	Category	Discipline	Eng Status	NativeDoc	Layout	Parent Tag	Main Function	Secondary Function	Area	From Tag	From Main Function	From Area	To Tag	To Main Function	To Area	Material ID	Material Desc.	Gland Standard	From Gland	From Entry	From Fitting	To Gland	To Entry	To Fitting	Routing	Routing Manual
P-ELF-200N1-02-L1-18	Cable	LSP	VFC	123A90-DDL-EL-LIS-20148						EJB-200N1-02-L1-12	Normal Lighting JB	Upper Deck	ELF-200N1-02-L1-18	Normal Lighting Fixture	Upper Deck	ELECV19-3G2,5	Cable Cu Cl.2/MGT/EPR/LSZH/GSWB/LSZH 0,6/1kV 3G2,5mm² - Orange	M20	T2_M20_Double			T2_M20_Double				L-50-102-LVT-030

Cu Cl.2/MGT/EPR/LSZH/GSWB/LSZH 0,6/1 KV

3G2,5 - L.V. POWER CABLE - Fire Resistant & Flame Retardant - ARMOURED



TECHNICAL FEATURES

Conductors :	**STRANDED** plain/bare annealed copper wires	IEC 60228 Class 2
Insulation :	Mica/Glass Tape (MGT) plus EPR compound, quality to IEC 60092.360, Nominal Thickness 1,0 mm	
Cores colour code :	**Brown - Blue - Yellow/Green**	
Pair Assembling :	Not required	
Pair Wrapping:	Not required	
Drain wire :	Not required	
Pair Shield :	Not required	
Shield Insulation :	Not Required	
Total Assembling :	Cores layed up with optimal lay length	
Overall Wrapping:	Not required	
Drain wire :	Not required	
Overall Shield:	Not required	
Inner covering :	Extruded LSZH compound, Average Thickness 1,0 mm	
Inner covering color code:	**Black or Natural**	
Armour :	**Galvanized Steel Wire Braid Armour (coverage ≥ 90%)**	
Outer sheath :	Extruded LSZH Thermoplastic Compound (O.I. ≥ 30%), type **SHF1** to IEC 60093.360, Average Thickness 1,3 mm	
Outer sheath color code:	**Orange**	
Outer printing (INKJET) :	**FLEI - ELECTRIC CABLE - 1000V - 3G2,5 SQMM - MGT/EPR/LSZH/GSWB/LSZH - 0,6/1 KV - IEC 60331.21 - IEC 60332.1.2 - IEC 60332.3.22 - Year of Manufacture - CE + Meter Marking**	
Under Armour diameter :	(11,7 ± 10%) mm	
Over Armour diameter :	(12,9 ± 10%) mm	
Outer diameter :	(15,5 ± 10%) mm	
Bending radius :	cable outer diameter x 10	(in fixed installation)
Voltage test :	3,5 kV a.c. for 5' (Between Cores - Armour)	
Conductors DC Resistance :		IEC 60228 Class 2
Insulation Resistance :	≥ 940 MΩ x Km (@ 20°C)	
Applicable Standards		
Design Guidelines :	**IEC 60092.353**	
ON COMPLETE CABLE		
Fire Resistant test :	**IEC 60331.21**	
Flame Retardant test :	IEC 60332.1.2 - IEC 60332.3.22	
Acid Gas generation :	IEC 60754.1/2	
Smoke density/Light Transmittance	IEC 61034.2 (LT ≥ 60%)	
Temperature Range :		
ON INSULATION	(max +90°C)	(max continuous operation temperature of conductors)
	(max +250°C)	(max conductors temperature during short-circuit for 5 seconds)
ON COMPLETE CABLE		
During Operation :	(-20°C up to +90°C)	(in fixed installation)
During installation :	(- 5°C up to +50°C)	
Note :	**To meet the requirements of installation and use in Zone 1 & Zone 2 (IEC 60079-14) and "Gas & Vapour Tight" the cable must be provided with Penetrating Inner covering together with correct ATEX approved equipment or accessories.**	

Office	Date	Sign	Rev.	Date	Sign
Drawn by :	29/03/2024	Messa			
Checked :	29/03/2024	Spaccasassi			
Approved :	29/03/2024	Cucinotta			

The data provided, lending assent for the treatment, will be used to the sense of the article 13 of of the Regulation (UE) 2016/679, also through outsiders, in order to allow the realization of the fulfilments informatives, administrative, commercial and accounting related to the contractual relationship. Integral copy of the informative could be requested at our offices.

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ITEM	Tag	P-EJB-200N1-02-L1-13	: Normal Lighting JB / Normal Lighting JB			Dwg	123A90-DDL-EL-LIS-20148
	S/Sys	83-40	: Normal Lighting Upper Deck			Module	UD
TASK	code	C10000691		Location	Onshore Activities	User	Rosetti Marino Quality Control
FORM	Process	MC	Activity CCK	Discipline	Electrical	Form	CPX09 LV Power Cable

CABLE DATA

Type Cu Cl.2/MGT/EPR/LSZH/GSWB/LSZH Cores/Size mm² 3G4 mm2 Color ORANGE

From EJB-200N1-02-L1-03 To EJB-200N1-02-L1-13

1	Confirm cable is as specified in project cable schedule	OK
2	Visual Check cable physical integrity.	OK
3	Check is installed in accordance with layout drawing (segregation, distance…).	OK
4	Check cable is supported and fixed to rack according to project specification.	Note
5	Check bending radius is within the specified limits.	OK
6	Confirm cable glands suit for cable type, correctly mounted and tightened.	PL
7	Check gland plate for single core cables is non ferrous (non -magnetic).	NA
8	Confirm cable labelling is in accordance with specifications.	PL
9	Check cable is correctly loomed and segregated in accordance with specification.	OK
10	Check cable earthing against lastest drawings.	OK
11	Check cores marking are in accordance with termination diagram	PL
12	Check terminations are in accordance with latest termination diagram	OK
13	If required produce Red Line Mark Up for "AS BUILT"	

ROSETTI MARINO PROVERLIS CROSSWIND

ITEM	Tag	P-EJB-200N1-02-L1-13	: Normal Lighting JB / Normal Lighting JB			Dwg	123A90-DDL-EL-LIS-20148
	S/Sys	83-40	: Normal Lighting Upper Deck			Module	UD
TASK	code	C10000691		Location	Onshore Activities	User	Rosetti Marino Quality Control
FORM	Process	MC	Activity CCK	Discipline	Electrical	Form	CPX09 LV Power Cable

CONTINUITY				
5	CORE CONTINUITY Ω	PH 1	0,3	
6		PH 2	0,3	
7		PH 3	NA	
8	ARMOUR CONTINUITY Ω		0,3	
9	PROTECTIVE CONDUCTOR CONTINUITY Ω		0,3	
INSULATION				
10	CORES / ARMOUR+EARTH MΩ	PH1 / PH2-PH3-A-E	>999	
11		PH2 / PH1-PH3-A-E	>999	
12		PH3 / PH1-PH2-A-E	NA	
13	CABLE IS CORRECTLY RE-CONNECTED.		Yes	

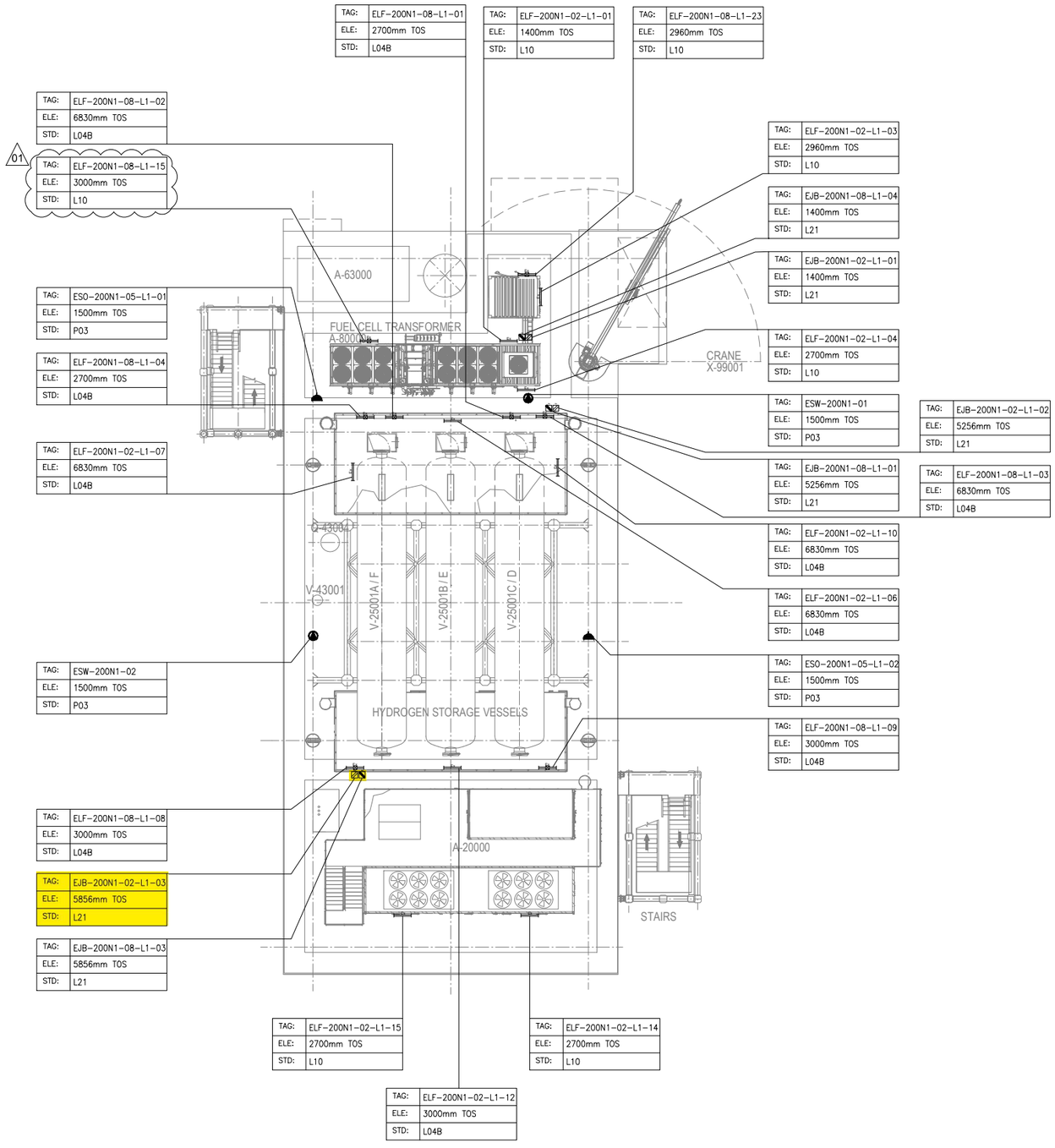
TESTING INSTRUMENTS USED			
TYPE / SERIAL N° :	MEGGER : KEW3125A SERIAL: W8330207	TYPE / SERIAL N° :	MULTIMETER: FLUKE 175 SERIAL:AW1/018(17140769)
Calibration certificate N° and date:	N°7722/24 _ 10/07/2024	Calibration certificate N° and date:	N°7715/24 _ 10/07/2024

Comments: Nota 4: refer to PL C30000679

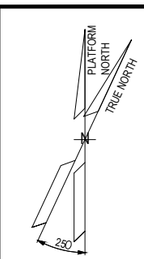
	Performed by	● WITNESS ☐ REVIEW	☐ WITNESS ☐ REVIEW
Company	ICS IMPIANTI	RM(ROSETTI MARINO)	
Name	Francesco Zucca	Luca Mussi	
Date	2024-12-28	2024-12-30	
Signature	PROVERLIS Digitaly signed by Francesco Zucca 2024-12-28T07:29:55.971Z	PROVERLIS Digitaly signed by Luca Mussi 2024-12-30T13:30:59.193Z	

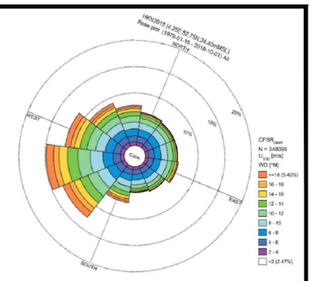
DRAWING NO. 123A90-DDL-EL-DL-20118

REV. 01



PLAN ON UPPER DECK
EL+30.310 T.O.S.





NOTES

1. ALL DIMENSIONS AND ELEVATIONS ARE GIVEN IN mm UNLESS OTHERWISE NOTED.
2. ELEVATIONS REFER TO T.O.S.
3. ELEVATION OF THE LAMPS ARE REFFERED TO THE BOTTOM OF THE LAMP.
4. FOR THE ELEVATION OF JB, REFER TO THE TYPICAL INSTALLATION.

LEGEND

- EMERGENCY LIGHTING JB
- 60W LED EMERGENCY LUMINARIES
- 60W LED EMERGENCY LUMINARIES FIXTURE POLE MOUNTED
- NORMAL LIGHTING JB
- 45W LED NORMAL LUMINARIES
- 45W LED NORMAL LUMINARIES FIXTURE POLE MOUNTED
- WELDING SOCKET WITH INTEGRATED JB
- SMALL POWER SOCKET WITH INTEGRATED JB

JB TAG:	JB-TAG
TAG:	TAG
ELE:	ELEVATION
STD:	STANDARD

VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DL-20118**

REV.:	DATE:	SIGNATURE:
1_B	22/10/24	G.Randi

ROSETTI MARINO SpA

REFERENCE DOCUMENTS

123A90-DDL-PP-DL-70070	PLOT PLAN - LOWER & UPPER DECK
123A90-DDL-EL-DL-20100	ELECTRICAL EQUIPMENT LAYOUT - TOP DECK
123A90-DDL-EL-DD-20091	ELECTRICAL TYPICAL INSTALLATION DETAILS - LIGHTING SYSTEM
123A90-DDL-EL-DD-20092	ELECTRICAL TYPICAL INSTALLATION DETAILS - POWER SYSTEM & CABLE INSTALLATION
123A90-DDL-EL-RE-20153	LIGHTING CALCULATION STUDY REPORT

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	02/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	28/05/24	ASR	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND

ROSETTI MARINO

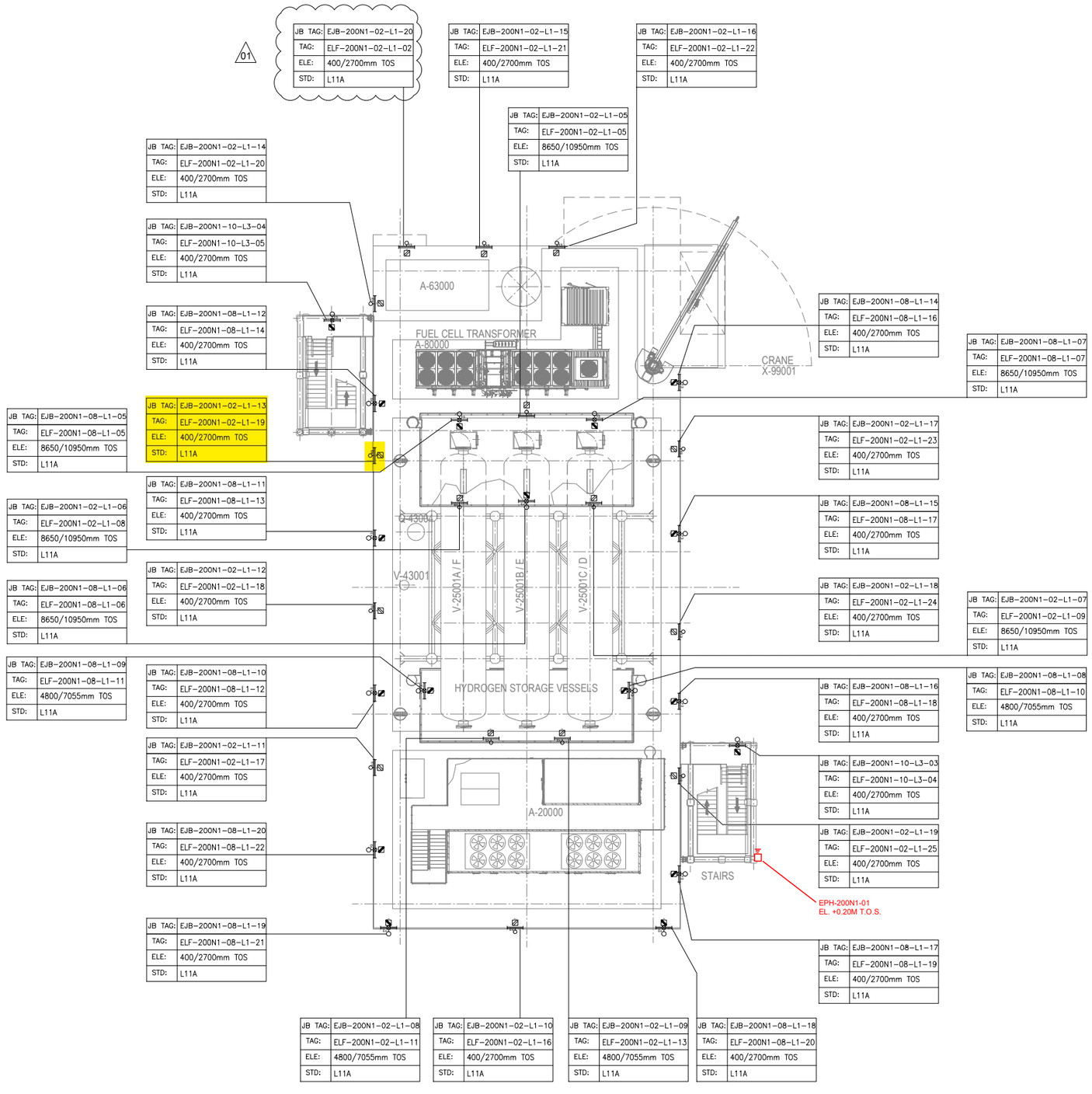
TITLE :
BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET LAYOUT – TOP DECK

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK			SCALE 1:150
DRAWN ASR	CHECKED FMA/AMA	APPROVED FPA/DLO	DATE 01/08/24
A1	DRAWING NO. 123A90-DDL-EL-DL-20118	SHEET 2of2	REV. 01

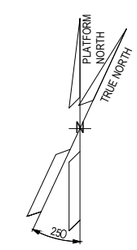
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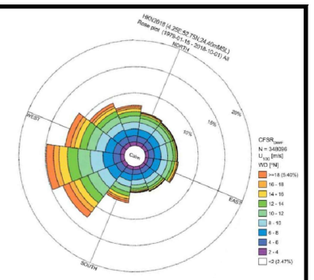
DRAWING NO. 123A90-DDL-EL-DL-20118

REV. 01



PLAN ON UPPER DECK
EL+30.310 T.O.S.





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- 45W LED NORMAL LUMINARIES FIXTURE POLE MOUNTED
- WELDING SOCKET WITH INTEGRATED JB
- SMALL POWER SOCKET WITH INTEGRATED JB
- TWILIGHT RELAY SENSOR

JB TAG:	JB-TAG
TAG:	TAG
ELE:	ELEVATION
STD:	STANDARD

VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DL-20118**

REV.:	DATE:	SIGNATURE:
1_B	22/10/24	G.Randi

ROSETTI MARINO SpA

REFERENCE DOCUMENTS

123A90-DDL-PP-DL-70070	PLOT PLAN - LOWER & UPPER DECK
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123A90-DDL-EL-DD-20091	ELECTRICAL TYPICAL INSTALLATION DETAILS - LIGHTING SYSTEM
123A90-DDL-EL-DD-20092	ELECTRICAL TYPICAL INSTALLATION DETAILS - POWER SYSTEM & CABLE INSTALLATION
123A90-DDL-EL-RE-20153	LIGHTING CALCULATION STUDY REPORT

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	02/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	28/05/24	ASR	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND | ROSETTI MARINO

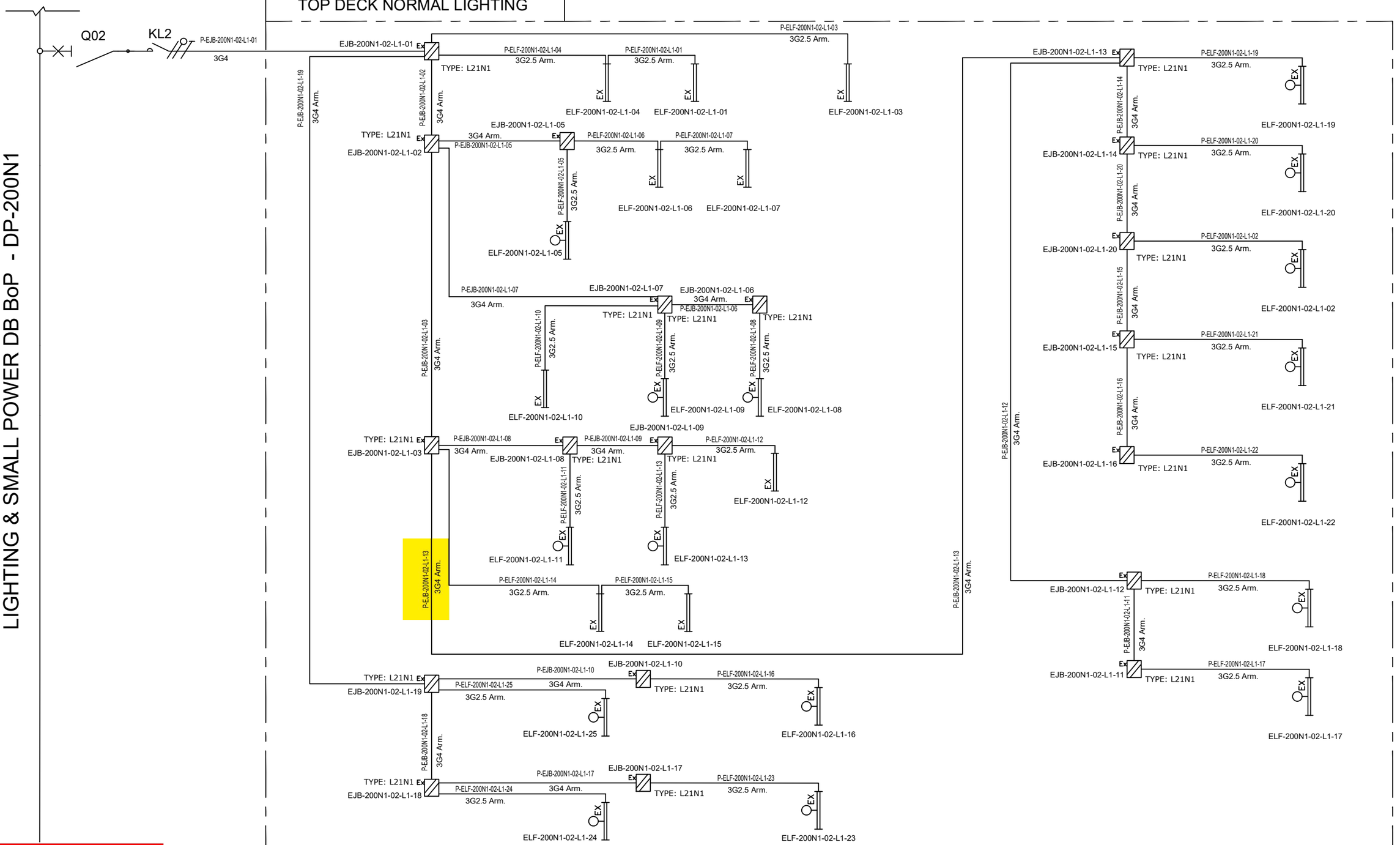
TITLE :
BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET LAYOUT – TOP DECK

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK			SCALE 1:150
DRAWN ASR	CHECKED FMA/AMA	APPROVED FPA/DLO	DATE 01/08/24
A1	DRAWING NO. 123A90-DDL-EL-DL-20118	SHEET 1of2	REV. 01

File Name : 123A90-DDL-EL-DL-20118

LIGHTING & SMALL POWER DB BoP - DP-200N1

TOP DECK NORMAL LIGHTING



VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DG-20125**

REV.:	DATE:	SIGNATURE:
2_C	20/12/24	V.Ramponi

ROSETTI MARINO SpA

CROSSWIND

ROSETTI MARINO

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	08/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	01/07/24	ASR	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

TITLE : BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET CIRCUIT DIAGRAM
TOP DECK–NORMAL LIGHTING

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE : NTS

A3

DRAWING NO. 123A90-DDL-EL-DG-20125

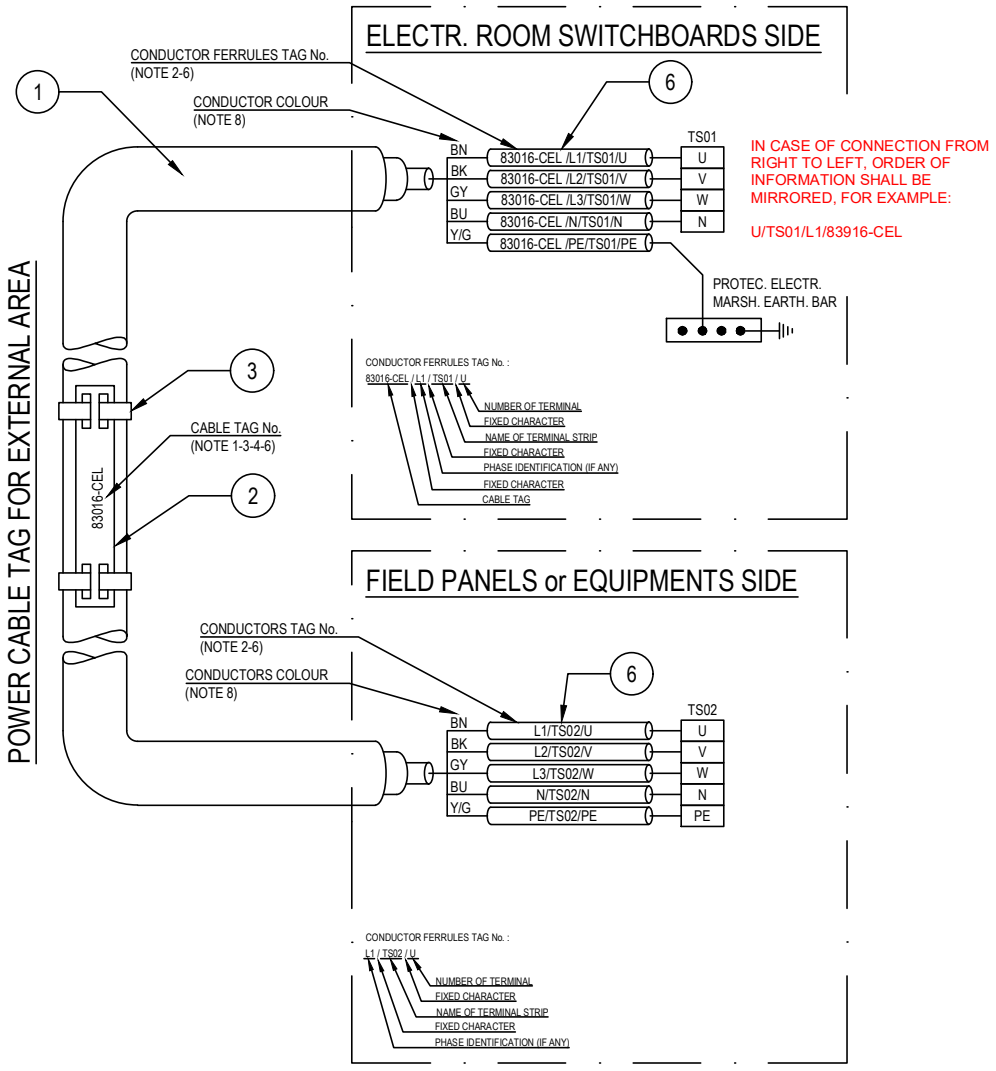
SHEET 010

REV. 01

F.to UNI A3: 420mmx297mm

File Name : 123A90-DDL-EL-DG-20125

C02



POS.	DESCRIPTION	MATERIAL	SIZE	Q.TY	NOTE
1	UNARMOURED CABLE				
2	CABLE TAG FOR EXTERNAL AREA	HDG/SS			NOTE 1 NOTE 4
3	TIE FOR CABLE TAG IN EXTERNAL AREA	HDG/SS			
4	CABLE TAG FOR INTERNAL AREA	PVC			NOTE 1 NOTE 5
5	TIE FOR CABLE TAG IN INTERNAL AREA	NYLON 6.6			
6	CORE FERRULES	PVC			

NOTES:

1) ALL CABLES SHALL BE IDENTIFIED AT EACH TERMINATION AND EACH SIDE OF ANY OBSTACLE (E.G. CABLE TRANSIT ON WALLS INSIDE SHELTER AND FLOOR DECK CROSSING, BY THEIR RESPECTIVE TAGS/NUMBERS, AS INDICATED ON THE CABLE SCHEDULE.
CABLE IDENTIFICATION SHALL BE ALSO DONE BELOW AND IN THE SWITCHBOARD CABLE COMPARTMENT.

2) CABLE CORE FERRULES SHALL BE FITTED AT EVERY TERMINATION. THESE FERRULES SHALL BE OF ENGRAVED PLASTIC SLIP ON, INTERLOCKED AND SELF GRIP TYPE.

3) ON CABLE TRAYS OR LADDERS, CABLES SHALL BE IDENTIFIED AT EACH END, AND EVERY 25 METERS.

4) THE CABLE TAG FOR EXTERNAL AREA SHALL DONE BY 316L STAINLESS STEEL LABELS, TAG (H=5mm) SHALL BE LASER PRINTED PREFERABLY OR EMBOSSED, LABEL HELD BY TWO 316L STAINLESS STEEL TIES.

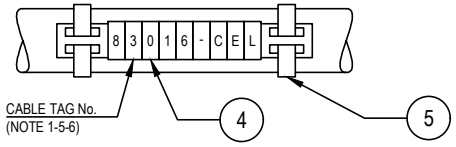
5) THE CABLE TAG FOR INTERNAL AREA SHALL BE DONE BY ENGRAVED PLASTIC SLIP ON CHARACTERS ONTO PLASTIC TIE, BLACK LETTER (H=5mm) ON WHITE.

6) CABLE AND CONDUCTOR TAG ARE INDICATIVE ONLY.

7) WITHIN TECHNICAL BUILDING, PROTECTIVE CONDUCTOR SHALL BE TAGGED BETWEEN FOLLOWING ITEMS:
- PANEL (SWITCHBOARD, SWITCHGEAR, DISTRIBUTION BOARD, ETC) AND EARTH BAR
- EARTH BAR AND EARTH BOSS

8) ONLY IF NECESSARY, SHRINK TUBES OF THE APPROPRIATE COLOR WILL BE INSTALLED TO COVER THE WRONG CONDUCTOR COLOR, THIS WILL BE PERFORMED IN EACH SIDE OF THE CABLES WHERE NECESSARY.

POWER CABLE TAG FOR INTERNAL AREA



VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DD-20092**

REV.:	DATE:	SIGNATURE:
2_D	20/12/24	V.Ramponi

ROSETTI MARINO SpA

CROSSWIND

ROSETTI MARINO

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	28/08/24	GRA	AMA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	04/07/24	NLK	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	21/11/23	SPS	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL TYPICAL INSTALLATION DETAILS-POWER SYSTEM & CABLE INSTALLATION
CABLES INSTALLATION SYSTEM IDENTIFICATION FOR POWER CABLES

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK | SCALE : NTS

A3 | DRAWING NO. 123A90-DDL-EL-DD-20092 | SHEET 007 | REV. 02

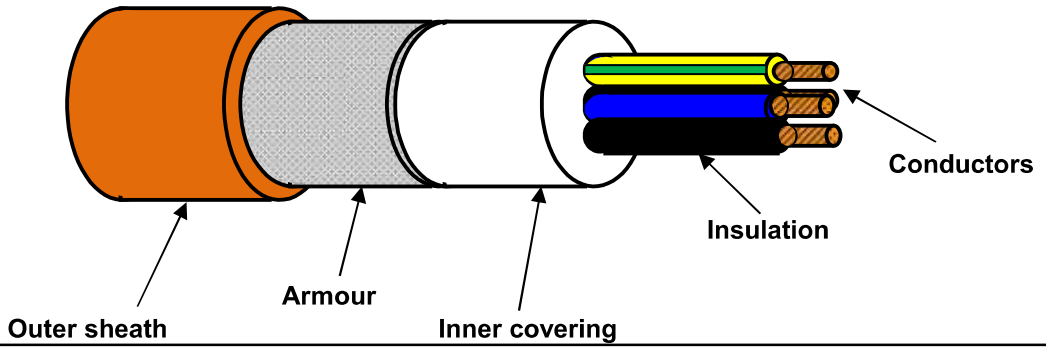
F.to UNI A3: 420mmx297mm

File Name : 123A90-DDL-EL-DD-20092 REV.02.DWG

Tag Number	Category	Disciplir	Eng Statu	NativeDoc	Layout	Parent Tag	Main Function	Secondary Fun	Area	From Tag	From Main Function	From Area	To Tag	To Main Function	To Area	Material ID	Material Desc.	Gland Standard	From Glan	From Entry	From Fitt	To Gland	To Entry	To Fitting	Routing	Routing Manual
P-EJB-200N1-02-L1-13	Cable	LSP	VFC	123A90-DDL-EL-LIS-20148						EJB-200N1-02-L1-03	Normal Lighting JB	Upper Deck	EJB-200N1-02-L1-13	Normal Lighting JB	Upper Deck	ELECV38-3G4	Cable Cu Cl.2/MGT/EPR/LSZH/GSWB/LSZH 0,6/1kV 3G4mm² - Orange	M20	T2_M20_ Double			T2_M20_Double				L-150-102-LVT-013 / L-150-102-LVT-008 / L-150-102-LVT-007 / L-150-101-LVT-104 / L-600-101-LVT-012 / L-300-101-LVT-084 / L-150-102-LVT-006

Cu Cl.2/MGT/EPR/LSZH/GSWB/LSZH 0,6/1 KV

3G4 - L.V. POWER CABLE - Fire Resistant & Flame Retardant - ARMOURED



TECHNICAL FEATURES

Conductors :	**STRANDED** plain/bare annealed copper wires	IEC 60228 Class 2
Insulation :	Mica/Glass Tape (MGT) plus EPR compound, quality to IEC 60092.360, Nominal Thickness 1,0 mm	
Cores colour code :	**Brown - Blue - Yellow/Green**	
Pair Assembling :	Not required	
Pair Wrapping:	Not required	
Drain wire :	Not required	
Pair Shield :	Not required	
Shield Insulation :	Not Required	
Total Assembling :	Cores layed up with optimal lay length	
Overall Wrapping:	Not required	
Drain wire :	Not required	
Overall Shield:	Not required	
Inner covering :	Extruded LSZH compound, Average Thickness 1,0 mm	
Inner covering color code:	**Black or Natural**	
Armour :	**Galvanized Steel Wire Braid Armour (coverage ≥ 90%)**	
Outer sheath :	Extruded LSZH Thermoplastic Compound (O.I. ≥ 30%), type **SHF1** to IEC 60093.360, Average Thickness 1,4 mm	
Outer sheath color code:	**Orange**	
Outer printing (INKJET) :	**FLEI - ELECTRIC CABLE - 1000V - 3G4 SQMM - MGT/EPR/LSZH/GSWB/LSZH - 0,6/1 KV - IEC 60331.21 -**	
	IEC 60332.1.2 - IEC 60332.3.22 - Year of Manufacture - CE + Meter Marking	
Under Armour diameter :	(13,0 ± 10%) mm	
Over Armour diameter :	(14,2 ± 10%) mm	
Outer diameter :	(17,0 ± 10%) mm	
Bending radius :	cable outer diameter x 10	(in fixed installation)
Voltage test :	3,5 kV a.c. for 5' (Between Cores - Armour)	
Conductors DC Resistance :		IEC 60228 Class 2
Insulation Resistance :	≥ 790 MΩ x Km (@ 20°C)	
Applicable Standards		
Design Guidelines :	**IEC 60092.353**	
ON COMPLETE CABLE		
Fire Resistant test :	**IEC 60331.21**	
Flame Retardant test :	IEC 60332.1.2 - IEC 60332.3.22	
Acid Gas generation :	IEC 60754.1/2	
Smoke density/Light Transmittance	IEC 61034.2 (LT ≥ 60%)	
Temperature Range :		
ON INSULATION	(max +90°C)	(max continuous operation temperature of conductors)
	(max +250°C)	(max conductors temperature during short-circuit for 5 seconds)
ON COMPLETE CABLE		
During Operation :	(-20°C up to +90°C)	(in fixed installation)
During installation :	(- 5°C up to +50°C)	
Note :	**To meet the requirements of installation and use in Zone 1 & Zone 2 (IEC 60079-14) and "Gas & Vapour Tight" the cable must be provided with Penetrating Inner covering together with correct ATEX approved equipment or accessories.**	

Office	Date	Sign	Rev.	Date	Sign
Drawn by :	29/03/2024	Messa			
Checked :	29/03/2024	Spaccasassi			
Approved :	29/03/2024	Cucinotta			

The data provided, lending assent for the treatment, will be used to the sense of the article 13 of of the Regulation (UE) 2016/679, also through outsiders, in order to allow the realization of the fulfilments informatives, administrative, commercial and accounting related to the contractual relationship. Integral copy of the informative could be requested at our offices.

All proprietary rights reserved according to law. This document shall be not reproduced without written permission. FLEI reserves the right to change characteristics and technical data of product shown at any time.

ITEM	Tag	P-ELF-200N1-02-L1-19	: Normal Lighting JB / Normal Lighting Fixture			Dwg	123A90-DDL-EL-LIS-20148
	S/Sys	83-40	: Normal Lighting Upper Deck			Module	UD
TASK	code	C10000692		Location	Onshore Activities	User	Rosetti Marino Quality Control
FORM	Process	MC	Activity CCK	Discipline	Electrical	Form	CPX09 LV Power Cable

CABLE DATA

Type Cu Cl.2/MGT/EPR/LSZH/GSWB/LSZH Cores/Size mm² 3G2,5 mm2 Color ORANGE

From EJB-200N1-02-L1-13 To ELF-200N1-02-L1-19

1	Confirm cable is as specified in project cable schedule	OK
2	Visual Check cable physical integrity.	OK
3	Check is installed in accordance with layout drawing (segregation, distance…).	PL
4	Check cable is supported and fixed to rack according to project specification.	Note
5	Check bending radius is within the specified limits.	OK
6	Confirm cable glands suit for cable type, correctly mounted and tightened.	PL
7	Check gland plate for single core cables is non ferrous (non -magnetic).	NA
8	Confirm cable labelling is in accordance with specifications.	PL
9	Check cable is correctly loomed and segregated in accordance with specification.	OK
10	Check cable earthing against lastest drawings.	OK
11	Check cores marking are in accordance with termination diagram	PL
12	Check terminations are in accordance with latest termination diagram	OK
13	If required produce Red Line Mark Up for "AS BUILT"	

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	S/Sys	83-40	: Normal Lighting Upper Deck			Module	UD
TASK	code	C10000692		Location	Onshore Activities	User	Rosetti Marino Quality Control
FORM	Process	MC	Activity CCK	Discipline	Electrical	Form	CPX09 LV Power Cable

	CONTINUITY			
5	CORE CONTINUITY Ω	PH 1	0,2	
6		PH 2	0,2	
7		PH 3	NA	
8	ARMOUR CONTINUITY Ω		0,2	
9	PROTECTIVE CONDUCTOR CONTINUITY Ω		0,2	
	INSULATION			
10	CORES / ARMOUR+EARTH MΩ	PH1 / PH2-PH3-A-E	>999	
11		PH2 / PH1-PH3-A-E	>999	
12		PH3 / PH1-PH2-A-E	NA	
13	CABLE IS CORRECTLY RE-CONNECTED.		Yes	

TESTING INSTRUMENTS USED

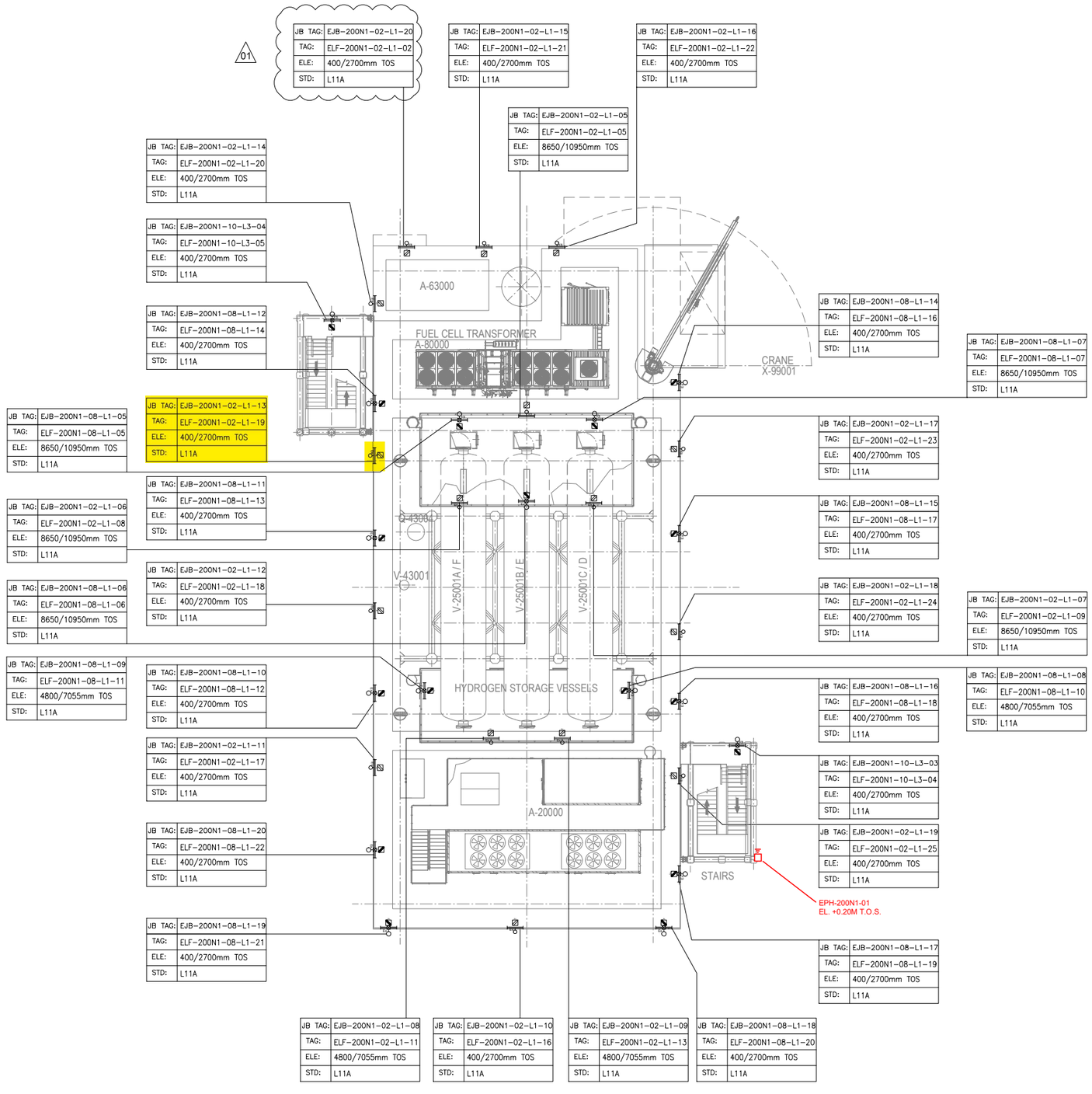
TYPE / SERIAL N° :	MEGGER : KEW3125A SERIAL: W833020	TYPE / SERIAL N° :	MULTIMETER: FLUKE 175 SERIAL:AW1/018(17140769
Calibration certificate N° and date:	N°7722/24 _ 10/07/2024	Calibration certificate N° and date:	N°7715/24 _ 10/07/2024

Comments: Nota 4: refer to PL C30000679

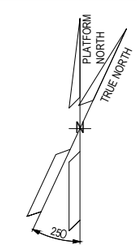
	Performed by	● WITNESS ☐ REVIEW	☐ WITNESS ☐ REVIEW
Company	ICS IMPIANTI	RM(ROSETTI MARINO)	
Name	Carmelo Bongiovanni	Luca Mussi	
Date	2024-11-22	2024-12-06	
Signature	PROVERLIS Digitaly signed by Carmelo Bongiovanni 2024-11-22T17:18:11.325Z	PROVERLIS Digitaly signed by Luca Mussi 2024-12-06T17:54:57.187Z	

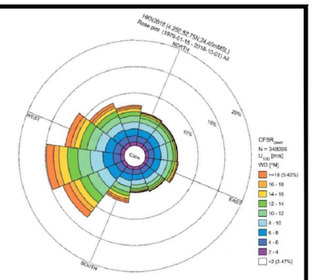
DRAWING NO. 123A90-DDL-EL-DL-20118

REV. 01



PLAN ON UPPER DECK
EL+30.310 T.O.S.





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JB TAG:	JB-TAG
TAG:	TAG
ELE:	ELEVATION
STD:	STANDARD

VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DL-20118**

REV.:	DATE:	SIGNATURE:
1_B	22/10/24	G.Randi

ROSETTI MARINO SpA

REFERENCE DOCUMENTS

123A90-DDL-PP-DL-70070	PLOT PLAN - LOWER & UPPER DECK
123A90-DDL-EL-DL-20100	ELECTRICAL EQUIPMENT LAYOUT - TOP DECK
123A90-DDL-EL-DD-20091	ELECTRICAL TYPICAL INSTALLATION DETAILS - LIGHTING SYSTEM
123A90-DDL-EL-DD-20092	ELECTRICAL TYPICAL INSTALLATION DETAILS - POWER SYSTEM & CABLE INSTALLATION
123A90-DDL-EL-RE-20153	LIGHTING CALCULATION STUDY REPORT

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	02/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	28/05/24	ASR	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND | ROSETTI MARINO

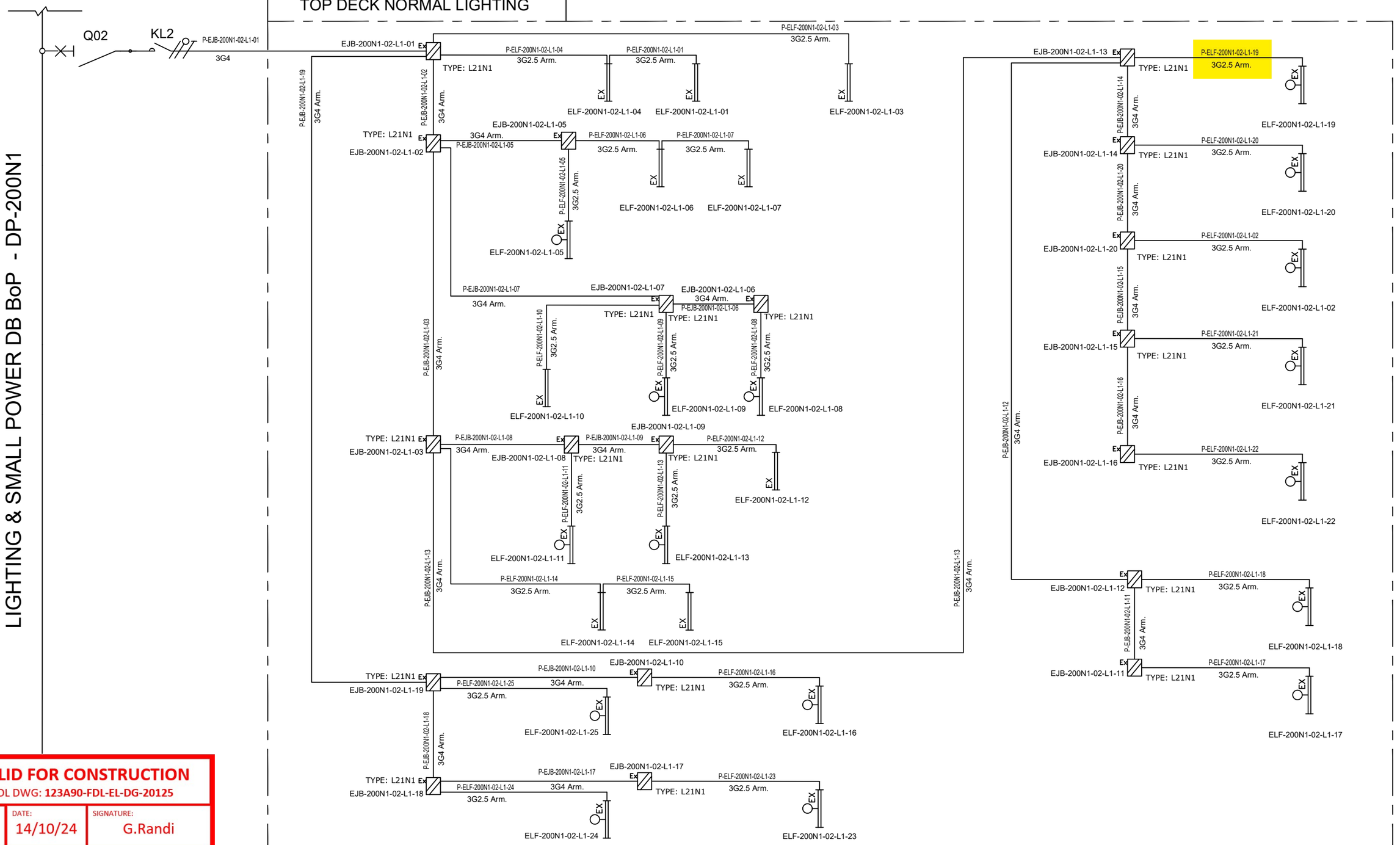
TITLE :
BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET LAYOUT – TOP DECK

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK			SCALE 1:150
DRAWN ASR	CHECKED FMA/AMA	APPROVED FPA/DLO	DATE 01/08/24
A1	DRAWING NO. 123A90-DDL-EL-DL-20118	SHEET 1of2	REV. 01

File Name : 123A90-DDL-EL-DL-20118

LIGHTING & SMALL POWER DB BoP - DP-200N1

TOP DECK NORMAL LIGHTING



VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DG-20125**

REV.:	DATE:	SIGNATURE:
1_B	14/10/24	G.Randi

ROSETTI MARINO SpA

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	08/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	01/07/24	ASR	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

TITLE : BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET CIRCUIT DIAGRAM
TOP DECK–NORMAL LIGHTING

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE : NTS

A3

DRAWING NO. 123A90–DDL–EL–DG–20125

SHEET 010

REV. 01

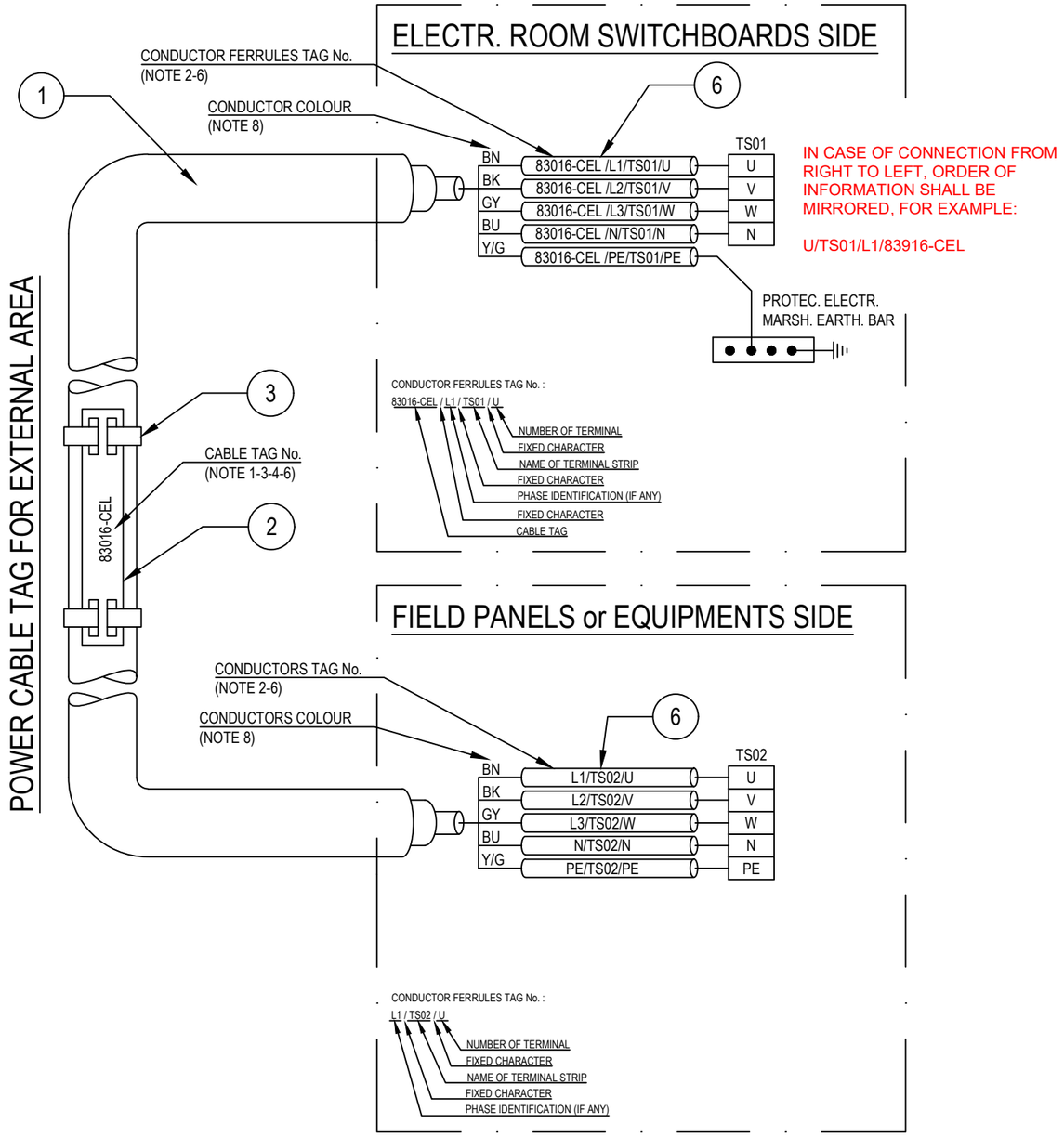
CROSSWIND

ROSETTI MARINO

F.to UNI A3: 420mmx297mm

File Name : 123A90–DDL–EL–DG–20125

C02



POS.	DESCRIPTION	MATERIAL	SIZE	Q.TY	NOTE
1	UNARMOURED CABLE				
2	CABLE TAG FOR EXTERNAL AREA	HDG/SS			NOTE 1 NOTE 4
3	TIE FOR CABLE TAG IN EXTERNAL AREA	HDG/SS			
4	CABLE TAG FOR INTERNAL AREA	PVC			NOTE 1 NOTE 5
5	TIE FOR CABLE TAG IN INTERNAL AREA	NYLON 6.6			
6	CORE FERRULES	PVC			

NOTES:

1) ALL CABLES SHALL BE IDENTIFIED AT EACH TERMINATION AND EACH SIDE OF ANY OBSTACLE (E.G. CABLE TRANSIT ON WALLS INSIDE SHELTER AND FLOOR DECK CROSSING, BY THEIR RESPECTIVE TAGS/NUMBERS, AS INDICATED ON THE CABLE SCHEDULE.
CABLE IDENTIFICATION SHALL BE ALSO DONE BELOW AND IN THE SWITCHBOARD CABLE COMPARTMENT.

2) CABLE CORE FERRULES SHALL BE FITTED AT EVERY TERMINATION. THESE FERRULES SHALL BE OF ENGRAVED PLASTIC SLIP ON, INTERLOCKED AND SELF GRIP TYPE.

3) ON CABLE TRAYS OR LADDERS, CABLES SHALL BE IDENTIFIED AT EACH END, AND EVERY 25 METERS.

4) THE CABLE TAG FOR EXTERNAL AREA SHALL DONE BY 316L STAINLESS STEEL LABELS, TAG (H=5mm) SHALL BE LASER PRINTED PREFERABLY OR EMBOSSED, LABEL HELD BY TWO 316L STAINLESS STEEL TIES.

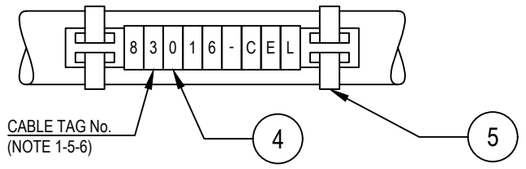
5) THE CABLE TAG FOR INTERNAL AREA SHALL BE DONE BY ENGRAVED PLASTIC SLIP ON CHARACTERS ONTO PLASTIC TIE, BLACK LETTER (H=5mm) ON WHITE.

6) CABLE AND CONDUCTOR TAG ARE INDICATIVE ONLY.

7) WITHIN TECHNICAL BUILDING, PROTECTIVE CONDUCTOR SHALL BE TAGGED BETWEEN FOLLOWING ITEMS:
- PANEL (SWITCHBOARD, SWITCHGEAR, DISTRIBUTION BOARD, ETC) AND EARTH BAR
- EARTH BAR AND EARTH BOSS

8) ONLY IF NECESSARY, SHRINK TUBES OF THE APPROPRIATE COLOR WILL BE INSTALLED TO COVER THE WRONG CONDUCTOR COLOR, THIS WILL BE PERFORMED IN EACH SIDE OF THE CABLES WHERE NECESSARY.

POWER CABLE TAG FOR INTERNAL AREA



VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DD-20092**

REV.:	DATE:	SIGNATURE:
2_B	28/11/24	G.Randi

ROSETTI MARINO SpA

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	28/08/24	GRA	AMA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	04/07/24	NLK	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	21/11/23	SPS	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL TYPICAL INSTALLATION DETAILS-POWER SYSTEM & CABLE INSTALLATION
CABLES INSTALLATION SYSTEM IDENTIFICATION FOR POWER CABLES

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK | SCALE : NTS

A3	DRAWING NO.	SHEET	REV.
	123A90-DDL-EL-DD-20092	007	02

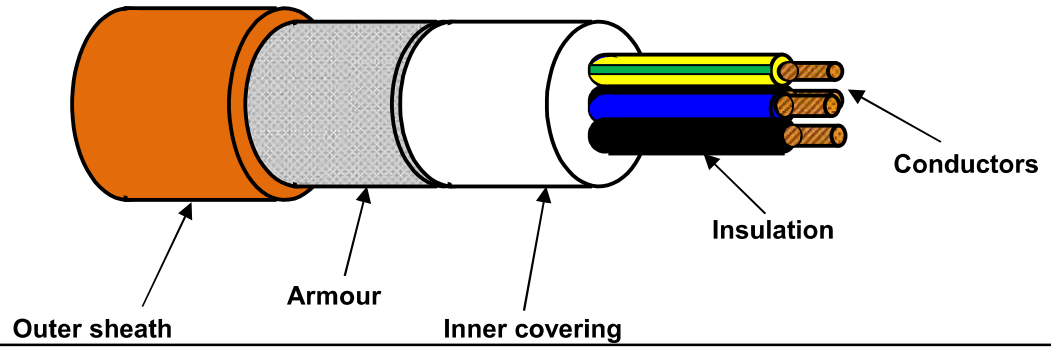
F.to UNI A3: 420mmx297mm

File Name : 123A90-DDL-EL-DD-20092 REV.02.DWG

Tag Number	Category	Discipline	Eng Status	NativeDoc	Layout	Parent Tag	Main Function	Secondary Function	Area	From Tag	From Main Function	From Area	To Tag	To Main Function	To Area	Material ID	Material Desc.	Gland Standard	From Gland	From Entry	From Fitting	To Gland	To Entry	To Fitting	Routing	Routing Manual
P-ELF-200N1-02-L1-19	Cable	LSP	VFC	123A90-DDL-EL-LIS-20148						EJB-200N1-02-L1-13	Normal Lighting JB	Upper Deck	ELF-200N1-02-L1-19	Normal Lighting Fixture	Upper Deck	ELECV19-3G2,5	Cable Cu Cl.2/MGT/EPR/LSZH/GSWB/LSZH 0,6/1kV 3G2,5mm² - Orange	M20	T2_M20_Double			T2_M20_Double				L-50-102-LVT-028

Cu Cl.2/MGT/EPR/LSZH/GSWB/LSZH 0,6/1 KV

3G2,5 - L.V. POWER CABLE - Fire Resistant & Flame Retardant - ARMOURED



TECHNICAL FEATURES

Conductors :	**STRANDED** plain/bare annealed copper wires	IEC 60228 Class 2
Insulation :	Mica/Glass Tape (MGT) plus EPR compound, quality to IEC 60092.360, Nominal Thickness 1,0 mm	
Cores colour code :	**Brown - Blue - Yellow/Green**	
Pair Assembling :	Not required	
Pair Wrapping:	Not required	
Drain wire :	Not required	
Pair Shield :	Not required	
Shield Insulation :	Not Required	
Total Assembling :	Cores layed up with optimal lay length	
Overall Wrapping:	Not required	
Drain wire :	Not required	
Overall Shield:	Not required	
Inner covering :	Extruded LSZH compound, Average Thickness 1,0 mm	
Inner covering color code:	**Black or Natural**	
Armour :	**Galvanized Steel Wire Braid Armour (coverage ≥ 90%)**	
Outer sheath :	Extruded LSZH Thermoplastic Compound (O.I. ≥ 30%), type **SHF1** to IEC 60093.360, Average Thickness 1,3 mm	
Outer sheath color code:	**Orange**	
Outer printing (INKJET) :	**FLEI - ELECTRIC CABLE - 1000V - 3G2,5 SQMM - MGT/EPR/LSZH/GSWB/LSZH - 0,6/1 KV - IEC 60331.21 - IEC 60332.1.2 - IEC 60332.3.22 - Year of Manufacture - CE + Meter Marking**	
Under Armour diameter :	(11,7 ± 10%) mm	
Over Armour diameter :	(12,9 ± 10%) mm	
Outer diameter :	(15,5 ± 10%) mm	
Bending radius :	cable outer diameter x 10	(in fixed installation)
Voltage test :	3,5 kV a.c. for 5' (Between Cores - Armour)	
Conductors DC Resistance :		IEC 60228 Class 2
Insulation Resistance :	≥ 940 MΩ x Km (@ 20°C)	
Applicable Standards		
Design Guidelines :	**IEC 60092.353**	
ON COMPLETE CABLE		
Fire Resistant test :	**IEC 60331.21**	
Flame Retardant test :	IEC 60332.1.2 - IEC 60332.3.22	
Acid Gas generation :	IEC 60754.1/2	
Smoke density/Light Transmittance	IEC 61034.2 (LT ≥ 60%)	
Temperature Range :		
ON INSULATION	(max +90°C)	(max continuous operation temperature of conductors)
	(max +250°C)	(max conductors temperature during short-circuit for 5 seconds)
ON COMPLETE CABLE		
During Operation :	(-20°C up to +90°C)	(in fixed installation)
During installation :	(- 5°C up to +50°C)	
Note :	**To meet the requirements of installation and use in Zone 1 & Zone 2 (IEC 60079-14) and "Gas & Vapour Tight" the cable must be provided with Penetrating Inner covering together with correct ATEX approved equipment or accessories.**	

Office	Date	Sign	Rev.	Date	Sign
Drawn by :	29/03/2024	Messa			
Checked :	29/03/2024	Spaccasassi			
Approved :	29/03/2024	Cucinotta			

The data provided, lending assent for the treatment, will be used to the sense of the article 13 of of the Regulation (UE) 2016/679, also through outsiders, in order to allow the realization of the fulfilments informatives, administrative, commercial and accounting related to the contractual relationship. Integral copy of the informative could be requested at our offices.

All proprietary rights reserved according to law. This document shall be not reproduced without written permission. FLEI reserves the right to change characteristics and technical data of product shown at any time.

ITEM	Tag	P-EJB-200N1-02-L1-14	: Normal Lighting JB / Normal Lighting JB			Dwg	123A90-DDL-EL-LIS-20148
	S/Sys	83-40	: Normal Lighting Upper Deck			Module	UD
TASK	code	C10000693		Location	Onshore Activities	User	Rosetti Marino Quality Control
FORM	Process	MC	Activity CCK	Discipline	Electrical	Form	CPX09 LV Power Cable

CABLE DATA

Type Cu Cl.2/MGT/EPR/LSZH/GSWB/LSZH Cores/Size mm² 3G4 mm2 Color ORANGE

From EJB-200N1-02-L1-13 To EJB-200N1-02-L1-14

1	Confirm cable is as specified in project cable schedule	OK
2	Visual Check cable physical integrity.	OK
3	Check is installed in accordance with layout drawing (segregation, distance…).	OK
4	Check cable is supported and fixed to rack according to project specification.	Note
5	Check bending radius is within the specified limits.	OK
6	Confirm cable glands suit for cable type, correctly mounted and tightened.	PL
7	Check gland plate for single core cables is non ferrous (non -magnetic).	NA
8	Confirm cable labelling is in accordance with specifications.	PL
9	Check cable is correctly loomed and segregated in accordance with specification.	OK
10	Check cable earthing against lastest drawings.	OK
11	Check cores marking are in accordance with termination diagram	OK
12	Check terminations are in accordance with latest termination diagram	PL
13	If required produce Red Line Mark Up for "AS BUILT"	

ROSETTI MARINO PROVERLIS CROSSWIND

ITEM	Tag	P-EJB-200N1-02-L1-14	: Normal Lighting JB / Normal Lighting JB			Dwg	123A90-DDL-EL-LIS-20148
	S/Sys	83-40	: Normal Lighting Upper Deck			Module	UD
TASK	code	C10000693		Location	Onshore Activities	User	Rosetti Marino Quality Control
FORM	Process	MC	Activity CCK	Discipline	Electrical	Form	CPX09 LV Power Cable

CONTINUITY				
5	CORE CONTINUITY Ω	PH 1	0,10	
6		PH 2	0,10	
7		PH 3	NA	
8	ARMOUR CONTINUITY Ω		0,10	
9	PROTECTIVE CONDUCTOR CONTINUITY Ω		0,10	
INSULATION				
10	CORES / ARMOUR+EARTH MΩ	PH1 / PH2-PH3-A-E	>1999	
11		PH2 / PH1-PH3-A-E	>1999	
12		PH3 / PH1-PH2-A-E	NA	
13	CABLE IS CORRECTLY RE-CONNECTED.		Yes	

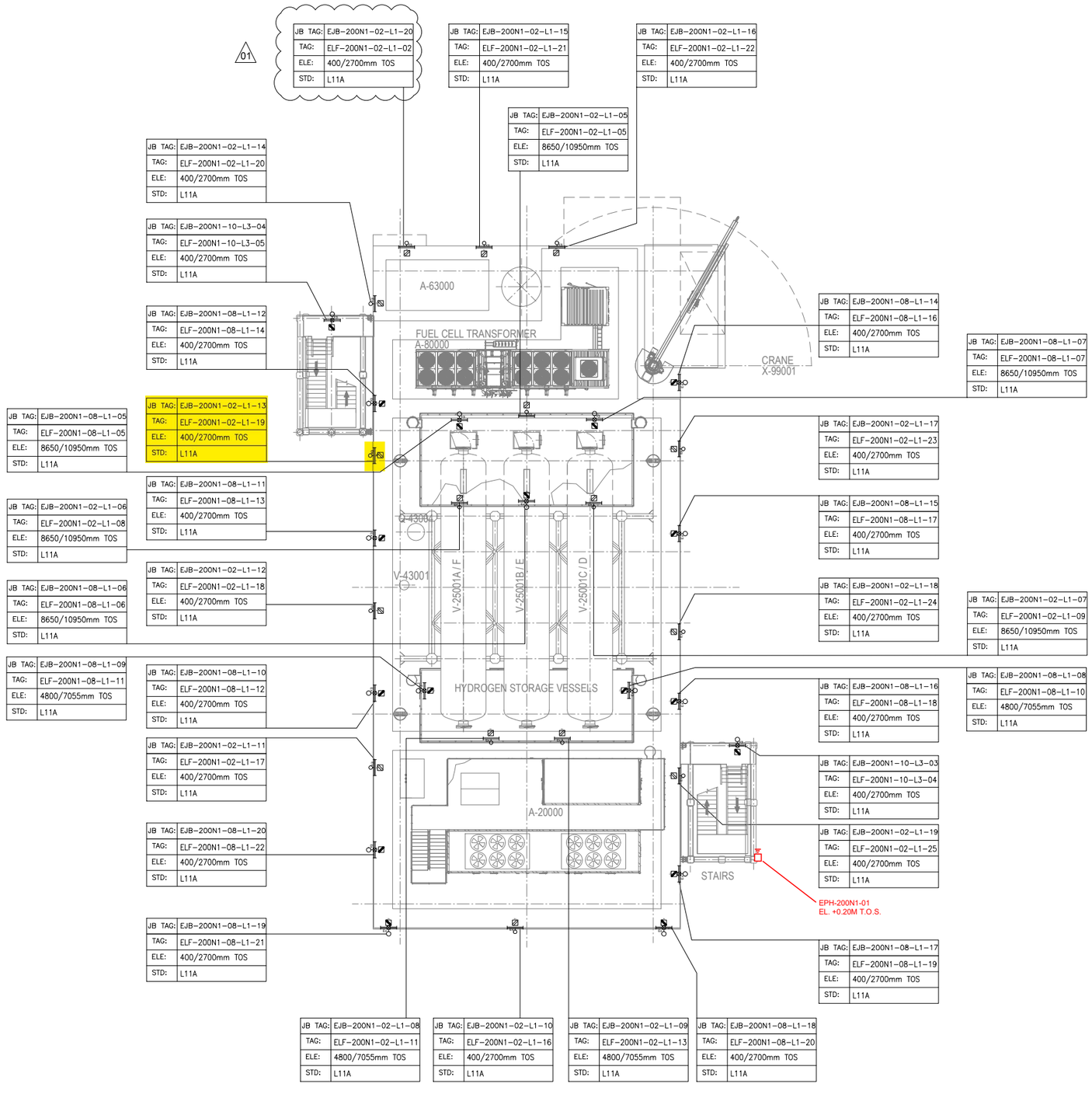
TESTING INSTRUMENTS USED			
TYPE / SERIAL N° :	MEGGER : KEW3125A SERIAL: W8330207	TYPE / SERIAL N° :	MULTIMETER: FLUKE 175 SERIAL:AW1/018(17140769)
Calibration certificate N° and date:	N°7722/24 _ 10/07/2024	Calibration certificate N° and date:	N°7715/24 _ 10/07/2024

Comments: Nota 4: refer to PL C30000679

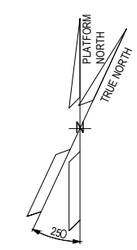
	Performed by	● WITNESS ☐ REVIEW	☐ WITNESS ☐ REVIEW
Company	ICS IMPIANTI	RM(ROSETTI MARINO)	
Name	Michele Tartaglia	Alessio Polo	
Date	2025-01-08	2025-01-10	
Signature	PROVERLIS Digitaly signed by Michele Tartaglia 2025-01-08T09:57:36.761Z	PROVERLIS Digitaly signed by Alessio Polo 2025-01-10T14:42:30.160Z	

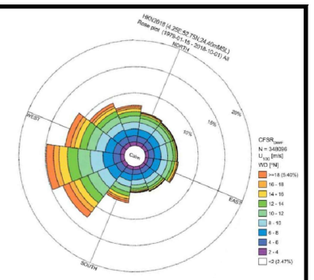
DRAWING NO. 123A90-DDL-EL-DL-20118

REV. 01



PLAN ON UPPER DECK
EL+30.310 T.O.S.





NOTES

1. ALL DIMENSIONS AND ELEVATIONS ARE GIVEN IN mm UNLESS OTHERWISE NOTED.
2. ELEVATIONS REFER TO T.O.S.
3. ELEVATION OF THE LAMPS ARE REFFERED TO THE BOTTOM OF THE LAMP.
4. FOR THE ELEVATION OF JB, REFER TO THE TYPICAL INSTALLATION.

LEGEND

- EMERGENCY LIGHTING JB
- 60W LED EMERGENCY LUMINARIES
- 60W LED EMERGENCY LUMINARIES FIXTURE POLE MOUNTED
- NORMAL LIGHTING JB
- 45W LED NORMAL LUMINARIES
- 45W LED NORMAL LUMINARIES FIXTURE POLE MOUNTED
- WELDING SOCKET WITH INTEGRATED JB
- SMALL POWER SOCKET WITH INTEGRATED JB
- TWILIGHT RELAY SENSOR

JB TAG:	JB-TAG
TAG:	TAG
ELE:	ELEVATION
STD:	STANDARD

VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DL-20118**

REV.:	DATE:	SIGNATURE:
1_B	22/10/24	G.Randi

ROSETTI MARINO SpA

REFERENCE DOCUMENTS

123A90-DDL-PP-DL-70070	PLOT PLAN - LOWER & UPPER DECK
123A90-DDL-EL-DL-20100	ELECTRICAL EQUIPMENT LAYOUT - TOP DECK
123A90-DDL-EL-DD-20091	ELECTRICAL TYPICAL INSTALLATION DETAILS - LIGHTING SYSTEM
123A90-DDL-EL-DD-20092	ELECTRICAL TYPICAL INSTALLATION DETAILS - POWER SYSTEM & CABLE INSTALLATION
123A90-DDL-EL-RE-20153	LIGHTING CALCULATION STUDY REPORT

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	02/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	28/05/24	ASR	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND | ROSETTI MARINO

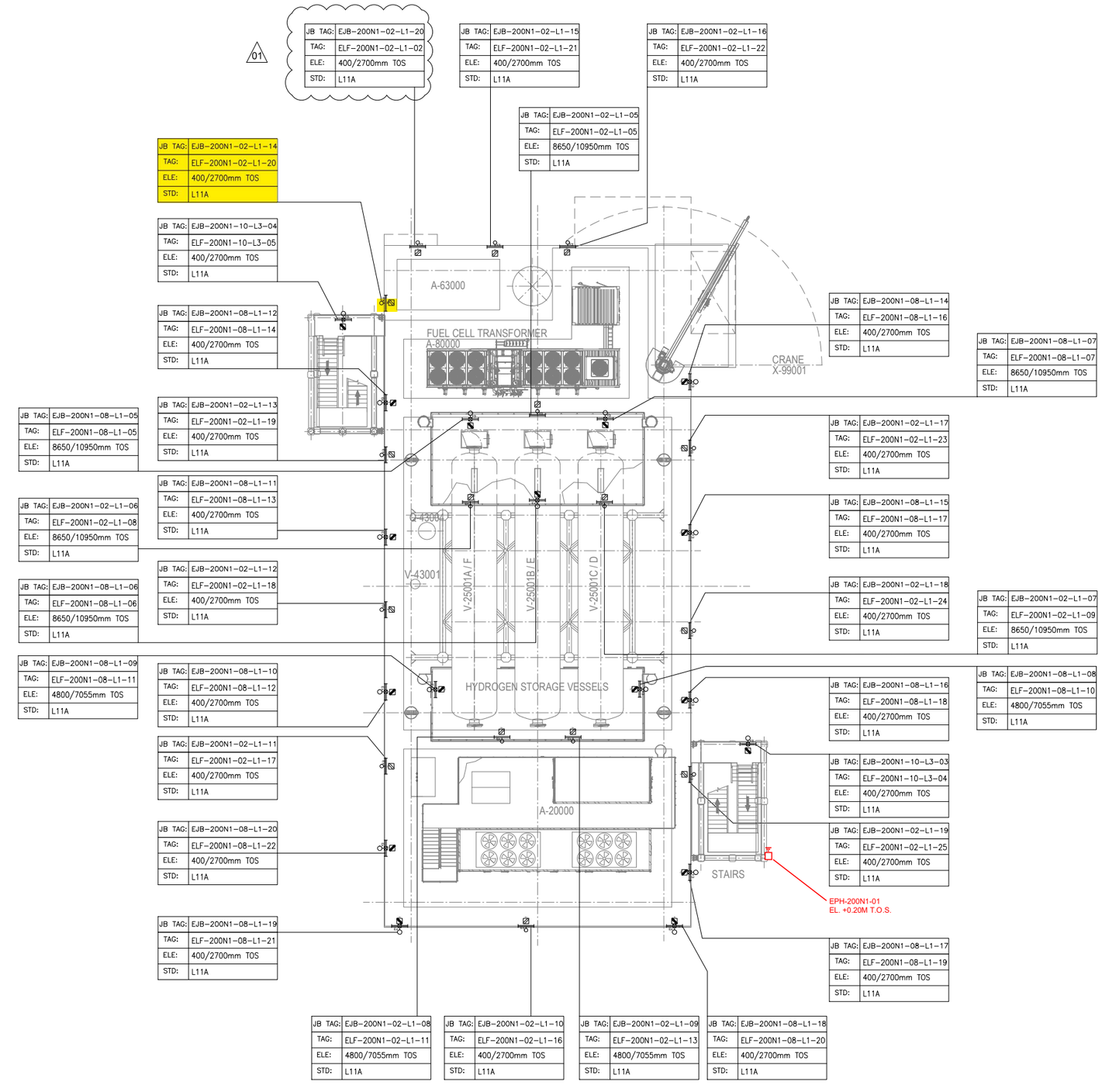
TITLE :
BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET LAYOUT – TOP DECK

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK			SCALE 1:150
DRAWN ASR	CHECKED FMA/AMA	APPROVED FPA/DLO	DATE 01/08/24
A1	DRAWING NO. 123A90-DDL-EL-DL-20118	SHEET 1of2	REV. 01

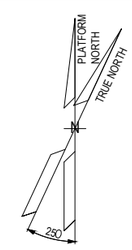
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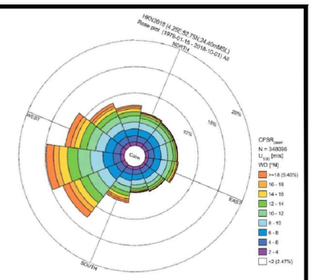
DRAWING NO. 123A90-DDL-EL-DL-20118

REV. 01



PLAN ON UPPER DECK
EL+30.310 T.O.S.





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- 60W LED EMERGENCY LUMINARIES FIXTURE POLE MOUNTED
- NORMAL LIGHTING JB
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- WELDING SOCKET WITH INTEGRATED JB
- SMALL POWER SOCKET WITH INTEGRATED JB
- TWILIGHT RELAY SENSOR

JB TAG:	JB-TAG
TAG:	TAG
ELE:	ELEVATION
STD:	STANDARD

VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DL-20118**

REV.:	DATE:	SIGNATURE:
1_B	22/10/24	G.Randi

ROSETTI MARINO SpA

REFERENCE DOCUMENTS

123A90-DDL-PP-DL-70070	PLOT PLAN - LOWER & UPPER DECK
123A90-DDL-EL-DL-20100	ELECTRICAL EQUIPMENT LAYOUT - TOP DECK
123A90-DDL-EL-DD-20091	ELECTRICAL TYPICAL INSTALLATION DETAILS - LIGHTING SYSTEM
123A90-DDL-EL-DD-20092	ELECTRICAL TYPICAL INSTALLATION DETAILS - POWER SYSTEM & CABLE INSTALLATION
123A90-DDL-EL-RE-20153	LIGHTING CALCULATION STUDY REPORT

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	02/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	28/05/24	ASR	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

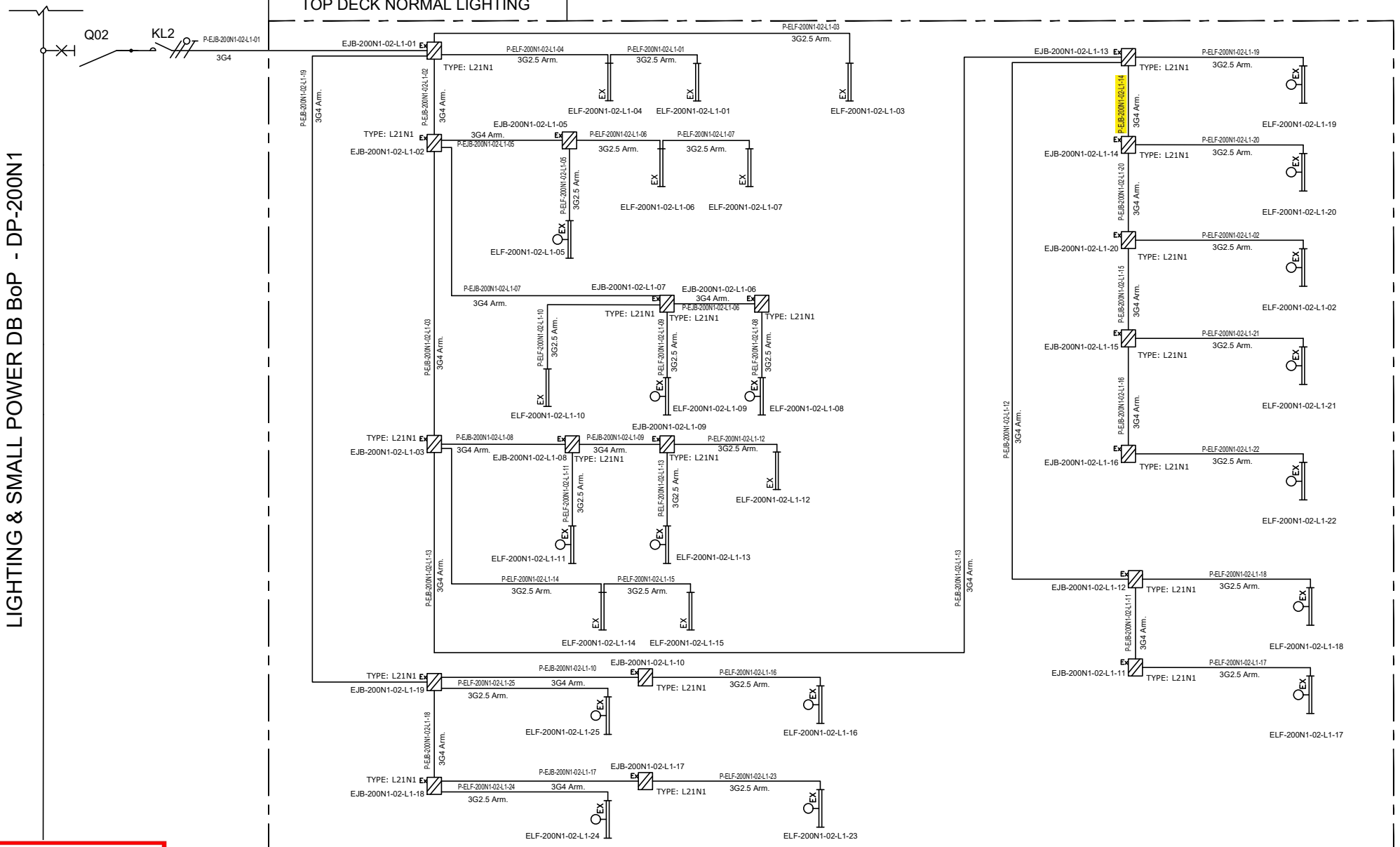
CROSSWIND | ROSETTI MARINO

TITLE :
BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET LAYOUT – TOP DECK

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK			SCALE 1:150
DRAWN ASR	CHECKED FMA/AMA	APPROVED FPA/DLO	DATE 01/08/24
A1	DRAWING NO. 123A90-DDL-EL-DL-20118	SHEET 1of2	REV. 01

File Name : 123A90-DDL-EL-DL-20118

LIGHTING & SMALL POWER DB BoP - DP-200N1



VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DG-20125**

REV.:	DATE:	SIGNATURE:
2_C	20/12/24	V.Ramponi

ROSETTI MARINO SpA

CROSSWIND

ROSETTI MARINO

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	08/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	01/07/24	ASR	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

TITLE : BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET CIRCUIT DIAGRAM
TOP DECK–NORMAL LIGHTING

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

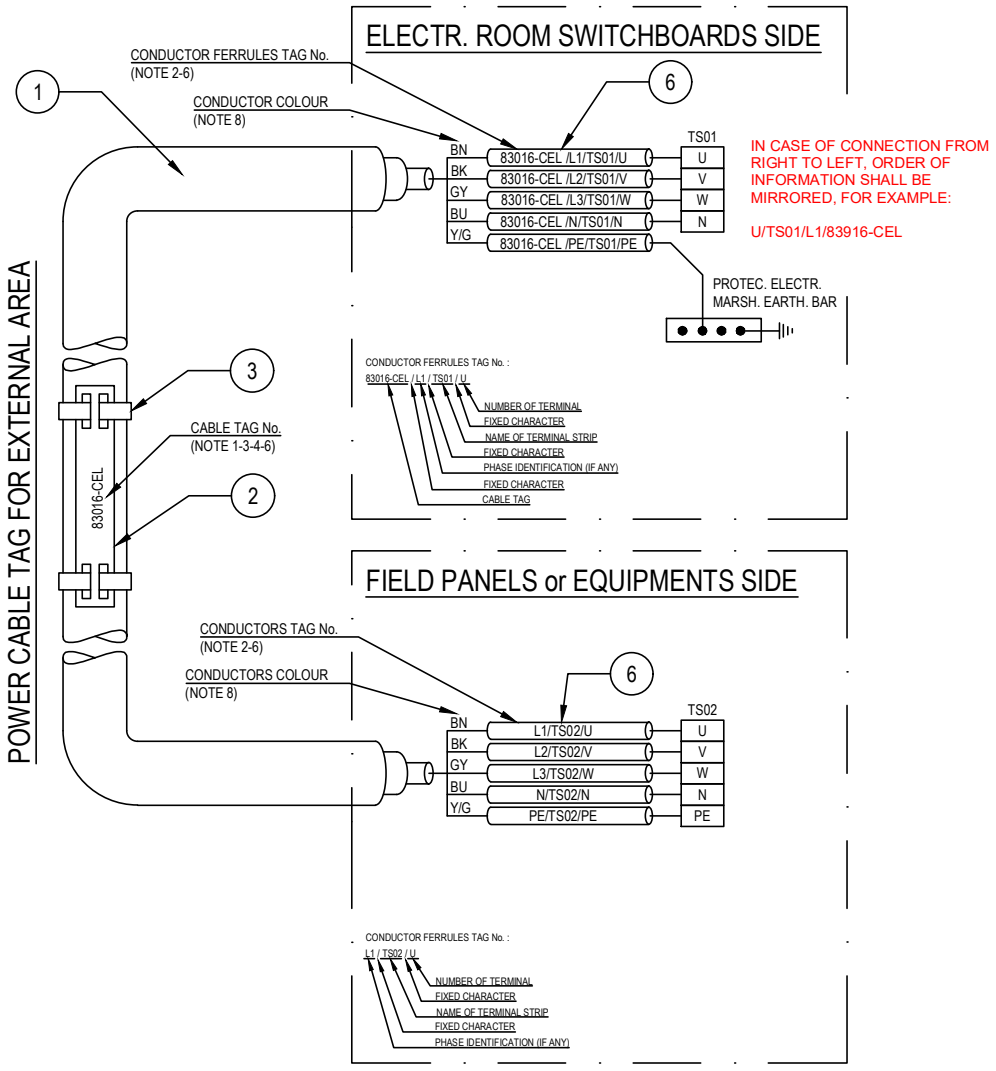
SCALE : NTS

A3	DRAWING NO.	SHEET	REV.
	123A90–DDL–EL–DG–20125	010	01

F.to UNI A3: 420mmx297mm

File Name : 123A90–DDL–EL–DG–20125

C02



POS.	DESCRIPTION	MATERIAL	SIZE	Q.TY	NOTE
1	UNARMOURED CABLE				
2	CABLE TAG FOR EXTERNAL AREA	HDG/SS			NOTE 1 NOTE 4
3	TIE FOR CABLE TAG IN EXTERNAL AREA	HDG/SS			
4	CABLE TAG FOR INTERNAL AREA	PVC			NOTE 1 NOTE 5
5	TIE FOR CABLE TAG IN INTERNAL AREA	NYLON 6.6			
6	CORE FERRULES	PVC			

NOTES:

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3) ON CABLE TRAYS OR LADDERS, CABLES SHALL BE IDENTIFIED AT EACH END, AND EVERY 25 METERS.

4) THE CABLE TAG FOR EXTERNAL AREA SHALL DONE BY 316L STAINLESS STEEL LABELS, TAG (H=5mm) SHALL BE LASER PRINTED PREFERABLY OR EMBOSSED, LABEL HELD BY TWO 316L STAINLESS STEEL TIES.

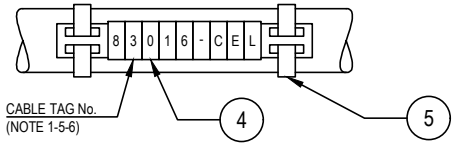
5) THE CABLE TAG FOR INTERNAL AREA SHALL BE DONE BY ENGRAVED PLASTIC SLIP ON CHARACTERS ONTO PLASTIC TIE, BLACK LETTER (H=5mm) ON WHITE.

6) CABLE AND CONDUCTOR TAG ARE INDICATIVE ONLY.

7) WITHIN TECHNICAL BUILDING, PROTECTIVE CONDUCTOR SHALL BE TAGGED BETWEEN FOLLOWING ITEMS:
- PANEL (SWITCHBOARD, SWITCHGEAR, DISTRIBUTION BOARD, ETC) AND EARTH BAR
- EARTH BAR AND EARTH BOSS

8) ONLY IF NECESSARY, SHRINK TUBES OF THE APPROPRIATE COLOR WILL BE INSTALLED TO COVER THE WRONG CONDUCTOR COLOR, THIS WILL BE PERFORMED IN EACH SIDE OF THE CABLES WHERE NECESSARY.

POWER CABLE TAG FOR INTERNAL AREA



VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DD-20092**

REV.:	DATE:	SIGNATURE:
2_D	20/12/24	V.Ramponi

ROSETTI MARINO SpA

CROSSWIND

ROSETTI MARINO

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	28/08/24	GRA	AMA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	04/07/24	NLK	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	21/11/23	SPS	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL TYPICAL INSTALLATION DETAILS-POWER SYSTEM & CABLE INSTALLATION
CABLES INSTALLATION SYSTEM IDENTIFICATION FOR POWER CABLES

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK | SCALE : NTS

A3 | DRAWING NO. 123A90-DDL-EL-DD-20092 | SHEET 007 | REV. 02

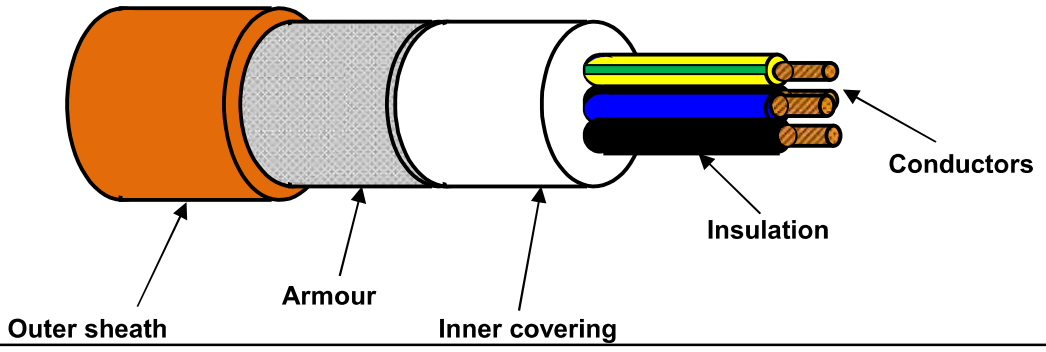
F.to UNI A3: 420mmx297mm

File Name : 123A90-DDL-EL-DD-20092 REV.02.DWG

Tag Number	Category	Disciplir	Eng Statu	NativeDoc	Layout	Parent Tag	Main Function	Secondary Fun	Area	From Tag	From Main Function	From Area	To Tag	To Main Function	To Area	Material ID	Material Desc.	Gland Standard	From Glan	From Entry	From Fitt	To Gland	To Entry	To Fitting	Routing	Routing Manual
P-EJB-200N1-02-L1-14	Cable	LSP	VFC	123A90-DDL-EL-LIS-20148						EJB-200N1-02-L1-13	Normal Lighting JB	Upper Deck	EJB-200N1-02-L1-14	Normal Lighting JB	Upper Deck	ELECV38-3G4	Cable Cu Cl.2/MGT/EPR/LSZH/GSWB/LSZH 0,6/1kV 3G4mm² - Orange	M20	T2_M20_ Double			T2_M20_Double				L-150-102-LVT-006 / L-150-102-LVT-005

Cu Cl.2/MGT/EPR/LSZH/GSWB/LSZH 0,6/1 KV

3G4 - L.V. POWER CABLE - Fire Resistant & Flame Retardant - ARMOURED



TECHNICAL FEATURES

Conductors :	**STRANDED** plain/bare annealed copper wires	IEC 60228 Class 2
Insulation :	Mica/Glass Tape (MGT) plus EPR compound, quality to IEC 60092.360, Nominal Thickness 1,0 mm	
Cores colour code :	**Brown - Blue - Yellow/Green**	
Pair Assembling :	Not required	
Pair Wrapping:	Not required	
Drain wire :	Not required	
Pair Shield :	Not required	
Shield Insulation :	Not Required	
Total Assembling :	Cores layed up with optimal lay length	
Overall Wrapping:	Not required	
Drain wire :	Not required	
Overall Shield:	Not required	
Inner covering :	Extruded LSZH compound, Average Thickness 1,0 mm	
Inner covering color code:	**Black or Natural**	
Armour :	**Galvanized Steel Wire Braid Armour (coverage ≥ 90%)**	
Outer sheath :	Extruded LSZH Thermoplastic Compound (O.I. ≥ 30%), type **SHF1** to IEC 60093.360, Average Thickness 1,4 mm	
Outer sheath color code:	**Orange**	
Outer printing (INKJET) :	**FLEI - ELECTRIC CABLE - 1000V - 3G4 SQMM - MGT/EPR/LSZH/GSWB/LSZH - 0,6/1 KV - IEC 60331.21 -**	
	IEC 60332.1.2 - IEC 60332.3.22 - Year of Manufacture - CE + Meter Marking	
Under Armour diameter :	(13,0 ± 10%) mm	
Over Armour diameter :	(14,2 ± 10%) mm	
Outer diameter :	(17,0 ± 10%) mm	
Bending radius :	cable outer diameter x 10	(in fixed installation)
Voltage test :	3,5 kV a.c. for 5' (Between Cores - Armour)	
Conductors DC Resistance :		IEC 60228 Class 2
Insulation Resistance :	≥ 790 MΩ x Km (@ 20°C)	
Applicable Standards		
Design Guidelines :	**IEC 60092.353**	
ON COMPLETE CABLE		
Fire Resistant test :	**IEC 60331.21**	
Flame Retardant test :	IEC 60332.1.2 - IEC 60332.3.22	
Acid Gas generation :	IEC 60754.1/2	
Smoke density/Light Transmittance	IEC 61034.2 (LT ≥ 60%)	
Temperature Range :		
ON INSULATION	(max +90°C)	(max continuous operation temperature of conductors)
	(max +250°C)	(max conductors temperature during short-circuit for 5 seconds)
ON COMPLETE CABLE		
During Operation :	(-20°C up to +90°C)	(in fixed installation)
During installation :	(- 5°C up to +50°C)	
Note :	**To meet the requirements of installation and use in Zone 1 & Zone 2 (IEC 60079-14) and "Gas & Vapour Tight" the cable must be provided with Penetrating Inner covering together with correct ATEX approved equipment or accessories.**	

Office	Date	Sign	Rev.	Date	Sign
Drawn by :	29/03/2024	Messa			
Checked :	29/03/2024	Spaccasassi			
Approved :	29/03/2024	Cucinotta			

The data provided, lending assent for the treatment, will be used to the sense of the article 13 of of the Regulation (UE) 2016/679, also through outsiders, in order to allow the realization of the fulfilments informatives, administrative, commercial and accounting related to the contractual relationship. Integral copy of the informative could be requested at our offices.

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ITEM	Tag	P-ELF-200N1-02-L1-20	: Normal Lighting JB / Normal Lighting Fixture			Dwg	123A90-DDL-EL-LIS-20148
	S/Sys	83-40	: Normal Lighting Upper Deck			Module	UD
TASK	code	C10000694		Location	Onshore Activities	User	Rosetti Marino Quality Control
FORM	Process	MC	Activity CCK	Discipline	Electrical	Form	CPX09 LV Power Cable

CABLE DATA

Type Cu Cl.2/MGT/EPR/LSZH/GSWB/LSZH Cores/Size mm² 3G2,5 mm2 Color ORANGE

From EJB-200N1-02-L1-14 To ELF-200N1-02-L1-20

1	Confirm cable is as specified in project cable schedule	OK
2	Visual Check cable physical integrity.	OK
3	Check is installed in accordance with layout drawing (segregation, distance…).	PL
4	Check cable is supported and fixed to rack according to project specification.	Note
5	Check bending radius is within the specified limits.	OK
6	Confirm cable glands suit for cable type, correctly mounted and tightened.	PL
7	Check gland plate for single core cables is non ferrous (non -magnetic).	NA
8	Confirm cable labelling is in accordance with specifications.	PL
9	Check cable is correctly loomed and segregated in accordance with specification.	OK
10	Check cable earthing against lastest drawings.	OK
11	Check cores marking are in accordance with termination diagram	PL
12	Check terminations are in accordance with latest termination diagram	OK
13	If required produce Red Line Mark Up for "AS BUILT"	

ROSETTI MARINO PROVERLIS CROSSWIND

ITEM	Tag	P-ELF-200N1-02-L1-20	: Normal Lighting JB / Normal Lighting Fixture			Dwg	123A90-DDL-EL-LIS-20148
	S/Sys	83-40	: Normal Lighting Upper Deck			Module	UD
TASK	code	C10000694		Location	Onshore Activities	User	Rosetti Marino Quality Control
FORM	Process	MC	Activity CCK	Discipline	Electrical	Form	CPX09 LV Power Cable

CONTINUITY				
5	CORE CONTINUITY Ω	PH 1	0,2	
6		PH 2	0,2	
7		PH 3	NA	
8	ARMOUR CONTINUITY Ω		0,2	
9	PROTECTIVE CONDUCTOR CONTINUITY Ω		0,2	
INSULATION				
10	CORES / ARMOUR+EARTH MΩ	PH1 / PH2-PH3-A-E	>999	
11		PH2 / PH1-PH3-A-E	>999	
12		PH3 / PH1-PH2-A-E	NA	
13	CABLE IS CORRECTLY RE-CONNECTED.		Yes	

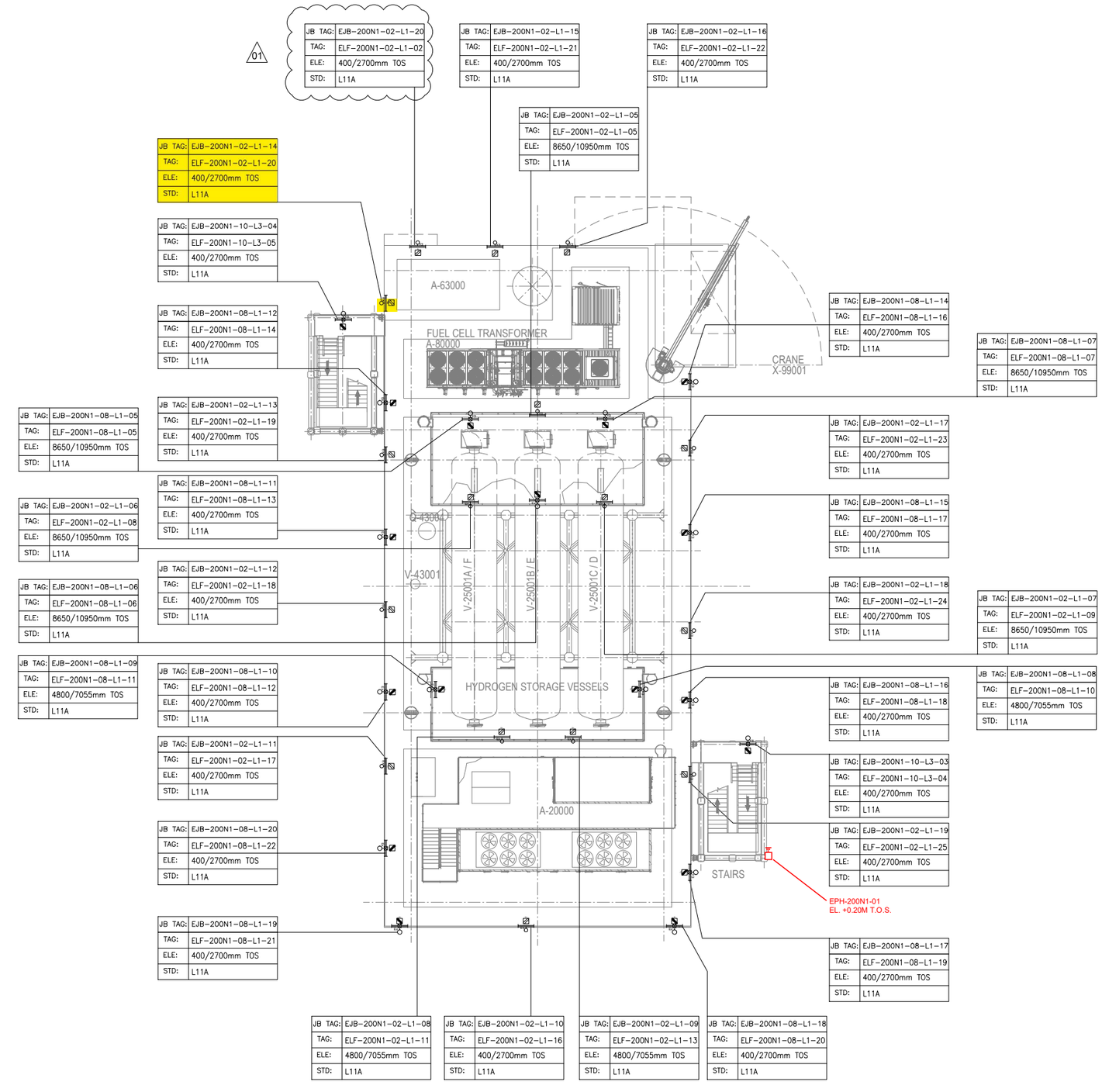
TESTING INSTRUMENTS USED			
TYPE / SERIAL N° :	MEGGER : KEW3125A SERIAL: W8330207	TYPE / SERIAL N° :	MULTIMETER: FLUKE 175 SERIAL:AW1/018(17140769)
Calibration certificate N° and date:	N°7722/24 _ 10/07/2024	Calibration certificate N° and date:	N°7715/24 _ 10/07/2024

Comments: Nota 4: refer to PL C30000679

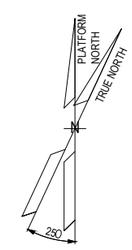
	Performed by	● WITNESS ☐ REVIEW	☐ WITNESS ☐ REVIEW
Company	ICS IMPIANTI	RM(ROSETTI MARINO)	
Name	Francesco Zucca	Luca Mussi	
Date	2024-12-05	2024-12-06	
Signature	PROVERLIS Digitaly signed by Francesco Zucca 2024-12-05T18:10:51.742Z	PROVERLIS Digitaly signed by Luca Mussi 2024-12-06T17:22:48.161Z	

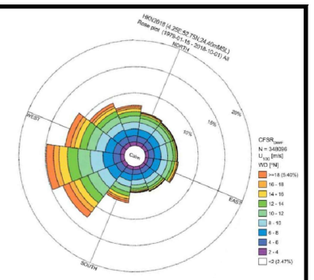
DRAWING NO. 123A90-DDL-EL-DL-20118

REV. 01



PLAN ON UPPER DECK
EL+30.310 T.O.S.





NOTES

1. ALL DIMENSIONS AND ELEVATIONS ARE GIVEN IN mm UNLESS OTHERWISE NOTED.
2. ELEVATIONS REFER TO T.O.S.
3. ELEVATION OF THE LAMPS ARE REFFERED TO THE BOTTOM OF THE LAMP.
4. FOR THE ELEVATION OF JB, REFER TO THE TYPICAL INSTALLATION.

LEGEND

- EMERGENCY LIGHTING JB
- 60W LED EMERGENCY LUMINARIES
- 60W LED EMERGENCY LUMINARIES FIXTURE POLE MOUNTED
- NORMAL LIGHTING JB
- 45W LED NORMAL LUMINARIES
- 45W LED NORMAL LUMINARIES FIXTURE POLE MOUNTED
- WELDING SOCKET WITH INTEGRATED JB
- SMALL POWER SOCKET WITH INTEGRATED JB
- TWILIGHT RELAY SENSOR

JB TAG:	JB-TAG
TAG:	TAG
ELE:	ELEVATION
STD:	STANDARD

VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DL-20118**

REV.:	DATE:	SIGNATURE:
1_B	22/10/24	G.Randi

ROSETTI MARINO SpA

REFERENCE DOCUMENTS

123A90-DDL-PP-DL-70070	PLOT PLAN - LOWER & UPPER DECK
123A90-DDL-EL-DL-20100	ELECTRICAL EQUIPMENT LAYOUT - TOP DECK
123A90-DDL-EL-DD-20091	ELECTRICAL TYPICAL INSTALLATION DETAILS - LIGHTING SYSTEM
123A90-DDL-EL-DD-20092	ELECTRICAL TYPICAL INSTALLATION DETAILS - POWER SYSTEM & CABLE INSTALLATION
123A90-DDL-EL-RE-20153	LIGHTING CALCULATION STUDY REPORT

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	02/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	28/05/24	ASR	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND | ROSETTI MARINO

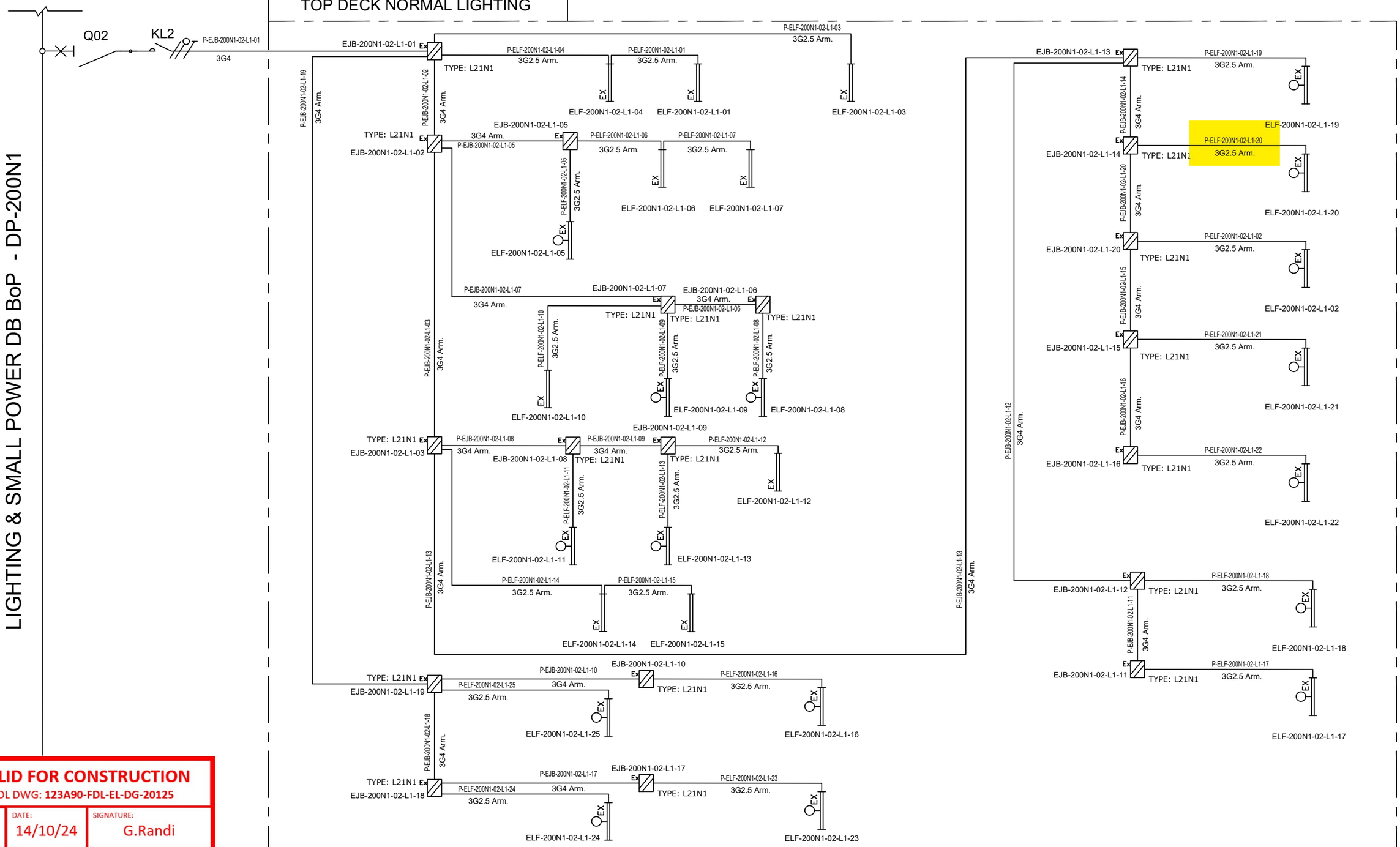
TITLE :
BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET LAYOUT – TOP DECK

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK			SCALE 1:150
DRAWN ASR	CHECKED FMA/AMA	APPROVED FPA/DLO	DATE 01/08/24
A1	DRAWING NO. 123A90-DDL-EL-DL-20118	SHEET 1of2	REV. 01

File Name : 123A90-DDL-EL-DL-20118

LIGHTING & SMALL POWER DB BoP - DP-200N1

TOP DECK NORMAL LIGHTING



VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DG-20125**

REV.:	DATE:	SIGNATURE:
1_B	14/10/24	G.Randi

ROSETTI MARINO SpA

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	08/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	01/07/24	ASR	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

TITLE : BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET CIRCUIT DIAGRAM
TOP DECK–NORMAL LIGHTING

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE : NTS

A3

DRAWING NO. 123A90-DDL-EL-DG-20125

SHEET 010

REV. 01

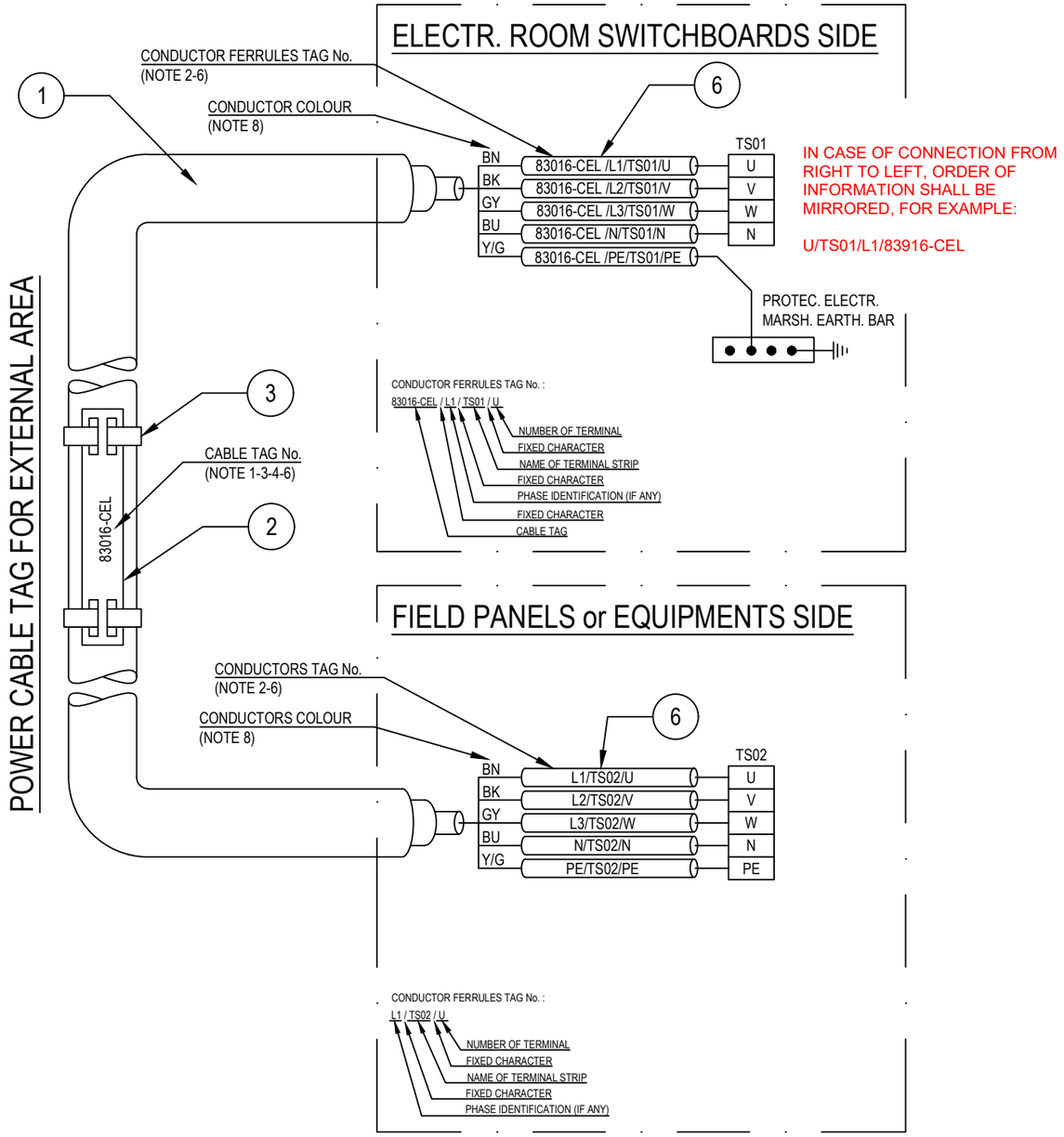
CROSSWIND

ROSETTI MARINO

F.to UNI A3: 420mmx297mm

File Name : 123A90-DDL-EL-DG-20125

C02



POS.	DESCRIPTION	MATERIAL	SIZE	Q.TY	NOTE
1	UNARMOURED CABLE				
2	CABLE TAG FOR EXTERNAL AREA	HDG/SS			NOTE 1 NOTE 4
3	TIE FOR CABLE TAG IN EXTERNAL AREA	HDG/SS			
4	CABLE TAG FOR INTERNAL AREA	PVC			NOTE 1 NOTE 5
5	TIE FOR CABLE TAG IN INTERNAL AREA	NYLON 6.6			
6	CORE FERRULES	PVC			

NOTES:

1) ALL CABLES SHALL BE IDENTIFIED AT EACH TERMINATION AND EACH SIDE OF ANY OBSTACLE (E.G. CABLE TRANSIT ON WALLS INSIDE SHELTER AND FLOOR DECK CROSSING, BY THEIR RESPECTIVE TAGS/NUMBERS, AS INDICATED ON THE CABLE SCHEDULE.
CABLE IDENTIFICATION SHALL BE ALSO DONE BELOW AND IN THE SWITCHBOARD CABLE COMPARTMENT.

2) CABLE CORE FERRULES SHALL BE FITTED AT EVERY TERMINATION. THESE FERRULES SHALL BE OF ENGRAVED PLASTIC SLIP ON, INTERLOCKED AND SELF GRIP TYPE.

3) ON CABLE TRAYS OR LADDERS, CABLES SHALL BE IDENTIFIED AT EACH END, AND EVERY 25 METERS.

4) THE CABLE TAG FOR EXTERNAL AREA SHALL DONE BY 316L STAINLESS STEEL LABELS, TAG (H=5mm) SHALL BE LASER PRINTED PREFERABLY OR EMBOSSED, LABEL HELD BY TWO 316L STAINLESS STEEL TIES.

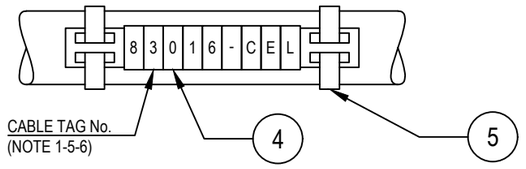
5) THE CABLE TAG FOR INTERNAL AREA SHALL BE DONE BY ENGRAVED PLASTIC SLIP ON CHARACTERS ONTO PLASTIC TIE, BLACK LETTER (H=5mm) ON WHITE.

6) CABLE AND CONDUCTOR TAG ARE INDICATIVE ONLY.

7) WITHIN TECHNICAL BUILDING, PROTECTIVE CONDUCTOR SHALL BE TAGGED BETWEEN FOLLOWING ITEMS:
- PANEL (SWITCHBOARD, SWITCHGEAR, DISTRIBUTION BOARD, ETC) AND EARTH BAR
- EARTH BAR AND EARTH BOSS

8) ONLY IF NECESSARY, SHRINK TUBES OF THE APPROPRIATE COLOR WILL BE INSTALLED TO COVER THE WRONG CONDUCTOR COLOR, THIS WILL BE PERFORMED IN EACH SIDE OF THE CABLES WHERE NECESSARY.

POWER CABLE TAG FOR INTERNAL AREA



VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DD-20092**

REV.:	DATE:	SIGNATURE:
2_B	28/11/24	G.Randi

ROSETTI MARINO SpA

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	28/08/24	GRA	AMA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	04/07/24	NLK	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	21/11/23	SPS	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL TYPICAL INSTALLATION DETAILS-POWER SYSTEM & CABLE INSTALLATION
CABLES INSTALLATION SYSTEM IDENTIFICATION FOR POWER CABLES

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK | SCALE : NTS

A3	DRAWING NO.	SHEET	REV.
	123A90-DDL-EL-DD-20092	007	02

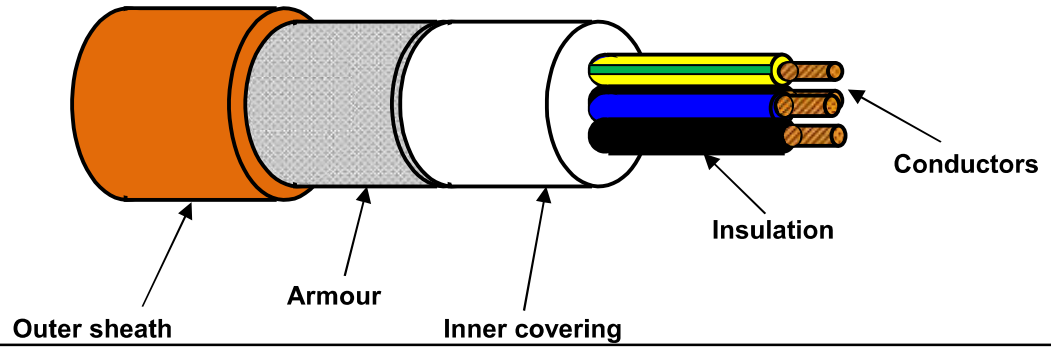
F.to UNI A3: 420mmx297mm

File Name : 123A90-DDL-EL-DD-20092 REV.02.DWG

Tag Number	Category	Discipline	Eng Status	NativeDoc	Layout	Parent Tag	Main Function	Secondary Function	Area	From Tag	From Main Function	From Area	To Tag	To Main Function	To Area	Material ID	Material Desc.	Gland Standard	From Gland	From Entry	From Fitting	To Gland	To Entry	To Fitting	Routing	Routing Manual
P-ELF-200N1-02-L1-20	Cable	LSP	VFC	123A90-DDL-EL-LIS-20148						EJB-200N1-02-L1-14	Normal Lighting JB	Upper Deck	ELF-200N1-02-L1-20	Normal Lighting Fixture	Upper Deck	ELECV19-3G2,5	Cable Cu Cl.2/MGT/EPR/LSZH/GSWB/LSZH 0,6/1kV 3G2,5mm² - Orange	M20	T2_M20_Double			T2_M20_Double				L-50-102-LVT-026

Cu Cl.2/MGT/EPR/LSZH/GSWB/LSZH 0,6/1 KV

3G2,5 - L.V. POWER CABLE - Fire Resistant & Flame Retardant - ARMOURED



TECHNICAL FEATURES

Conductors :	**STRANDED** plain/bare annealed copper wires	IEC 60228 Class 2
Insulation :	Mica/Glass Tape (MGT) plus EPR compound, quality to IEC 60092.360, Nominal Thickness 1,0 mm	
Cores colour code :	**Brown - Blue - Yellow/Green**	
Pair Assembling :	Not required	
Pair Wrapping:	Not required	
Drain wire :	Not required	
Pair Shield :	Not required	
Shield Insulation :	Not Required	
Total Assembling :	Cores layed up with optimal lay length	
Overall Wrapping:	Not required	
Drain wire :	Not required	
Overall Shield:	Not required	
Inner covering :	Extruded LSZH compound, Average Thickness 1,0 mm	
Inner covering color code:	**Black or Natural**	
Armour :	**Galvanized Steel Wire Braid Armour (coverage ≥ 90%)**	
Outer sheath :	Extruded LSZH Thermoplastic Compound (O.I. ≥ 30%), type **SHF1** to IEC 60093.360, Average Thickness 1,3 mm	
Outer sheath color code:	**Orange**	
Outer printing (INKJET) :	**FLEI - ELECTRIC CABLE - 1000V - 3G2,5 SQMM - MGT/EPR/LSZH/GSWB/LSZH - 0,6/1 KV - IEC 60331.21 - IEC 60332.1.2 - IEC 60332.3.22 - Year of Manufacture - CE + Meter Marking**	
Under Armour diameter :	(11,7 ± 10%) mm	
Over Armour diameter :	(12,9 ± 10%) mm	
Outer diameter :	(15,5 ± 10%) mm	
Bending radius :	cable outer diameter x 10	(in fixed installation)
Voltage test :	3,5 kV a.c. for 5' (Between Cores - Armour)	
Conductors DC Resistance :		IEC 60228 Class 2
Insulation Resistance :	≥ 940 MΩ x Km (@ 20°C)	
Applicable Standards		
Design Guidelines :	**IEC 60092.353**	
ON COMPLETE CABLE		
Fire Resistant test :	**IEC 60331.21**	
Flame Retardant test :	IEC 60332.1.2 - IEC 60332.3.22	
Acid Gas generation :	IEC 60754.1/2	
Smoke density/Light Transmittance	IEC 61034.2 (LT ≥ 60%)	
Temperature Range :		
ON INSULATION	(max +90°C)	(max continuous operation temperature of conductors)
	(max +250°C)	(max conductors temperature during short-circuit for 5 seconds)
ON COMPLETE CABLE		
During Operation :	(-20°C up to +90°C)	(in fixed installation)
During installation :	(- 5°C up to +50°C)	
Note :	**To meet the requirements of installation and use in Zone 1 & Zone 2 (IEC 60079-14) and "Gas & Vapour Tight" the cable must be provided with Penetrating Inner covering together with correct ATEX approved equipment or accessories.**	

Office	Date	Sign	Rev.	Date	Sign
Drawn by :	29/03/2024	Messa			
Checked :	29/03/2024	Spaccasassi			
Approved :	29/03/2024	Cucinotta			

The data provided, lending assent for the treatment, will be used to the sense of the article 13 of of the Regulation (UE) 2016/679, also through outsiders, in order to allow the realization of the fulfilments informatives, administrative, commercial and accounting related to the contractual relationship. Integral copy of the informative could be requested at our offices.

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ITEM	Tag	P-EJB-200N1-02-L1-15	: Normal Lighting JB / Normal Lighting JB			Dwg	123A90-DDL-EL-LIS-20148
	S/Sys	83-40	: Normal Lighting Upper Deck			Module	UD
TASK	code	C10000695		Location	Onshore Activities	User	Rosetti Marino Quality Control
FORM	Process	MC	Activity CCK	Discipline	Electrical	Form	CPX09 LV Power Cable

CABLE DATA

Type Cu Cl.2/MGT/EPR/LSZH/GSWB/LSZH Cores/Size mm² 3G4 mm2 Color ORANGE

From EJB-200N1-02-L1-20 To EJB-200N1-02-L1-15

1	Confirm cable is as specified in project cable schedule	OK
2	Visual Check cable physical integrity.	OK
3	Check is installed in accordance with layout drawing (segregation, distance…).	PL
4	Check cable is supported and fixed to rack according to project specification.	Note
5	Check bending radius is within the specified limits.	OK
6	Confirm cable glands suit for cable type, correctly mounted and tightened.	PL
7	Check gland plate for single core cables is non ferrous (non -magnetic).	NA
8	Confirm cable labelling is in accordance with specifications.	PL
9	Check cable is correctly loomed and segregated in accordance with specification.	OK
10	Check cable earthing against lastest drawings.	OK
11	Check cores marking are in accordance with termination diagram	PL
12	Check terminations are in accordance with latest termination diagram	OK
13	If required produce Red Line Mark Up for "AS BUILT"	

ITEM	Tag	P-EJB-200N1-02-L1-15	: Normal Lighting JB / Normal Lighting JB			Dwg	123A90-DDL-EL-LIS-20148
	S/Sys	83-40	: Normal Lighting Upper Deck			Module	UD
TASK	code	C10000695		Location	Onshore Activities	User	Rosetti Marino Quality Control
FORM	Process	MC	Activity CCK	Discipline	Electrical	Form	CPX09 LV Power Cable

	CONTINUITY			
5	CORE CONTINUITY Ω	PH 1	0,2	
6		PH 2	0,2	
7		PH 3	NA	
8	ARMOUR CONTINUITY Ω		0,2	
9	PROTECTIVE CONDUCTOR CONTINUITY Ω		0,2	
	INSULATION			
10	CORES / ARMOUR+EARTH MΩ	PH1 / PH2-PH3-A-E	>999	
11		PH2 / PH1-PH3-A-E	>999	
12		PH3 / PH1-PH2-A-E	NA	
13	CABLE IS CORRECTLY RE-CONNECTED.		Yes	

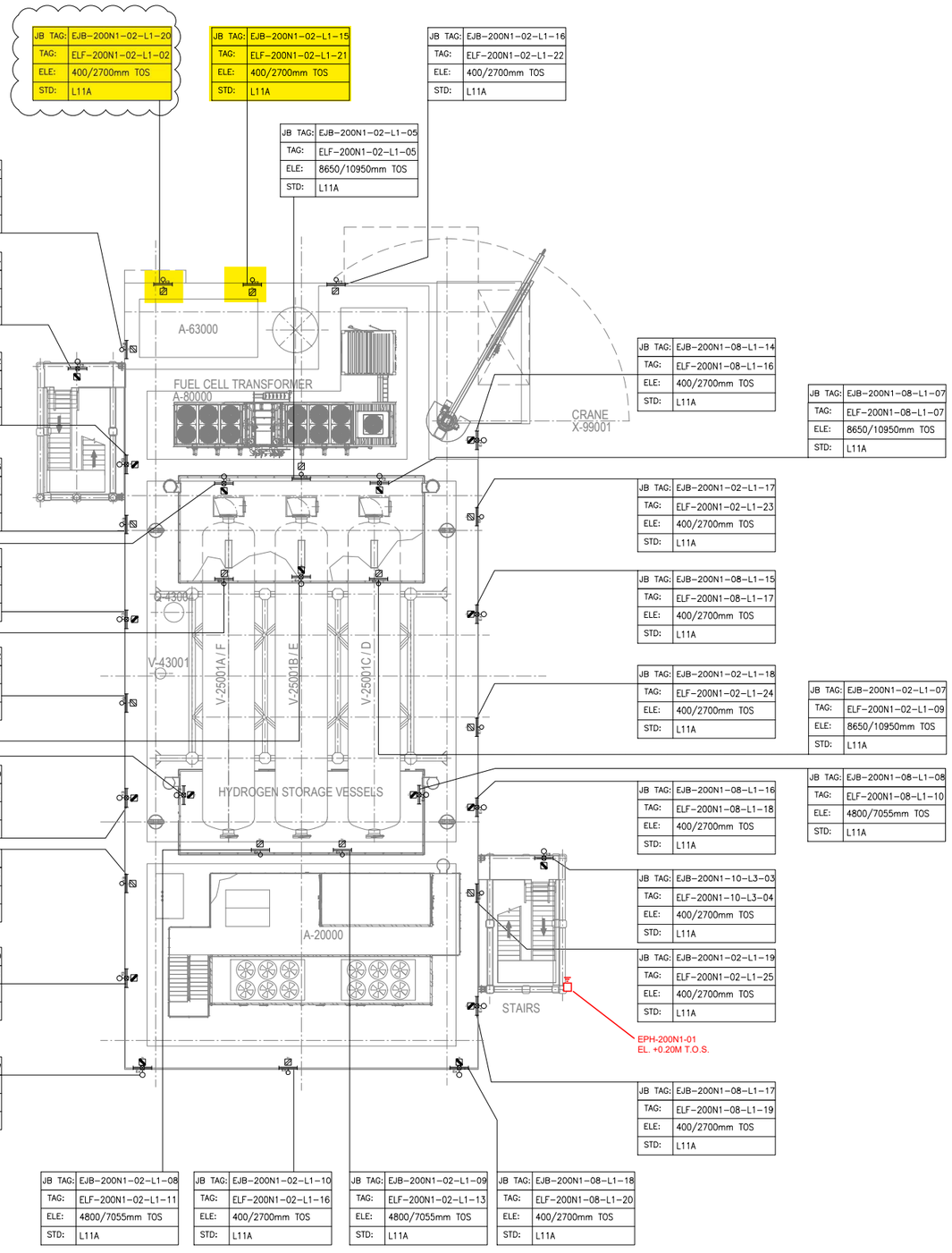
TESTING INSTRUMENTS USED			
TYPE / SERIAL N° :	MEGGER : KEW3125A SERIAL: W8330207	TYPE / SERIAL N° :	MULTIMETER: FLUKE 175 SERIAL:AW1/018(17140769
Calibration certificate N° and date:	N°7722/24 _ 10/07/2024	Calibration certificate N° and date:	N°7715/24 _ 10/07/2024

Comments: Nota 4: refer to PL C30000679

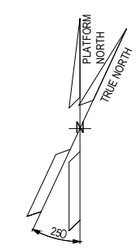
	Performed by	● WITNESS ☐ REVIEW	☐ WITNESS ☐ REVIEW
Company	ICS IMPIANTI	RM(ROSETTI MARINO)	
Name	Francesco Zucca	Luca Mussi	
Date	2024-12-02	2024-12-06	
Signature	PROVERLIS Digitaly signed by Francesco Zucca 2024-12-02T07:06:36.915Z	PROVERLIS Digitaly signed by Luca Mussi 2024-12-06T18:10:42.665Z	

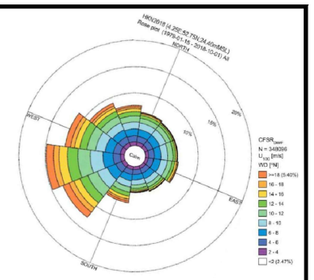
DRAWING NO. 123A90-DDL-EL-DL-20118

REV. 01



PLAN ON UPPER DECK
EL+30.310 T.O.S.





NOTES

1. ALL DIMENSIONS AND ELEVATIONS ARE GIVEN IN mm UNLESS OTHERWISE NOTED.
2. ELEVATIONS REFER TO T.O.S.
3. ELEVATION OF THE LAMPS ARE REFFERED TO THE BOTTOM OF THE LAMP.
4. FOR THE ELEVATION OF JB, REFER TO THE TYPICAL INSTALLATION.

LEGEND

- EMERGENCY LIGHTING JB
- 60W LED EMERGENCY LUMINARIES
- 60W LED EMERGENCY LUMINARIES FIXTURE POLE MOUNTED
- NORMAL LIGHTING JB
- 45W LED NORMAL LUMINARIES
- 45W LED NORMAL LUMINARIES FIXTURE POLE MOUNTED
- WELDING SOCKET WITH INTEGRATED JB
- SMALL POWER SOCKET WITH INTEGRATED JB
- TWILIGHT RELAY SENSOR

JB TAG:	JB-TAG
TAG:	TAG
ELE:	ELEVATION
STD:	STANDARD

VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DL-20118**

REV.:	DATE:	SIGNATURE:
1_B	22/10/24	G.Randi

ROSETTI MARINO SpA

REFERENCE DOCUMENTS

123A90-DDL-PP-DL-70070	PLOT PLAN - LOWER & UPPER DECK
123A90-DDL-EL-DL-20100	ELECTRICAL EQUIPMENT LAYOUT - TOP DECK
123A90-DDL-EL-DD-20091	ELECTRICAL TYPICAL INSTALLATION DETAILS - LIGHTING SYSTEM
123A90-DDL-EL-DD-20092	ELECTRICAL TYPICAL INSTALLATION DETAILS - POWER SYSTEM & CABLE INSTALLATION
123A90-DDL-EL-RE-20153	LIGHTING CALCULATION STUDY REPORT

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	02/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	28/05/24	ASR	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND | ROSETTI MARINO

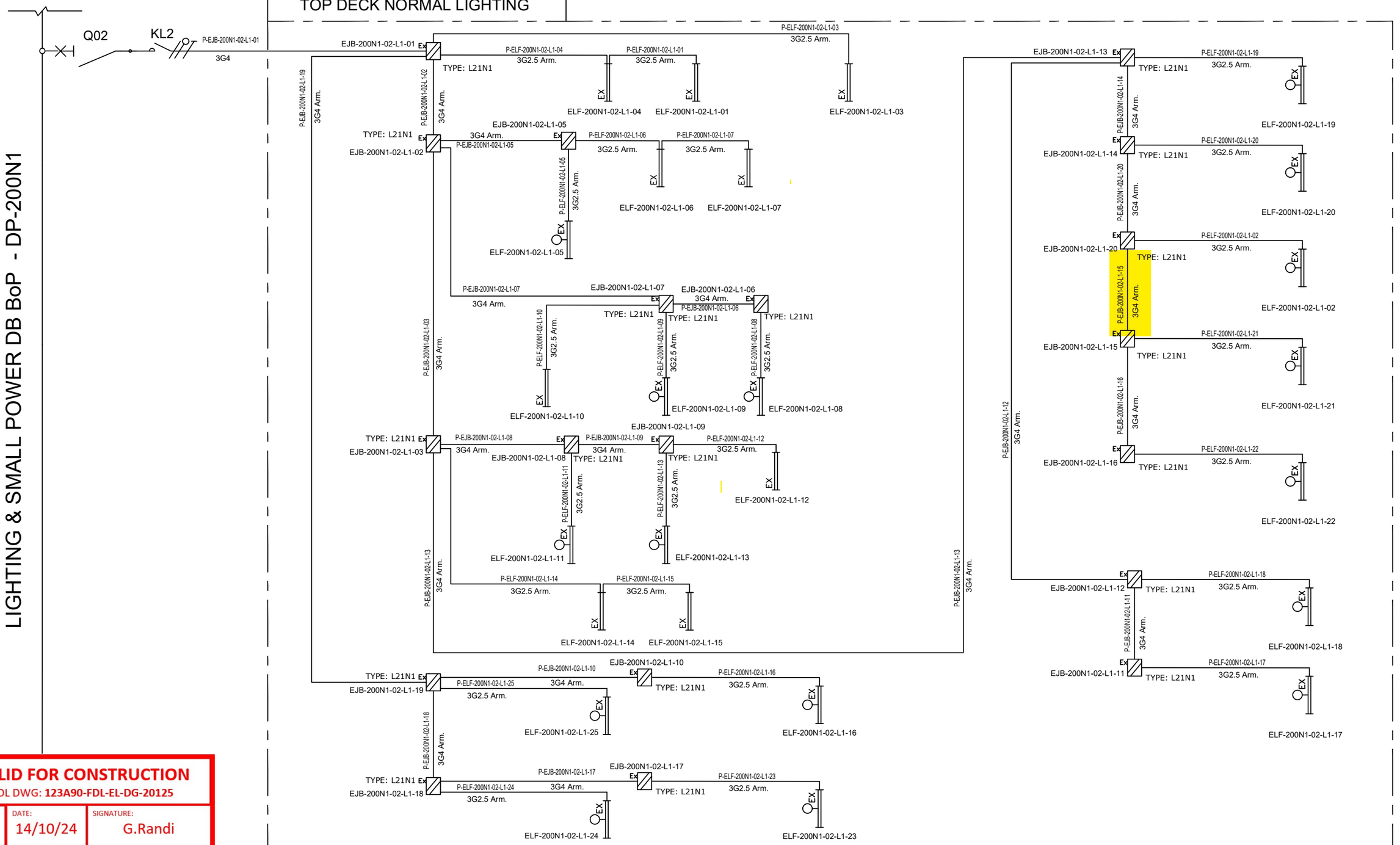
TITLE : BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET LAYOUT – TOP DECK

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK			SCALE 1:150
DRAWN ASR	CHECKED FMA/AMA	APPROVED FPA/DLO	DATE 01/08/24
A1	DRAWING NO. 123A90-DDL-EL-DL-20118	SHEET 1of2	REV. 01

File Name : 123A90-DDL-EL-DL-20118

LIGHTING & SMALL POWER DB BoP - DP-200N1

TOP DECK NORMAL LIGHTING



VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DG-20125**

REV.:	DATE:	SIGNATURE:
1_B	14/10/24	G.Randi

ROSETTI MARINO SpA

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	08/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	01/07/24	ASR	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

TITLE : BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET CIRCUIT DIAGRAM
TOP DECK–NORMAL LIGHTING

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE : NTS

A3

DRAWING NO. 123A90-DDL-EL-DG-20125

SHEET 010

REV. 01

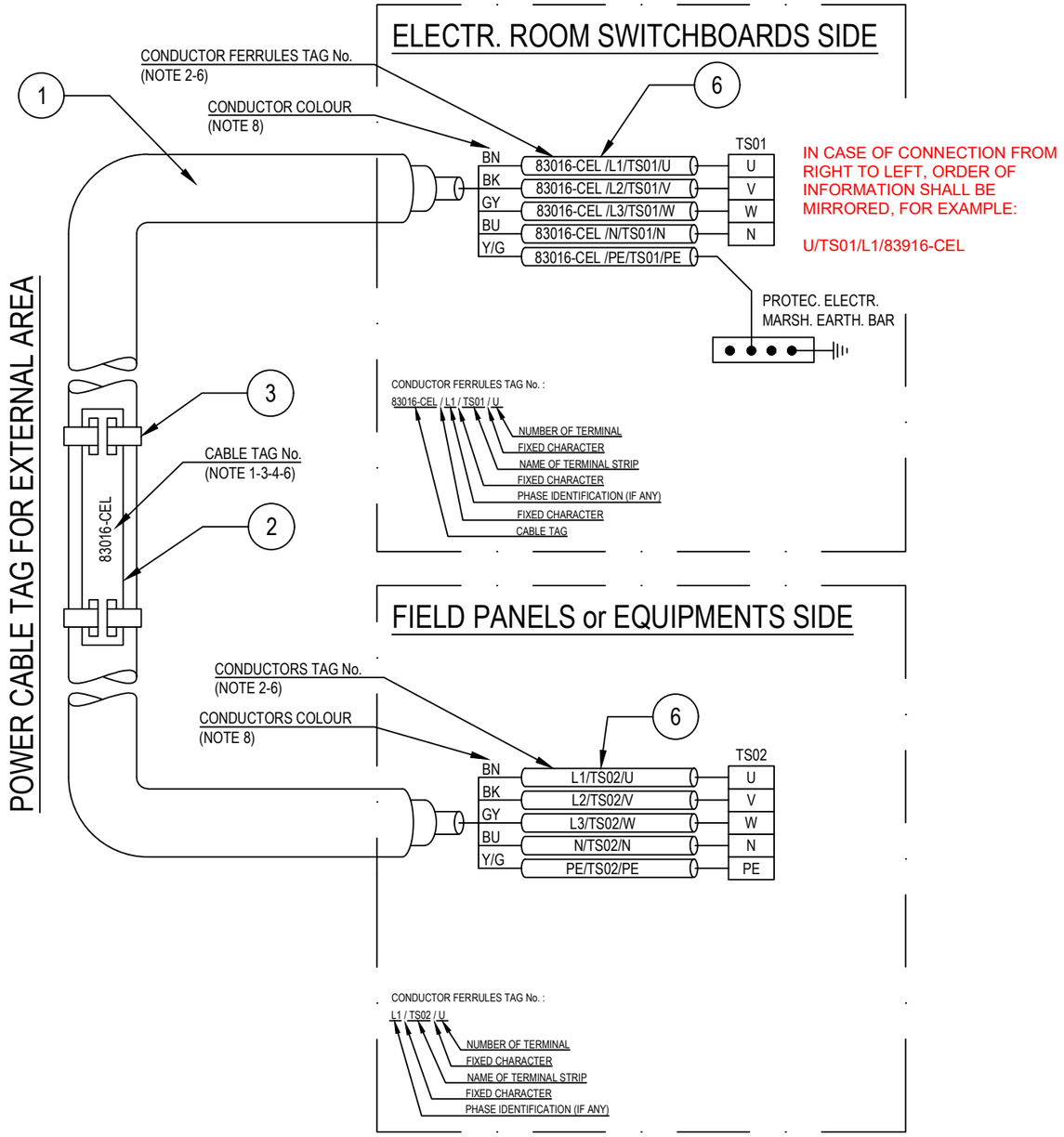
CROSSWIND

ROSETTI MARINO

F.to UNI A3: 420mmx297mm

File Name : 123A90-DDL-EL-DG-20125

C02



POS.	DESCRIPTION	MATERIAL	SIZE	Q.TY	NOTE
1	UNARMOURED CABLE				
2	CABLE TAG FOR EXTERNAL AREA	HDG/SS			NOTE 1 NOTE 4
3	TIE FOR CABLE TAG IN EXTERNAL AREA	HDG/SS			
4	CABLE TAG FOR INTERNAL AREA	PVC			NOTE 1 NOTE 5
5	TIE FOR CABLE TAG IN INTERNAL AREA	NYLON 6.6			
6	CORE FERRULES	PVC			

NOTES:

1) ALL CABLES SHALL BE IDENTIFIED AT EACH TERMINATION AND EACH SIDE OF ANY OBSTACLE (E.G. CABLE TRANSIT ON WALLS INSIDE SHELTER AND FLOOR DECK CROSSING, BY THEIR RESPECTIVE TAGS/NUMBERS, AS INDICATED ON THE CABLE SCHEDULE.
CABLE IDENTIFICATION SHALL BE ALSO DONE BELOW AND IN THE SWITCHBOARD CABLE COMPARTMENT.

2) CABLE CORE FERRULES SHALL BE FITTED AT EVERY TERMINATION. THESE FERRULES SHALL BE OF ENGRAVED PLASTIC SLIP ON, INTERLOCKED AND SELF GRIP TYPE.

3) ON CABLE TRAYS OR LADDERS, CABLES SHALL BE IDENTIFIED AT EACH END, AND EVERY 25 METERS.

4) THE CABLE TAG FOR EXTERNAL AREA SHALL DONE BY 316L STAINLESS STEEL LABELS, TAG (H=5mm) SHALL BE LASER PRINTED PREFERABLY OR EMBOSSED, LABEL HELD BY TWO 316L STAINLESS STEEL TIES.

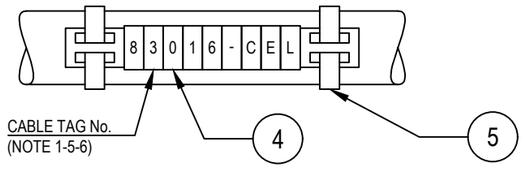
5) THE CABLE TAG FOR INTERNAL AREA SHALL BE DONE BY ENGRAVED PLASTIC SLIP ON CHARACTERS ONTO PLASTIC TIE, BLACK LETTER (H=5mm) ON WHITE.

6) CABLE AND CONDUCTOR TAG ARE INDICATIVE ONLY.

7) WITHIN TECHNICAL BUILDING, PROTECTIVE CONDUCTOR SHALL BE TAGGED BETWEEN FOLLOWING ITEMS:
- PANEL (SWITCHBOARD, SWITCHGEAR, DISTRIBUTION BOARD, ETC) AND EARTH BAR
- EARTH BAR AND EARTH BOSS

8) ONLY IF NECESSARY, SHRINK TUBES OF THE APPROPRIATE COLOR WILL BE INSTALLED TO COVER THE WRONG CONDUCTOR COLOR, THIS WILL BE PERFORMED IN EACH SIDE OF THE CABLES WHERE NECESSARY.

POWER CABLE TAG FOR INTERNAL AREA



VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DD-20092**

REV.:	DATE:	SIGNATURE:
2_B	28/11/24	G.Randi

ROSETTI MARINO SpA

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	28/08/24	GRA	AMA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	04/07/24	NLK	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	21/11/23	SPS	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL TYPICAL INSTALLATION DETAILS-POWER SYSTEM & CABLE INSTALLATION
CABLES INSTALLATION SYSTEM IDENTIFICATION FOR POWER CABLES

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK | SCALE : NTS

A3	DRAWING NO.	SHEET	REV.
	123A90-DDL-EL-DD-20092	007	02

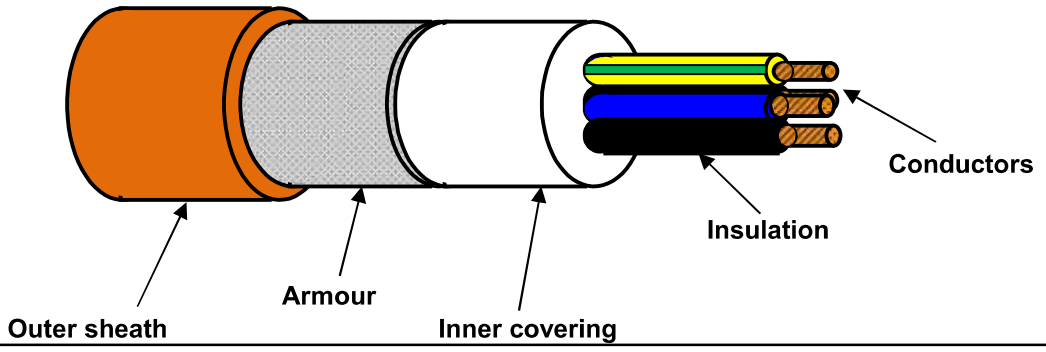
F.to UNI A3: 420mmx297mm

File Name : 123A90-DDL-EL-DD-20092 REV.02.DWG

Tag Number	Category	Disciplir	Eng Statu	NativeDoc	Layout	Parent Tag	Main Function	Secondary Fun	Area	From Tag	From Main Function	From Area	To Tag	To Main Function	To Area	Material ID	Material Desc.	Gland Standard	From Glan	From Entry	From Fitt	To Gland	To Entry	To Fitting	Routing	Routing Manual
P-EJB-200N1-02-L1-15	Cable	LSP	VFC	123A90-DDL-EL-LIS-20148						EJB-200N1-02-L1-20	Normal Lighting JB	Upper Deck	EJB-200N1-02-L1-15	Normal Lighting JB	Upper Deck	ELECV38-3G4	Cable Cu Cl.2/MGT/EPR/LSZH/GSWB/LSZH 0,6/1kV 3G4mm² - Orange	M20	T2_M20_ Double			T2_M20_Double				L-150-102-LVT-005

Cu Cl.2/MGT/EPR/LSZH/GSWB/LSZH 0,6/1 KV

3G4 - L.V. POWER CABLE - Fire Resistant & Flame Retardant - ARMOURED



TECHNICAL FEATURES

Conductors :	**STRANDED** plain/bare annealed copper wires	IEC 60228 Class 2
Insulation :	Mica/Glass Tape (MGT) plus EPR compound, quality to IEC 60092.360, Nominal Thickness 1,0 mm	
Cores colour code :	**Brown - Blue - Yellow/Green**	
Pair Assembling :	Not required	
Pair Wrapping:	Not required	
Drain wire :	Not required	
Pair Shield :	Not required	
Shield Insulation :	Not Required	
Total Assembling :	Cores layed up with optimal lay length	
Overall Wrapping:	Not required	
Drain wire :	Not required	
Overall Shield:	Not required	
Inner covering :	Extruded LSZH compound, Average Thickness 1,0 mm	
Inner covering color code:	**Black or Natural**	
Armour :	**Galvanized Steel Wire Braid Armour (coverage ≥ 90%)**	
Outer sheath :	Extruded LSZH Thermoplastic Compound (O.I. ≥ 30%), type **SHF1** to IEC 60093.360, Average Thickness 1,4 mm	
Outer sheath color code:	**Orange**	
Outer printing (INKJET) :	**FLEI - ELECTRIC CABLE - 1000V - 3G4 SQMM - MGT/EPR/LSZH/GSWB/LSZH - 0,6/1 KV - IEC 60331.21 -**	
	IEC 60332.1.2 - IEC 60332.3.22 - Year of Manufacture - CE + Meter Marking	
Under Armour diameter :	(13,0 ± 10%) mm	
Over Armour diameter :	(14,2 ± 10%) mm	
Outer diameter :	(17,0 ± 10%) mm	
Bending radius :	cable outer diameter x 10	(in fixed installation)
Voltage test :	3,5 kV a.c. for 5' (Between Cores - Armour)	
Conductors DC Resistance :		IEC 60228 Class 2
Insulation Resistance :	≥ 790 MΩ x Km (@ 20°C)	
Applicable Standards		
Design Guidelines :	**IEC 60092.353**	
ON COMPLETE CABLE		
Fire Resistant test :	**IEC 60331.21**	
Flame Retardant test :	IEC 60332.1.2 - IEC 60332.3.22	
Acid Gas generation :	IEC 60754.1/2	
Smoke density/Light Transmittance	IEC 61034.2 (LT ≥ 60%)	
Temperature Range :		
ON INSULATION	(max +90°C)	(max continuous operation temperature of conductors)
	(max +250°C)	(max conductors temperature during short-circuit for 5 seconds)
ON COMPLETE CABLE		
During Operation :	(-20°C up to +90°C)	(in fixed installation)
During installation :	(- 5°C up to +50°C)	
Note :	**To meet the requirements of installation and use in Zone 1 & Zone 2 (IEC 60079-14) and "Gas & Vapour Tight" the cable must be provided with Penetrating Inner covering together with correct ATEX approved equipment or accessories.**	

Office	Date	Sign	Rev.	Date	Sign
Drawn by :	29/03/2024	Messa			
Checked :	29/03/2024	Spaccasassi			
Approved :	29/03/2024	Cucinotta			

The data provided, lending assent for the treatment, will be used to the sense of the article 13 of of the Regulation (UE) 2016/679, also through outsiders, in order to allow the realization of the fulfilments informatives, administrative, commercial and accounting related to the contractual relationship. Integral copy of the informative could be requested at our offices.

All proprietary rights reserved according to law. This document shall be not reproduced without written permission. FLEI reserves the right to change characteristics and technical data of product shown at any time.

ITEM	Tag	P-ELF-200N1-02-L1-21	: Normal Lighting JB / Normal Lighting Fixture			Dwg	123A90-DDL-EL-LIS-20148
	S/Sys	83-40	: Normal Lighting Upper Deck			Module	UD
TASK	code	C10000696		Location	Onshore Activities	User	Rosetti Marino Quality Control
FORM	Process	MC	Activity CCK	Discipline	Electrical	Form	CPX09 LV Power Cable

CABLE DATA

Type Cu Cl.2/MGT/EPR/LSZH/GSWB/LSZH Cores/Size mm² 3G2,5 mm2 Color ORANGE

From EJB-200N1-02-L1-15 To ELF-200N1-02-L1-21

1	Confirm cable is as specified in project cable schedule	OK
2	Visual Check cable physical integrity.	OK
3	Check is installed in accordance with layout drawing (segregation, distance…).	OK
4	Check cable is supported and fixed to rack according to project specification.	Note
5	Check bending radius is within the specified limits.	OK
6	Confirm cable glands suit for cable type, correctly mounted and tightened.	PL
7	Check gland plate for single core cables is non ferrous (non -magnetic).	NA
8	Confirm cable labelling is in accordance with specifications.	PL
9	Check cable is correctly loomed and segregated in accordance with specification.	OK
10	Check cable earthing against lastest drawings.	OK
11	Check cores marking are in accordance with termination diagram	PL
12	Check terminations are in accordance with latest termination diagram	OK
13	If required produce Red Line Mark Up for "AS BUILT"	

ROSETTI MARINO PROVERLIS CROSSWIND

ITEM	Tag	P-ELF-200N1-02-L1-21	: Normal Lighting JB / Normal Lighting Fixture			Dwg	123A90-DDL-EL-LIS-20148
	S/Sys	83-40	: Normal Lighting Upper Deck			Module	UD
TASK	code	C10000696		Location	Onshore Activities	User	Rosetti Marino Quality Control
FORM	Process	MC	Activity CCK	Discipline	Electrical	Form	CPX09 LV Power Cable

	CONTINUITY			
5	CORE CONTINUITY Ω	PH 1	0,2	
6		PH 2	0,2	
7		PH 3	NA	
8	ARMOUR CONTINUITY Ω		0,2	
9	PROTECTIVE CONDUCTOR CONTINUITY Ω		0,2	
	INSULATION			
10	CORES / ARMOUR+EARTH MΩ	PH1 / PH2-PH3-A-E	>999	
11		PH2 / PH1-PH3-A-E	>999	
12		PH3 / PH1-PH2-A-E	NA	
13	CABLE IS CORRECTLY RE-CONNECTED.		Yes	

TESTING INSTRUMENTS USED

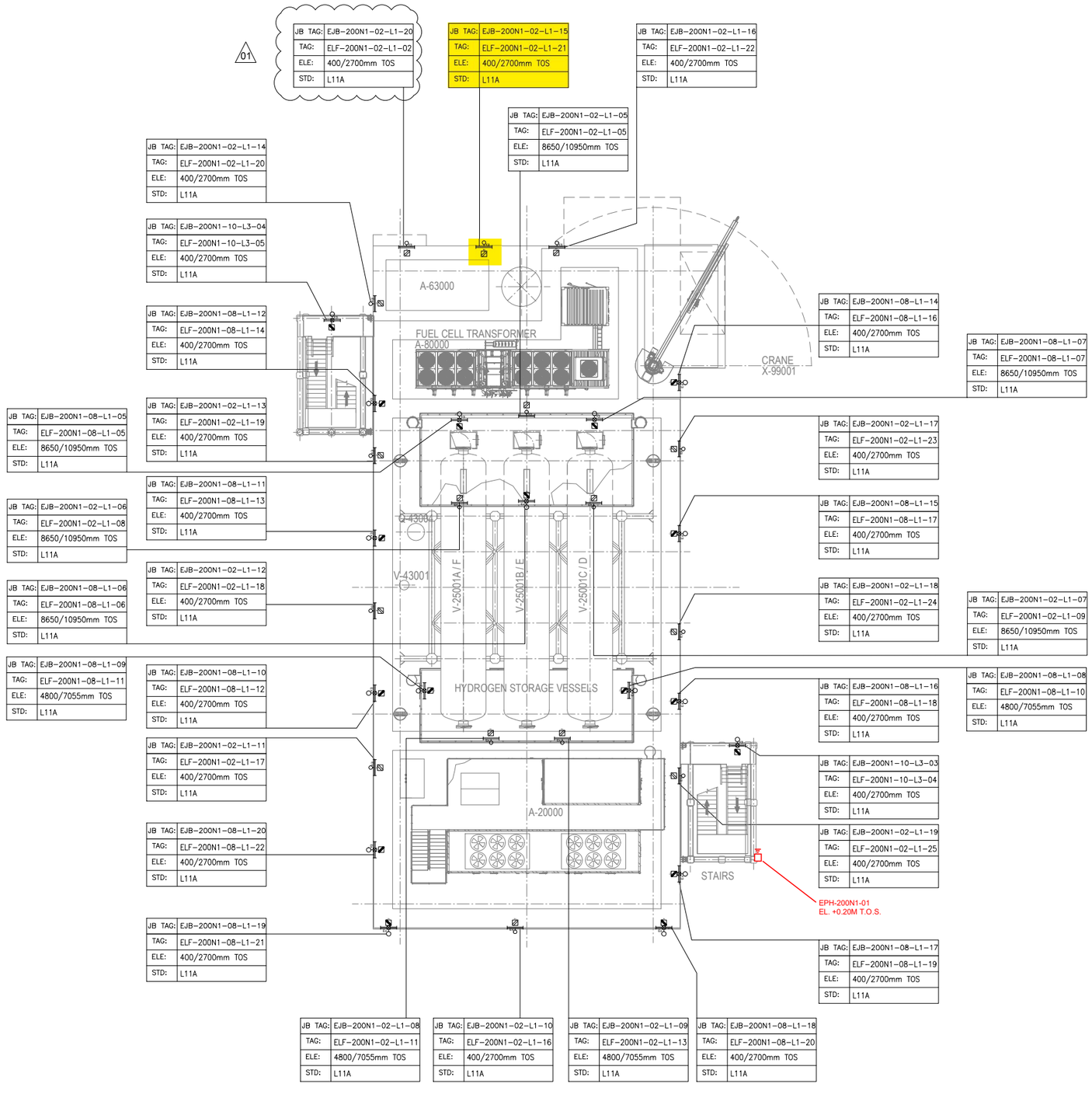
TYPE / SERIAL N° :	MEGGER : KEW3125A SERIAL: W8330207	TYPE / SERIAL N° :	MULTIMETER: FLUKE 175 SERIAL:AW1/018(17140769
Calibration certificate N° and date:	N°7722/24 _ 10/07/2024	Calibration certificate N° and date:	N°7715/24 _ 10/07/2024

Comments: Nota 4: refer to PL C30000679

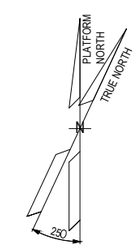
	Performed by	☉ WITNESS ☐ REVIEW	☐ WITNESS ☐ REVIEW
Company	ICS IMPIANTI	RM(ROSETTI MARINO)	
Name	Francesco Zucca	Luca Mussi	
Date	2024-12-05	2024-12-06	
Signature	PROVERLIS Digitaly signed by Francesco Zucca 2024-12-05T18:13:36.739Z	PROVERLIS Digitaly signed by Luca Mussi 2024-12-06T17:40:41.419Z	

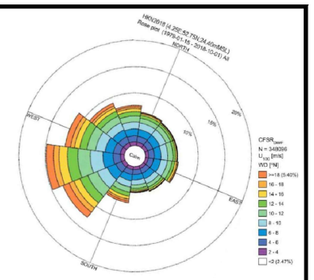
DRAWING NO. 123A90-DDL-EL-DL-20118

REV. 01



PLAN ON UPPER DECK
EL+30.310 T.O.S.





NOTES

1. ALL DIMENSIONS AND ELEVATIONS ARE GIVEN IN mm UNLESS OTHERWISE NOTED.
2. ELEVATIONS REFER TO T.O.S.
3. ELEVATION OF THE LAMPS ARE REFFERED TO THE BOTTOM OF THE LAMP.
4. FOR THE ELEVATION OF JB, REFER TO THE TYPICAL INSTALLATION.

LEGEND

- EMERGENCY LIGHTING JB
- 60W LED EMERGENCY LUMINARIES
- 60W LED EMERGENCY LUMINARIES FIXTURE POLE MOUNTED
- NORMAL LIGHTING JB
- 45W LED NORMAL LUMINARIES
- 45W LED NORMAL LUMINARIES FIXTURE POLE MOUNTED
- WELDING SOCKET WITH INTEGRATED JB
- SMALL POWER SOCKET WITH INTEGRATED JB
- TWILIGHT RELAY SENSOR

JB TAG:	JB-TAG
TAG:	TAG
ELE:	ELEVATION
STD:	STANDARD

VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DL-20118**

REV.:	DATE:	SIGNATURE:
1_B	22/10/24	G.Randi

ROSETTI MARINO SpA

REFERENCE DOCUMENTS

123A90-DDL-PP-DL-70070	PLOT PLAN - LOWER & UPPER DECK
123A90-DDL-EL-DL-20100	ELECTRICAL EQUIPMENT LAYOUT - TOP DECK
123A90-DDL-EL-DD-20091	ELECTRICAL TYPICAL INSTALLATION DETAILS - LIGHTING SYSTEM
123A90-DDL-EL-DD-20092	ELECTRICAL TYPICAL INSTALLATION DETAILS - POWER SYSTEM & CABLE INSTALLATION
123A90-DDL-EL-RE-20153	LIGHTING CALCULATION STUDY REPORT

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	02/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	28/05/24	ASR	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND | ROSETTI MARINO

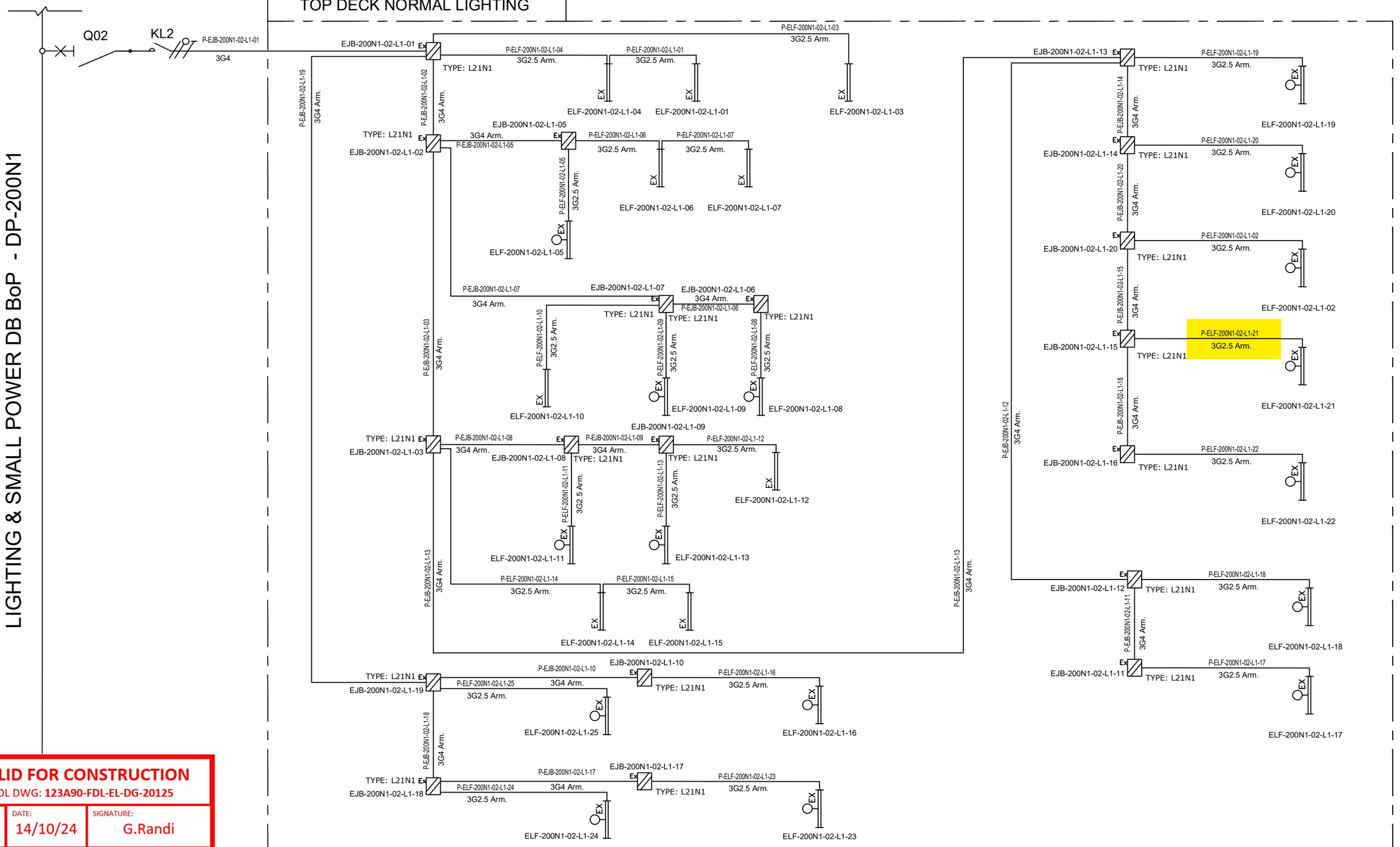
TITLE :
BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET LAYOUT – TOP DECK

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK			SCALE 1:150
DRAWN ASR	CHECKED FMA/AMA	APPROVED FPA/DLO	DATE 01/08/24
A1	DRAWING NO. 123A90-DDL-EL-DL-20118	SHEET 1of2	REV. 01

File Name : 123A90-DDL-EL-DL-20118

LIGHTING & SMALL POWER DB BoP - DP-200N1

TOP DECK NORMAL LIGHTING



VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DG-20125**

REV.:	DATE:	SIGNATURE:
1_B	14/10/24	G.Randi

ROSETTI MARINO SpA

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	08/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	01/07/24	ASR	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

TITLE : BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET CIRCUIT DIAGRAM
TOP DECK–NORMAL LIGHTING

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE : NTS

A3

DRAWING NO. 123A90-DDL-EL-DG-20125

SHEET 010

REV. 01

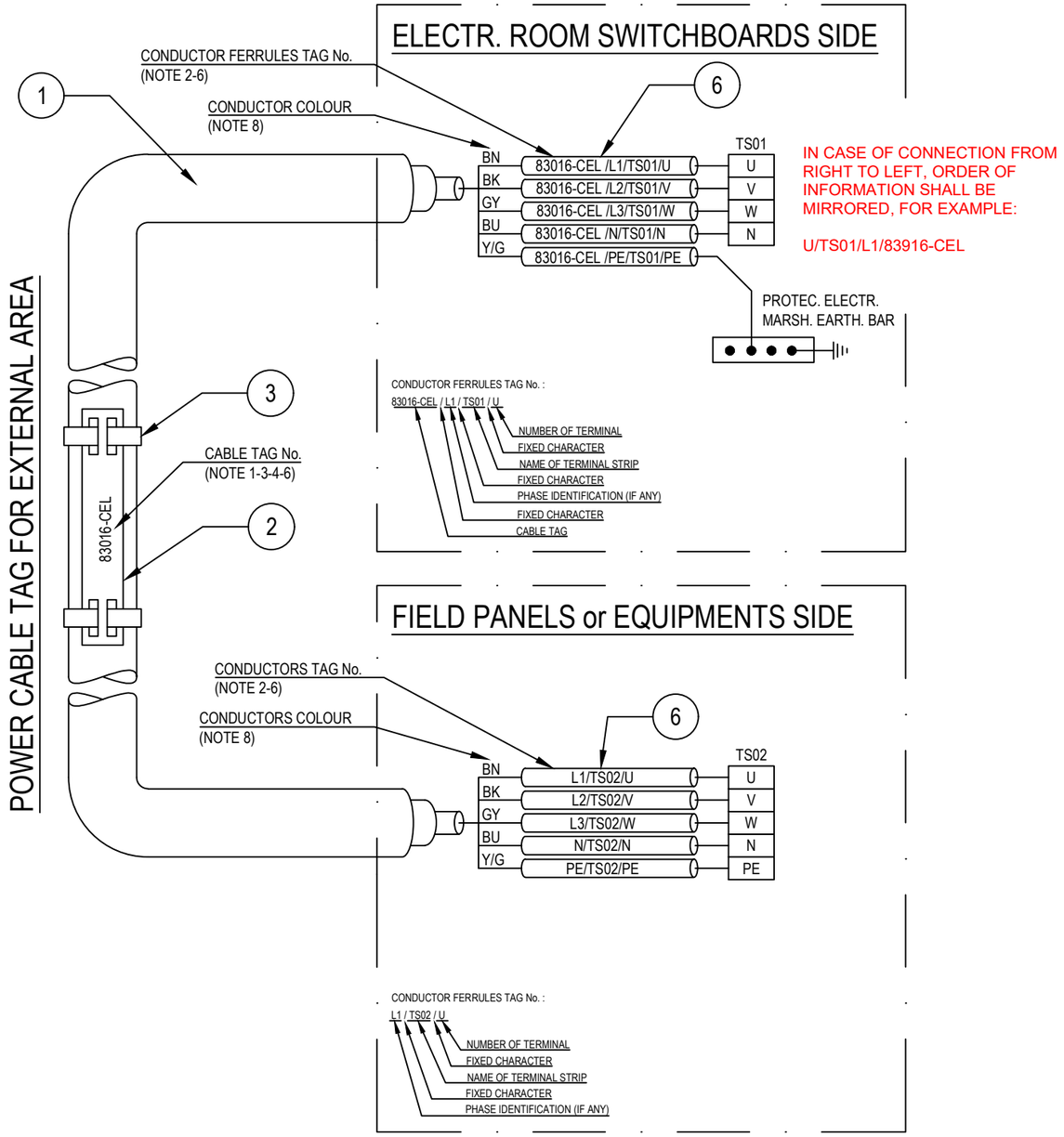
CROSSWIND

ROSETTI MARINO

F.to UNI A3: 420mmx297mm

File Name : 123A90-DDL-EL-DG-20125

C02



POS.	DESCRIPTION	MATERIAL	SIZE	Q.TY	NOTE
1	UNARMOURED CABLE				
2	CABLE TAG FOR EXTERNAL AREA	HDG/SS			NOTE 1 NOTE 4
3	TIE FOR CABLE TAG IN EXTERNAL AREA	HDG/SS			
4	CABLE TAG FOR INTERNAL AREA	PVC			NOTE 1 NOTE 5
5	TIE FOR CABLE TAG IN INTERNAL AREA	NYLON 6.6			
6	CORE FERRULES	PVC			

NOTES:

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CABLE IDENTIFICATION SHALL BE ALSO DONE BELOW AND IN THE SWITCHBOARD CABLE COMPARTMENT.

2) CABLE CORE FERRULES SHALL BE FITTED AT EVERY TERMINATION. THESE FERRULES SHALL BE OF ENGRAVED PLASTIC SLIP ON, INTERLOCKED AND SELF GRIP TYPE.

3) ON CABLE TRAYS OR LADDERS, CABLES SHALL BE IDENTIFIED AT EACH END, AND EVERY 25 METERS.

4) THE CABLE TAG FOR EXTERNAL AREA SHALL DONE BY 316L STAINLESS STEEL LABELS, TAG (H=5mm) SHALL BE LASER PRINTED PREFERABLY OR EMBOSSED, LABEL HELD BY TWO 316L STAINLESS STEEL TIES.

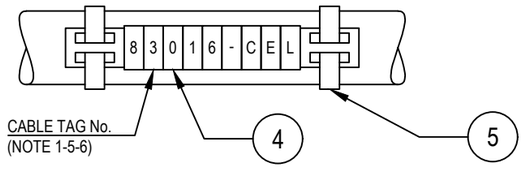
5) THE CABLE TAG FOR INTERNAL AREA SHALL BE DONE BY ENGRAVED PLASTIC SLIP ON CHARACTERS ONTO PLASTIC TIE, BLACK LETTER (H=5mm) ON WHITE.

6) CABLE AND CONDUCTOR TAG ARE INDICATIVE ONLY.

7) WITHIN TECHNICAL BUILDING, PROTECTIVE CONDUCTOR SHALL BE TAGGED BETWEEN FOLLOWING ITEMS:
- PANEL (SWITCHBOARD, SWITCHGEAR, DISTRIBUTION BOARD, ETC) AND EARTH BAR
- EARTH BAR AND EARTH BOSS

8) ONLY IF NECESSARY, SHRINK TUBES OF THE APPROPRIATE COLOR WILL BE INSTALLED TO COVER THE WRONG CONDUCTOR COLOR, THIS WILL BE PERFORMED IN EACH SIDE OF THE CABLES WHERE NECESSARY.

POWER CABLE TAG FOR INTERNAL AREA



VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DD-20092**

REV.:	DATE:	SIGNATURE:
2_B	28/11/24	G.Randi

ROSETTI MARINO SpA

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	28/08/24	GRA	AMA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	04/07/24	NLK	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	21/11/23	SPS	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL TYPICAL INSTALLATION DETAILS-POWER SYSTEM & CABLE INSTALLATION
CABLES INSTALLATION SYSTEM IDENTIFICATION FOR POWER CABLES

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK | SCALE : NTS

A3	DRAWING NO.	SHEET	REV.
	123A90-DDL-EL-DD-20092	007	02

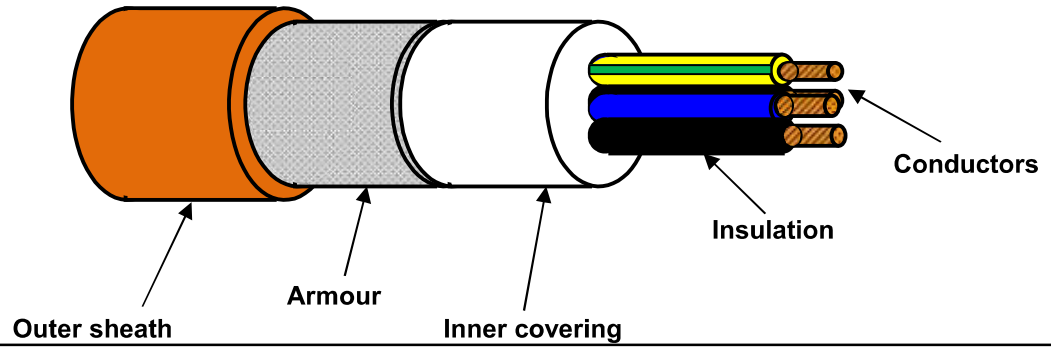
F.to UNI A3: 420mmx297mm

File Name : 123A90-DDL-EL-DD-20092 REV.02.DWG

Tag Number	Category	Discipline	Eng Status	NativeDoc	Layout	Parent Tag	Main Function	Secondary Function	Area	From Tag	From Main Function	From Area	To Tag	To Main Function	To Area	Material ID	Material Desc.	Gland Standard	From Gland	From Entry	From Fitting	To Gland	To Entry	To Fitting	Routing	Routing Manual
P-ELF-200N1-02-L1-21	Cable	LSP	VFC	123A90-DDL-EL-LIS-20148						EJB-200N1-02-L1-15	Normal Lighting JB	Upper Deck	ELF-200N1-02-L1-21	Normal Lighting Fixture	Upper Deck	ELECV19-3G2,5	Cable Cu Cl.2/MGT/EPR/LSZH/GSWB/LSZH 0,6/1kV 3G2,5mm² - Orange	M20	T2_M20_Double			T2_M20_Double				L-50-102-LVT-038

Cu Cl.2/MGT/EPR/LSZH/GSWB/LSZH 0,6/1 KV

3G2,5 - L.V. POWER CABLE - Fire Resistant & Flame Retardant - ARMOURED



TECHNICAL FEATURES

Conductors :	**STRANDED** plain/bare annealed copper wires	IEC 60228 Class 2
Insulation :	Mica/Glass Tape (MGT) plus EPR compound, quality to IEC 60092.360, Nominal Thickness 1,0 mm	
Cores colour code :	**Brown - Blue - Yellow/Green**	
Pair Assembling :	Not required	
Pair Wrapping:	Not required	
Drain wire :	Not required	
Pair Shield :	Not required	
Shield Insulation :	Not Required	
Total Assembling :	Cores layed up with optimal lay length	
Overall Wrapping:	Not required	
Drain wire :	Not required	
Overall Shield:	Not required	
Inner covering :	Extruded LSZH compound, Average Thickness 1,0 mm	
Inner covering color code:	**Black or Natural**	
Armour :	**Galvanized Steel Wire Braid Armour (coverage ≥ 90%)**	
Outer sheath :	Extruded LSZH Thermoplastic Compound (O.I. ≥ 30%), type **SHF1** to IEC 60093.360, Average Thickness 1,3 mm	
Outer sheath color code:	**Orange**	
Outer printing (INKJET) :	**FLEI - ELECTRIC CABLE - 1000V - 3G2,5 SQMM - MGT/EPR/LSZH/GSWB/LSZH - 0,6/1 KV - IEC 60331.21 - IEC 60332.1.2 - IEC 60332.3.22 - Year of Manufacture - CE + Meter Marking**	
Under Armour diameter :	(11,7 ± 10%) mm	
Over Armour diameter :	(12,9 ± 10%) mm	
Outer diameter :	(15,5 ± 10%) mm	
Bending radius :	cable outer diameter x 10	(in fixed installation)
Voltage test :	3,5 kV a.c. for 5' (Between Cores - Armour)	
Conductors DC Resistance :		IEC 60228 Class 2
Insulation Resistance :	≥ 940 MΩ x Km (@ 20°C)	
Applicable Standards		
Design Guidelines :	**IEC 60092.353**	
ON COMPLETE CABLE		
Fire Resistant test :	**IEC 60331.21**	
Flame Retardant test :	IEC 60332.1.2 - IEC 60332.3.22	
Acid Gas generation :	IEC 60754.1/2	
Smoke density/Light Transmittance	IEC 61034.2 (LT ≥ 60%)	
Temperature Range :		
ON INSULATION	(max +90°C)	(max continuous operation temperature of conductors)
	(max +250°C)	(max conductors temperature during short-circuit for 5 seconds)
ON COMPLETE CABLE		
During Operation :	(-20°C up to +90°C)	(in fixed installation)
During installation :	(- 5°C up to +50°C)	
Note :	**To meet the requirements of installation and use in Zone 1 & Zone 2 (IEC 60079-14) and "Gas & Vapour Tight" the cable must be provided with Penetrating Inner covering together with correct ATEX approved equipment or accessories.**	

Office	Date	Sign	Rev.	Date	Sign
Drawn by :	29/03/2024	Messa			
Checked :	29/03/2024	Spaccasassi			
Approved :	29/03/2024	Cucinotta			

The data provided, lending assent for the treatment, will be used to the sense of the article 13 of of the Regulation (UE) 2016/679, also through outsiders, in order to allow the realization of the fulfilments informatives, administrative, commercial and accounting related to the contractual relationship. Integral copy of the informative could be requested at our offices.

All proprietary rights reserved according to law. This document shall be not reproduced without written permission. FLEI reserves the right to change characteristics and technical data of product shown at any time.

ITEM	Tag	P-EJB-200N1-02-L1-16	: Normal Lighting JB / Normal Lighting JB			Dwg	123A90-DDL-EL-LIS-20148
	S/Sys	83-40	: Normal Lighting Upper Deck			Module	UD
TASK	code	C10000697		Location	Onshore Activities	User	Rosetti Marino Quality Control
FORM	Process	MC	Activity CCK	Discipline	Electrical	Form	CPX09 LV Power Cable

CABLE DATA

Type Cu Cl.2/MGT/EPR/LSZH/GSWB/LSZH Cores/Size mm² 3G4 mm2 Color ORANGE

From EJB-200N1-02-L1-15 To EJB-200N1-02-L1-16

1	Confirm cable is as specified in project cable schedule	OK
2	Visual Check cable physical integrity.	OK
3	Check is installed in accordance with layout drawing (segregation, distance…).	OK
4	Check cable is supported and fixed to rack according to project specification.	Note
5	Check bending radius is within the specified limits.	OK
6	Confirm cable glands suit for cable type, correctly mounted and tightened.	OK
7	Check gland plate for single core cables is non ferrous (non -magnetic).	NA
8	Confirm cable labelling is in accordance with specifications.	PL
9	Check cable is correctly loomed and segregated in accordance with specification.	OK
10	Check cable earthing against lastest drawings.	OK
11	Check cores marking are in accordance with termination diagram	OK
12	Check terminations are in accordance with latest termination diagram	PL
13	If required produce Red Line Mark Up for "AS BUILT"	

ROSETTI MARINO PROVERLIS CROSSWIND

ITEM	Tag	P-EJB-200N1-02-L1-16	: Normal Lighting JB / Normal Lighting JB			Dwg	123A90-DDL-EL-LIS-20148
	S/Sys	83-40	: Normal Lighting Upper Deck			Module	UD
TASK	code	C10000697		Location	Onshore Activities	User	Rosetti Marino Quality Control
FORM	Process	MC	Activity CCK	Discipline	Electrical	Form	CPX09 LV Power Cable

CONTINUITY				
5	CORE CONTINUITY Ω	PH 1	0,04	
6		PH 2	0,04	
7		PH 3	NA	
8	ARMOUR CONTINUITY Ω		0,04	
9	PROTECTIVE CONDUCTOR CONTINUITY Ω		0,04	
INSULATION				
10	CORES / ARMOUR+EARTH MΩ	PH1 / PH2-PH3-A-E	>1999	
11		PH2 / PH1-PH3-A-E	>1999	
12		PH3 / PH1-PH2-A-E	NA	
13	CABLE IS CORRECTLY RE-CONNECTED.		Yes	

TESTING INSTRUMENTS USED

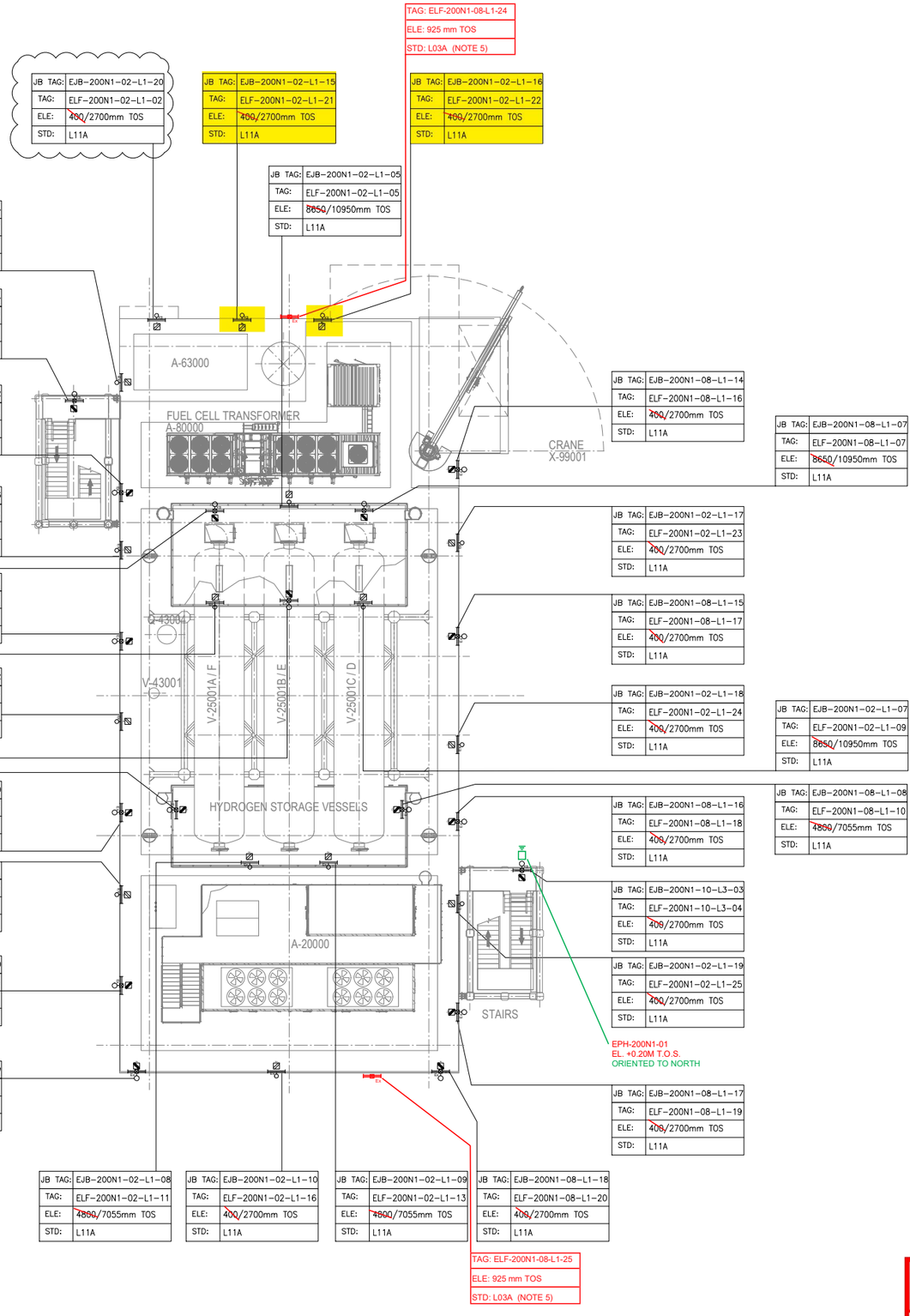
TYPE / SERIAL N° :	MEGGER : KEW3125A SERIAL: W8330207	TYPE / SERIAL N° :	MULTIMETER: FLUKE 175 SERIAL:AW1/018(17140769
Calibration certificate N° and date:	N°7722/24 _ 10/07/2024	Calibration certificate N° and date:	N°7715/24 _ 10/07/2024

Comments: Nota 4: refer to PL C30000679

	Performed by	● WITNESS ☐ REVIEW	☐ WITNESS ☐ REVIEW
Company	ICS IMPIANTI	RM(ROSETTI MARINO)	
Name	Michele Tartaglia	Alessio Polo	
Date	2025-01-08	2025-01-10	
Signature	PROVERLIS Digitaly signed by Michele Tartaglia 2025-01-08T09:58:00.033Z	PROVERLIS Digitaly signed by Alessio Polo 2025-01-10T12:56:12.347Z	

DRAWING NO. 123A90-DDL-EL-DL-20118

REV. 01



JB TAG:	EJB-200N1-02-L1-20
TAG:	ELF-200N1-02-L1-02
ELE:	400/2700mm TOS
STD:	L11A

JB TAG:	EJB-200N1-02-L1-15
TAG:	ELF-200N1-02-L1-21
ELE:	400/2700mm TOS
STD:	L11A

JB TAG:	EJB-200N1-02-L1-16
TAG:	ELF-200N1-02-L1-22
ELE:	400/2700mm TOS
STD:	L11A

JB TAG:	EJB-200N1-02-L1-05
TAG:	ELF-200N1-02-L1-05
ELE:	8650/10950mm TOS
STD:	L11A

JB TAG:	EJB-200N1-02-L1-14
TAG:	ELF-200N1-02-L1-20
ELE:	400/2700mm TOS
STD:	L11A

JB TAG:	EJB-200N1-10-L3-04
TAG:	ELF-200N1-10-L3-05
ELE:	400/2700mm TOS
STD:	L11A

JB TAG:	EJB-200N1-08-L1-12
TAG:	ELF-200N1-08-L1-14
ELE:	400/2700mm TOS
STD:	L11A

JB TAG:	EJB-200N1-08-L1-14
TAG:	ELF-200N1-08-L1-16
ELE:	400/2700mm TOS
STD:	L11A

JB TAG:	EJB-200N1-08-L1-07
TAG:	ELF-200N1-08-L1-07
ELE:	8650/10950mm TOS
STD:	L11A

JB TAG:	EJB-200N1-08-L1-05
TAG:	ELF-200N1-08-L1-05
ELE:	8650/10950mm TOS
STD:	L11A

JB TAG:	EJB-200N1-02-L1-13
TAG:	ELF-200N1-02-L1-19
ELE:	400/2700mm TOS
STD:	L11A

JB TAG:	EJB-200N1-02-L1-17
TAG:	ELF-200N1-02-L1-23
ELE:	400/2700mm TOS
STD:	L11A

JB TAG:	EJB-200N1-08-L1-11
TAG:	ELF-200N1-08-L1-13
ELE:	400/2700mm TOS
STD:	L11A

JB TAG:	EJB-200N1-02-L1-06
TAG:	ELF-200N1-02-L1-08
ELE:	8650/10950mm TOS
STD:	L11A

JB TAG:	EJB-200N1-08-L1-15
TAG:	ELF-200N1-08-L1-17
ELE:	400/2700mm TOS
STD:	L11A

JB TAG:	EJB-200N1-02-L1-12
TAG:	ELF-200N1-02-L1-18
ELE:	400/2700mm TOS
STD:	L11A

JB TAG:	EJB-200N1-02-L1-18
TAG:	ELF-200N1-02-L1-24
ELE:	400/2700mm TOS
STD:	L11A

JB TAG:	EJB-200N1-08-L1-06
TAG:	ELF-200N1-08-L1-06
ELE:	8650/10950mm TOS
STD:	L11A

JB TAG:	EJB-200N1-02-L1-07
TAG:	ELF-200N1-02-L1-09
ELE:	8650/10950mm TOS
STD:	L11A

JB TAG:	EJB-200N1-08-L1-09
TAG:	ELF-200N1-08-L1-11
ELE:	4800/7055mm TOS
STD:	L11A

JB TAG:	EJB-200N1-08-L1-10
TAG:	ELF-200N1-08-L1-12
ELE:	400/2700mm TOS
STD:	L11A

JB TAG:	EJB-200N1-08-L1-16
TAG:	ELF-200N1-08-L1-18
ELE:	400/2700mm TOS
STD:	L11A

JB TAG:	EJB-200N1-08-L1-08
TAG:	ELF-200N1-08-L1-10
ELE:	4800/7055mm TOS
STD:	L11A

JB TAG:	EJB-200N1-02-L1-11
TAG:	ELF-200N1-02-L1-17
ELE:	400/2700mm TOS
STD:	L11A

JB TAG:	EJB-200N1-10-L3-03
TAG:	ELF-200N1-10-L3-04
ELE:	400/2700mm TOS
STD:	L11A

JB TAG:	EJB-200N1-08-L1-20
TAG:	ELF-200N1-08-L1-22
ELE:	400/2700mm TOS
STD:	L11A

JB TAG:	EJB-200N1-02-L1-19
TAG:	ELF-200N1-02-L1-25
ELE:	400/2700mm TOS
STD:	L11A

JB TAG:	EJB-200N1-08-L1-19
TAG:	ELF-200N1-08-L1-21
ELE:	400/2700mm TOS
STD:	L11A

JB TAG:	EJB-200N1-08-L1-17
TAG:	ELF-200N1-08-L1-19
ELE:	400/2700mm TOS
STD:	L11A

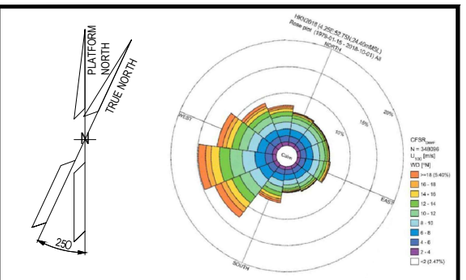
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TAG:	ELF-200N1-02-L1-11
ELE:	4800/7055mm TOS
STD:	L11A

JB TAG:	EJB-200N1-02-L1-10
TAG:	ELF-200N1-02-L1-16
ELE:	400/2700mm TOS
STD:	L11A

JB TAG:	EJB-200N1-02-L1-09
TAG:	ELF-200N1-02-L1-13
ELE:	4800/7055mm TOS
STD:	L11A

JB TAG:	EJB-200N1-08-L1-18
TAG:	ELF-200N1-08-L1-20
ELE:	400/2700mm TOS
STD:	L11A

PLAN ON UPPER DECK
EL+30.310 T.O.S.



NOTES

1. ALL DIMENSIONS AND ELEVATIONS ARE GIVEN IN mm UNLESS OTHERWISE NOTED.
2. ELEVATIONS REFER TO T.O.S.
3. ELEVATION OF THE LAMPS ARE REFFERED TO THE BOTTOM OF THE LAMP.
4. FOR THE ELEVATION OF JB, REFER TO THE TYPICAL INSTALLATION.
5. FOR ELF-200N1-08-L1-24 AND ELF-200N1-08-L1-25 CONSTRUCTION DETAILS REFER TO DOC. 123A90-DDL-ST-DD-90076

LEGEND

- EMERGENCY LIGHTING JB
- 60W LED EMERGENCY LUMINARIES
- 60W LED EMERGENCY LUMINARIES FIXTURE POLE MOUNTED
- NORMAL LIGHTING JB
- 45W LED NORMAL LUMINARIES
- 45W LED NORMAL LUMINARIES FIXTURE POLE MOUNTED
- WELDING SOCKET WITH INTEGRATED JB
- SMALL POWER SOCKET WITH INTEGRATED JB
- TWILIGHT RELAY SENSOR

JB TAG:	JB-TAG
TAG:	TAG
ELE:	ELEVATION
STD:	STANDARD

REFERENCE DOCUMENTS

123A90-DDL-PP-DL-70070	PLOT PLAN - LOWER & UPPER DECK
123A90-DDL-EL-DL-20100	ELECTRICAL EQUIPMENT LAYOUT - TOP DECK
123A90-DDL-EL-DD-20091	ELECTRICAL TYPICAL INSTALLATION DETAILS - LIGHTING SYSTEM
123A90-DDL-EL-DD-20092	ELECTRICAL TYPICAL INSTALLATION DETAILS - POWER SYSTEM & CABLE INSTALLATION
123A90-DDL-EL-RE-20153	LIGHTING CALCULATION STUDY REPORT
123A90-DDL-ST-DD-90076	IDENTIFICATION PANELS ASSEMBLY AND DETAILS

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	02/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	28/05/24	ASR	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DL-20118**

REV.:	DATE:	SIGNATURE:
1_F	26/11/24	G.Randi

ROSETTI MARINO SpA

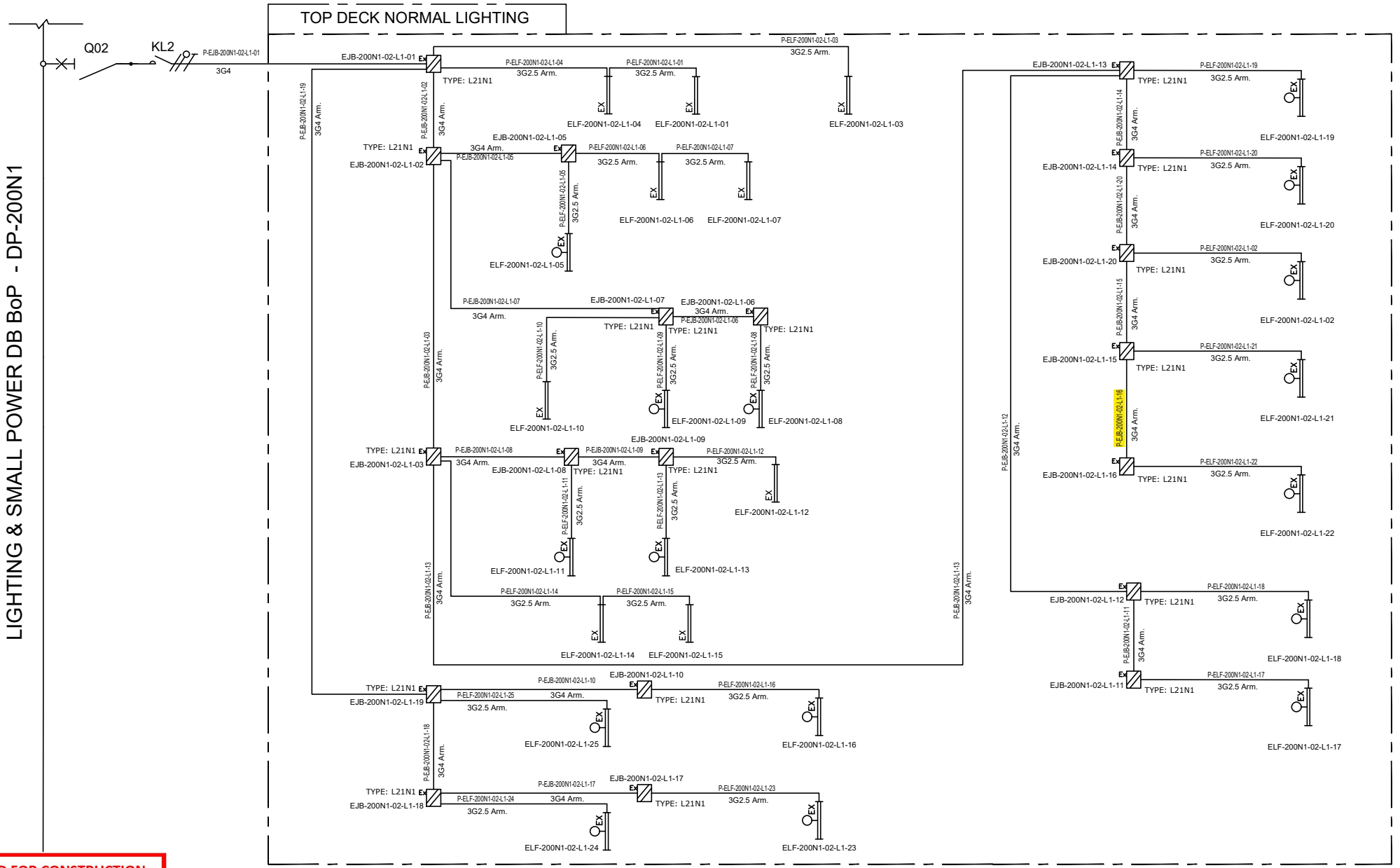
CROSSWIND

ROSETTI MARINO

TITLE :
BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET LAYOUT – TOP DECK

CONTRACT NO./TITLE	CW-1-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK	SCALE	1:150
DRAWN ASR	CHECKED FMA/AMA	APPROVED FPA/DLO	DATE 01/08/24
A1	DRAWING NO. 123A90-DDL-EL-DL-20118	SHEET 1of2	REV. 01

File Name : 123A90-DDL-EL-DL-20118



VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DG-20125**

REV.:	DATE:	SIGNATURE:
2_C	20/12/24	V.Ramponi

ROSETTI MARINO SpA

CROSSWIND

ROSETTI MARINO

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	08/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	01/07/24	ASR	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

TITLE : BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET CIRCUIT DIAGRAM
TOP DECK–NORMAL LIGHTING

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE : NTS

A3

DRAWING NO. 123A90–DDL–EL–DG–20125

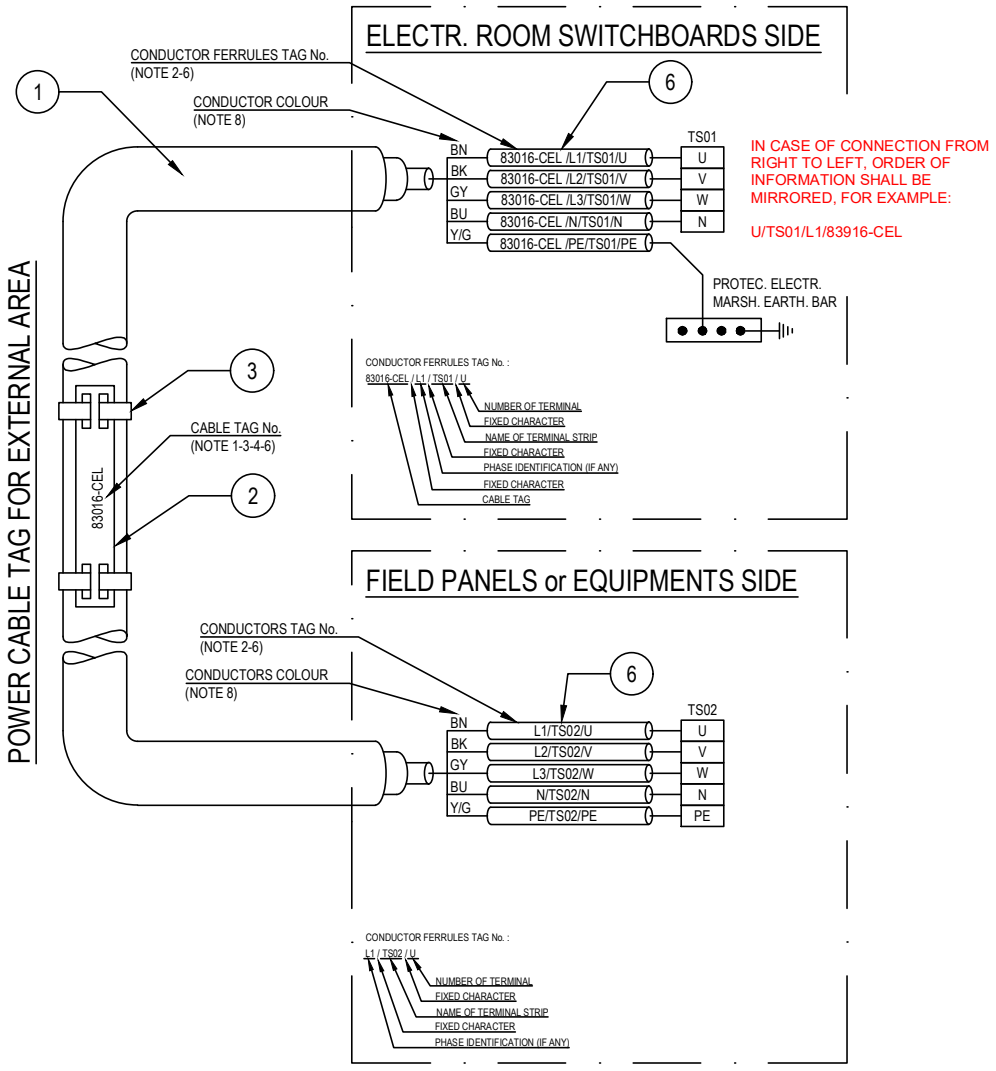
SHEET 010

REV. 01

F.to UNI A3: 420mmx297mm

File Name : 123A90–DDL–EL–DG–20125

C02



POS.	DESCRIPTION	MATERIAL	SIZE	Q.TY	NOTE
1	UNARMOURED CABLE				
2	CABLE TAG FOR EXTERNAL AREA	HDG/SS			NOTE 1 NOTE 4
3	TIE FOR CABLE TAG IN EXTERNAL AREA	HDG/SS			
4	CABLE TAG FOR INTERNAL AREA	PVC			NOTE 1 NOTE 5
5	TIE FOR CABLE TAG IN INTERNAL AREA	NYLON 6.6			
6	CORE FERRULES	PVC			

NOTES:

1) ALL CABLES SHALL BE IDENTIFIED AT EACH TERMINATION AND EACH SIDE OF ANY OBSTACLE (E.G. CABLE TRANSIT ON WALLS INSIDE SHELTER AND FLOOR DECK CROSSING, BY THEIR RESPECTIVE TAGS/NUMBERS, AS INDICATED ON THE CABLE SCHEDULE.
CABLE IDENTIFICATION SHALL BE ALSO DONE BELOW AND IN THE SWITCHBOARD CABLE COMPARTMENT.

2) CABLE CORE FERRULES SHALL BE FITTED AT EVERY TERMINATION. THESE FERRULES SHALL BE OF ENGRAVED PLASTIC SLIP ON, INTERLOCKED AND SELF GRIP TYPE.

3) ON CABLE TRAYS OR LADDERS, CABLES SHALL BE IDENTIFIED AT EACH END, AND EVERY 25 METERS.

4) THE CABLE TAG FOR EXTERNAL AREA SHALL DONE BY 316L STAINLESS STEEL LABELS, TAG (H=5mm) SHALL BE LASER PRINTED PREFERABLY OR EMBOSSED, LABEL HELD BY TWO 316L STAINLESS STEEL TIES.

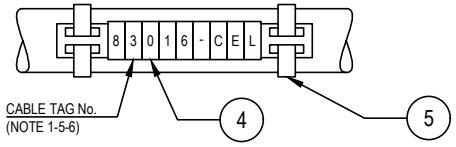
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6) CABLE AND CONDUCTOR TAG ARE INDICATIVE ONLY.

7) WITHIN TECHNICAL BUILDING, PROTECTIVE CONDUCTOR SHALL BE TAGGED BETWEEN FOLLOWING ITEMS:
- PANEL (SWITCHBOARD, SWITCHGEAR, DISTRIBUTION BOARD, ETC) AND EARTH BAR
- EARTH BAR AND EARTH BOSS

8) ONLY IF NECESSARY, SHRINK TUBES OF THE APPROPRIATE COLOR WILL BE INSTALLED TO COVER THE WRONG CONDUCTOR COLOR, THIS WILL BE PERFORMED IN EACH SIDE OF THE CABLES WHERE NECESSARY.

POWER CABLE TAG FOR INTERNAL AREA



VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DD-20092**

REV.:	DATE:	SIGNATURE:
2_D	20/12/24	V.Ramponi

ROSETTI MARINO SpA

CROSSWIND

ROSETTI MARINO

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	28/08/24	GRA	AMA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	04/07/24	NLK	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	21/11/23	SPS	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL TYPICAL INSTALLATION DETAILS-POWER SYSTEM & CABLE INSTALLATION
CABLES INSTALLATION SYSTEM IDENTIFICATION FOR POWER CABLES

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK | SCALE : NTS

A3 | DRAWING NO. 123A90-DDL-EL-DD-20092 | SHEET 007 | REV. 02

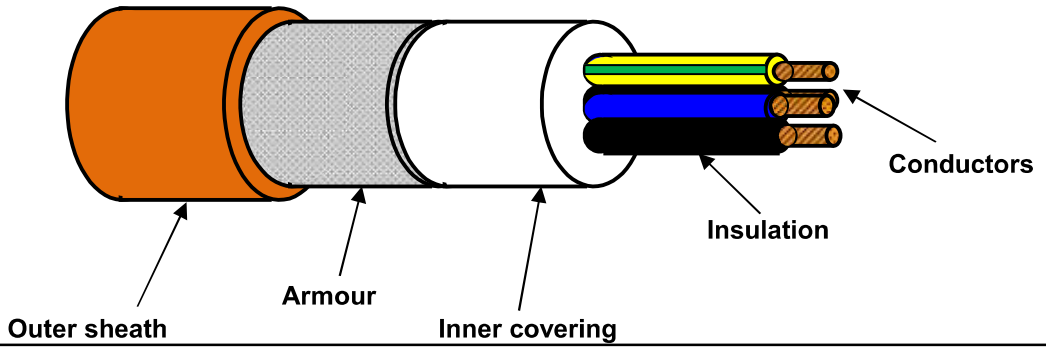
F.to UNI A3: 420mmx297mm

File Name : 123A90-DDL-EL-DD-20092 REV.02.DWG

Tag Number	Category	Disciplir	Eng Statu	NativeDoc	Layout	Parent Tag	Main Function	Secondary Fun	Area	From Tag	From Main Function	From Area	To Tag	To Main Function	To Area	Material ID	Material Desc.	Gland Standard	From Glan	From Entry	From Fitt	To Gland	To Entry	To Fitting	Routing	Routing Manual
P-EJB-200N1-02-L1-16	Cable	LSP	VFC	123A90-DDL-EL-LIS-20148						EJB-200N1-02-L1-15	Normal Lighting JB	Upper Deck	EJB-200N1-02-L1-16	Normal Lighting JB	Upper Deck	ELECV38-3G4	Cable Cu Cl.2/MGT/EPR/LSZH/GSWB/LSZH 0,6/1kV 3G4mm² - Orange	M20	T2_M20_ Double			T2_M20_Double				L-150-102-LVT-005

Cu Cl.2/MGT/EPR/LSZH/GSWB/LSZH 0,6/1 KV

3G4 - L.V. POWER CABLE - Fire Resistant & Flame Retardant - ARMOURED



TECHNICAL FEATURES

Conductors :	**STRANDED** plain/bare annealed copper wires	IEC 60228 Class 2
Insulation :	Mica/Glass Tape (MGT) plus EPR compound, quality to IEC 60092.360, Nominal Thickness 1,0 mm	
Cores colour code :	**Brown - Blue - Yellow/Green**	
Pair Assembling :	Not required	
Pair Wrapping:	Not required	
Drain wire :	Not required	
Pair Shield :	Not required	
Shield Insulation :	Not Required	
Total Assembling :	Cores layed up with optimal lay length	
Overall Wrapping:	Not required	
Drain wire :	Not required	
Overall Shield:	Not required	
Inner covering :	Extruded LSZH compound, Average Thickness 1,0 mm	
Inner covering color code:	**Black or Natural**	
Armour :	**Galvanized Steel Wire Braid Armour (coverage ≥ 90%)**	
Outer sheath :	Extruded LSZH Thermoplastic Compound (O.I. ≥ 30%), type **SHF1** to IEC 60093.360, Average Thickness 1,4 mm	
Outer sheath color code:	**Orange**	
Outer printing (INKJET) :	**FLEI - ELECTRIC CABLE - 1000V - 3G4 SQMM - MGT/EPR/LSZH/GSWB/LSZH - 0,6/1 KV - IEC 60331.21 -**	
	IEC 60332.1.2 - IEC 60332.3.22 - Year of Manufacture - CE + Meter Marking	
Under Armour diameter :	(13,0 ± 10%) mm	
Over Armour diameter :	(14,2 ± 10%) mm	
Outer diameter :	(17,0 ± 10%) mm	
Bending radius :	cable outer diameter x 10	(in fixed installation)
Voltage test :	3,5 kV a.c. for 5' (Between Cores - Armour)	
Conductors DC Resistance :		IEC 60228 Class 2
Insulation Resistance :	≥ 790 MΩ x Km (@ 20°C)	
Applicable Standards		
Design Guidelines :	**IEC 60092.353**	
ON COMPLETE CABLE		
Fire Resistant test :	**IEC 60331.21**	
Flame Retardant test :	IEC 60332.1.2 - IEC 60332.3.22	
Acid Gas generation :	IEC 60754.1/2	
Smoke density/Light Transmittance	IEC 61034.2 (LT ≥ 60%)	
Temperature Range :		
ON INSULATION	(max +90°C)	(max continuous operation temperature of conductors)
	(max +250°C)	(max conductors temperature during short-circuit for 5 seconds)
ON COMPLETE CABLE		
During Operation :	(-20°C up to +90°C)	(in fixed installation)
During installation :	(- 5°C up to +50°C)	
Note :	**To meet the requirements of installation and use in Zone 1 & Zone 2 (IEC 60079-14) and "Gas & Vapour Tight" the cable must be provided with Penetrating Inner covering together with correct ATEX approved equipment or accessories.**	

Office	Date	Sign	Rev.	Date	Sign
Drawn by :	29/03/2024	Messa			
Checked :	29/03/2024	Spaccasassi			
Approved :	29/03/2024	Cucinotta			

The data provided, lending assent for the treatment, will be used to the sense of the article 13 of of the Regulation (UE) 2016/679, also through outsiders, in order to allow the realization of the fulfilments informatives, administrative, commercial and accounting related to the contractual relationship. Integral copy of the informative could be requested at our offices.

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ITEM	Tag	P-ELF-200N1-02-L1-22	: Normal Lighting JB / Normal Lighting Fixture			Dwg	123A90-DDL-EL-LIS-20148
	S/Sys	83-40	: Normal Lighting Upper Deck			Module	UD
TASK	code	C10000698		Location	Onshore Activities	User	Rosetti Marino Quality Control
FORM	Process	MC	Activity CCK	Discipline	Electrical	Form	CPX09 LV Power Cable

CABLE DATA

Type Cu Cl.2/MGT/EPR/LSZH/GSWB/LSZH Cores/Size mm² 3G2,5 mm2 Color ORANGE

From EJB-200N1-02-L1-16 To ELF-200N1-02-L1-22

1	Confirm cable is as specified in project cable schedule	OK
2	Visual Check cable physical integrity.	OK
3	Check is installed in accordance with layout drawing (segregation, distance…).	PL
4	Check cable is supported and fixed to rack according to project specification.	Note
5	Check bending radius is within the specified limits.	OK
6	Confirm cable glands suit for cable type, correctly mounted and tightened.	OK
7	Check gland plate for single core cables is non ferrous (non -magnetic).	NA
8	Confirm cable labelling is in accordance with specifications.	PL
9	Check cable is correctly loomed and segregated in accordance with specification.	OK
10	Check cable earthing against lastest drawings.	PL
11	Check cores marking are in accordance with termination diagram	PL
12	Check terminations are in accordance with latest termination diagram	OK
13	If required produce Red Line Mark Up for "AS BUILT"	

ROSETTI MARINO | PROVERLIS | CROSSWIND

ITEM	Tag	P-ELF-200N1-02-L1-22	: Normal Lighting JB / Normal Lighting Fixture			Dwg	123A90-DDL-EL-LIS-20148
	S/Sys	83-40	: Normal Lighting Upper Deck			Module	UD
TASK	code	C10000698		Location	Onshore Activities	User	Rosetti Marino Quality Control
FORM	Process	MC	Activity CCK	Discipline	Electrical	Form	CPX09 LV Power Cable

CONTINUITY				
5	CORE CONTINUITY Ω	PH 1	0,2	
6		PH 2	0,2	
7		PH 3	NA	
8	ARMOUR CONTINUITY Ω		0.2	
9	PROTECTIVE CONDUCTOR CONTINUITY Ω		0.2	
INSULATION				
10	CORES / ARMOUR+EARTH MΩ	PH1 / PH2-PH3-A-E	>999	
11		PH2 / PH1-PH3-A-E	>999	
12		PH3 / PH1-PH2-A-E	NA	
13	CABLE IS CORRECTLY RE-CONNECTED.		Yes	

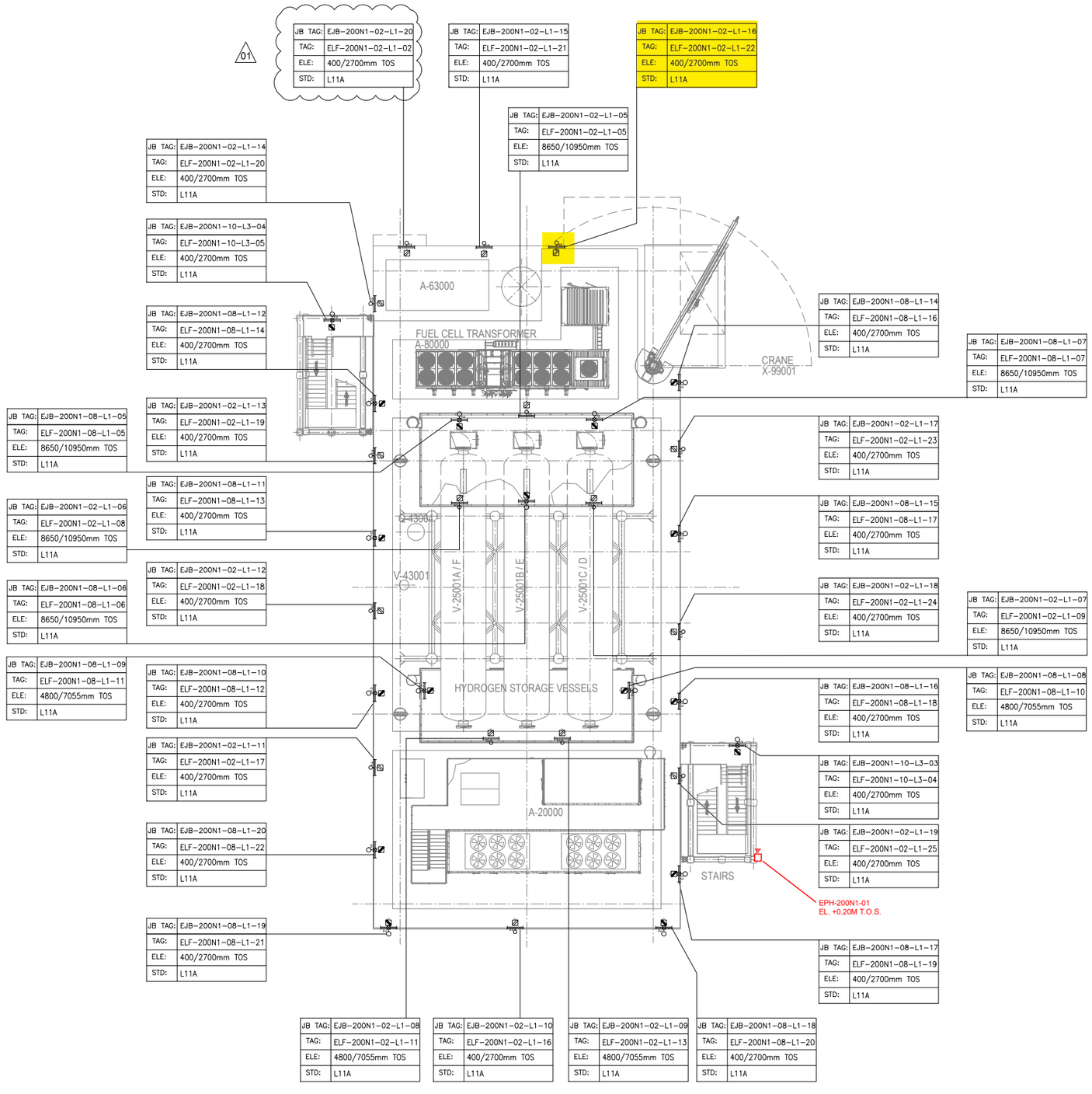
TESTING INSTRUMENTS USED			
TYPE / SERIAL N° :	MEGGER : KEW3125A SERIAL: W8330207	TYPE / SERIAL N° :	MULTIMETER: FLUKE 175 SERIAL:AW1/018(17140769
Calibration certificate N° and date:	N°7722/24 _ 10/07/2024	Calibration certificate N° and date:	N°7715/24 _ 10/07/2024

Comments: Nota 4: refer to PL C30000679

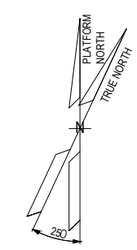
	Performed by	● WITNESS ☐ REVIEW	☐ WITNESS ☐ REVIEW
Company	ICS IMPIANTI	RM(ROSETTI MARINO)	
Name	Carmelo Bongiovanni	Andrea Andreani	
Date	2024-11-22	2024-12-07	
Signature	PROVERLIS Digitaly signed by Carmelo Bongiovanni 2024-11-22T17:18:28.295Z	PROVERLIS Digitaly signed by Andrea Andreani 2024-12-07T07:50:47.580Z	

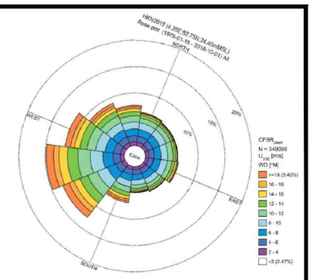
DRAWING NO. 123A90-DDL-EL-DL-20118

REV. 01



PLAN ON UPPER DECK
EL+30.310 T.O.S.





NOTES

1. ALL DIMENSIONS AND ELEVATIONS ARE GIVEN IN mm UNLESS OTHERWISE NOTED.
2. ELEVATIONS REFER TO T.O.S.
3. ELEVATION OF THE LAMPS ARE REFFERED TO THE BOTTOM OF THE LAMP.
4. FOR THE ELEVATION OF JB, REFER TO THE TYPICAL INSTALLATION.

LEGEND

- EMERGENCY LIGHTING JB
- 60W LED EMERGENCY LUMINARIES
- 60W LED EMERGENCY LUMINARIES FIXTURE POLE MOUNTED
- NORMAL LIGHTING JB
- 45W LED NORMAL LUMINARIES
- 45W LED NORMAL LUMINARIES FIXTURE POLE MOUNTED
- WELDING SOCKET WITH INTEGRATED JB
- SMALL POWER SOCKET WITH INTEGRATED JB
- TWILIGHT RELAY SENSOR

JB TAG:	JB-TAG
TAG:	TAG
ELE:	ELEVATION
STD:	STANDARD

VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DL-20118**

REV.:	DATE:	SIGNATURE:
1_B	22/10/24	G.Randi

ROSETTI MARINO SpA

REFERENCE DOCUMENTS

123A90-DDL-PP-DL-70070	PLOT PLAN - LOWER & UPPER DECK
123A90-DDL-EL-DL-20100	ELECTRICAL EQUIPMENT LAYOUT - TOP DECK
123A90-DDL-EL-DD-20091	ELECTRICAL TYPICAL INSTALLATION DETAILS - LIGHTING SYSTEM
123A90-DDL-EL-DD-20092	ELECTRICAL TYPICAL INSTALLATION DETAILS - POWER SYSTEM & CABLE INSTALLATION
123A90-DDL-EL-RE-20153	LIGHTING CALCULATION STUDY REPORT

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	02/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	28/05/24	ASR	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND | ROSETTI MARINO

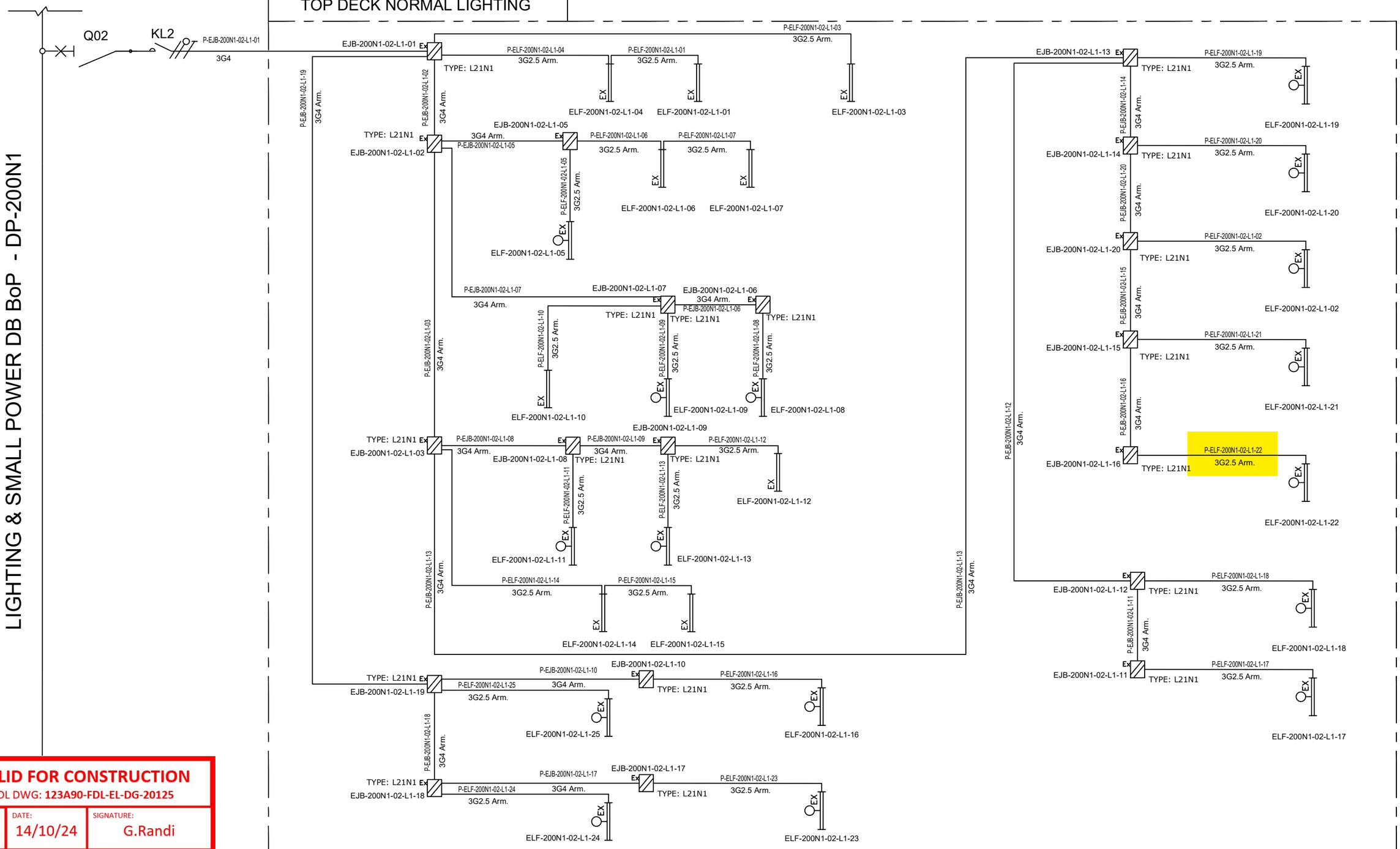
TITLE :
BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET LAYOUT – TOP DECK

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK			SCALE 1:150
DRAWN ASR	CHECKED FMA/AMA	APPROVED FPA/DLO	DATE 01/08/24
A1	DRAWING NO. 123A90-DDL-EL-DL-20118	SHEET 1of2	REV. 01

File Name : 123A90-DDL-EL-DL-20118

LIGHTING & SMALL POWER DB BoP - DP-200N1

TOP DECK NORMAL LIGHTING



VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DG-20125**

REV.:	DATE:	SIGNATURE:
1_B	14/10/24	G.Randi

ROSETTI MARINO SpA

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	08/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	01/07/24	ASR	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

TITLE : BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET CIRCUIT DIAGRAM
TOP DECK–NORMAL LIGHTING

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE : NTS

A3

DRAWING NO. 123A90-DDL-EL-DG-20125

SHEET 010

REV. 01

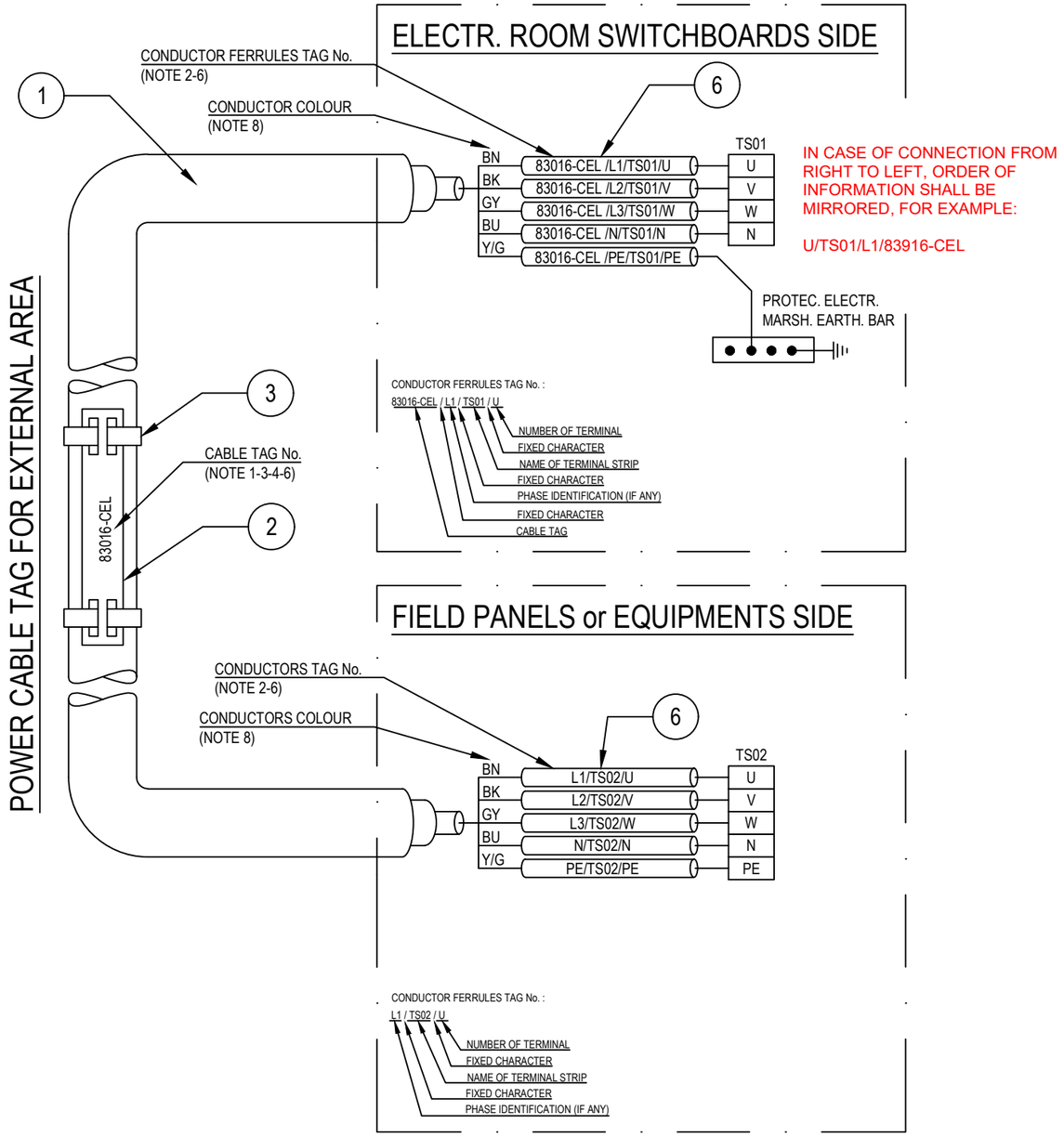
CROSSWIND

ROSETTI MARINO

F.to UNI A3: 420mmx297mm

File Name : 123A90-DDL-EL-DG-20125

C02



POS.	DESCRIPTION	MATERIAL	SIZE	Q.TY	NOTE
1	UNARMOURED CABLE				
2	CABLE TAG FOR EXTERNAL AREA	HDG/SS			NOTE 1 NOTE 4
3	TIE FOR CABLE TAG IN EXTERNAL AREA	HDG/SS			
4	CABLE TAG FOR INTERNAL AREA	PVC			NOTE 1 NOTE 5
5	TIE FOR CABLE TAG IN INTERNAL AREA	NYLON 6.6			
6	CORE FERRULES	PVC			

NOTES:

1) ALL CABLES SHALL BE IDENTIFIED AT EACH TERMINATION AND EACH SIDE OF ANY OBSTACLE (E.G. CABLE TRANSIT ON WALLS INSIDE SHELTER AND FLOOR DECK CROSSING, BY THEIR RESPECTIVE TAGS/NUMBERS, AS INDICATED ON THE CABLE SCHEDULE.
CABLE IDENTIFICATION SHALL BE ALSO DONE BELOW AND IN THE SWITCHBOARD CABLE COMPARTMENT.

2) CABLE CORE FERRULES SHALL BE FITTED AT EVERY TERMINATION. THESE FERRULES SHALL BE OF ENGRAVED PLASTIC SLIP ON, INTERLOCKED AND SELF GRIP TYPE.

3) ON CABLE TRAYS OR LADDERS, CABLES SHALL BE IDENTIFIED AT EACH END, AND EVERY 25 METERS.

4) THE CABLE TAG FOR EXTERNAL AREA SHALL DONE BY 316L STAINLESS STEEL LABELS, TAG (H=5mm) SHALL BE LASER PRINTED PREFERABLY OR EMBOSSED, LABEL HELD BY TWO 316L STAINLESS STEEL TIES.

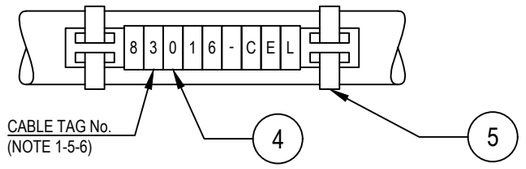
5) THE CABLE TAG FOR INTERNAL AREA SHALL BE DONE BY ENGRAVED PLASTIC SLIP ON CHARACTERS ONTO PLASTIC TIE, BLACK LETTER (H=5mm) ON WHITE.

6) CABLE AND CONDUCTOR TAG ARE INDICATIVE ONLY.

7) WITHIN TECHNICAL BUILDING, PROTECTIVE CONDUCTOR SHALL BE TAGGED BETWEEN FOLLOWING ITEMS:
- PANEL (SWITCHBOARD, SWITCHGEAR, DISTRIBUTION BOARD, ETC) AND EARTH BAR
- EARTH BAR AND EARTH BOSS

8) ONLY IF NECESSARY, SHRINK TUBES OF THE APPROPRIATE COLOR WILL BE INSTALLED TO COVER THE WRONG CONDUCTOR COLOR, THIS WILL BE PERFORMED IN EACH SIDE OF THE CABLES WHERE NECESSARY.

POWER CABLE TAG FOR INTERNAL AREA



VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DD-20092**

REV.:	DATE:	SIGNATURE:
2_B	28/11/24	G.Randi

ROSETTI MARINO SpA

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	28/08/24	GRA	AMA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	04/07/24	NLK	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	21/11/23	SPS	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL TYPICAL INSTALLATION DETAILS-POWER SYSTEM & CABLE INSTALLATION
CABLES INSTALLATION SYSTEM IDENTIFICATION FOR POWER CABLES

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK | SCALE : NTS

A3	DRAWING NO.	SHEET	REV.
	123A90-DDL-EL-DD-20092	007	02

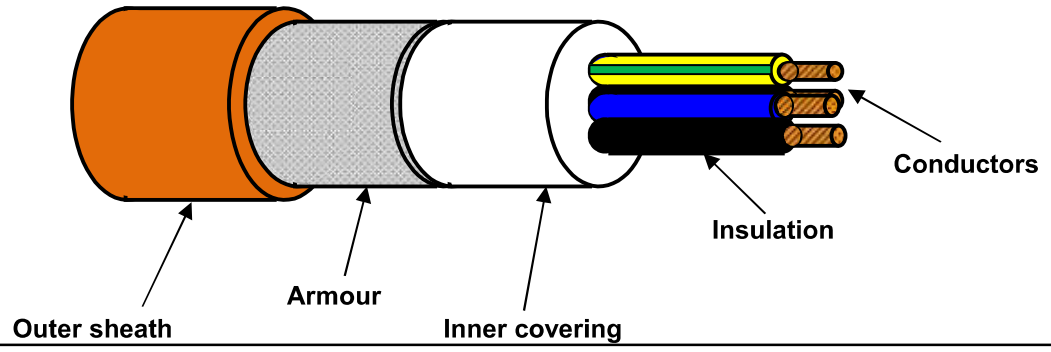
F.to UNI A3: 420mmx297mm

File Name : 123A90-DDL-EL-DD-20092 REV.02.DWG

Tag Number	Category	Discipline	Eng Status	NativeDoc	Layout	Parent Tag	Main Function	Secondary Function	Area	From Tag	From Main Function	From Area	To Tag	To Main Function	To Area	Material ID	Material Desc.	Gland Standard	From Gland	From Entry	From Fitting	To Gland	To Entry	To Fitting	Routing	Routing Manual
P-ELF-200N1-02-L1-22	Cable	LSP	VFC	123A90-DDL-EL-LIS-20148						EJB-200N1-02-L1-16	Normal Lighting JB	Upper Deck	ELF-200N1-02-L1-22	Normal Lighting Fixture	Upper Deck	ELECV19-3G2,5	Cable Cu Cl.2/MGT/EPR/LSZH/GSWB/LSZH 0,6/1kV 3G2,5mm² - Orange	M20	T2_M20_Double			T2_M20_Double				L-50-102-LVT-037

Cu Cl.2/MGT/EPR/LSZH/GSWB/LSZH 0,6/1 KV

3G2,5 - L.V. POWER CABLE - Fire Resistant & Flame Retardant - ARMOURED



TECHNICAL FEATURES

Conductors :	**STRANDED** plain/bare annealed copper wires	IEC 60228 Class 2
Insulation :	Mica/Glass Tape (MGT) plus EPR compound, quality to IEC 60092.360, Nominal Thickness 1,0 mm	
Cores colour code :	**Brown - Blue - Yellow/Green**	
Pair Assembling :	Not required	
Pair Wrapping:	Not required	
Drain wire :	Not required	
Pair Shield :	Not required	
Shield Insulation :	Not Required	
Total Assembling :	Cores layed up with optimal lay length	
Overall Wrapping:	Not required	
Drain wire :	Not required	
Overall Shield:	Not required	
Inner covering :	Extruded LSZH compound, Average Thickness 1,0 mm	
Inner covering color code:	**Black or Natural**	
Armour :	**Galvanized Steel Wire Braid Armour (coverage ≥ 90%)**	
Outer sheath :	Extruded LSZH Thermoplastic Compound (O.I. ≥ 30%), type **SHF1** to IEC 60093.360, Average Thickness 1,3 mm	
Outer sheath color code:	**Orange**	
Outer printing (INKJET) :	**FLEI - ELECTRIC CABLE - 1000V - 3G2,5 SQMM - MGT/EPR/LSZH/GSWB/LSZH - 0,6/1 KV - IEC 60331.21 - IEC 60332.1.2 - IEC 60332.3.22 - Year of Manufacture - CE + Meter Marking**	
Under Armour diameter :	(11,7 ± 10%) mm	
Over Armour diameter :	(12,9 ± 10%) mm	
Outer diameter :	(15,5 ± 10%) mm	
Bending radius :	cable outer diameter x 10	(in fixed installation)
Voltage test :	3,5 kV a.c. for 5' (Between Cores - Armour)	
Conductors DC Resistance :		IEC 60228 Class 2
Insulation Resistance :	≥ 940 MΩ x Km (@ 20°C)	
Applicable Standards		
Design Guidelines :	**IEC 60092.353**	
ON COMPLETE CABLE		
Fire Resistant test :	**IEC 60331.21**	
Flame Retardant test :	IEC 60332.1.2 - IEC 60332.3.22	
Acid Gas generation :	IEC 60754.1/2	
Smoke density/Light Transmittance	IEC 61034.2 (LT ≥ 60%)	
Temperature Range :		
ON INSULATION	(max +90°C)	(max continuous operation temperature of conductors)
	(max +250°C)	(max conductors temperature during short-circuit for 5 seconds)
ON COMPLETE CABLE		
During Operation :	(-20°C up to +90°C)	(in fixed installation)
During installation :	(- 5°C up to +50°C)	
Note :	**To meet the requirements of installation and use in Zone 1 & Zone 2 (IEC 60079-14) and "Gas & Vapour Tight" the cable must be provided with Penetrating Inner covering together with correct ATEX approved equipment or accessories.**	

Office	Date	Sign	Rev.	Date	Sign
Drawn by :	29/03/2024	Messa			
Checked :	29/03/2024	Spaccasassi			
Approved :	29/03/2024	Cucinotta			

The data provided, lending assent for the treatment, will be used to the sense of the article 13 of of the Regulation (UE) 2016/679, also through outsiders, in order to allow the realization of the fulfilments informatives, administrative, commercial and accounting related to the contractual relationship. Integral copy of the informative could be requested at our offices.

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ITEM	Tag	P-EJB-200N1-02-L1-17	: Normal Lighting JB / Normal Lighting JB			Dwg	123A90-DDL-EL-LIS-20148
	S/Sys	83-40	: Normal Lighting Upper Deck			Module	UD
TASK	code	C10000699		Location	Onshore Activities	User	Rosetti Marino Quality Control
FORM	Process	MC	Activity CCK	Discipline	Electrical	Form	CPX09 LV Power Cable

CABLE DATA

Type Cu Cl.2/MGT/EPR/LSZH/GSWB/LSZH Cores/Size mm² 3G4 mm2 Color ORANGE

From EJB-200N1-02-L1-18 To EJB-200N1-02-L1-17

1	Confirm cable is as specified in project cable schedule	OK
2	Visual Check cable physical integrity.	OK
3	Check is installed in accordance with layout drawing (segregation, distance…).	OK
4	Check cable is supported and fixed to rack according to project specification.	Note
5	Check bending radius is within the specified limits.	OK
6	Confirm cable glands suit for cable type, correctly mounted and tightened.	PL
7	Check gland plate for single core cables is non ferrous (non -magnetic).	NA
8	Confirm cable labelling is in accordance with specifications.	PL
9	Check cable is correctly loomed and segregated in accordance with specification.	OK
10	Check cable earthing against lastest drawings.	OK
11	Check cores marking are in accordance with termination diagram	OK
12	Check terminations are in accordance with latest termination diagram	PL
13	If required produce Red Line Mark Up for "AS BUILT"	

ROSETTI MARINO PROVERLIS CROSSWIND

ITEM	Tag	P-EJB-200N1-02-L1-17	: Normal Lighting JB / Normal Lighting JB			Dwg	123A90-DDL-EL-LIS-20148
	S/Sys	83-40	: Normal Lighting Upper Deck			Module	UD
TASK	code	C10000699		Location	Onshore Activities	User	Rosetti Marino Quality Control
FORM	Process	MC	Activity CCK	Discipline	Electrical	Form	CPX09 LV Power Cable

CONTINUITY				
5	CORE CONTINUITY Ω	PH 1	0,1	
6		PH 2	0,1	
7		PH 3	NA	
8	ARMOUR CONTINUITY Ω		0,1	
9	PROTECTIVE CONDUCTOR CONTINUITY Ω		0,1	
INSULATION				
10	CORES / ARMOUR+EARTH MΩ	PH1 / PH2-PH3-A-E	>999	
11		PH2 / PH1-PH3-A-E	>999	
12		PH3 / PH1-PH2-A-E	NA	
13	CABLE IS CORRECTLY RE-CONNECTED.		Yes	

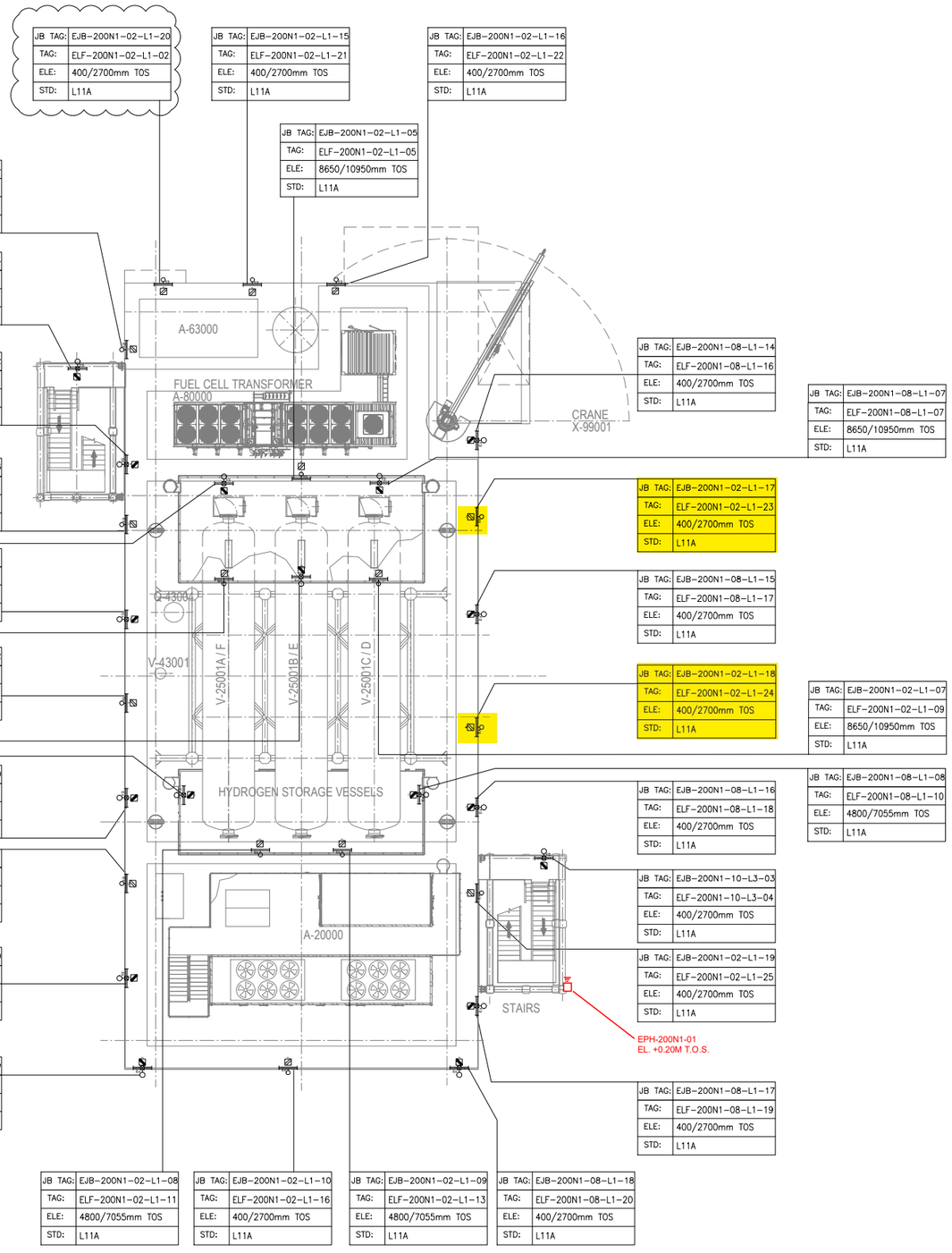
TESTING INSTRUMENTS USED			
TYPE / SERIAL N° :	MEGGER : KEW3125A SERIAL: W8330207	TYPE / SERIAL N° :	MULTIMETER: FLUKE 175 SERIAL:AW1/018(17140769)
Calibration certificate N° and date:	N°7722/24 _ 10/07/2024	Calibration certificate N° and date:	N°7715/24 _ 10/07/2024

Comments: Nota 4: refer to PL C30000679

	Performed by	● WITNESS ☐ REVIEW	☐ WITNESS ☐ REVIEW
Company	ICS IMPIANTI	RM(ROSETTI MARINO)	
Name	Francesco Zucca	Luca Mussi	
Date	2024-12-28	2024-12-28	
Signature	PROVERLIS Digitaly signed by Francesco Zucca 2024-12-28T07:30:07.625Z	PROVERLIS Digitaly signed by Luca Mussi 2024-12-28T11:59:16.472Z	

DRAWING NO. 123A90-DDL-EL-DL-20118

REV. 01



JB TAG:	EJB-200N1-02-L1-20
TAG:	ELF-200N1-02-L1-02
ELE:	400/2700mm TOS
STD:	L11A

JB TAG:	EJB-200N1-02-L1-15
TAG:	ELF-200N1-02-L1-21
ELE:	400/2700mm TOS
STD:	L11A

JB TAG:	EJB-200N1-02-L1-16
TAG:	ELF-200N1-02-L1-22
ELE:	400/2700mm TOS
STD:	L11A

JB TAG:	EJB-200N1-02-L1-05
TAG:	ELF-200N1-02-L1-05
ELE:	8650/10950mm TOS
STD:	L11A

JB TAG:	EJB-200N1-02-L1-14
TAG:	ELF-200N1-02-L1-20
ELE:	400/2700mm TOS
STD:	L11A

JB TAG:	EJB-200N1-10-L3-04
TAG:	ELF-200N1-10-L3-05
ELE:	400/2700mm TOS
STD:	L11A

JB TAG:	EJB-200N1-08-L1-12
TAG:	ELF-200N1-08-L1-14
ELE:	400/2700mm TOS
STD:	L11A

JB TAG:	EJB-200N1-08-L1-14
TAG:	ELF-200N1-08-L1-16
ELE:	400/2700mm TOS
STD:	L11A

JB TAG:	EJB-200N1-08-L1-07
TAG:	ELF-200N1-08-L1-07
ELE:	8650/10950mm TOS
STD:	L11A

JB TAG:	EJB-200N1-02-L1-13
TAG:	ELF-200N1-02-L1-19
ELE:	400/2700mm TOS
STD:	L11A

JB TAG:	EJB-200N1-08-L1-05
TAG:	ELF-200N1-08-L1-05
ELE:	8650/10950mm TOS
STD:	L11A

JB TAG:	EJB-200N1-02-L1-17
TAG:	ELF-200N1-02-L1-23
ELE:	400/2700mm TOS
STD:	L11A

JB TAG:	EJB-200N1-08-L1-11
TAG:	ELF-200N1-08-L1-13
ELE:	400/2700mm TOS
STD:	L11A

JB TAG:	EJB-200N1-08-L1-15
TAG:	ELF-200N1-08-L1-17
ELE:	400/2700mm TOS
STD:	L11A

JB TAG:	EJB-200N1-02-L1-06
TAG:	ELF-200N1-02-L1-08
ELE:	8650/10950mm TOS
STD:	L11A

JB TAG:	EJB-200N1-02-L1-12
TAG:	ELF-200N1-02-L1-18
ELE:	400/2700mm TOS
STD:	L11A

JB TAG:	EJB-200N1-02-L1-18
TAG:	ELF-200N1-02-L1-24
ELE:	400/2700mm TOS
STD:	L11A

JB TAG:	EJB-200N1-08-L1-06
TAG:	ELF-200N1-08-L1-06
ELE:	8650/10950mm TOS
STD:	L11A

JB TAG:	EJB-200N1-02-L1-07
TAG:	ELF-200N1-02-L1-09
ELE:	8650/10950mm TOS
STD:	L11A

JB TAG:	EJB-200N1-08-L1-09
TAG:	ELF-200N1-08-L1-11
ELE:	4800/7055mm TOS
STD:	L11A

JB TAG:	EJB-200N1-08-L1-10
TAG:	ELF-200N1-08-L1-12
ELE:	400/2700mm TOS
STD:	L11A

JB TAG:	EJB-200N1-08-L1-08
TAG:	ELF-200N1-08-L1-10
ELE:	4800/7055mm TOS
STD:	L11A

JB TAG:	EJB-200N1-08-L1-16
TAG:	ELF-200N1-08-L1-18
ELE:	400/2700mm TOS
STD:	L11A

JB TAG:	EJB-200N1-02-L1-11
TAG:	ELF-200N1-02-L1-17
ELE:	400/2700mm TOS
STD:	L11A

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TAG:	ELF-200N1-10-L3-04
ELE:	400/2700mm TOS
STD:	L11A

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TAG:	ELF-200N1-08-L1-22
ELE:	400/2700mm TOS
STD:	L11A

JB TAG:	EJB-200N1-02-L1-19
TAG:	ELF-200N1-02-L1-25
ELE:	400/2700mm TOS
STD:	L11A

JB TAG:	EJB-200N1-08-L1-19
TAG:	ELF-200N1-08-L1-21
ELE:	400/2700mm TOS
STD:	L11A

JB TAG:	EJB-200N1-08-L1-17
TAG:	ELF-200N1-08-L1-19
ELE:	400/2700mm TOS
STD:	L11A

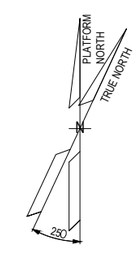
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STD:	L11A

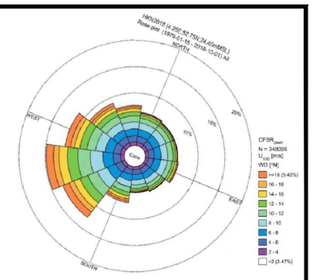
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TAG:	ELF-200N1-02-L1-16
ELE:	400/2700mm TOS
STD:	L11A

JB TAG:	EJB-200N1-02-L1-09
TAG:	ELF-200N1-02-L1-13
ELE:	4800/7055mm TOS
STD:	L11A

JB TAG:	EJB-200N1-08-L1-18
TAG:	ELF-200N1-08-L1-20
ELE:	400/2700mm TOS
STD:	L11A

PLAN ON UPPER DECK
EL+30.310 T.O.S.





NOTES

1. ALL DIMENSIONS AND ELEVATIONS ARE GIVEN IN mm UNLESS OTHERWISE NOTED.
2. ELEVATIONS REFER TO T.O.S.
3. ELEVATION OF THE LAMPS ARE REFFERED TO THE BOTTOM OF THE LAMP.
4. FOR THE ELEVATION OF JB, REFER TO THE TYPICAL INSTALLATION.

LEGEND

- EMERGENCY LIGHTING JB
- 60W LED EMERGENCY LUMINARIES
- 60W LED EMERGENCY LUMINARIES FIXTURE POLE MOUNTED
- NORMAL LIGHTING JB
- 45W LED NORMAL LUMINARIES
- 45W LED NORMAL LUMINARIES FIXTURE POLE MOUNTED
- WELDING SOCKET WITH INTEGRATED JB
- SMALL POWER SOCKET WITH INTEGRATED JB
- TWILIGHT RELAY SENSOR

JB TAG:	JB-TAG
TAG:	TAG
ELE:	ELEVATION
STD:	STANDARD

VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DL-20118**

REV.:	DATE:	SIGNATURE:
1_B	22/10/24	G.Randi

ROSETTI MARINO SpA

REFERENCE DOCUMENTS

123A90-DDL-PP-DL-70070	PLOT PLAN - LOWER & UPPER DECK
123A90-DDL-EL-DL-20100	ELECTRICAL EQUIPMENT LAYOUT - TOP DECK
123A90-DDL-EL-DD-20091	ELECTRICAL TYPICAL INSTALLATION DETAILS - LIGHTING SYSTEM
123A90-DDL-EL-DD-20092	ELECTRICAL TYPICAL INSTALLATION DETAILS - POWER SYSTEM & CABLE INSTALLATION
123A90-DDL-EL-RE-20153	LIGHTING CALCULATION STUDY REPORT

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	02/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	28/05/24	ASR	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND | ROSETTI MARINO

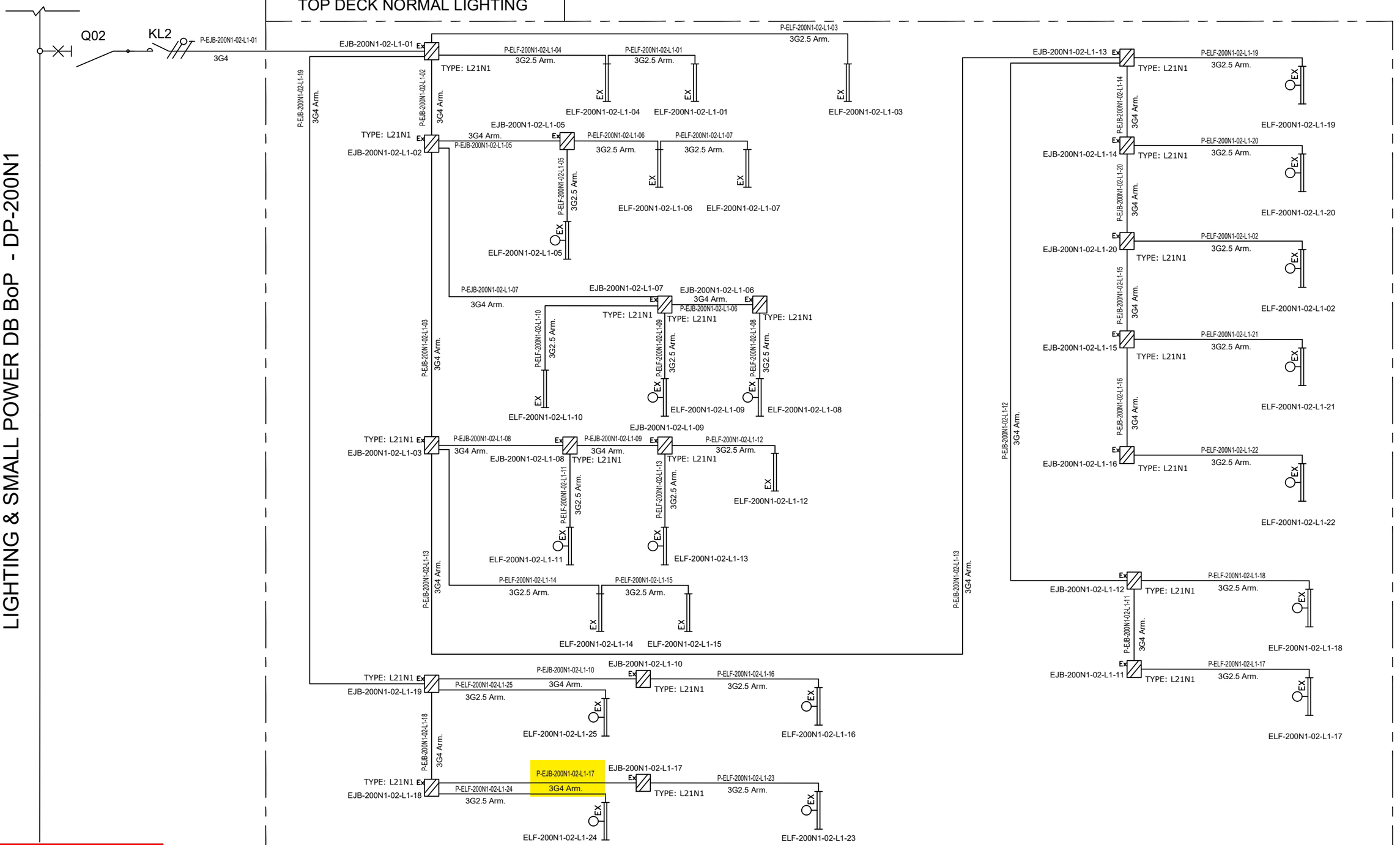
TITLE :
BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET LAYOUT – TOP DECK

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK			SCALE 1:150
DRAWN ASR	CHECKED FMA/AMA	APPROVED FPA/DLO	DATE 01/08/24
A1	DRAWING NO. 123A90-DDL-EL-DL-20118	SHEET 1of2	REV. 01

File Name : 123A90-DDL-EL-DL-20118

LIGHTING & SMALL POWER DB BoP - DP-200N1

TOP DECK NORMAL LIGHTING



VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DG-20125**

REV.:	DATE:	SIGNATURE:
2_C	20/12/24	V.Ramponi

ROSETTI MARINO SpA

CROSSWIND

ROSETTI MARINO

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	08/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	01/07/24	ASR	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

TITLE : BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET CIRCUIT DIAGRAM
TOP DECK–NORMAL LIGHTING

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE : NTS

A3

DRAWING NO. 123A90–DDL–EL–DG–20125

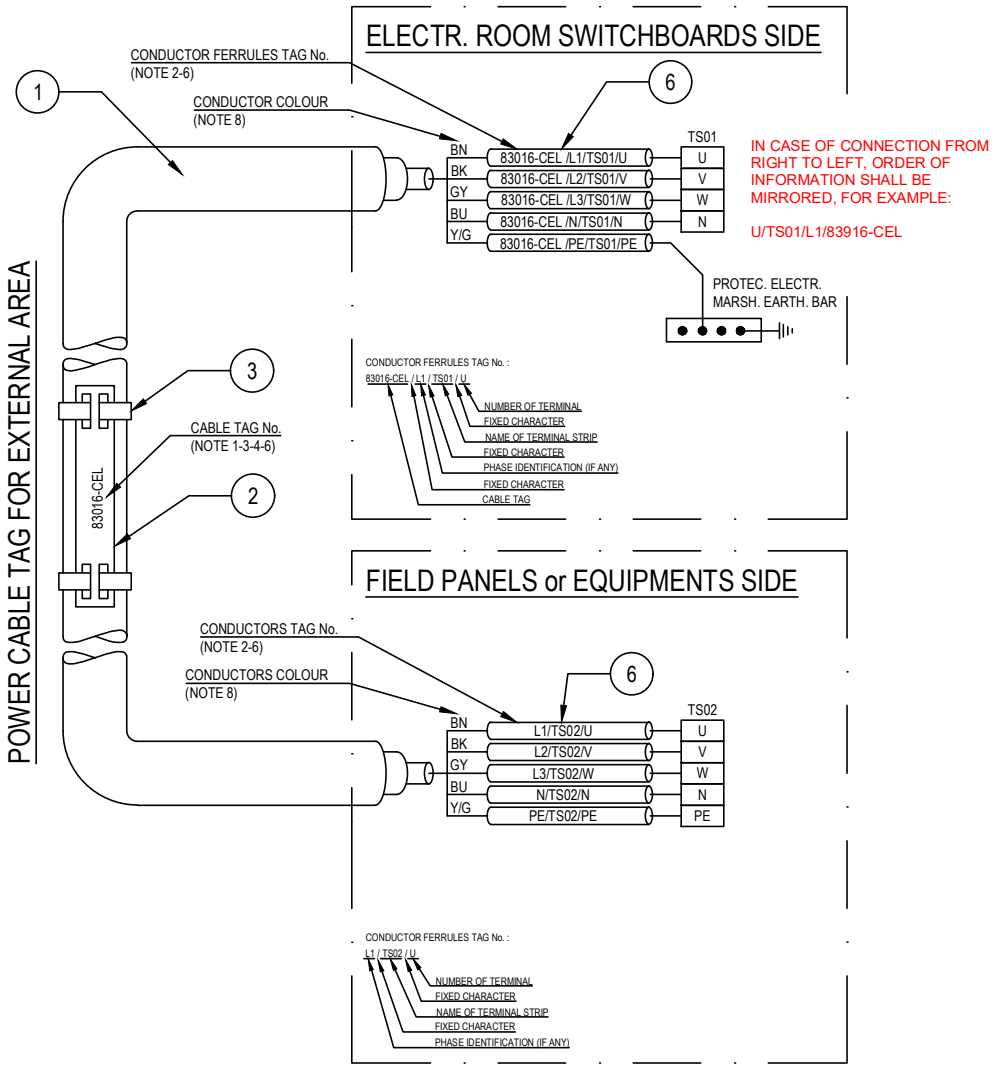
SHEET 010

REV. 01

F.to UNI A3: 420mmx297mm

File Name : 123A90–DDL–EL–DG–20125

C02



POS.	DESCRIPTION	MATERIAL	SIZE	Q.TY	NOTE
1	UNARMOURED CABLE				
2	CABLE TAG FOR EXTERNAL AREA	HDG/SS			NOTE 1 NOTE 4
3	TIE FOR CABLE TAG IN EXTERNAL AREA	HDG/SS			
4	CABLE TAG FOR INTERNAL AREA	PVC			NOTE 1 NOTE 5
5	TIE FOR CABLE TAG IN INTERNAL AREA	NYLON 6.6			
6	CORE FERRULES	PVC			

NOTES:

1) ALL CABLES SHALL BE IDENTIFIED AT EACH TERMINATION AND EACH SIDE OF ANY OBSTACLE (E.G. CABLE TRANSIT ON WALLS INSIDE SHELTER AND FLOOR DECK CROSSING, BY THEIR RESPECTIVE TAGS/NUMBERS, AS INDICATED ON THE CABLE SCHEDULE.
CABLE IDENTIFICATION SHALL BE ALSO DONE BELOW AND IN THE SWITCHBOARD CABLE COMPARTMENT.

2) CABLE CORE FERRULES SHALL BE FITTED AT EVERY TERMINATION. THESE FERRULES SHALL BE OF ENGRAVED PLASTIC SLIP ON, INTERLOCKED AND SELF GRIP TYPE.

3) ON CABLE TRAYS OR LADDERS, CABLES SHALL BE IDENTIFIED AT EACH END, AND EVERY 25 METERS.

4) THE CABLE TAG FOR EXTERNAL AREA SHALL DONE BY 316L STAINLESS STEEL LABELS, TAG (H=5mm) SHALL BE LASER PRINTED PREFERABLY OR EMBOSSED, LABEL HELD BY TWO 316L STAINLESS STEEL TIES.

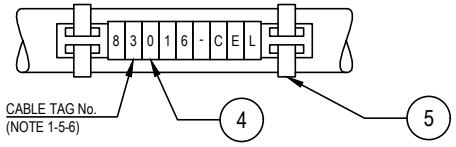
5) THE CABLE TAG FOR INTERNAL AREA SHALL BE DONE BY ENGRAVED PLASTIC SLIP ON CHARACTERS ONTO PLASTIC TIE, BLACK LETTER (H=5mm) ON WHITE.

6) CABLE AND CONDUCTOR TAG ARE INDICATIVE ONLY.

7) WITHIN TECHNICAL BUILDING, PROTECTIVE CONDUCTOR SHALL BE TAGGED BETWEEN FOLLOWING ITEMS:
- PANEL (SWITCHBOARD, SWITCHGEAR, DISTRIBUTION BOARD, ETC) AND EARTH BAR
- EARTH BAR AND EARTH BOSS

8) ONLY IF NECESSARY, SHRINK TUBES OF THE APPROPRIATE COLOR WILL BE INSTALLED TO COVER THE WRONG CONDUCTOR COLOR, THIS WILL BE PERFORMED IN EACH SIDE OF THE CABLES WHERE NECESSARY.

POWER CABLE TAG FOR INTERNAL AREA



VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DD-20092**

REV.:	DATE:	SIGNATURE:
2_D	20/12/24	V.Ramponi

ROSETTI MARINO SpA

CROSSWIND

ROSETTI MARINO

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	28/08/24	GRA	AMA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	04/07/24	NLK	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	21/11/23	SPS	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL TYPICAL INSTALLATION DETAILS-POWER SYSTEM & CABLE INSTALLATION
CABLES INSTALLATION SYSTEM IDENTIFICATION FOR POWER CABLES

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK | SCALE : NTS

A3 | DRAWING NO. 123A90-DDL-EL-DD-20092 | SHEET 007 | REV. 02

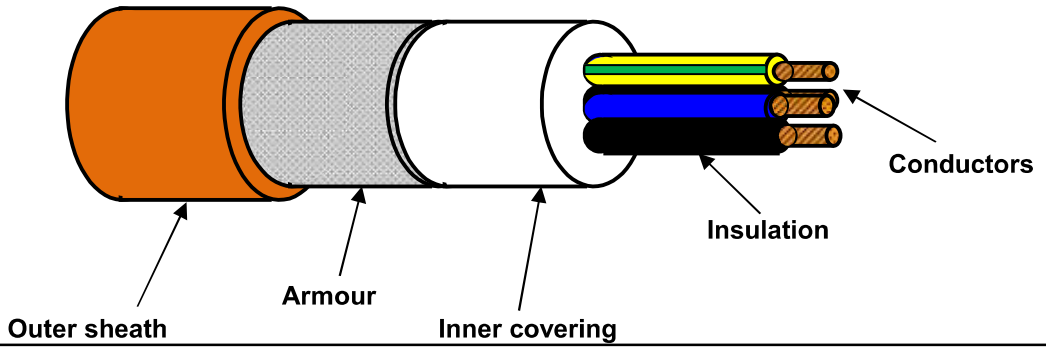
F.to UNI A3: 420mmx297mm

File Name : 123A90-DDL-EL-DD-20092 REV.02.DWG

Tag Number	Category	Disciplir	Eng Statu	NativeDoc	Layout	Parent Tag	Main Function	Secondary Fun	Area	From Tag	From Main Function	From Area	To Tag	To Main Function	To Area	Material ID	Material Desc.	Gland Standard	From Glan	From Entry	From Fitt	To Gland	To Entry	To Fitting	Routing	Routing Manual
P-EJB-200N1-02-L1-17	Cable	LSP	VFC	123A90-DDL-EL-LIS-20148						EJB-200N1-02-L1-18	Normal Lighting JB	Upper Deck	EJB-200N1-02-L1-17	Normal Lighting JB	Upper Deck	ELECV38-3G4	Cable Cu Cl.2/MGT/EPR/LSZH/GSWB/LSZH 0,6/1kV 3G4mm² - Orange	M20	T2_M20_ Double			T2_M20_Double				L-150-102-LVT-003

Cu Cl.2/MGT/EPR/LSZH/GSWB/LSZH 0,6/1 KV

3G4 - L.V. POWER CABLE - Fire Resistant & Flame Retardant - ARMOURED



TECHNICAL FEATURES

Conductors :	**STRANDED** plain/bare annealed copper wires	IEC 60228 Class 2
Insulation :	Mica/Glass Tape (MGT) plus EPR compound, quality to IEC 60092.360, Nominal Thickness 1,0 mm	
Cores colour code :	**Brown - Blue - Yellow/Green**	
Pair Assembling :	Not required	
Pair Wrapping:	Not required	
Drain wire :	Not required	
Pair Shield :	Not required	
Shield Insulation :	Not Required	
Total Assembling :	Cores layed up with optimal lay length	
Overall Wrapping:	Not required	
Drain wire :	Not required	
Overall Shield:	Not required	
Inner covering :	Extruded LSZH compound, Average Thickness 1,0 mm	
Inner covering color code:	**Black or Natural**	
Armour :	**Galvanized Steel Wire Braid Armour (coverage ≥ 90%)**	
Outer sheath :	Extruded LSZH Thermoplastic Compound (O.I. ≥ 30%), type **SHF1** to IEC 60093.360, Average Thickness 1,4 mm	
Outer sheath color code:	**Orange**	
Outer printing (INKJET) :	**FLEI - ELECTRIC CABLE - 1000V - 3G4 SQMM - MGT/EPR/LSZH/GSWB/LSZH - 0,6/1 KV - IEC 60331.21 -**	
	IEC 60332.1.2 - IEC 60332.3.22 - Year of Manufacture - CE + Meter Marking	
Under Armour diameter :	(13,0 ± 10%) mm	
Over Armour diameter :	(14,2 ± 10%) mm	
Outer diameter :	(17,0 ± 10%) mm	
Bending radius :	cable outer diameter x 10	(in fixed installation)
Voltage test :	3,5 kV a.c. for 5' (Between Cores - Armour)	
Conductors DC Resistance :		IEC 60228 Class 2
Insulation Resistance :	≥ 790 MΩ x Km (@ 20°C)	
Applicable Standards		
Design Guidelines :	**IEC 60092.353**	
ON COMPLETE CABLE		
Fire Resistant test :	**IEC 60331.21**	
Flame Retardant test :	IEC 60332.1.2 - IEC 60332.3.22	
Acid Gas generation :	IEC 60754.1/2	
Smoke density/Light Transmittance	IEC 61034.2 (LT ≥ 60%)	
Temperature Range :		
ON INSULATION	(max +90°C)	(max continuous operation temperature of conductors)
	(max +250°C)	(max conductors temperature during short-circuit for 5 seconds)
ON COMPLETE CABLE		
During Operation :	(-20°C up to +90°C)	(in fixed installation)
During installation :	(- 5°C up to +50°C)	
Note :	**To meet the requirements of installation and use in Zone 1 & Zone 2 (IEC 60079-14) and "Gas & Vapour Tight" the cable must be provided with Penetrating Inner covering together with correct ATEX approved equipment or accessories.**	

Office	Date	Sign	Rev.	Date	Sign
Drawn by :	29/03/2024	Messa			
Checked :	29/03/2024	Spaccasassi			
Approved :	29/03/2024	Cucinotta			

The data provided, lending assent for the treatment, will be used to the sense of the article 13 of of the Regulation (UE) 2016/679, also through outsiders, in order to allow the realization of the fulfilments informatives, administrative, commercial and accounting related to the contractual relationship. Integral copy of the informative could be requested at our offices.

All proprietary rights reserved according to law. This document shall be not reproduced without written permission. FLEI reserves the right to change characteristics and technical data of product shown at any time.

ITEM	Tag	P-ELF-200N1-02-L1-23	: Normal Lighting JB / Normal Lighting Fixture		Dwg	123A90-DDL-EL-LIS-20148	
	S/Sys	83-40	: Normal Lighting Upper Deck		Module	UD	
TASK	code	C10000700	Location	Onshore Activities	User	Rosetti Marino Quality Control	
FORM	Process	MC	Activity CCK	Discipline Electrical	Form	CPX09	LV Power Cable

CABLE DATA

Type Cu Cl.2/MGT/EPR/LSZH/GSWB/LSZH Cores/Size mm² 3G2,5 mm2 Color ORANGE

From EJB-200N1-02-L1-17 To ELF-200N1-02-L1-23

1	Confirm cable is as specified in project cable schedule	OK
2	Visual Check cable physical integrity.	OK
3	Check is installed in accordance with layout drawing (segregation, distance…).	PL
4	Check cable is supported and fixed to rack according to project specification.	Note
5	Check bending radius is within the specified limits.	OK
6	Confirm cable glands suit for cable type, correctly mounted and tightened.	PL
7	Check gland plate for single core cables is non ferrous (non -magnetic).	NA
8	Confirm cable labelling is in accordance with specifications.	PL
9	Check cable is correctly loomed and segregated in accordance with specification.	OK
10	Check cable earthing against lastest drawings.	OK
11	Check cores marking are in accordance with termination diagram	PL
12	Check terminations are in accordance with latest termination diagram	OK
13	If required produce Red Line Mark Up for "AS BUILT"	

ROSETTI MARINO PROVERLIS CROSSWIND

ITEM	Tag	P-ELF-200N1-02-L1-23	: Normal Lighting JB / Normal Lighting Fixture			Dwg	123A90-DDL-EL-LIS-20148
	S/Sys	83-40	: Normal Lighting Upper Deck			Module	UD
TASK	code	C10000700		Location	Onshore Activities	User	Rosetti Marino Quality Control
FORM	Process	MC	Activity CCK	Discipline	Electrical	Form	CPX09 LV Power Cable

	CONTINUITY			
5	CORE CONTINUITY Ω	PH 1	0,2	
6		PH 2	0,2	
7		PH 3	NA	
8	ARMOUR CONTINUITY Ω		0,2	
9	PROTECTIVE CONDUCTOR CONTINUITY Ω		0,2	
	INSULATION			
10	CORES / ARMOUR+EARTH MΩ	PH1 / PH2-PH3-A-E	>999	
11		PH2 / PH1-PH3-A-E	>999	
12		PH3 / PH1-PH2-A-E	NA	
13	CABLE IS CORRECTLY RE-CONNECTED.		Yes	

TESTING INSTRUMENTS USED

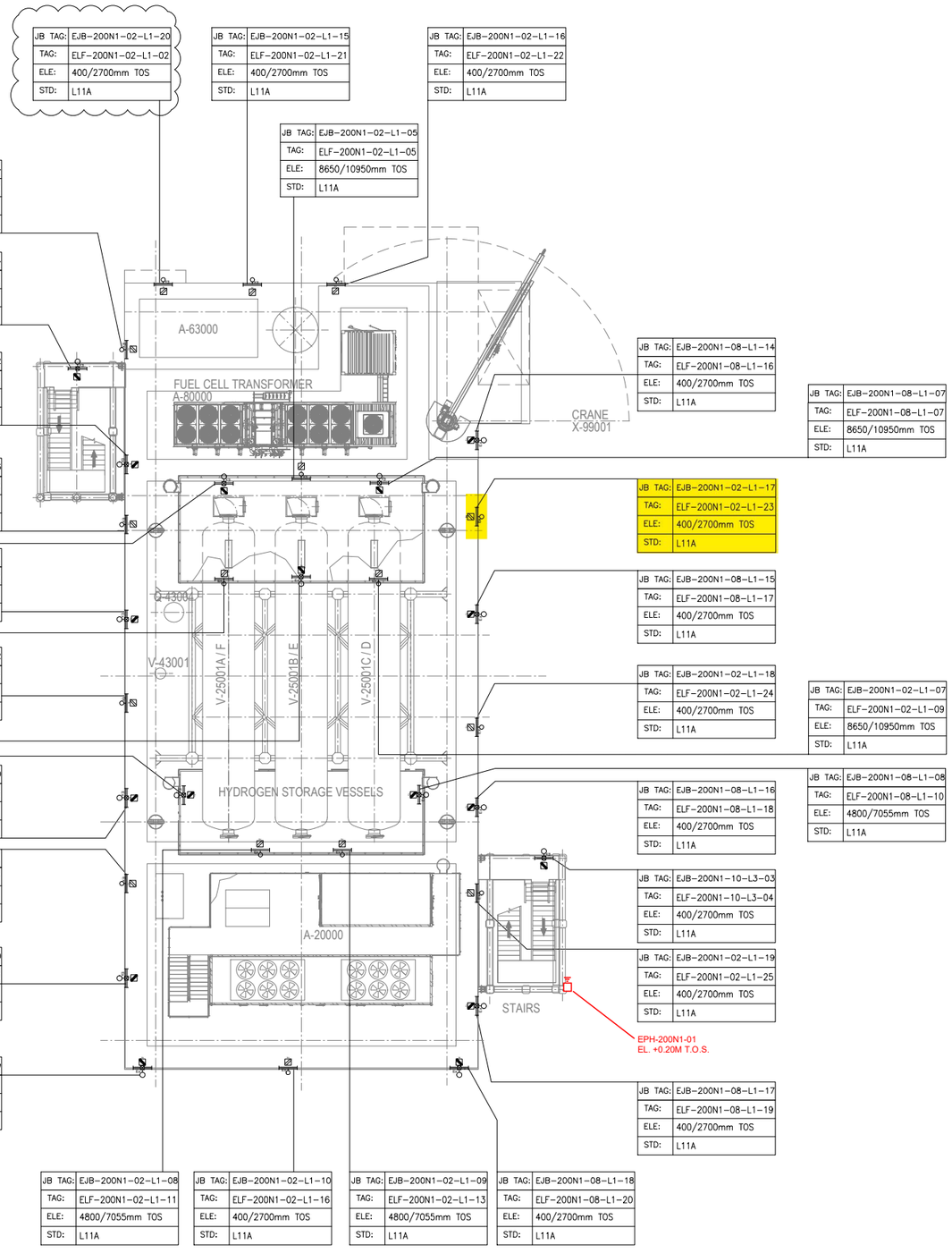
TYPE / SERIAL N° :	MEGGER : KEW3125A SERIAL: W8330207	TYPE / SERIAL N° :	MULTIMETER: FLUKE 175 SERIAL:AW1/018(17140769
Calibration certificate N° and date:	N°7722/24 _ 10/07/2024	Calibration certificate N° and date:	N°7715/24 _ 10/07/2024

Comments: Nota 4: refer to PL C30000679

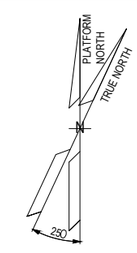
	Performed by	● WITNESS ☐ REVIEW	☐ WITNESS ☐ REVIEW
Company	ICS IMPIANTI	RM(ROSETTI MARINO)	
Name	Francesco Zucca	Luca Mussi	
Date	2024-12-05	2024-12-06	
Signature	PROVERLIS Digitaly signed by Francesco Zucca 2024-12-05T18:13:56.335Z	PROVERLIS Digitaly signed by Luca Mussi 2024-12-06T18:05:40.345Z	

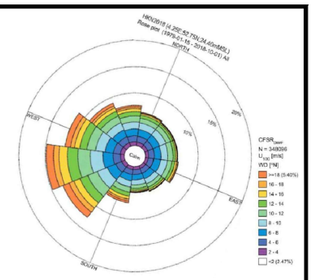
DRAWING NO. 123A90-DDL-EL-DL-20118

REV. 01



PLAN ON UPPER DECK
EL+30.310 T.O.S.





NOTES

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- 60W LED EMERGENCY LUMINARIES
- 60W LED EMERGENCY LUMINARIES FIXTURE POLE MOUNTED
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- 45W LED NORMAL LUMINARIES
- 45W LED NORMAL LUMINARIES FIXTURE POLE MOUNTED
- WELDING SOCKET WITH INTEGRATED JB
- SMALL POWER SOCKET WITH INTEGRATED JB
- TWILIGHT RELAY SENSOR

JB TAG:	JB-TAG
TAG:	TAG
ELE:	ELEVATION
STD:	STANDARD

VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DL-20118**

REV.:	DATE:	SIGNATURE:
1_B	22/10/24	G.Randi

ROSETTI MARINO SpA

REFERENCE DOCUMENTS

123A90-DDL-PP-DL-70070	PLOT PLAN - LOWER & UPPER DECK
123A90-DDL-EL-DL-20100	ELECTRICAL EQUIPMENT LAYOUT - TOP DECK
123A90-DDL-EL-DD-20091	ELECTRICAL TYPICAL INSTALLATION DETAILS - LIGHTING SYSTEM
123A90-DDL-EL-DD-20092	ELECTRICAL TYPICAL INSTALLATION DETAILS - POWER SYSTEM & CABLE INSTALLATION
123A90-DDL-EL-RE-20153	LIGHTING CALCULATION STUDY REPORT

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	02/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	28/05/24	ASR	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND | ROSETTI MARINO

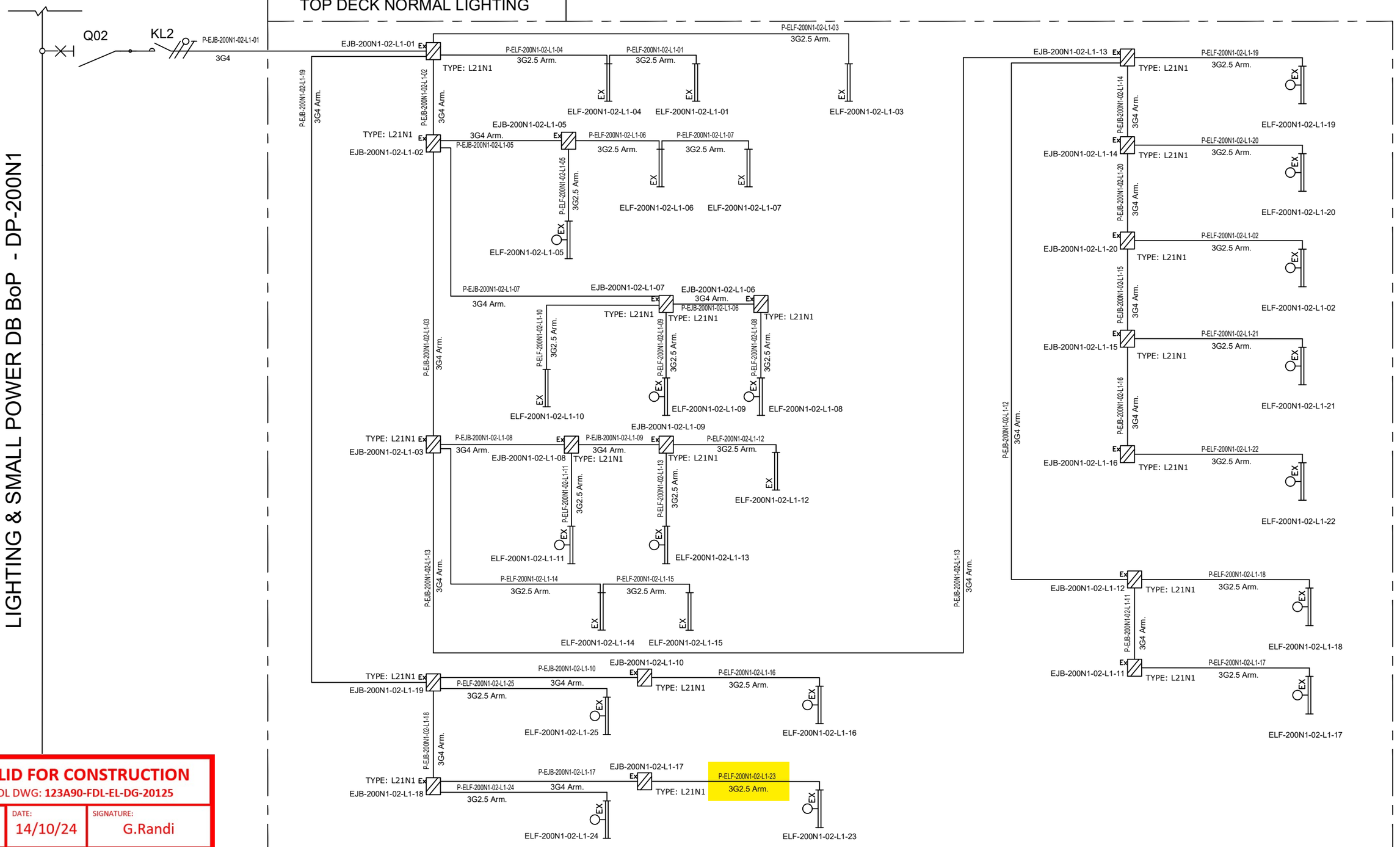
TITLE :
BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET LAYOUT – TOP DECK

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK			SCALE 1:150
DRAWN ASR	CHECKED FMA/AMA	APPROVED FPA/DLO	DATE 01/08/24
A1	DRAWING NO. 123A90-DDL-EL-DL-20118	SHEET 1of2	REV. 01

File Name : 123A90-DDL-EL-DL-20118

LIGHTING & SMALL POWER DB BoP - DP-200N1

TOP DECK NORMAL LIGHTING



VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DG-20125**

REV.:	DATE:	SIGNATURE:
1_B	14/10/24	G.Randi

ROSETTI MARINO SpA

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	08/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	01/07/24	ASR	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

TITLE : BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET CIRCUIT DIAGRAM
TOP DECK–NORMAL LIGHTING

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE : NTS

A3

DRAWING NO. 123A90-DDL-EL-DG-20125

SHEET 010

REV. 01

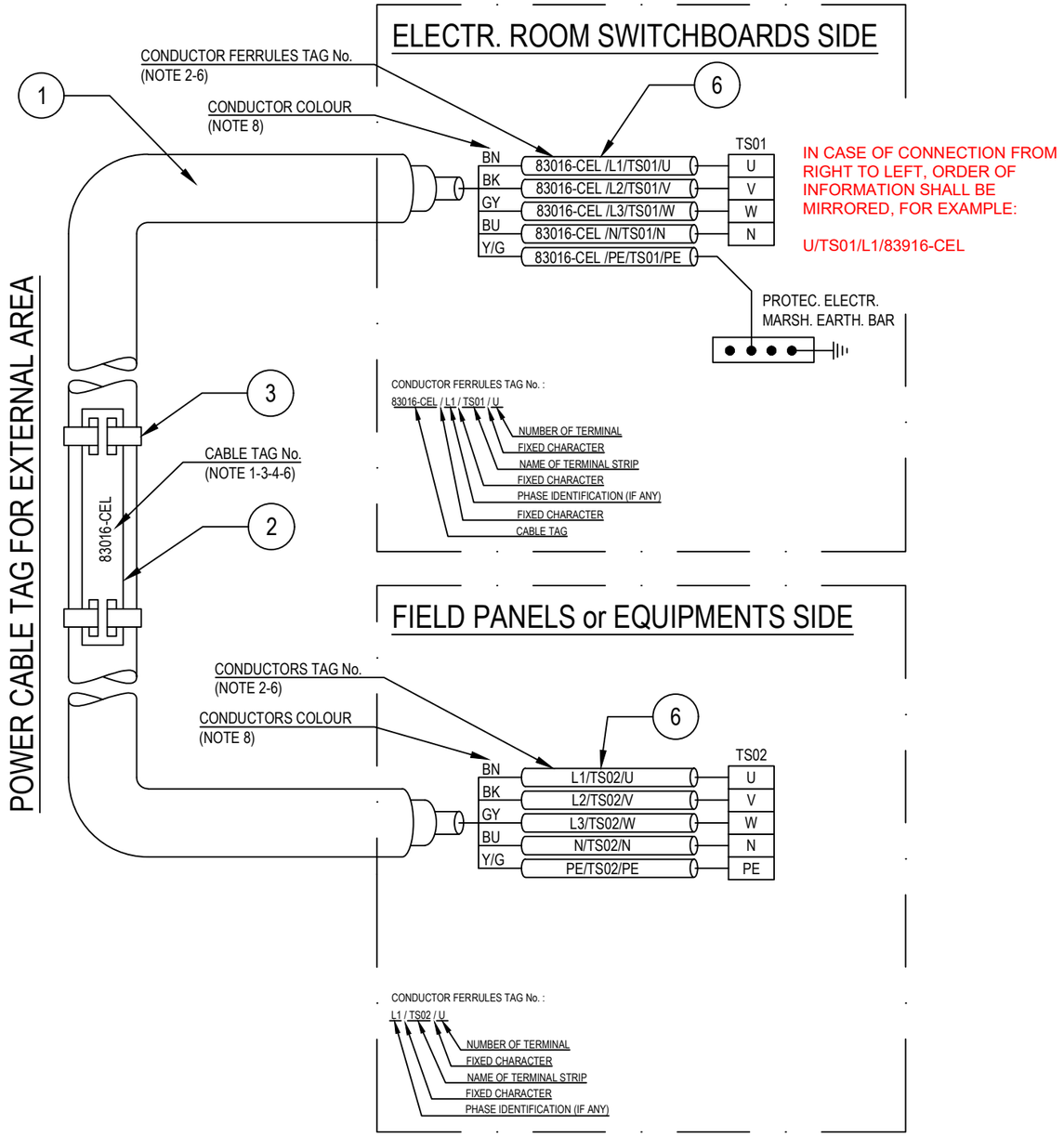
CROSSWIND

ROSETTI MARINO

F.to UNI A3: 420mmx297mm

File Name : 123A90-DDL-EL-DG-20125

C02



POS.	DESCRIPTION	MATERIAL	SIZE	Q.TY	NOTE
1	UNARMOURED CABLE				
2	CABLE TAG FOR EXTERNAL AREA	HDG/SS			NOTE 1 NOTE 4
3	TIE FOR CABLE TAG IN EXTERNAL AREA	HDG/SS			
4	CABLE TAG FOR INTERNAL AREA	PVC			NOTE 1 NOTE 5
5	TIE FOR CABLE TAG IN INTERNAL AREA	NYLON 6.6			
6	CORE FERRULES	PVC			

NOTES:

1) ALL CABLES SHALL BE IDENTIFIED AT EACH TERMINATION AND EACH SIDE OF ANY OBSTACLE (E.G. CABLE TRANSIT ON WALLS INSIDE SHELTER AND FLOOR DECK CROSSING, BY THEIR RESPECTIVE TAGS/NUMBERS, AS INDICATED ON THE CABLE SCHEDULE.
CABLE IDENTIFICATION SHALL BE ALSO DONE BELOW AND IN THE SWITCHBOARD CABLE COMPARTMENT.

2) CABLE CORE FERRULES SHALL BE FITTED AT EVERY TERMINATION. THESE FERRULES SHALL BE OF ENGRAVED PLASTIC SLIP ON, INTERLOCKED AND SELF GRIP TYPE.

3) ON CABLE TRAYS OR LADDERS, CABLES SHALL BE IDENTIFIED AT EACH END, AND EVERY 25 METERS.

4) THE CABLE TAG FOR EXTERNAL AREA SHALL DONE BY 316L STAINLESS STEEL LABELS, TAG (H=5mm) SHALL BE LASER PRINTED PREFERABLY OR EMBOSSED, LABEL HELD BY TWO 316L STAINLESS STEEL TIES.

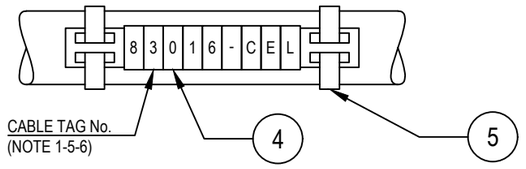
5) THE CABLE TAG FOR INTERNAL AREA SHALL BE DONE BY ENGRAVED PLASTIC SLIP ON CHARACTERS ONTO PLASTIC TIE, BLACK LETTER (H=5mm) ON WHITE.

6) CABLE AND CONDUCTOR TAG ARE INDICATIVE ONLY.

7) WITHIN TECHNICAL BUILDING, PROTECTIVE CONDUCTOR SHALL BE TAGGED BETWEEN FOLLOWING ITEMS:
- PANEL (SWITCHBOARD, SWITCHGEAR, DISTRIBUTION BOARD, ETC) AND EARTH BAR
- EARTH BAR AND EARTH BOSS

8) ONLY IF NECESSARY, SHRINK TUBES OF THE APPROPRIATE COLOR WILL BE INSTALLED TO COVER THE WRONG CONDUCTOR COLOR, THIS WILL BE PERFORMED IN EACH SIDE OF THE CABLES WHERE NECESSARY.

POWER CABLE TAG FOR INTERNAL AREA



VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DD-20092**

REV.:	DATE:	SIGNATURE:
2_B	28/11/24	G.Randi

ROSETTI MARINO SpA

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	28/08/24	GRA	AMA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	04/07/24	NLK	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	21/11/23	SPS	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL TYPICAL INSTALLATION DETAILS-POWER SYSTEM & CABLE INSTALLATION
CABLES INSTALLATION SYSTEM IDENTIFICATION FOR POWER CABLES

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK | SCALE : NTS

A3	DRAWING NO.	SHEET	REV.
	123A90-DDL-EL-DD-20092	007	02

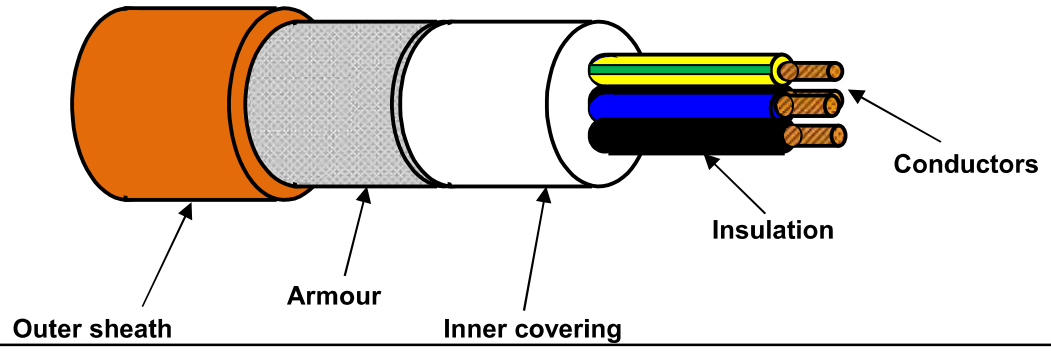
F.to UNI A3: 420mmx297mm

File Name : 123A90-DDL-EL-DD-20092 REV.02.DWG

Tag Number	Category	Discipline	Eng Status	NativeDoc	Layout	Parent Tag	Main Function	Secondary Function	Area	From Tag	From Main Function	From Area	To Tag	To Main Function	To Area	Material ID	Material Desc.	Gland Standard	From Gland	From Entry	From Fitting	To Gland	To Entry	To Fitting	Routing	Routing Manual
P-ELF-200N1-02-L1-23	Cable	LSP	VFC	123A90-DDL-EL-LIS-20148						EJB-200N1-02-L1-17	Normal Lighting JB	Upper Deck	ELF-200N1-02-L1-23	Normal Lighting Fixture	Upper Deck	ELECV19-3G2,5	Cable Cu Cl.2/MGT/EPR/LSZH/GSWB/LSZH 0,6/1kV 3G2,5mm² - Orange	M20	T2_M20_Double			T2_M20_Double				L-50-102-LVT-023

Cu Cl.2/MGT/EPR/LSZH/GSWB/LSZH 0,6/1 KV

3G2,5 - L.V. POWER CABLE - Fire Resistant & Flame Retardant - ARMOURED



TECHNICAL FEATURES

Conductors :	**STRANDED** plain/bare annealed copper wires	IEC 60228 Class 2
Insulation :	Mica/Glass Tape (MGT) plus EPR compound, quality to IEC 60092.360, Nominal Thickness 1,0 mm	
Cores colour code :	**Brown - Blue - Yellow/Green**	
Pair Assembling :	Not required	
Pair Wrapping:	Not required	
Drain wire :	Not required	
Pair Shield :	Not required	
Shield Insulation :	Not Required	
Total Assembling :	Cores layed up with optimal lay length	
Overall Wrapping:	Not required	
Drain wire :	Not required	
Overall Shield:	Not required	
Inner covering :	Extruded LSZH compound, Average Thickness 1,0 mm	
Inner covering color code:	**Black or Natural**	
Armour :	**Galvanized Steel Wire Braid Armour (coverage ≥ 90%)**	
Outer sheath :	Extruded LSZH Thermoplastic Compound (O.I. ≥ 30%), type **SHF1** to IEC 60093.360, Average Thickness 1,3 mm	
Outer sheath color code:	**Orange**	
Outer printing (INKJET) :	**FLEI - ELECTRIC CABLE - 1000V - 3G2,5 SQMM - MGT/EPR/LSZH/GSWB/LSZH - 0,6/1 KV - IEC 60331.21 - IEC 60332.1.2 - IEC 60332.3.22 - Year of Manufacture - CE + Meter Marking**	
Under Armour diameter :	(11,7 ± 10%) mm	
Over Armour diameter :	(12,9 ± 10%) mm	
Outer diameter :	(15,5 ± 10%) mm	
Bending radius :	cable outer diameter x 10	(in fixed installation)
Voltage test :	3,5 kV a.c. for 5' (Between Cores - Armour)	
Conductors DC Resistance :		IEC 60228 Class 2
Insulation Resistance :	≥ 940 MΩ x Km (@ 20°C)	
Applicable Standards		
Design Guidelines :	**IEC 60092.353**	
ON COMPLETE CABLE		
Fire Resistant test :	**IEC 60331.21**	
Flame Retardant test :	IEC 60332.1.2 - IEC 60332.3.22	
Acid Gas generation :	IEC 60754.1/2	
Smoke density/Light Transmittance	IEC 61034.2 (LT ≥ 60%)	
Temperature Range :		
ON INSULATION	(max +90°C)	(max continuous operation temperature of conductors)
	(max +250°C)	(max conductors temperature during short-circuit for 5 seconds)
ON COMPLETE CABLE		
During Operation :	(-20°C up to +90°C)	(in fixed installation)
During installation :	(- 5°C up to +50°C)	
Note :	**To meet the requirements of installation and use in Zone 1 & Zone 2 (IEC 60079-14) and "Gas & Vapour Tight" the cable must be provided with Penetrating Inner covering together with correct ATEX approved equipment or accessories.**	

Office	Date	Sign	Rev.	Date	Sign
Drawn by :	29/03/2024	Messa			
Checked :	29/03/2024	Spaccasassi			
Approved :	29/03/2024	Cucinotta			

The data provided, lending assent for the treatment, will be used to the sense of the article 13 of of the Regulation (UE) 2016/679, also through outsiders, in order to allow the realization of the fulfilments informatives, administrative, commercial and accounting related to the contractual relationship. Integral copy of the informative could be requested at our offices.

All proprietary rights reserved according to law. This document shall be not reproduced without written permission. FLEI reserves the right to change characteristics and technical data of product shown at any time.

ITEM	Tag	P-EJB-200N1-02-L1-18	: Normal Lighting JB / Normal Lighting JB			Dwg	123A90-DDL-EL-LIS-20148
	S/Sys	83-40	: Normal Lighting Upper Deck			Module	UD
TASK	code	C10000701		Location	Onshore Activities	User	Rosetti Marino Quality Control
FORM	Process	MC	Activity CCK	Discipline	Electrical	Form	CPX09 LV Power Cable

CABLE DATA

Type Cu Cl.2/MGT/EPR/LSZH/GSWB/LSZH Cores/Size mm² 3G4 mm2 Color ORANGE

From EJB-200N1-02-L1-19 To EJB-200N1-02-L1-18

1	Confirm cable is as specified in project cable schedule	OK
2	Visual Check cable physical integrity.	OK
3	Check is installed in accordance with layout drawing (segregation, distance…).	OK
4	Check cable is supported and fixed to rack according to project specification.	Note
5	Check bending radius is within the specified limits.	OK
6	Confirm cable glands suit for cable type, correctly mounted and tightened.	PL
7	Check gland plate for single core cables is non ferrous (non -magnetic).	NA
8	Confirm cable labelling is in accordance with specifications.	PL
9	Check cable is correctly loomed and segregated in accordance with specification.	OK
10	Check cable earthing against lastest drawings.	OK
11	Check cores marking are in accordance with termination diagram	PL
12	Check terminations are in accordance with latest termination diagram	OK
13	If required produce Red Line Mark Up for "AS BUILT"	

ROSETTI MARINO PROVERLIS CROSSWIND

ITEM	Tag	P-EJB-200N1-02-L1-18	: Normal Lighting JB / Normal Lighting JB			Dwg	123A90-DDL-EL-LIS-20148
	S/Sys	83-40	: Normal Lighting Upper Deck			Module	UD
TASK	code	C10000701		Location	Onshore Activities	User	Rosetti Marino Quality Control
FORM	Process	MC	Activity CCK	Discipline	Electrical	Form	CPX09 LV Power Cable

CONTINUITY				
5	CORE CONTINUITY Ω	PH 1	0,1	
6		PH 2	0,1	
7		PH 3	NA	
8	ARMOUR CONTINUITY Ω		0,1	
9	PROTECTIVE CONDUCTOR CONTINUITY Ω		0,1	
INSULATION				
10	CORES / ARMOUR+EARTH MΩ	PH1 / PH2-PH3-A-E	>999	
11		PH2 / PH1-PH3-A-E	>999	
12		PH3 / PH1-PH2-A-E	NA	
13	CABLE IS CORRECTLY RE-CONNECTED.		Yes	

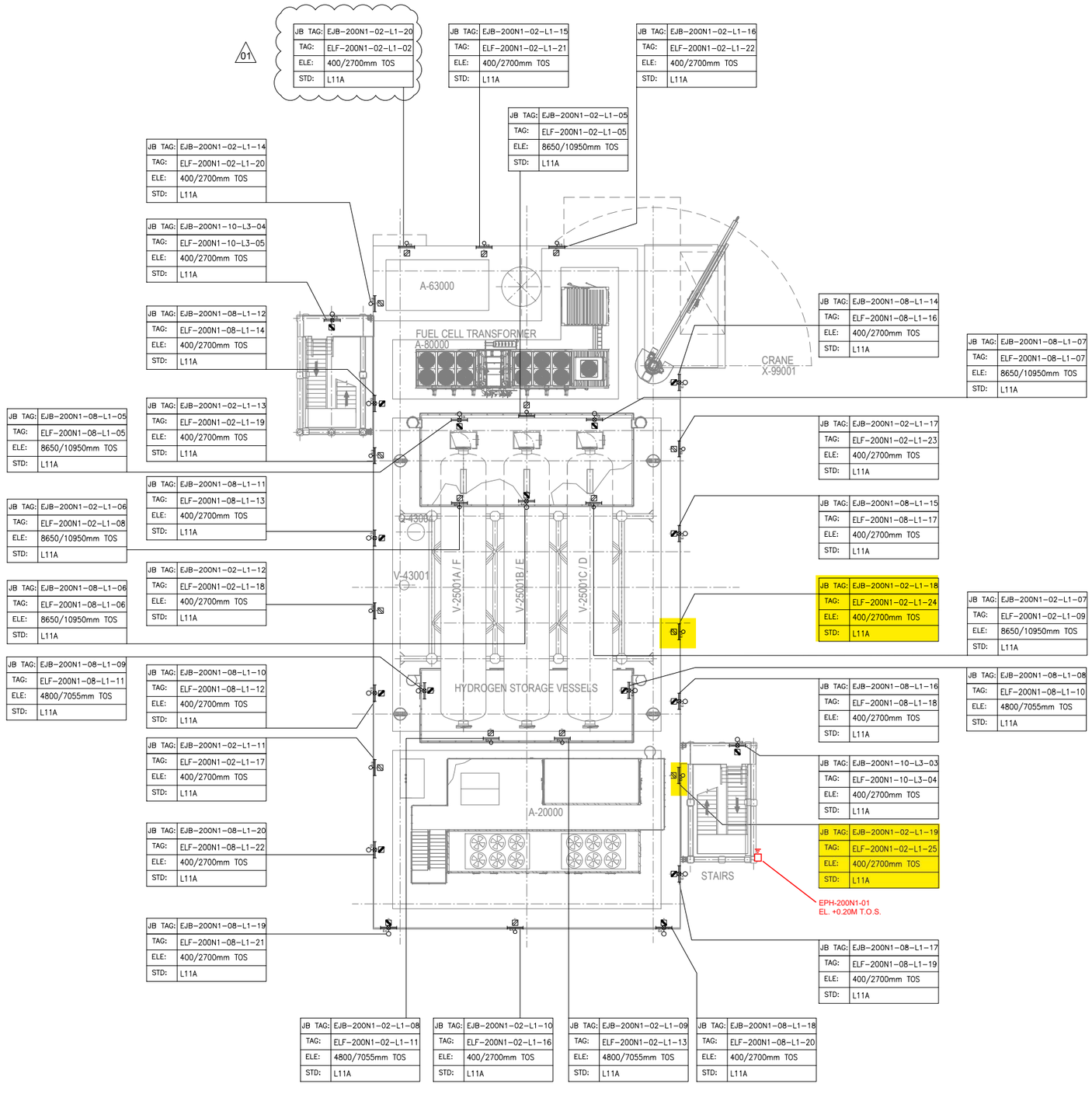
TESTING INSTRUMENTS USED			
TYPE / SERIAL N° :	MEGGER : KEW3125A SERIAL: W8330207	TYPE / SERIAL N° :	MULTIMETER: FLUKE 175 SERIAL:AW1/018(17140769)
Calibration certificate N° and date:	N°7722/24 _ 10/07/2024	Calibration certificate N° and date:	N°7715/24 _ 10/07/2024

Comments: Nota 4: refer to PL C30000679

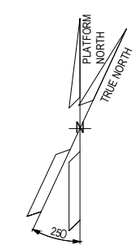
	Performed by	☉ WITNESS ☐ REVIEW	☐ WITNESS ☐ REVIEW
Company	ICS IMPIANTI	RM(ROSETTI MARINO)	
Name	Francesco Zucca	Luca Mussi	
Date	2024-12-19	2024-12-28	
Signature	PROVERLIS Digitaly signed by Francesco Zucca 2024-12-19T12:28:26.023Z	PROVERLIS Digitaly signed by Luca Mussi 2024-12-28T12:11:10.100Z	

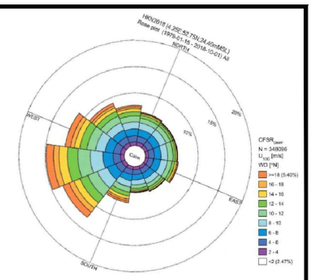
DRAWING NO. 123A90-DDL-EL-DL-20118

REV. 01



PLAN ON UPPER DECK
EL+30.310 T.O.S.





NOTES

1. ALL DIMENSIONS AND ELEVATIONS ARE GIVEN IN mm UNLESS OTHERWISE NOTED.
2. ELEVATIONS REFER TO T.O.S.
3. ELEVATION OF THE LAMPS ARE REFFERED TO THE BOTTOM OF THE LAMP.
4. FOR THE ELEVATION OF JB, REFER TO THE TYPICAL INSTALLATION.

LEGEND

- EMERGENCY LIGHTING JB
- 60W LED EMERGENCY LUMINARIES
- 60W LED EMERGENCY LUMINARIES FIXTURE POLE MOUNTED
- NORMAL LIGHTING JB
- 45W LED NORMAL LUMINARIES
- 45W LED NORMAL LUMINARIES FIXTURE POLE MOUNTED
- WELDING SOCKET WITH INTEGRATED JB
- SMALL POWER SOCKET WITH INTEGRATED JB
- TWILIGHT RELAY SENSOR

JB TAG:	JB-TAG
TAG:	TAG
ELE:	ELEVATION
STD:	STANDARD

VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DL-20118**

REV.:	DATE:	SIGNATURE:
1_B	22/10/24	G.Randi

ROSETTI MARINO SpA

REFERENCE DOCUMENTS

123A90-DDL-PP-DL-70070	PLOT PLAN - LOWER & UPPER DECK
123A90-DDL-EL-DL-20100	ELECTRICAL EQUIPMENT LAYOUT - TOP DECK
123A90-DDL-EL-DD-20091	ELECTRICAL TYPICAL INSTALLATION DETAILS - LIGHTING SYSTEM
123A90-DDL-EL-DD-20092	ELECTRICAL TYPICAL INSTALLATION DETAILS - POWER SYSTEM & CABLE INSTALLATION
123A90-DDL-EL-RE-20153	LIGHTING CALCULATION STUDY REPORT

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	02/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	28/05/24	ASR	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND | ROSETTI MARINO

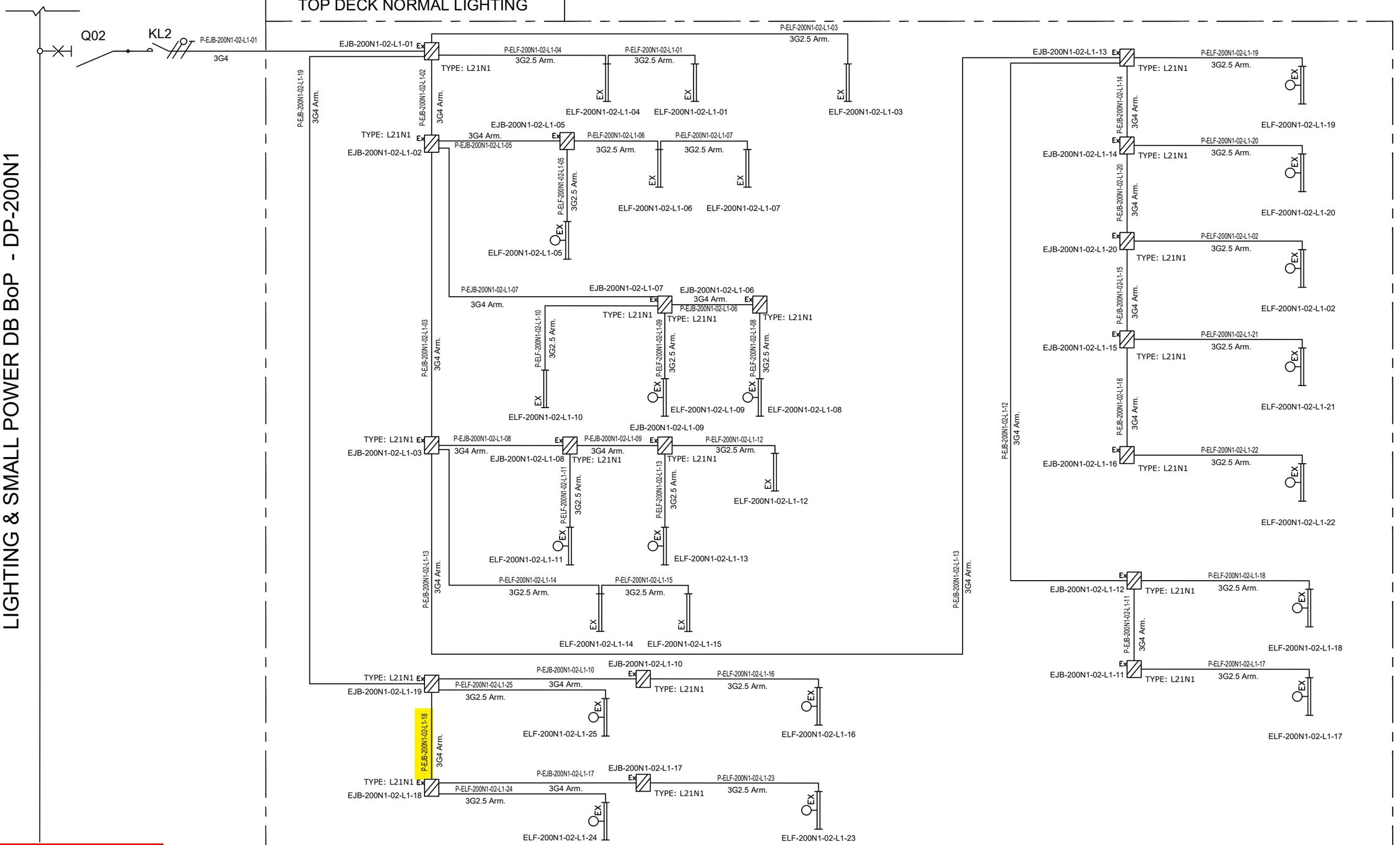
TITLE : BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET LAYOUT – TOP DECK

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK			SCALE 1:150
DRAWN ASR	CHECKED FMA/AMA	APPROVED FPA/DLO	DATE 01/08/24
A1	DRAWING NO. 123A90-DDL-EL-DL-20118	SHEET 1of2	REV. 01

File Name : 123A90-DDL-EL-DL-20118

LIGHTING & SMALL POWER DB BoP - DP-200N1

TOP DECK NORMAL LIGHTING



VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DG-20125**

REV.:	DATE:	SIGNATURE:
2_C	20/12/24	V.Ramponi

ROSETTI MARINO SpA

CROSSWIND

ROSETTI MARINO

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	08/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	01/07/24	ASR	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

TITLE : BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET CIRCUIT DIAGRAM
TOP DECK–NORMAL LIGHTING

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE : NTS

A3

DRAWING NO. 123A90–DDL–EL–DG–20125

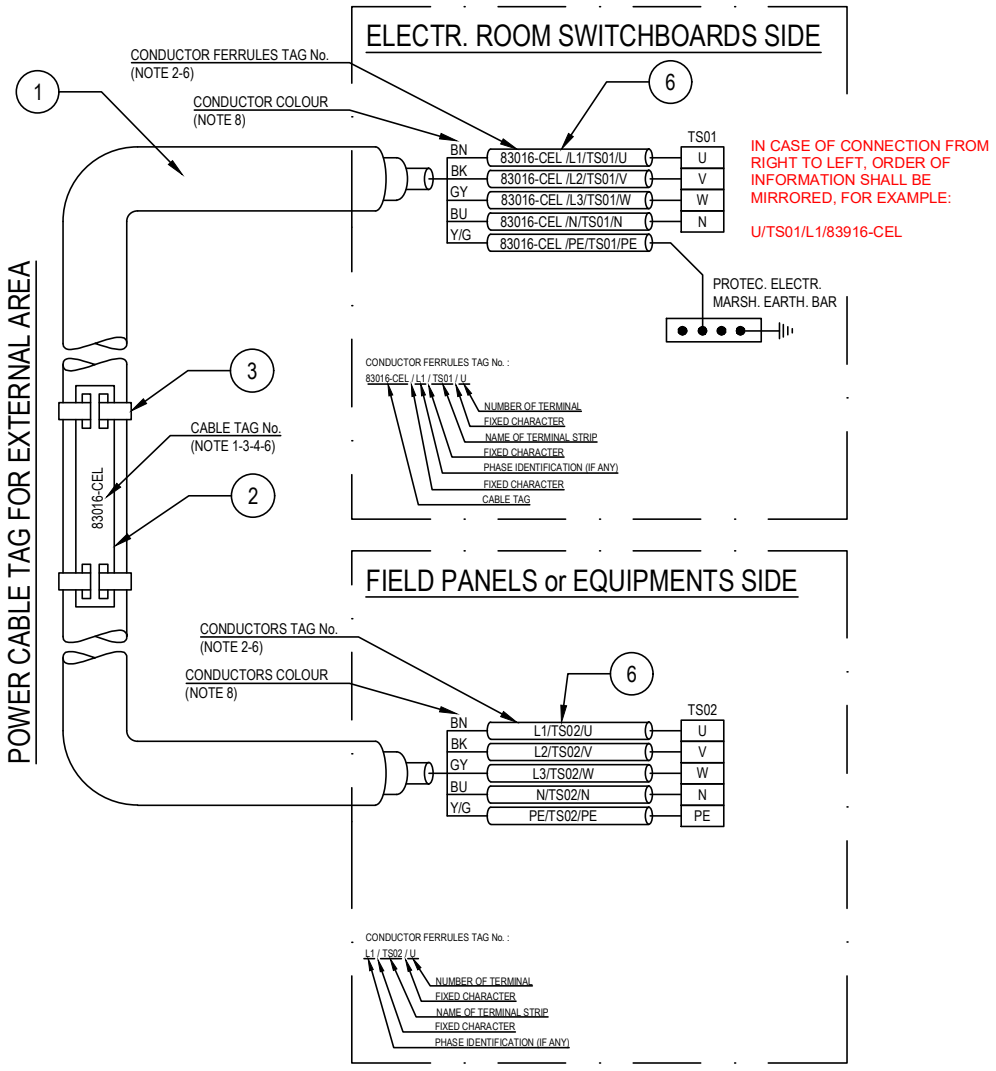
SHEET 010

REV. 01

F.to UNI A3: 420mmx297mm

File Name : 123A90–DDL–EL–DG–20125

C02



POS.	DESCRIPTION	MATERIAL	SIZE	Q.TY	NOTE
1	UNARMOURED CABLE				
2	CABLE TAG FOR EXTERNAL AREA	HDG/SS			NOTE 1 NOTE 4
3	TIE FOR CABLE TAG IN EXTERNAL AREA	HDG/SS			
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5	TIE FOR CABLE TAG IN INTERNAL AREA	NYLON 6.6			
6	CORE FERRULES	PVC			

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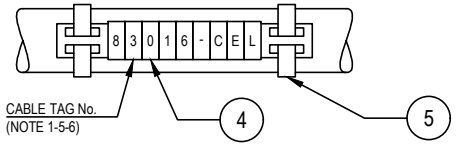
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POWER CABLE TAG FOR INTERNAL AREA



VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DD-20092**

REV.:	DATE:	SIGNATURE:
2_D	20/12/24	V.Ramponi

ROSETTI MARINO SpA

CROSSWIND

ROSETTI MARINO

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	28/08/24	GRA	AMA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	04/07/24	NLK	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	21/11/23	SPS	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL TYPICAL INSTALLATION DETAILS-POWER SYSTEM & CABLE INSTALLATION
CABLES INSTALLATION SYSTEM IDENTIFICATION FOR POWER CABLES

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK | SCALE : NTS

A3 | DRAWING NO. 123A90-DDL-EL-DD-20092 | SHEET 007 | REV. 02

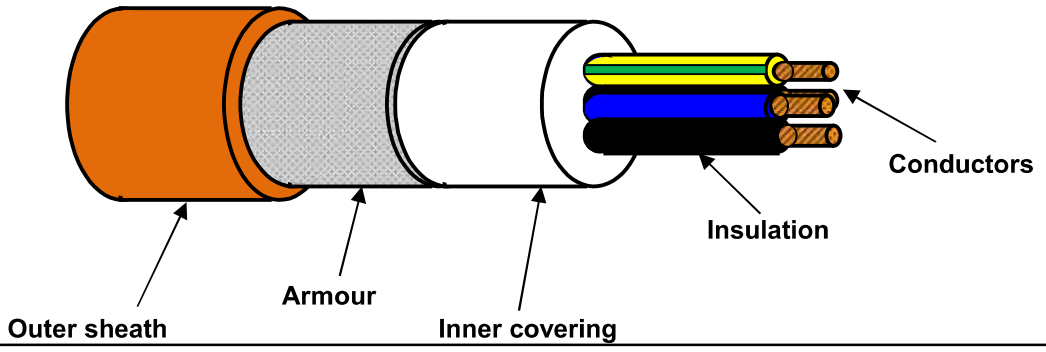
F.to UNI A3: 420mmx297mm

File Name : 123A90-DDL-EL-DD-20092 REV.02.DWG

Tag Number	Category	Disciplir	Eng Statu	NativeDoc	Layout	Parent Tag	Main Function	Secondary Fun	Area	From Tag	From Main Function	From Area	To Tag	To Main Function	To Area	Material ID	Material Desc.	Gland Standard	From Glan	From Entry	From Fitt	To Gland	To Entry	To Fitting	Routing	Routing Manual
P-EJB-200N1-02-L1-18	Cable	LSP	VFC	123A90-DDL-EL-LIS-20148						EJB-200N1-02-L1-19	Normal Lighting JB	Upper Deck	EJB-200N1-02-L1-18	Normal Lighting JB	Upper Deck	ELECV38-3G4	Cable Cu Cl.2/MGT/EPR/LSZH/GSWB/LSZH 0,6/1kV 3G4mm² - Orange	M20	T2_M20_ Double			T2_M20_Double				L-150-102-LVT-004 / L-150-102-LVT-003

Cu Cl.2/MGT/EPR/LSZH/GSWB/LSZH 0,6/1 KV

3G4 - L.V. POWER CABLE - Fire Resistant & Flame Retardant - ARMOURED



TECHNICAL FEATURES

Conductors :	**STRANDED** plain/bare annealed copper wires	IEC 60228 Class 2
Insulation :	Mica/Glass Tape (MGT) plus EPR compound, quality to IEC 60092.360, Nominal Thickness 1,0 mm	
Cores colour code :	**Brown - Blue - Yellow/Green**	
Pair Assembling :	Not required	
Pair Wrapping:	Not required	
Drain wire :	Not required	
Pair Shield :	Not required	
Shield Insulation :	Not Required	
Total Assembling :	Cores layed up with optimal lay length	
Overall Wrapping:	Not required	
Drain wire :	Not required	
Overall Shield:	Not required	
Inner covering :	Extruded LSZH compound, Average Thickness 1,0 mm	
Inner covering color code:	**Black or Natural**	
Armour :	**Galvanized Steel Wire Braid Armour (coverage ≥ 90%)**	
Outer sheath :	Extruded LSZH Thermoplastic Compound (O.I. ≥ 30%), type **SHF1** to IEC 60093.360, Average Thickness 1,4 mm	
Outer sheath color code:	**Orange**	
Outer printing (INKJET) :	**FLEI - ELECTRIC CABLE - 1000V - 3G4 SQMM - MGT/EPR/LSZH/GSWB/LSZH - 0,6/1 KV - IEC 60331.21 -**	
	IEC 60332.1.2 - IEC 60332.3.22 - Year of Manufacture - CE + Meter Marking	
Under Armour diameter :	(13,0 ± 10%) mm	
Over Armour diameter :	(14,2 ± 10%) mm	
Outer diameter :	(17,0 ± 10%) mm	
Bending radius :	cable outer diameter x 10	(in fixed installation)
Voltage test :	3,5 kV a.c. for 5' (Between Cores - Armour)	
Conductors DC Resistance :		IEC 60228 Class 2
Insulation Resistance :	≥ 790 MΩ x Km (@ 20°C)	
Applicable Standards		
Design Guidelines :	**IEC 60092.353**	
ON COMPLETE CABLE		
Fire Resistant test :	**IEC 60331.21**	
Flame Retardant test :	IEC 60332.1.2 - IEC 60332.3.22	
Acid Gas generation :	IEC 60754.1/2	
Smoke density/Light Transmittance	IEC 61034.2 (LT ≥ 60%)	
Temperature Range :		
ON INSULATION	(max +90°C)	(max continuous operation temperature of conductors)
	(max +250°C)	(max conductors temperature during short-circuit for 5 seconds)
ON COMPLETE CABLE		
During Operation :	(-20°C up to +90°C)	(in fixed installation)
During installation :	(- 5°C up to +50°C)	
Note :	**To meet the requirements of installation and use in Zone 1 & Zone 2 (IEC 60079-14) and "Gas & Vapour Tight" the cable must be provided with Penetrating Inner covering together with correct ATEX approved equipment or accessories.**	

Office	Date	Sign	Rev.	Date	Sign
Drawn by :	29/03/2024	Messa			
Checked :	29/03/2024	Spaccasassi			
Approved :	29/03/2024	Cucinotta			

The data provided, lending assent for the treatment, will be used to the sense of the article 13 of of the Regulation (UE) 2016/679, also through outsiders, in order to allow the realization of the fulfilments informatives, administrative, commercial and accounting related to the contractual relationship. Integral copy of the informative could be requested at our offices.

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ITEM	Tag	P-ELF-200N1-02-L1-24	: Normal Lighting JB / Normal Lighting Fixture			Dwg	123A90-DDL-EL-LIS-20148
	S/Sys	83-40	: Normal Lighting Upper Deck			Module	UD
TASK	code	C10000702		Location	Onshore Activities	User	Rosetti Marino Quality Control
FORM	Process	MC	Activity CCK	Discipline	Electrical	Form	CPX09 LV Power Cable

CABLE DATA

Type Cu Cl.2/MGT/EPR/LSZH/GSWB/LSZH Cores/Size mm² 3G2,5 mm2 Color ORANGE

From EJB-200N1-02-L1-18 To ELF-200N1-02-L1-24

1	Confirm cable is as specified in project cable schedule	OK
2	Visual Check cable physical integrity.	OK
3	Check is installed in accordance with layout drawing (segregation, distance…).	PL
4	Check cable is supported and fixed to rack according to project specification.	Note
5	Check bending radius is within the specified limits.	OK
6	Confirm cable glands suit for cable type, correctly mounted and tightened.	OK
7	Check gland plate for single core cables is non ferrous (non -magnetic).	NA
8	Confirm cable labelling is in accordance with specifications.	PL
9	Check cable is correctly loomed and segregated in accordance with specification.	OK
10	Check cable earthing against lastest drawings.	OK
11	Check cores marking are in accordance with termination diagram	PL
12	Check terminations are in accordance with latest termination diagram	OK
13	If required produce Red Line Mark Up for "AS BUILT"	

ITEM	Tag	P-ELF-200N1-02-L1-24	: Normal Lighting JB / Normal Lighting Fixture			Dwg	123A90-DDL-EL-LIS-20148
	S/Sys	83-40	: Normal Lighting Upper Deck			Module	UD
TASK	code	C10000702		Location	Onshore Activities	User	Rosetti Marino Quality Control
FORM	Process	MC	Activity CCK	Discipline	Electrical	Form	CPX09 LV Power Cable

	CONTINUITY			
5	CORE CONTINUITY Ω	PH 1	0,2	
6		PH 2	0,2	
7		PH 3	NA	
8	ARMOUR CONTINUITY Ω		0.2	
9	PROTECTIVE CONDUCTOR CONTINUITY Ω		0.2	
	INSULATION			
10	CORES / ARMOUR+EARTH MΩ	PH1 / PH2-PH3-A-E	>999	
11		PH2 / PH1-PH3-A-E	>999	
12		PH3 / PH1-PH2-A-E	NA	
13	CABLE IS CORRECTLY RE-CONNECTED.		Yes	

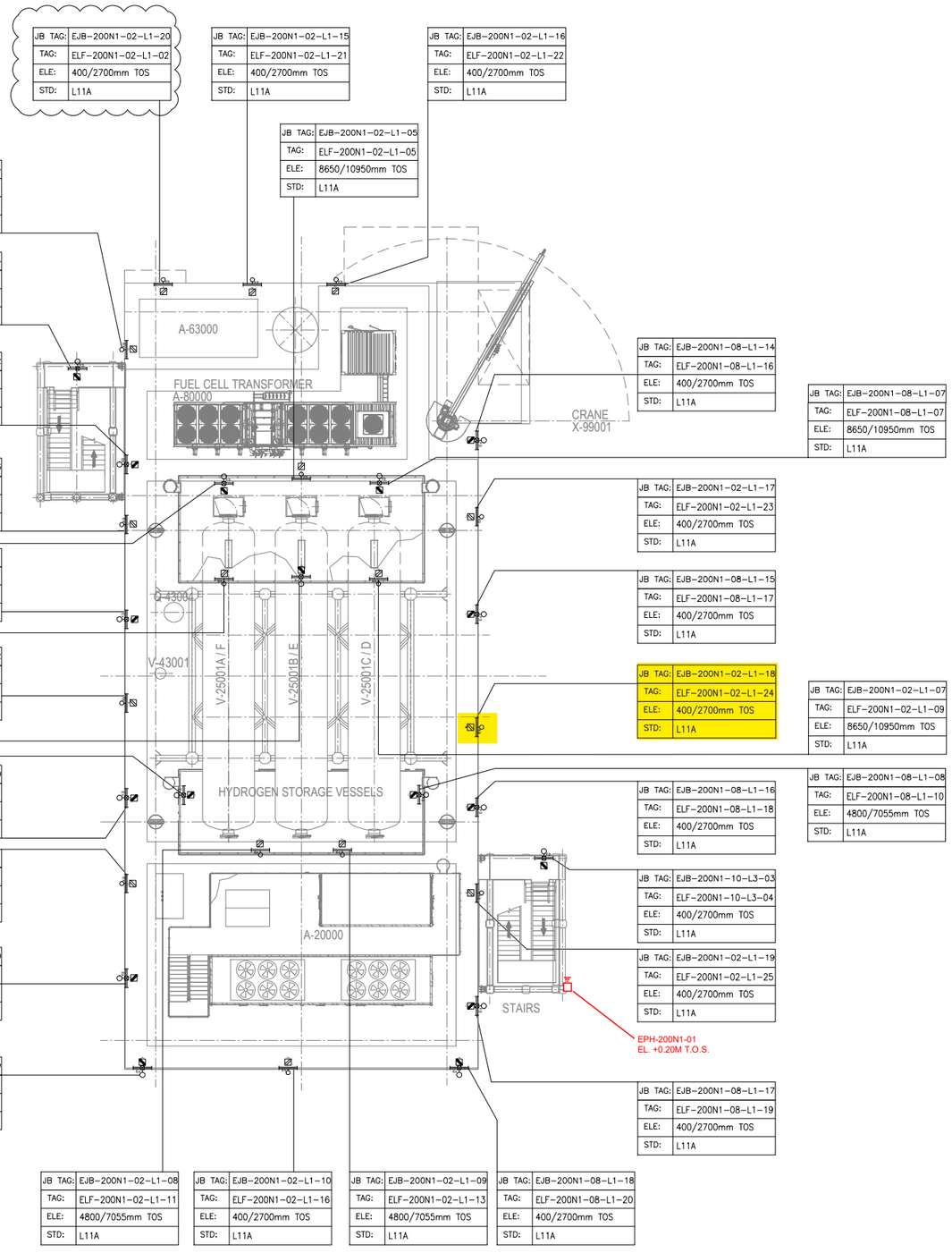
TESTING INSTRUMENTS USED			
TYPE / SERIAL N° :	MEGGER : KEW3125A SERIAL: W8330207	TYPE / SERIAL N° :	MULTIMETER: FLUKE 175 SERIAL:AW1/018(17140769
Calibration certificate N° and date:	N°7722/24 _ 10/07/2024	Calibration certificate N° and date:	N°7715/24 _ 10/07/2024

Comments: Nota 4: refer to PL C30000679

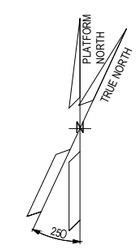
	Performed by	● WITNESS ☐ REVIEW	☐ WITNESS ☐ REVIEW
Company	ICS IMPIANTI	RM(ROSETTI MARINO)	
Name	Francesco Zucca	Andrea Andreani	
Date	2024-12-05	2024-12-07	
Signature	PROVERLIS Digitaly signed by Francesco Zucca 2024-12-05T18:14:10.058Z	PROVERLIS Digitaly signed by Andrea Andreani 2024-12-07T08:07:44.725Z	

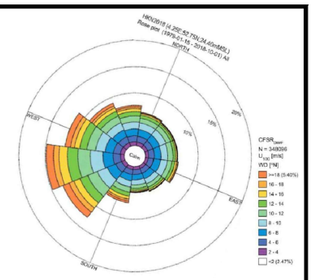
DRAWING NO. 123A90-DDL-EL-DL-20118

REV. 01



PLAN ON UPPER DECK
EL+30.310 T.O.S.





NOTES

1. ALL DIMENSIONS AND ELEVATIONS ARE GIVEN IN mm UNLESS OTHERWISE NOTED.
2. ELEVATIONS REFER TO T.O.S.
3. ELEVATION OF THE LAMPS ARE REFFERED TO THE BOTTOM OF THE LAMP.
4. FOR THE ELEVATION OF JB, REFER TO THE TYPICAL INSTALLATION.

LEGEND

- EMERGENCY LIGHTING JB
- 60W LED EMERGENCY LUMINARIES
- 60W LED EMERGENCY LUMINARIES FIXTURE POLE MOUNTED
- NORMAL LIGHTING JB
- 45W LED NORMAL LUMINARIES
- 45W LED NORMAL LUMINARIES FIXTURE POLE MOUNTED
- WELDING SOCKET WITH INTEGRATED JB
- SMALL POWER SOCKET WITH INTEGRATED JB
- TWILIGHT RELAY SENSOR

JB TAG:	JB-TAG
TAG:	TAG
ELE:	ELEVATION
STD:	STANDARD

VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DL-20118**

REV.:	DATE:	SIGNATURE:
1_B	22/10/24	G.Randi

ROSETTI MARINO SpA

REFERENCE DOCUMENTS

123A90-DDL-PP-DL-70070	PLOT PLAN - LOWER & UPPER DECK
123A90-DDL-EL-DL-20100	ELECTRICAL EQUIPMENT LAYOUT - TOP DECK
123A90-DDL-EL-DD-20091	ELECTRICAL TYPICAL INSTALLATION DETAILS - LIGHTING SYSTEM
123A90-DDL-EL-DD-20092	ELECTRICAL TYPICAL INSTALLATION DETAILS - POWER SYSTEM & CABLE INSTALLATION
123A90-DDL-EL-RE-20153	LIGHTING CALCULATION STUDY REPORT

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	02/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	28/05/24	ASR	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND | ROSETTI MARINO

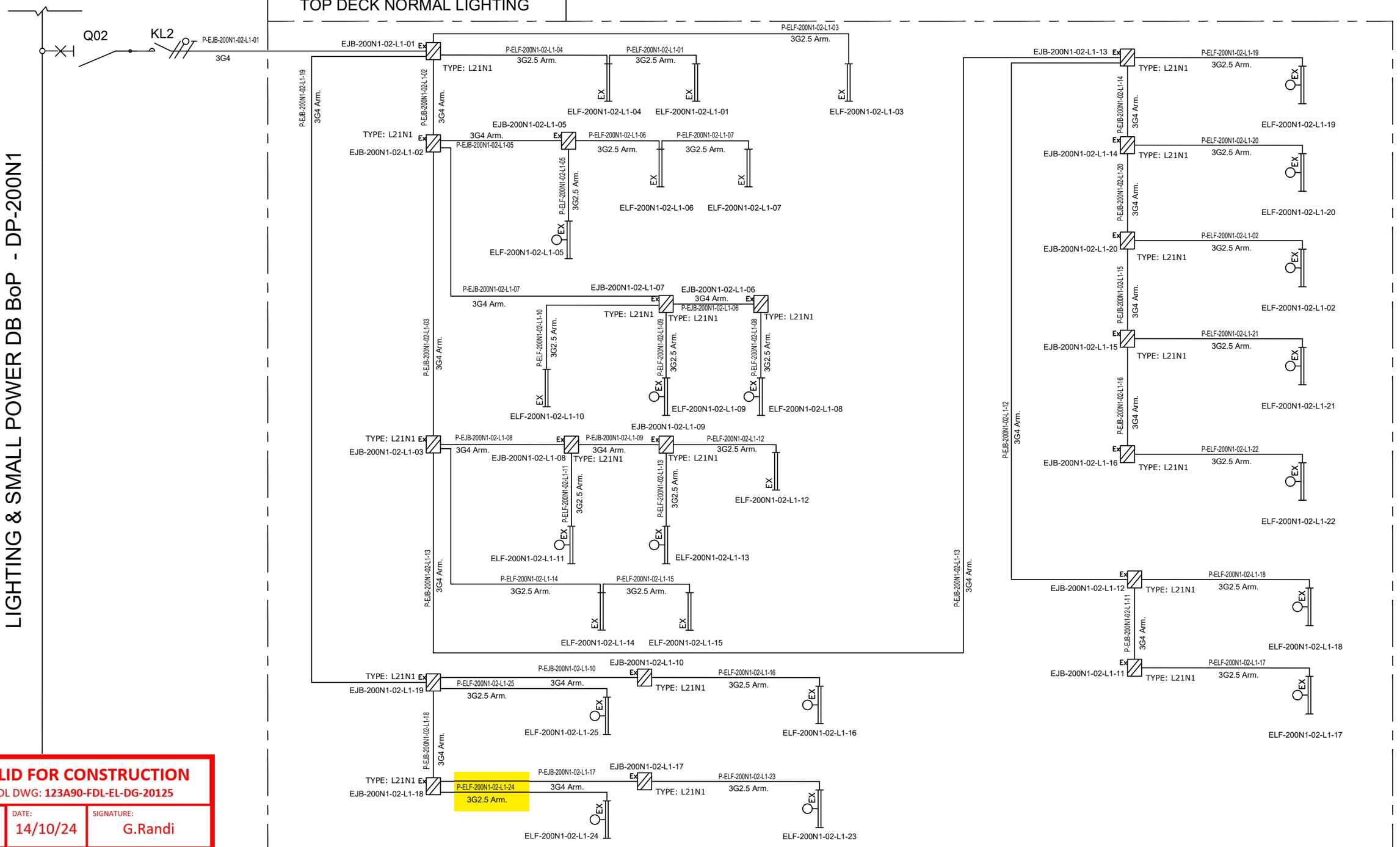
TITLE :
BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET LAYOUT – TOP DECK

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK			SCALE 1:150
DRAWN ASR	CHECKED FMA/AMA	APPROVED FPA/DLO	DATE 01/08/24
A1	DRAWING NO. 123A90-DDL-EL-DL-20118	SHEET 1of2	REV. 01

File Name : 123A90-DDL-EL-DL-20118

LIGHTING & SMALL POWER DB BoP - DP-200N1

TOP DECK NORMAL LIGHTING



VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DG-20125**

REV.:	DATE:	SIGNATURE:
1_B	14/10/24	G.Randi

ROSETTI MARINO SpA

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	08/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	01/07/24	ASR	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

TITLE : BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET CIRCUIT DIAGRAM
TOP DECK–NORMAL LIGHTING

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE : NTS

A3

DRAWING NO. 123A90-DDL-EL-DG-20125

SHEET 010

REV. 01

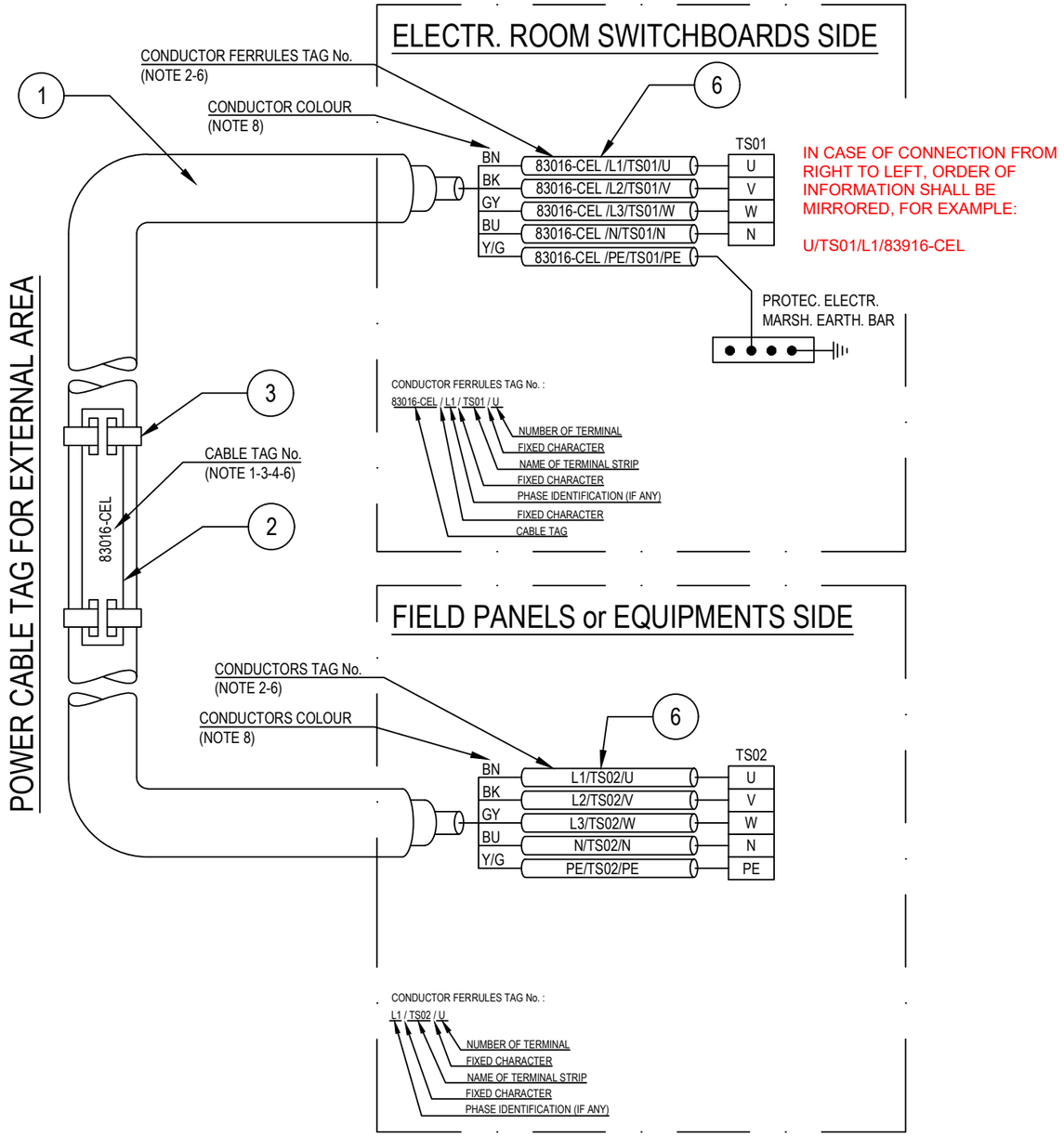
CROSSWIND

ROSETTI MARINO

F.to UNI A3: 420mmx297mm

File Name : 123A90-DDL-EL-DG-20125

C02



POS.	DESCRIPTION	MATERIAL	SIZE	Q.TY	NOTE
1	UNARMOURED CABLE				
2	CABLE TAG FOR EXTERNAL AREA	HDG/SS			NOTE 1 NOTE 4
3	TIE FOR CABLE TAG IN EXTERNAL AREA	HDG/SS			
4	CABLE TAG FOR INTERNAL AREA	PVC			NOTE 1 NOTE 5
5	TIE FOR CABLE TAG IN INTERNAL AREA	NYLON 6.6			
6	CORE FERRULES	PVC			

NOTES:

1) ALL CABLES SHALL BE IDENTIFIED AT EACH TERMINATION AND EACH SIDE OF ANY OBSTACLE (E.G. CABLE TRANSIT ON WALLS INSIDE SHELTER AND FLOOR DECK CROSSING, BY THEIR RESPECTIVE TAGS/NUMBERS, AS INDICATED ON THE CABLE SCHEDULE.
CABLE IDENTIFICATION SHALL BE ALSO DONE BELOW AND IN THE SWITCHBOARD CABLE COMPARTMENT.

2) CABLE CORE FERRULES SHALL BE FITTED AT EVERY TERMINATION. THESE FERRULES SHALL BE OF ENGRAVED PLASTIC SLIP ON, INTERLOCKED AND SELF GRIP TYPE.

3) ON CABLE TRAYS OR LADDERS, CABLES SHALL BE IDENTIFIED AT EACH END, AND EVERY 25 METERS.

4) THE CABLE TAG FOR EXTERNAL AREA SHALL DONE BY 316L STAINLESS STEEL LABELS, TAG (H=5mm) SHALL BE LASER PRINTED PREFERABLY OR EMBOSSED, LABEL HELD BY TWO 316L STAINLESS STEEL TIES.

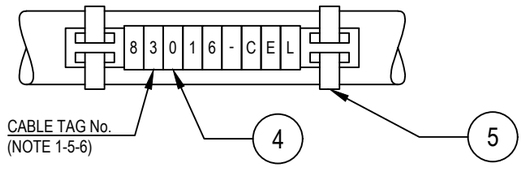
5) THE CABLE TAG FOR INTERNAL AREA SHALL BE DONE BY ENGRAVED PLASTIC SLIP ON CHARACTERS ONTO PLASTIC TIE, BLACK LETTER (H=5mm) ON WHITE.

6) CABLE AND CONDUCTOR TAG ARE INDICATIVE ONLY.

7) WITHIN TECHNICAL BUILDING, PROTECTIVE CONDUCTOR SHALL BE TAGGED BETWEEN FOLLOWING ITEMS:
- PANEL (SWITCHBOARD, SWITCHGEAR, DISTRIBUTION BOARD, ETC) AND EARTH BAR
- EARTH BAR AND EARTH BOSS

8) ONLY IF NECESSARY, SHRINK TUBES OF THE APPROPRIATE COLOR WILL BE INSTALLED TO COVER THE WRONG CONDUCTOR COLOR, THIS WILL BE PERFORMED IN EACH SIDE OF THE CABLES WHERE NECESSARY.

POWER CABLE TAG FOR INTERNAL AREA



VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DD-20092**

REV.:	DATE:	SIGNATURE:
2_B	28/11/24	G.Randi

ROSETTI MARINO SpA

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	28/08/24	GRA	AMA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	04/07/24	NLK	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	21/11/23	SPS	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL TYPICAL INSTALLATION DETAILS-POWER SYSTEM & CABLE INSTALLATION
CABLES INSTALLATION SYSTEM IDENTIFICATION FOR POWER CABLES

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK | SCALE : NTS

A3	DRAWING NO.	SHEET	REV.
	123A90-DDL-EL-DD-20092	007	02

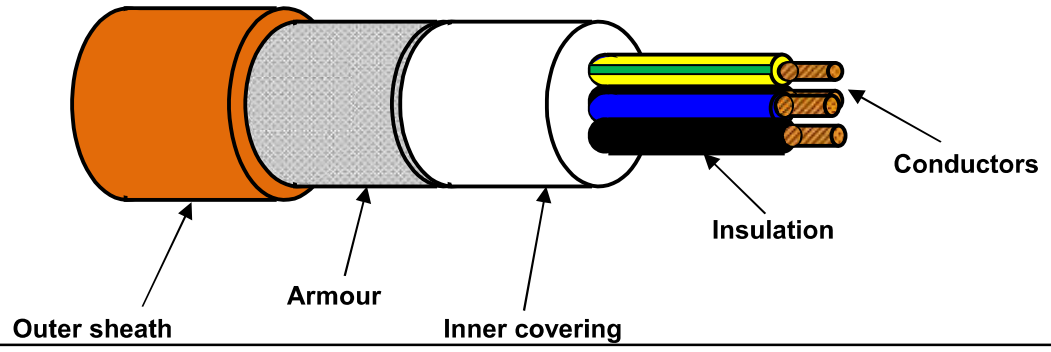
F.to UNI A3: 420mmx297mm

File Name : 123A90-DDL-EL-DD-20092 REV.02.DWG

Tag Number	Category	Discipline	Eng Status	NativeDoc	Layout	Parent Tag	Main Function	Secondary Function	Area	From Tag	From Main Function	From Area	To Tag	To Main Function	To Area	Material ID	Material Desc.	Gland Standard	From Gland	From Entry	From Fitting	To Gland	To Entry	To Fitting	Routing	Routing Manual
P-ELF-200N1-02-L1-24	Cable	LSP	VFC	123A90-DDL-EL-LIS-20148						EJB-200N1-02-L1-18	Normal Lighting JB	Upper Deck	ELF-200N1-02-L1-24	Normal Lighting Fixture	Upper Deck	ELECV19-3G2,5	Cable Cu Cl.2/MGT/EPR/LSZH/GSWB/LSZH 0,6/1kV 3G2,5mm² - Orange	M20	T2_M20_Double			T2_M20_Double				L-50-102-LVT-021

Cu Cl.2/MGT/EPR/LSZH/GSWB/LSZH 0,6/1 KV

3G2,5 - L.V. POWER CABLE - Fire Resistant & Flame Retardant - ARMOURED



TECHNICAL FEATURES

Conductors :	**STRANDED** plain/bare annealed copper wires	IEC 60228 Class 2
Insulation :	Mica/Glass Tape (MGT) plus EPR compound, quality to IEC 60092.360, Nominal Thickness 1,0 mm	
Cores colour code :	**Brown - Blue - Yellow/Green**	
Pair Assembling :	Not required	
Pair Wrapping:	Not required	
Drain wire :	Not required	
Pair Shield :	Not required	
Shield Insulation :	Not Required	
Total Assembling :	Cores layed up with optimal lay length	
Overall Wrapping:	Not required	
Drain wire :	Not required	
Overall Shield:	Not required	
Inner covering :	Extruded LSZH compound, Average Thickness 1,0 mm	
Inner covering color code:	**Black or Natural**	
Armour :	**Galvanized Steel Wire Braid Armour (coverage ≥ 90%)**	
Outer sheath :	Extruded LSZH Thermoplastic Compound (O.I. ≥ 30%), type **SHF1** to IEC 60093.360, Average Thickness 1,3 mm	
Outer sheath color code:	**Orange**	
Outer printing (INKJET) :	**FLEI - ELECTRIC CABLE - 1000V - 3G2,5 SQMM - MGT/EPR/LSZH/GSWB/LSZH - 0,6/1 KV - IEC 60331.21 - IEC 60332.1.2 - IEC 60332.3.22 - Year of Manufacture - CE + Meter Marking**	
Under Armour diameter :	(11,7 ± 10%) mm	
Over Armour diameter :	(12,9 ± 10%) mm	
Outer diameter :	(15,5 ± 10%) mm	
Bending radius :	cable outer diameter x 10	(in fixed installation)
Voltage test :	3,5 kV a.c. for 5' (Between Cores - Armour)	
Conductors DC Resistance :		IEC 60228 Class 2
Insulation Resistance :	≥ 940 MΩ x Km (@ 20°C)	
Applicable Standards		
Design Guidelines :	**IEC 60092.353**	
ON COMPLETE CABLE		
Fire Resistant test :	**IEC 60331.21**	
Flame Retardant test :	IEC 60332.1.2 - IEC 60332.3.22	
Acid Gas generation :	IEC 60754.1/2	
Smoke density/Light Transmittance	IEC 61034.2 (LT ≥ 60%)	
Temperature Range :		
ON INSULATION	(max +90°C)	(max continuous operation temperature of conductors)
	(max +250°C)	(max conductors temperature during short-circuit for 5 seconds)
ON COMPLETE CABLE		
During Operation :	(-20°C up to +90°C)	(in fixed installation)
During installation :	(- 5°C up to +50°C)	
Note :	**To meet the requirements of installation and use in Zone 1 & Zone 2 (IEC 60079-14) and "Gas & Vapour Tight" the cable must be provided with Penetrating Inner covering together with correct ATEX approved equipment or accessories.**	

Office	Date	Sign	Rev.	Date	Sign
Drawn by :	29/03/2024	Messa			
Checked :	29/03/2024	Spaccasassi			
Approved :	29/03/2024	Cucinotta			

The data provided, lending assent for the treatment, will be used to the sense of the article 13 of of the Regulation (UE) 2016/679, also through outsiders, in order to allow the realization of the fulfilments informatives, administrative, commercial and accounting related to the contractual relationship. Integral copy of the informative could be requested at our offices.

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ITEM	Tag	P-EJB-200N1-02-L1-19	: Normal Lighting JB / Normal Lighting JB			Dwg	123A90-DDL-EL-LIS-20148
	S/Sys	83-40	: Normal Lighting Upper Deck			Module	UD
TASK	code	C10000703		Location	Onshore Activities	User	Rosetti Marino Quality Control
FORM	Process	MC	Activity CCK	Discipline	Electrical	Form	CPX09 LV Power Cable

CABLE DATA

Type Cu Cl.2/MGT/EPR/LSZH/GSWB/LSZH Cores/Size mm² 3G4 mm2 Color ORANGE

From EJB-200N1-02-L1-01 To EJB-200N1-02-L1-19

1	Confirm cable is as specified in project cable schedule	OK
2	Visual Check cable physical integrity.	OK
3	Check is installed in accordance with layout drawing (segregation, distance…).	OK
4	Check cable is supported and fixed to rack according to project specification.	Note
5	Check bending radius is within the specified limits.	OK
6	Confirm cable glands suit for cable type, correctly mounted and tightened.	PL
7	Check gland plate for single core cables is non ferrous (non -magnetic).	NA
8	Confirm cable labelling is in accordance with specifications.	PL
9	Check cable is correctly loomed and segregated in accordance with specification.	OK
10	Check cable earthing against lastest drawings.	OK
11	Check cores marking are in accordance with termination diagram	PL
12	Check terminations are in accordance with latest termination diagram	OK
13	If required produce Red Line Mark Up for "AS BUILT"	

ROSETTI MARINO PROVERLIS CROSSWIND

ITEM	Tag	P-EJB-200N1-02-L1-19	: Normal Lighting JB / Normal Lighting JB			Dwg	123A90-DDL-EL-LIS-20148
	S/Sys	83-40	: Normal Lighting Upper Deck			Module	UD
TASK	code	C10000703		Location	Onshore Activities	User	Rosetti Marino Quality Control
FORM	Process	MC	Activity CCK	Discipline	Electrical	Form	CPX09 LV Power Cable

	CONTINUITY			
5	CORE CONTINUITY Ω	PH 1	0,6	
6		PH 2	0,6	
7		PH 3	NA	
8	ARMOUR CONTINUITY Ω		0,6	
9	PROTECTIVE CONDUCTOR CONTINUITY Ω		0,6	
	INSULATION			
10	CORES / ARMOUR+EARTH MΩ	PH1 / PH2-PH3-A-E	>999	
11		PH2 / PH1-PH3-A-E	>999	
12		PH3 / PH1-PH2-A-E	NA	
13	CABLE IS CORRECTLY RE-CONNECTED.		Yes	

TESTING INSTRUMENTS USED

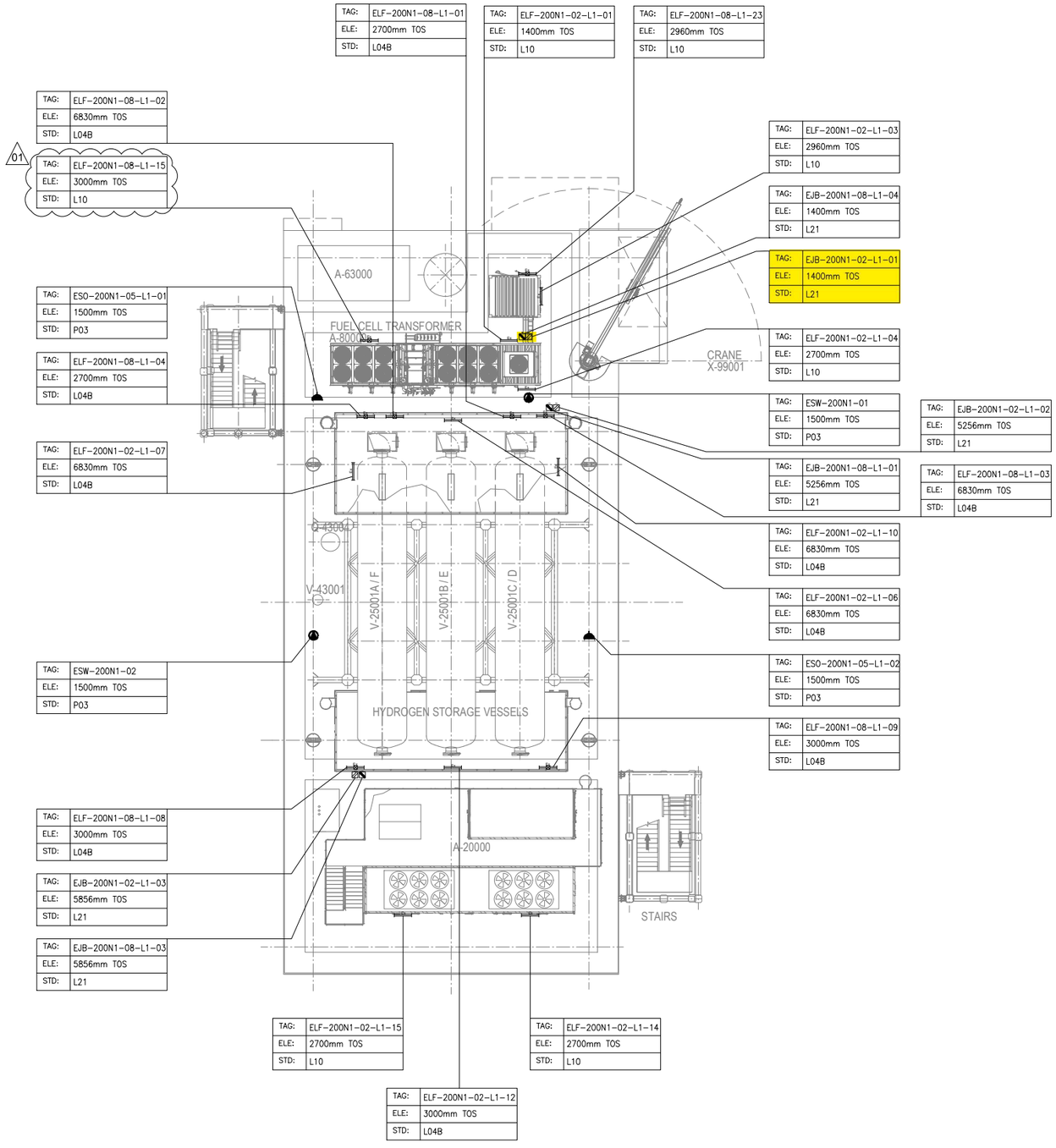
TYPE / SERIAL N° :	MEGGER : KEW3125A SERIAL: W8330207	TYPE / SERIAL N° :	MULTIMETER: FLUKE 175 SERIAL:AW1/018(17140769)
Calibration certificate N° and date:	N°7722/24 _ 10/07/2024	Calibration certificate N° and date:	N°7715/24 _ 10/07/2024

Comments: Nota 4: refer to PL C30000679

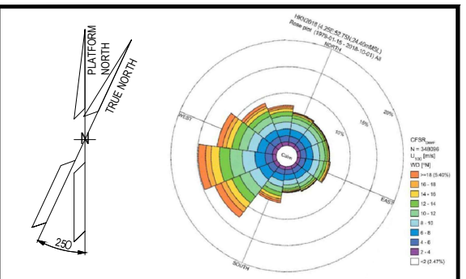
	Performed by	☉ WITNESS ☐ REVIEW	☐ WITNESS ☐ REVIEW
Company	ICS IMPIANTI	RM (ROSETTI MARINO)	
Name	Francesco Zucca	Andrea Andreani	
Date	2024-12-18	2024-12-24	
Signature	PROVERLIS Digitaly signed by Francesco Zucca 2024-12-18T10:37:05.143Z	PROVERLIS Digitaly signed by Andrea Andreani 2024-12-24T09:19:52.441Z	

DRAWING NO. 123A90-DDL-EL-DL-20118

REV. 01



PLAN ON UPPER DECK
EL+30.310 T.O.S.



NOTES

1. ALL DIMENSIONS AND ELEVATIONS ARE GIVEN IN mm UNLESS OTHERWISE NOTED.
2. ELEVATIONS REFER TO T.O.S.
3. ELEVATION OF THE LAMPS ARE REFFERED TO THE BOTTOM OF THE LAMP.
4. FOR THE ELEVATION OF JB, REFER TO THE TYPICAL INSTALLATION.

LEGEND

- EMERGENCY LIGHTING JB
- 60W LED EMERGENCY LUMINARIES
- 60W LED EMERGENCY LUMINARIES FIXTURE POLE MOUNTED
- NORMAL LIGHTING JB
- 45W LED NORMAL LUMINARIES
- 45W LED NORMAL LUMINARIES FIXTURE POLE MOUNTED
- WELDING SOCKET WITH INTEGRATED JB
- SMALL POWER SOCKET WITH INTEGRATED JB

JB TAG:	JB-TAG
TAG:	TAG
ELE:	ELEVATION
STD:	STANDARD

VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DL-20118**

REV.:	DATE:	SIGNATURE:
1_B	22/10/24	G.Randi

ROSETTI MARINO SpA

REFERENCE DOCUMENTS

123A90-DDL-PP-DL-70070	PLOT PLAN - LOWER & UPPER DECK
123A90-DDL-EL-DL-20100	ELECTRICAL EQUIPMENT LAYOUT - TOP DECK
123A90-DDL-EL-DD-20091	ELECTRICAL TYPICAL INSTALLATION DETAILS - LIGHTING SYSTEM
123A90-DDL-EL-DD-20092	ELECTRICAL TYPICAL INSTALLATION DETAILS - POWER SYSTEM & CABLE INSTALLATION
123A90-DDL-EL-RE-20153	LIGHTING CALCULATION STUDY REPORT

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	02/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	28/05/24	ASR	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND

ROSETTI MARINO

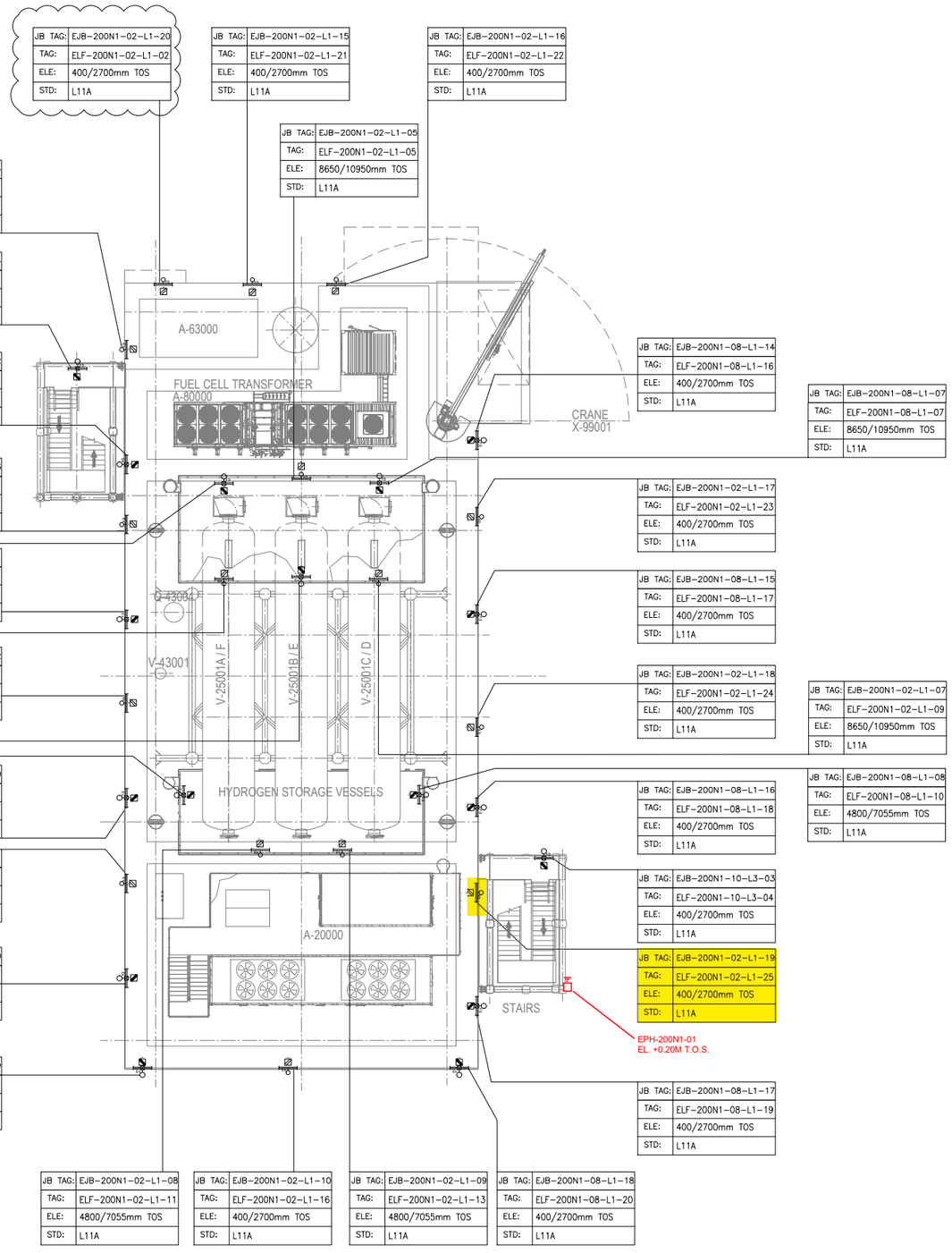
TITLE :
BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET LAYOUT – TOP DECK

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK			SCALE 1:150
DRAWN ASR	CHECKED FMA/AMA	APPROVED FPA/DLO	DATE 01/08/24
A1	DRAWING NO. 123A90-DDL-EL-DL-20118	SHEET 2of2	REV. 01

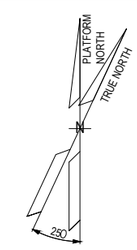
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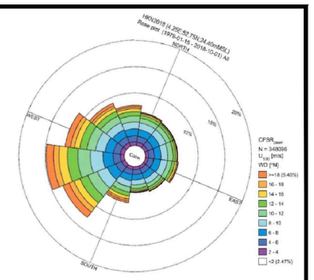
DRAWING NO. 123A90-DDL-EL-DL-20118

REV. 01



PLAN ON UPPER DECK
EL+30.310 T.O.S.





NOTES

1. ALL DIMENSIONS AND ELEVATIONS ARE GIVEN IN mm UNLESS OTHERWISE NOTED.
2. ELEVATIONS REFER TO T.O.S.
3. ELEVATION OF THE LAMPS ARE REFFERED TO THE BOTTOM OF THE LAMP.
4. FOR THE ELEVATION OF JB, REFER TO THE TYPICAL INSTALLATION.

LEGEND

- EMERGENCY LIGHTING JB
- 60W LED EMERGENCY LUMINARIES
- 60W LED EMERGENCY LUMINARIES FIXTURE POLE MOUNTED
- NORMAL LIGHTING JB
- 45W LED NORMAL LUMINARIES
- 45W LED NORMAL LUMINARIES FIXTURE POLE MOUNTED
- WELDING SOCKET WITH INTEGRATED JB
- SMALL POWER SOCKET WITH INTEGRATED JB
- TWILIGHT RELAY SENSOR

JB TAG:	JB-TAG
TAG:	TAG
ELE:	ELEVATION
STD:	STANDARD

VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DL-20118**

REV.:	DATE:	SIGNATURE:
1_B	22/10/24	G.Randi

ROSETTI MARINO SpA

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00	28/05/24	ASR	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND

ROSETTI MARINO

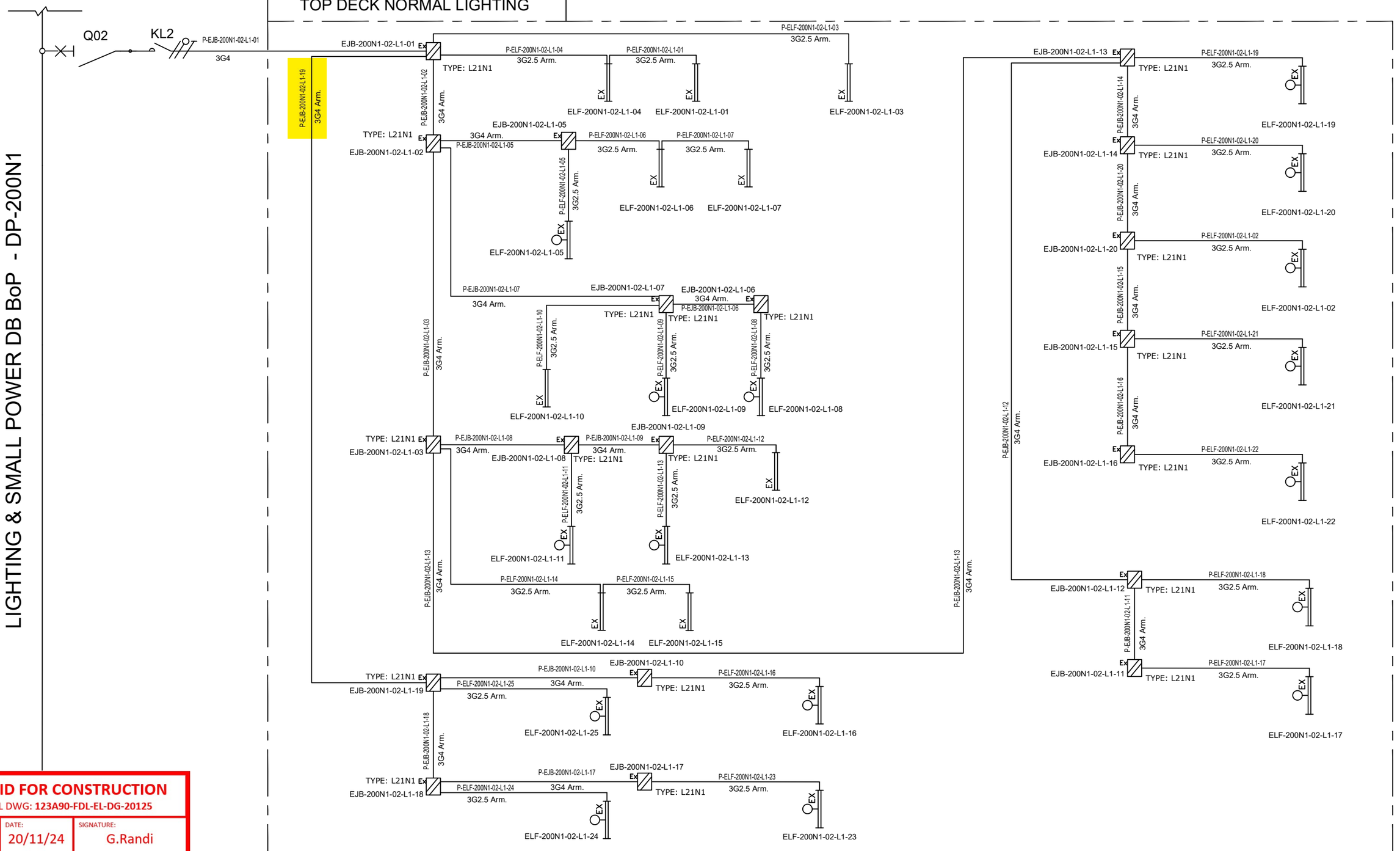
TITLE :
BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET LAYOUT – TOP DECK

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK			SCALE 1:150
DRAWN ASR	CHECKED FMA/AMA	APPROVED FPA/DLO	DATE 01/08/24
A1	DRAWING NO. 123A90-DDL-EL-DL-20118	SHEET 1of2	REV. 01

File Name : 123A90-DDL-EL-DL-20118

LIGHTING & SMALL POWER DB BoP - DP-200N1

TOP DECK NORMAL LIGHTING



VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DG-20125**

REV.:	DATE:	SIGNATURE:
2_B	20/11/24	G.Randi

ROSETTI MARINO SpA

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	08/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	01/07/24	ASR	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

TITLE : BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET CIRCUIT DIAGRAM
TOP DECK–NORMAL LIGHTING

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK | SCALE : NTS

A3 | DRAWING NO. 123A90–DDL–EL–DG–20125 | SHEET 010 | REV. 01

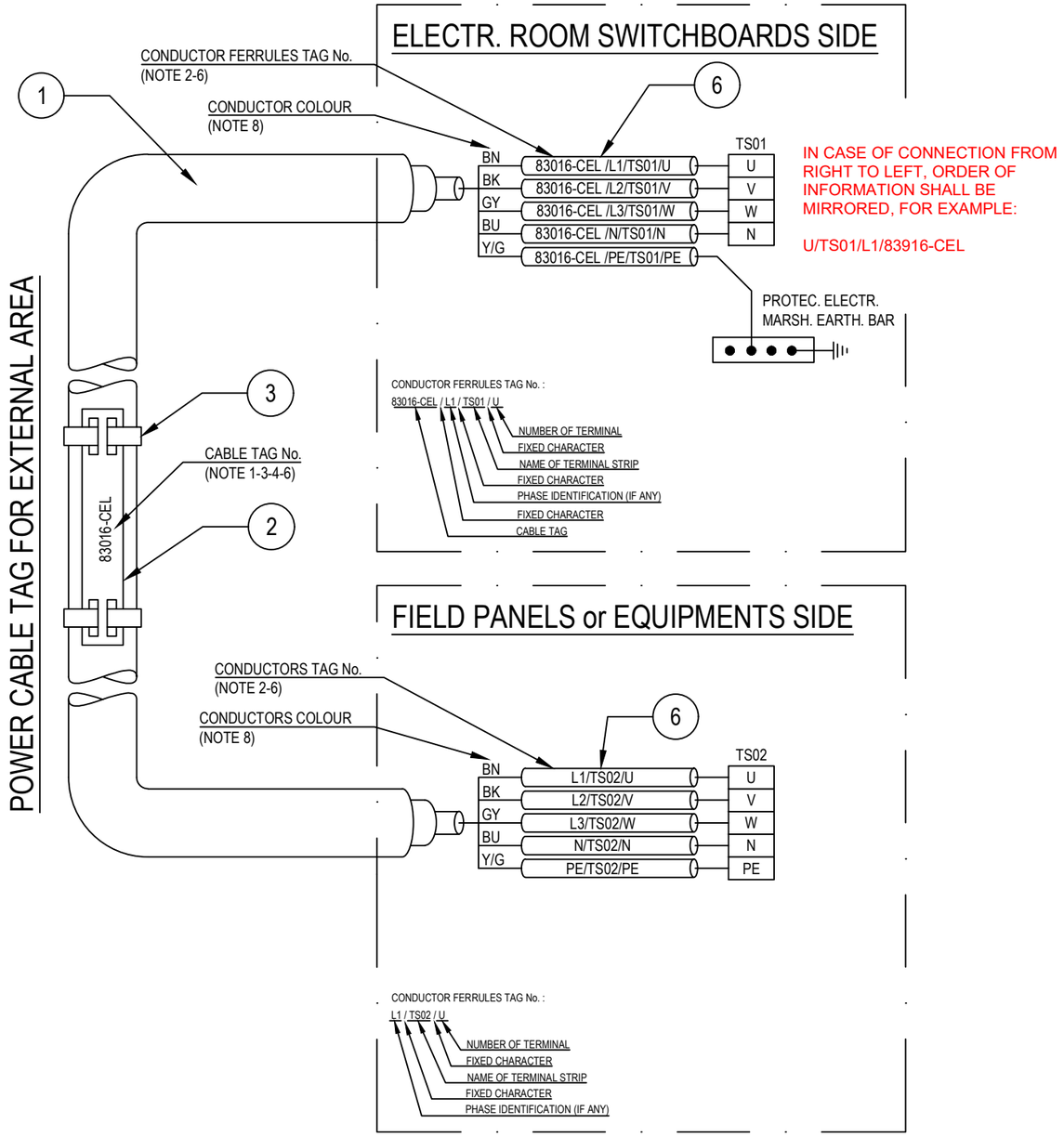
CROSSWIND

ROSETTI MARINO

F.to UNI A3: 420mmx297mm

File Name : 123A90–DDL–EL–DG–20125

C02



POS.	DESCRIPTION	MATERIAL	SIZE	Q.TY	NOTE
1	UNARMOURED CABLE				
2	CABLE TAG FOR EXTERNAL AREA	HDG/SS			NOTE 1 NOTE 4
3	TIE FOR CABLE TAG IN EXTERNAL AREA	HDG/SS			
4	CABLE TAG FOR INTERNAL AREA	PVC			NOTE 1 NOTE 5
5	TIE FOR CABLE TAG IN INTERNAL AREA	NYLON 6.6			
6	CORE FERRULES	PVC			

NOTES:

1) ALL CABLES SHALL BE IDENTIFIED AT EACH TERMINATION AND EACH SIDE OF ANY OBSTACLE (E.G. CABLE TRANSIT ON WALLS INSIDE SHELTER AND FLOOR DECK CROSSING, BY THEIR RESPECTIVE TAGS/NUMBERS, AS INDICATED ON THE CABLE SCHEDULE.
CABLE IDENTIFICATION SHALL BE ALSO DONE BELOW AND IN THE SWITCHBOARD CABLE COMPARTMENT.

2) CABLE CORE FERRULES SHALL BE FITTED AT EVERY TERMINATION. THESE FERRULES SHALL BE OF ENGRAVED PLASTIC SLIP ON, INTERLOCKED AND SELF GRIP TYPE.

3) ON CABLE TRAYS OR LADDERS, CABLES SHALL BE IDENTIFIED AT EACH END, AND EVERY 25 METERS.

4) THE CABLE TAG FOR EXTERNAL AREA SHALL DONE BY 316L STAINLESS STEEL LABELS, TAG (H=5mm) SHALL BE LASER PRINTED PREFERABLY OR EMBOSSED, LABEL HELD BY TWO 316L STAINLESS STEEL TIES.

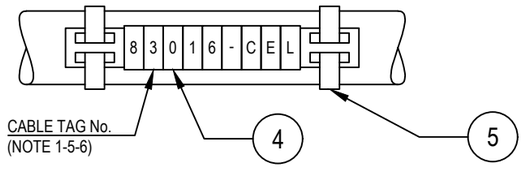
5) THE CABLE TAG FOR INTERNAL AREA SHALL BE DONE BY ENGRAVED PLASTIC SLIP ON CHARACTERS ONTO PLASTIC TIE, BLACK LETTER (H=5mm) ON WHITE.

6) CABLE AND CONDUCTOR TAG ARE INDICATIVE ONLY.

7) WITHIN TECHNICAL BUILDING, PROTECTIVE CONDUCTOR SHALL BE TAGGED BETWEEN FOLLOWING ITEMS:
- PANEL (SWITCHBOARD, SWITCHGEAR, DISTRIBUTION BOARD, ETC) AND EARTH BAR
- EARTH BAR AND EARTH BOSS

8) ONLY IF NECESSARY, SHRINK TUBES OF THE APPROPRIATE COLOR WILL BE INSTALLED TO COVER THE WRONG CONDUCTOR COLOR, THIS WILL BE PERFORMED IN EACH SIDE OF THE CABLES WHERE NECESSARY.

POWER CABLE TAG FOR INTERNAL AREA



VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DD-20092**

REV.:	DATE:	SIGNATURE:
2_B	28/11/24	G.Randi

ROSETTI MARINO SpA

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	28/08/24	GRA	AMA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	04/07/24	NLK	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	21/11/23	SPS	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL TYPICAL INSTALLATION DETAILS-POWER SYSTEM & CABLE INSTALLATION
CABLES INSTALLATION SYSTEM IDENTIFICATION FOR POWER CABLES

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK | SCALE : NTS

A3	DRAWING NO.	SHEET	REV.
	123A90-DDL-EL-DD-20092	007	02

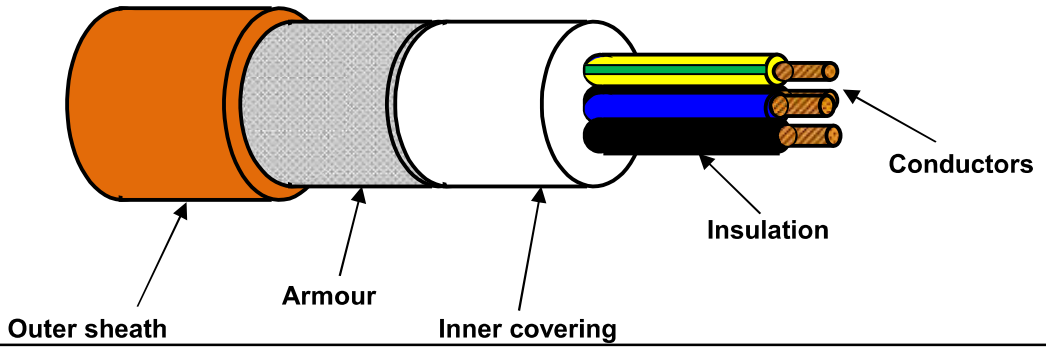
F.to UNI A3: 420mmx297mm

File Name : 123A90-DDL-EL-DD-20092 REV.02.DWG

Tag Number	Category	Disciplir	Eng Statu	NativeDoc	Layout	Parent Tag	Main Function	Secondary Fun	Area	From Tag	From Main Function	From Area	To Tag	To Main Function	To Area	Material ID	Material Desc.	Gland Standard	From Glan	From Entry	From Fitt	To Gland	To Entry	To Fitting	Routing	Routing Manual
P-EJB-200N1-02-L1-19	Cable	LSP	VFC	123A90-DDL-EL-LIS-20148						EJB-200N1-02-L1-01	Normal Lighting JB	Upper Deck	EJB-200N1-02-L1-19	Normal Lighting JB	Upper Deck	ELECV38-3G4	Cable Cu Cl.2/MGT/EPR/LSZH/GSWB/LSZH 0,6/1kV 3G4mm² - Orange	M20	T2_M20_Double			T2_M20_Double				L-300-102-LVT-002 / L-300-101-LVT-073 / L-750-101-LVT-015 / L-750-101-LVT-013 / L-750-101-LVT-014 / L-300-101-LVT-079 / L-150-102-LVT-004

Cu Cl.2/MGT/EPR/LSZH/GSWB/LSZH 0,6/1 KV

3G4 - L.V. POWER CABLE - Fire Resistant & Flame Retardant - ARMOURED



TECHNICAL FEATURES

Conductors :	**STRANDED** plain/bare annealed copper wires	IEC 60228 Class 2
Insulation :	Mica/Glass Tape (MGT) plus EPR compound, quality to IEC 60092.360, Nominal Thickness 1,0 mm	
Cores colour code :	**Brown - Blue - Yellow/Green**	
Pair Assembling :	Not required	
Pair Wrapping:	Not required	
Drain wire :	Not required	
Pair Shield :	Not required	
Shield Insulation :	Not Required	
Total Assembling :	Cores layed up with optimal lay length	
Overall Wrapping:	Not required	
Drain wire :	Not required	
Overall Shield:	Not required	
Inner covering :	Extruded LSZH compound, Average Thickness 1,0 mm	
Inner covering color code:	**Black or Natural**	
Armour :	**Galvanized Steel Wire Braid Armour (coverage ≥ 90%)**	
Outer sheath :	Extruded LSZH Thermoplastic Compound (O.I. ≥ 30%), type **SHF1** to IEC 60093.360, Average Thickness 1,4 mm	
Outer sheath color code:	**Orange**	
Outer printing (INKJET) :	**FLEI - ELECTRIC CABLE - 1000V - 3G4 SQMM - MGT/EPR/LSZH/GSWB/LSZH - 0,6/1 KV - IEC 60331.21 -**	
	IEC 60332.1.2 - IEC 60332.3.22 - Year of Manufacture - CE + Meter Marking	
Under Armour diameter :	(13,0 ± 10%) mm	
Over Armour diameter :	(14,2 ± 10%) mm	
Outer diameter :	(17,0 ± 10%) mm	
Bending radius :	cable outer diameter x 10	(in fixed installation)
Voltage test :	3,5 kV a.c. for 5' (Between Cores - Armour)	
Conductors DC Resistance :		IEC 60228 Class 2
Insulation Resistance :	≥ 790 MΩ x Km (@ 20°C)	
Applicable Standards		
Design Guidelines :	**IEC 60092.353**	
ON COMPLETE CABLE		
Fire Resistant test :	**IEC 60331.21**	
Flame Retardant test :	IEC 60332.1.2 - IEC 60332.3.22	
Acid Gas generation :	IEC 60754.1/2	
Smoke density/Light Transmittance	IEC 61034.2 (LT ≥ 60%)	
Temperature Range :		
ON INSULATION	(max +90°C)	(max continuous operation temperature of conductors)
	(max +250°C)	(max conductors temperature during short-circuit for 5 seconds)
ON COMPLETE CABLE		
During Operation :	(-20°C up to +90°C)	(in fixed installation)
During installation :	(- 5°C up to +50°C)	
Note :	**To meet the requirements of installation and use in Zone 1 & Zone 2 (IEC 60079-14) and "Gas & Vapour Tight" the cable must be provided with Penetrating Inner covering together with correct ATEX approved equipment or accessories.**	

Office	Date	Sign	Rev.	Date	Sign
Drawn by :	29/03/2024	Messa			
Checked :	29/03/2024	Spaccasassi			
Approved :	29/03/2024	Cucinotta			

The data provided, lending assent for the treatment, will be used to the sense of the article 13 of of the Regulation (UE) 2016/679, also through outsiders, in order to allow the realization of the fulfilments informatives, administrative, commercial and accounting related to the contractual relationship. Integral copy of the informative could be requested at our offices.

All proprietary rights reserved according to law. This document shall be not reproduced without written permission. FLEI reserves the right to change characteristics and technical data of product shown at any time.

ITEM	Tag	P-ELF-200N1-02-L1-25	: Normal Lighting JB / Normal Lighting Fixture			Dwg	123A90-DDL-EL-LIS-20148
	S/Sys	83-40	: Normal Lighting Upper Deck			Module	UD
TASK	code	C10000704		Location	Onshore Activities	User	Rosetti Marino Quality Control
FORM	Process	MC	Activity CCK	Discipline	Electrical	Form	CPX09 LV Power Cable

CABLE DATA

Type Cu Cl.2/MGT/EPR/LSZH/GSWB/LSZH Cores/Size mm² 3G2,5 mm2 Color ORANGE

From EJB-200N1-02-L1-19 To ELF-200N1-02-L1-25

1	Confirm cable is as specified in project cable schedule	OK
2	Visual Check cable physical integrity.	OK
3	Check is installed in accordance with layout drawing (segregation, distance…).	PL
4	Check cable is supported and fixed to rack according to project specification.	Note
5	Check bending radius is within the specified limits.	OK
6	Confirm cable glands suit for cable type, correctly mounted and tightened.	PL
7	Check gland plate for single core cables is non ferrous (non -magnetic).	NA
8	Confirm cable labelling is in accordance with specifications.	PL
9	Check cable is correctly loomed and segregated in accordance with specification.	OK
10	Check cable earthing against lastest drawings.	OK
11	Check cores marking are in accordance with termination diagram	PL
12	Check terminations are in accordance with latest termination diagram	OK
13	If required produce Red Line Mark Up for "AS BUILT"	

ROSETTI MARINO PROVERLIS CROSSWIND

ITEM	Tag	P-ELF-200N1-02-L1-25	: Normal Lighting JB / Normal Lighting Fixture			Dwg	123A90-DDL-EL-LIS-20148
	S/Sys	83-40	: Normal Lighting Upper Deck			Module	UD
TASK	code	C10000704		Location	Onshore Activities	User	Rosetti Marino Quality Control
FORM	Process	MC	Activity CCK	Discipline	Electrical	Form	CPX09 LV Power Cable

	CONTINUITY			
5	CORE CONTINUITY Ω	PH 1	0,2	
6		PH 2	0,2	
7		PH 3	NA	
8	ARMOUR CONTINUITY Ω		0.2	
9	PROTECTIVE CONDUCTOR CONTINUITY Ω		0.2	
	INSULATION			
10	CORES / ARMOUR+EARTH MΩ	PH1 / PH2-PH3-A-E	>999	
11		PH2 / PH1-PH3-A-E	>999	
12		PH3 / PH1-PH2-A-E	NA	
13	CABLE IS CORRECTLY RE-CONNECTED.		Yes	

TESTING INSTRUMENTS USED

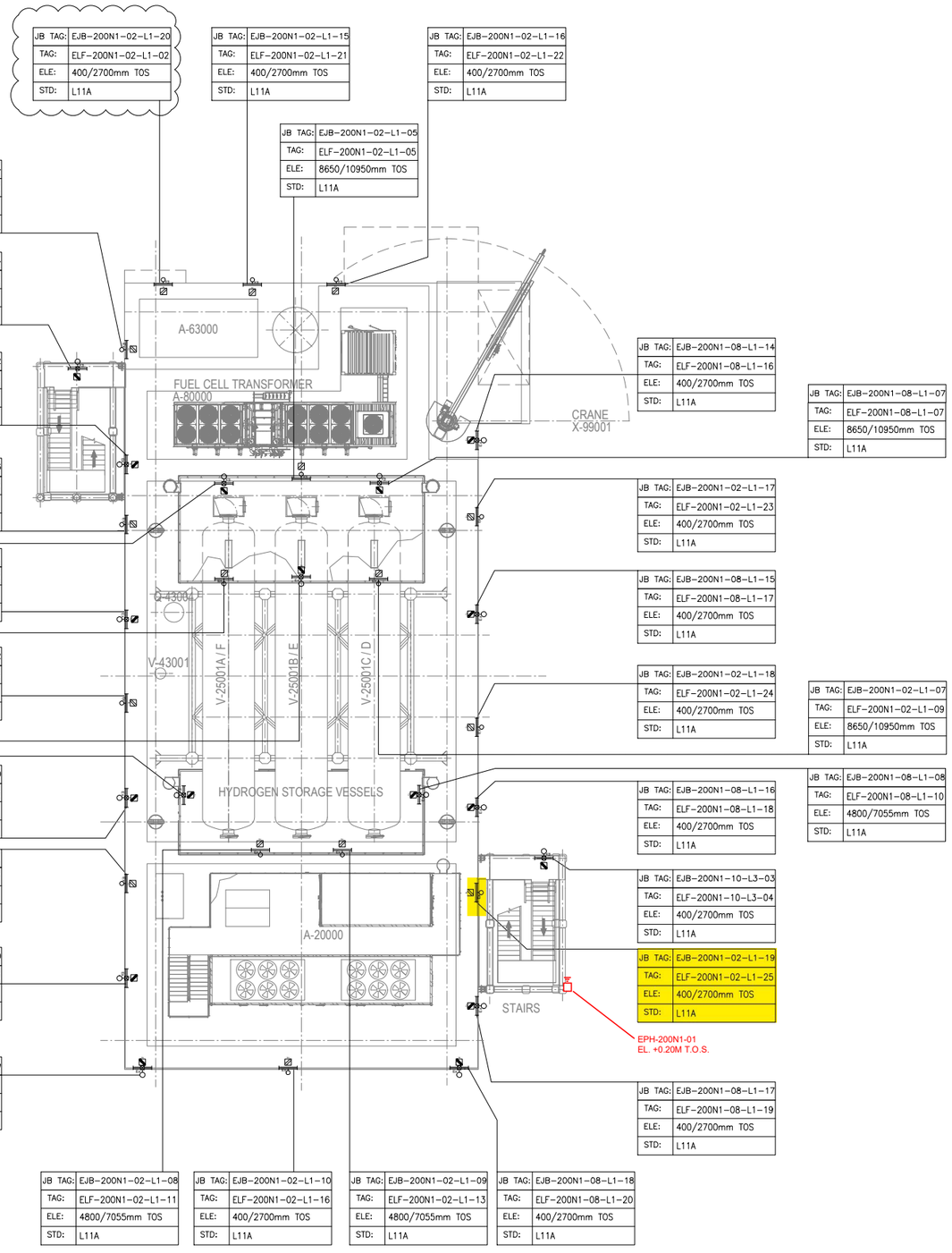
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Calibration certificate N° and date:	N°7722/24 _ 10/07/2024	Calibration certificate N° and date:	N°7715/24 _ 10/07/2024

Comments: Nota 4: refer to PL C30000679

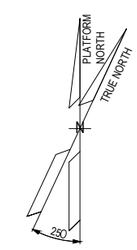
	Performed by	☉ WITNESS ☐ REVIEW	☐ WITNESS ☐ REVIEW
Company	ICS IMPIANTI	RM(ROSETTI MARINO)	
Name	Francesco Zucca	Andrea Andreani	
Date	2024-12-05	2024-12-07	
Signature	PROVERLIS Digitaly signed by Francesco Zucca 2024-12-05T18:14:22.154Z	PROVERLIS Digitaly signed by Andrea Andreani 2024-12-07T08:16:07.251Z	

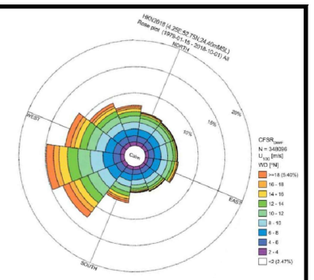
DRAWING NO. 123A90-DDL-EL-DL-20118

REV. 01



PLAN ON UPPER DECK
EL+30.310 T.O.S.





NOTES

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4. FOR THE ELEVATION OF JB, REFER TO THE TYPICAL INSTALLATION.

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- 60W LED EMERGENCY LUMINARIES
- 60W LED EMERGENCY LUMINARIES FIXTURE POLE MOUNTED
- NORMAL LIGHTING JB
- 45W LED NORMAL LUMINARIES
- 45W LED NORMAL LUMINARIES FIXTURE POLE MOUNTED
- WELDING SOCKET WITH INTEGRATED JB
- SMALL POWER SOCKET WITH INTEGRATED JB
- TWILIGHT RELAY SENSOR

JB TAG:	JB-TAG
TAG:	TAG
ELE:	ELEVATION
STD:	STANDARD

VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DL-20118**

REV.:	DATE:	SIGNATURE:
1_B	22/10/24	G.Randi

ROSETTI MARINO SpA

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123A90-DDL-EL-DD-20092	ELECTRICAL TYPICAL INSTALLATION DETAILS - POWER SYSTEM & CABLE INSTALLATION
123A90-DDL-EL-RE-20153	LIGHTING CALCULATION STUDY REPORT

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	02/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
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ROSETTI MARINO

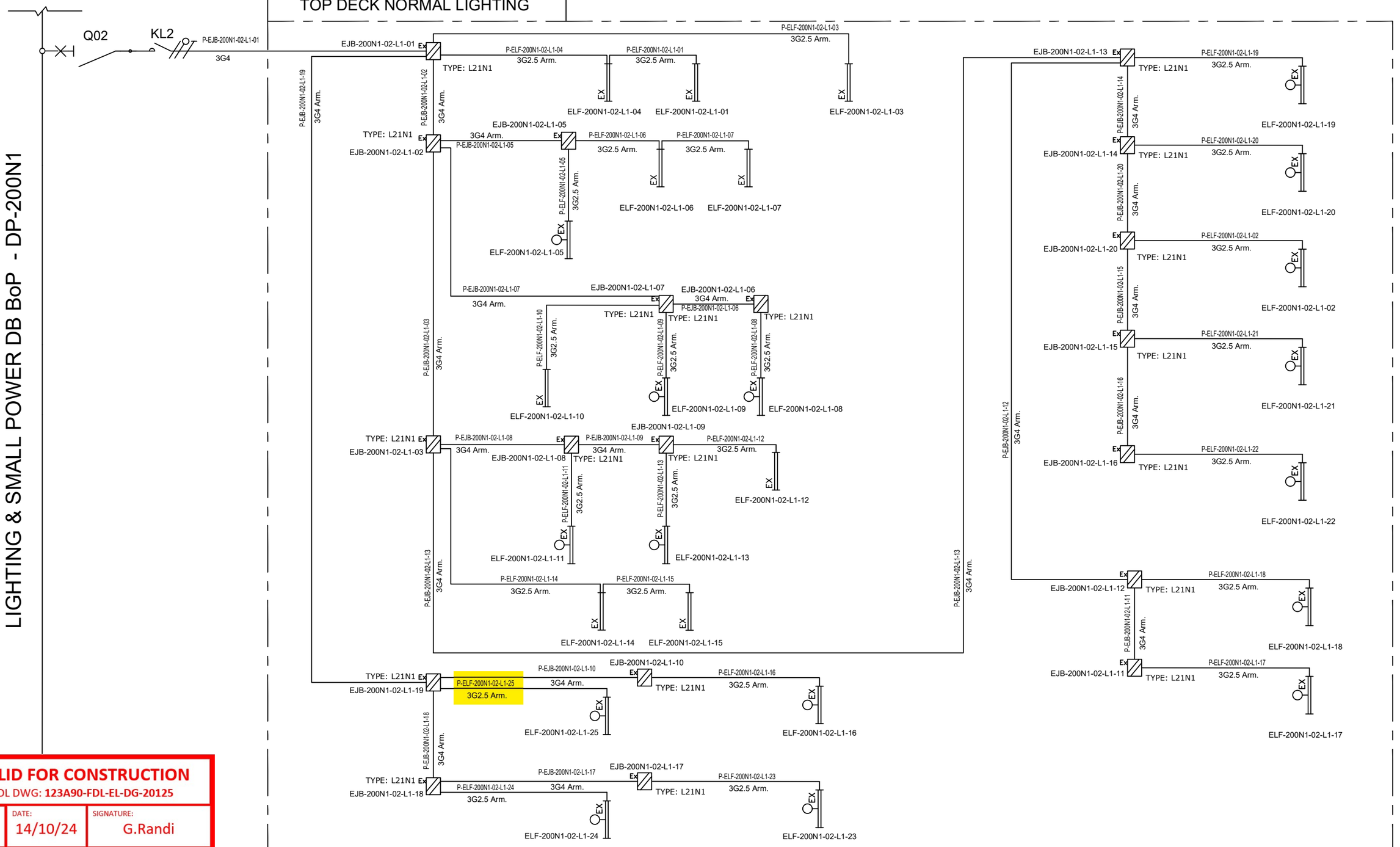
TITLE :
BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET LAYOUT – TOP DECK

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK			SCALE 1:150
DRAWN ASR	CHECKED FMA/AMA	APPROVED FPA/DLO	DATE 01/08/24
A1	DRAWING NO. 123A90-DDL-EL-DL-20118	SHEET 1of2	REV. 01

File Name : 123A90-DDL-EL-DL-20118

LIGHTING & SMALL POWER DB BoP - DP-200N1

TOP DECK NORMAL LIGHTING



VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DG-20125**

REV.:	DATE:	SIGNATURE:
1_B	14/10/24	G.Randi

ROSETTI MARINO SpA

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	08/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	01/07/24	ASR	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

TITLE : BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET CIRCUIT DIAGRAM
TOP DECK–NORMAL LIGHTING

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK | SCALE : NTS

A3 | DRAWING NO. 123A90-DDL-EL-DG-20125 | SHEET 010 | REV. 01

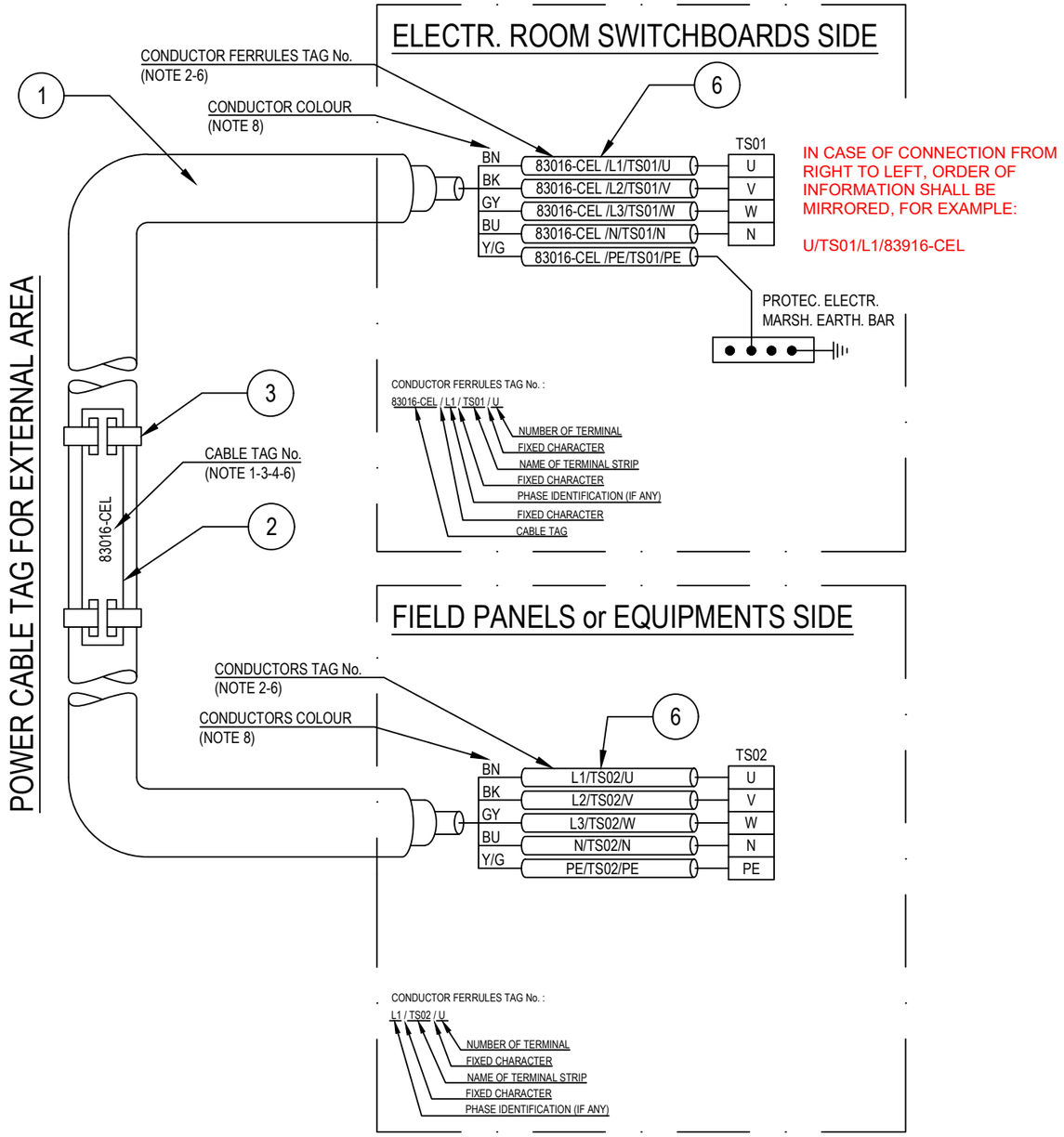
CROSSWIND

ROSETTI MARINO

F.to UNI A3: 420mmx297mm

File Name : 123A90-DDL-EL-DG-20125

C02



POS.	DESCRIPTION	MATERIAL	SIZE	Q.TY	NOTE
1	UNARMOURED CABLE				
2	CABLE TAG FOR EXTERNAL AREA	HDG/SS			NOTE 1 NOTE 4
3	TIE FOR CABLE TAG IN EXTERNAL AREA	HDG/SS			
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5	TIE FOR CABLE TAG IN INTERNAL AREA	NYLON 6.6			
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1) ALL CABLES SHALL BE IDENTIFIED AT EACH TERMINATION AND EACH SIDE OF ANY OBSTACLE (E.G. CABLE TRANSIT ON WALLS INSIDE SHELTER AND FLOOR DECK CROSSING, BY THEIR RESPECTIVE TAGS/NUMBERS, AS INDICATED ON THE CABLE SCHEDULE.
CABLE IDENTIFICATION SHALL BE ALSO DONE BELOW AND IN THE SWITCHBOARD CABLE COMPARTMENT.

2) CABLE CORE FERRULES SHALL BE FITTED AT EVERY TERMINATION. THESE FERRULES SHALL BE OF ENGRAVED PLASTIC SLIP ON, INTERLOCKED AND SELF GRIP TYPE.

3) ON CABLE TRAYS OR LADDERS, CABLES SHALL BE IDENTIFIED AT EACH END, AND EVERY 25 METERS.

4) THE CABLE TAG FOR EXTERNAL AREA SHALL DONE BY 316L STAINLESS STEEL LABELS, TAG (H=5mm) SHALL BE LASER PRINTED PREFERABLY OR EMBOSSED, LABEL HELD BY TWO 316L STAINLESS STEEL TIES.

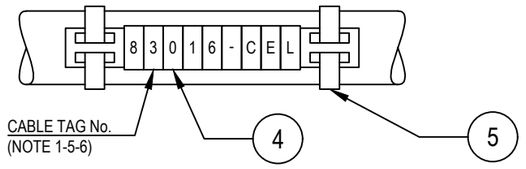
5) THE CABLE TAG FOR INTERNAL AREA SHALL BE DONE BY ENGRAVED PLASTIC SLIP ON CHARACTERS ONTO PLASTIC TIE, BLACK LETTER (H=5mm) ON WHITE.

6) CABLE AND CONDUCTOR TAG ARE INDICATIVE ONLY.

7) WITHIN TECHNICAL BUILDING, PROTECTIVE CONDUCTOR SHALL BE TAGGED BETWEEN FOLLOWING ITEMS:
- PANEL (SWITCHBOARD, SWITCHGEAR, DISTRIBUTION BOARD, ETC) AND EARTH BAR
- EARTH BAR AND EARTH BOSS

8) ONLY IF NECESSARY, SHRINK TUBES OF THE APPROPRIATE COLOR WILL BE INSTALLED TO COVER THE WRONG CONDUCTOR COLOR, THIS WILL BE PERFORMED IN EACH SIDE OF THE CABLES WHERE NECESSARY.

POWER CABLE TAG FOR INTERNAL AREA



VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DD-20092**

REV.:	DATE:	SIGNATURE:
2_B	28/11/24	G.Randi

ROSETTI MARINO SpA

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	28/08/24	GRA	AMA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	04/07/24	NLK	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	21/11/23	SPS	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL TYPICAL INSTALLATION DETAILS-POWER SYSTEM & CABLE INSTALLATION
CABLES INSTALLATION SYSTEM IDENTIFICATION FOR POWER CABLES

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK | SCALE : NTS

A3	DRAWING NO.	SHEET	REV.
	123A90-DDL-EL-DD-20092	007	02

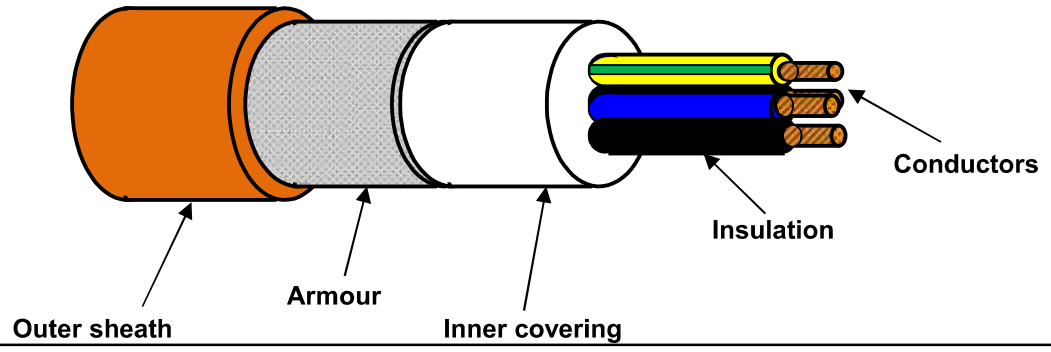
F.to UNI A3: 420mmx297mm

File Name : 123A90-DDL-EL-DD-20092 REV.02.DWG

Tag Number	Category	Discipline	Eng Status	NativeDoc	Layout	Parent Tag	Main Function	Secondary Function	Area	From Tag	From Main Function	From Area	To Tag	To Main Function	To Area	Material ID	Material Desc.	Gland Standard	From Gland	From Entry	From Fitting	To Gland	To Entry	To Fitting	Routing	Routing Manual
P-ELF-200N1-02-L1-25	Cable	LSP	VFC	123A90-DDL-EL-LIS-20148						EJB-200N1-02-L1-19	Normal Lighting JB	Upper Deck	ELF-200N1-02-L1-25	Normal Lighting Fixture	Upper Deck	ELECV19-3G2,5	Cable Cu Cl.2/MGT/EPR/LSZH/GSWB/LSZH 0,6/1kV 3G2,5mm² - Orange	M20	T2_M20_Double			T2_M20_Double				L-50-102-LVT-019

Cu Cl.2/MGT/EPR/LSZH/GSWB/LSZH 0,6/1 KV

3G2,5 - L.V. POWER CABLE - Fire Resistant & Flame Retardant - ARMOURED



TECHNICAL FEATURES

Conductors :	**STRANDED** plain/bare annealed copper wires	IEC 60228 Class 2
Insulation :	Mica/Glass Tape (MGT) plus EPR compound, quality to IEC 60092.360, Nominal Thickness 1,0 mm	
Cores colour code :	**Brown - Blue - Yellow/Green**	
Pair Assembling :	Not required	
Pair Wrapping:	Not required	
Drain wire :	Not required	
Pair Shield :	Not required	
Shield Insulation :	Not Required	
Total Assembling :	Cores layed up with optimal lay length	
Overall Wrapping:	Not required	
Drain wire :	Not required	
Overall Shield:	Not required	
Inner covering :	Extruded LSZH compound, Average Thickness 1,0 mm	
Inner covering color code:	**Black or Natural**	
Armour :	**Galvanized Steel Wire Braid Armour (coverage ≥ 90%)**	
Outer sheath :	Extruded LSZH Thermoplastic Compound (O.I. ≥ 30%), type **SHF1** to IEC 60093.360, Average Thickness 1,3 mm	
Outer sheath color code:	**Orange**	
Outer printing (INKJET) :	**FLEI - ELECTRIC CABLE - 1000V - 3G2,5 SQMM - MGT/EPR/LSZH/GSWB/LSZH - 0,6/1 KV - IEC 60331.21 - IEC 60332.1.2 - IEC 60332.3.22 - Year of Manufacture - CE + Meter Marking**	
Under Armour diameter :	(11,7 ± 10%) mm	
Over Armour diameter :	(12,9 ± 10%) mm	
Outer diameter :	(15,5 ± 10%) mm	
Bending radius :	cable outer diameter x 10	(in fixed installation)
Voltage test :	3,5 kV a.c. for 5' (Between Cores - Armour)	
Conductors DC Resistance :		IEC 60228 Class 2
Insulation Resistance :	≥ 940 MΩ x Km (@ 20°C)	
Applicable Standards		
Design Guidelines :	**IEC 60092.353**	
ON COMPLETE CABLE		
Fire Resistant test :	**IEC 60331.21**	
Flame Retardant test :	IEC 60332.1.2 - IEC 60332.3.22	
Acid Gas generation :	IEC 60754.1/2	
Smoke density/Light Transmittance	IEC 61034.2 (LT ≥ 60%)	
Temperature Range :		
ON INSULATION	(max +90°C)	(max continuous operation temperature of conductors)
	(max +250°C)	(max conductors temperature during short-circuit for 5 seconds)
ON COMPLETE CABLE		
During Operation :	(-20°C up to +90°C)	(in fixed installation)
During installation :	(- 5°C up to +50°C)	
Note :	**To meet the requirements of installation and use in Zone 1 & Zone 2 (IEC 60079-14) and "Gas & Vapour Tight" the cable must be provided with Penetrating Inner covering together with correct ATEX approved equipment or accessories.**	

Office	Date	Sign	Rev.	Date	Sign
Drawn by :	29/03/2024	Messa			
Checked :	29/03/2024	Spaccasassi			
Approved :	29/03/2024	Cucinotta			

The data provided, lending assent for the treatment, will be used to the sense of the article 13 of of the Regulation (UE) 2016/679, also through outsiders, in order to allow the realization of the fulfilments informatives, administrative, commercial and accounting related to the contractual relationship. Integral copy of the informative could be requested at our offices.

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ITEM	Tag	EJB-200N1-02-L1-14	: JB - NORMAL LIGHTING			Dwg	123A90-DDL-EL-DL-20118
	S/Sys	83-40	: Normal Lighting Upper Deck			Module	UD
TASK	code	C10001256		Location	Onshore Activities	User	Rosetti Marino Quality Control
FORM	Process	MC	Activity CCK	Discipline	Electrical	Form	CPX31 Junction and Marshalling Box

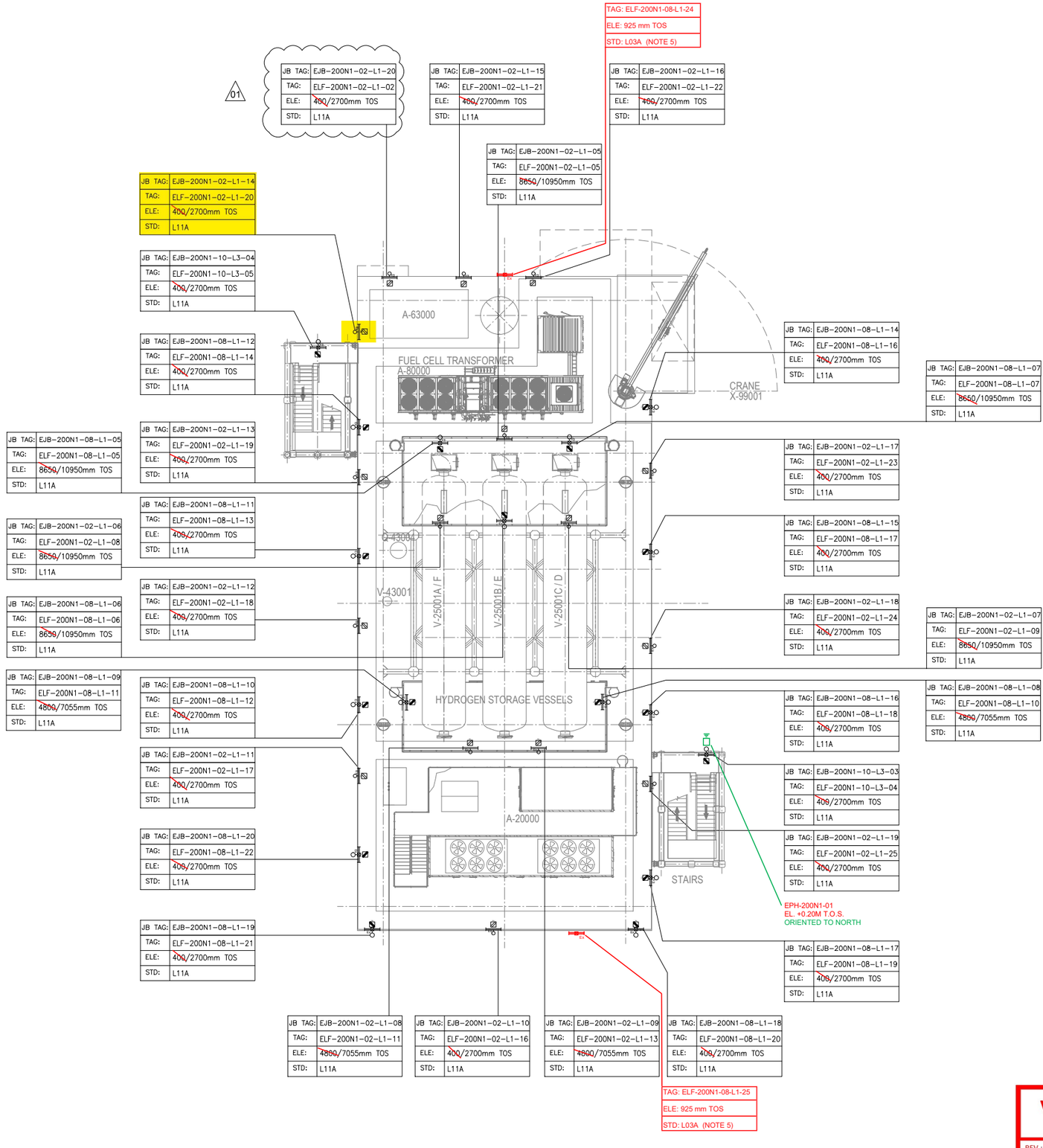
1	Check box is de-energized and safe.	OK
2	Check box is correctly mounted and easily accessible.	PL
3	Check box tagging against drawing.	OK
4	Check nameplate data is correct.	OK
5	Check flameproof joints are clean and greased with approved lubricants (if required).	NA
6	Check for damaging gaskets.	OK
7	Check all bolts are fitted and correcly tighted .	OK
8	Check all unused entries are suitably plugged.	PL
9	Check earthing and bonding against drawings.	OK
10	Check terminal blocks segregation barriers are fitted where necessary.	NA
11	If required produce Red Line Mark Up for "AS BUILT"	

Comments:

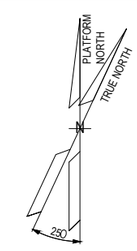
	Performed by	● WITNESS ☐ REVIEW	☐ WITNESS ☐ REVIEW
Company	ICS IMPIANTI	RM(ROSETTI MARINO)	
Name	Francesco Zucca	Alessio Polo	
Date	2024-12-28	2025-01-18	
Signature	PROVERLIS Digitaly signed by Francesco Zucca 2024-12-28T07:31:29.358Z	PROVERLIS Digitaly signed by Alessio Polo 2025-01-18T11:36:21.003Z	

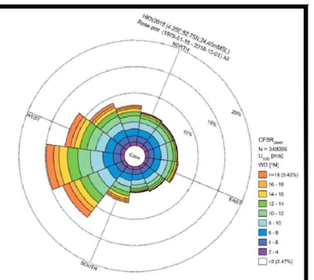
DRAWING NO. 123A90-DDL-EL-DL-20118

REV. 01



PLAN ON UPPER DECK
EL+30.310 T.O.S.





NOTES

1. ALL DIMENSIONS AND ELEVATIONS ARE GIVEN IN mm UNLESS OTHERWISE NOTED.
2. ELEVATIONS REFER TO T.O.S.
3. ELEVATION OF THE LAMPS ARE REFFERED TO THE BOTTOM OF THE LAMP.
4. FOR THE ELEVATION OF JB, REFER TO THE TYPICAL INSTALLATION.
5. FOR ELF-200N1-08-L1-24 AND ELF-200N1-08-L1-25 CONSTRUCTION DETAILS REFER TO DOC. 123A90-DDL-ST-DD-90076

LEGEND

- EMERGENCY LIGHTING JB
- 60W LED EMERGENCY LUMINARIES
- 60W LED EMERGENCY LUMINARIES FIXTURE POLE MOUNTED
- NORMAL LIGHTING JB
- 45W LED NORMAL LUMINARIES
- 45W LED NORMAL LUMINARIES FIXTURE POLE MOUNTED
- WELDING SOCKET WITH INTEGRATED JB
- SMALL POWER SOCKET WITH INTEGRATED JB
- TWILIGHT RELAY SENSOR

JB TAG:	JB-TAG
TAG:	TAG
ELE:	ELEVATION
STD:	STANDARD

REFERENCE DOCUMENTS

123A90-DDL-PP-DL-70070	PLOT PLAN - LOWER & UPPER DECK
123A90-DDL-EL-DL-20100	ELECTRICAL EQUIPMENT LAYOUT - TOP DECK
123A90-DDL-EL-DD-20091	ELECTRICAL TYPICAL INSTALLATION DETAILS - LIGHTING SYSTEM
123A90-DDL-EL-DD-20092	ELECTRICAL TYPICAL INSTALLATION DETAILS - POWER SYSTEM & CABLE INSTALLATION
123A90-DDL-EL-RE-20153	LIGHTING CALCULATION STUDY REPORT
123A90-DDL-ST-DD-90076	IDENTIFICATION PANELS ASSEMBLY AND DETAILS

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	02/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	28/05/24	ASR	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DL-20118**

REV.:	DATE:	SIGNATURE:
1_G	09/01/25	V.Ramponi

ROSETTI MARINO SpA

CROSSWIND | ROSETTI MARINO

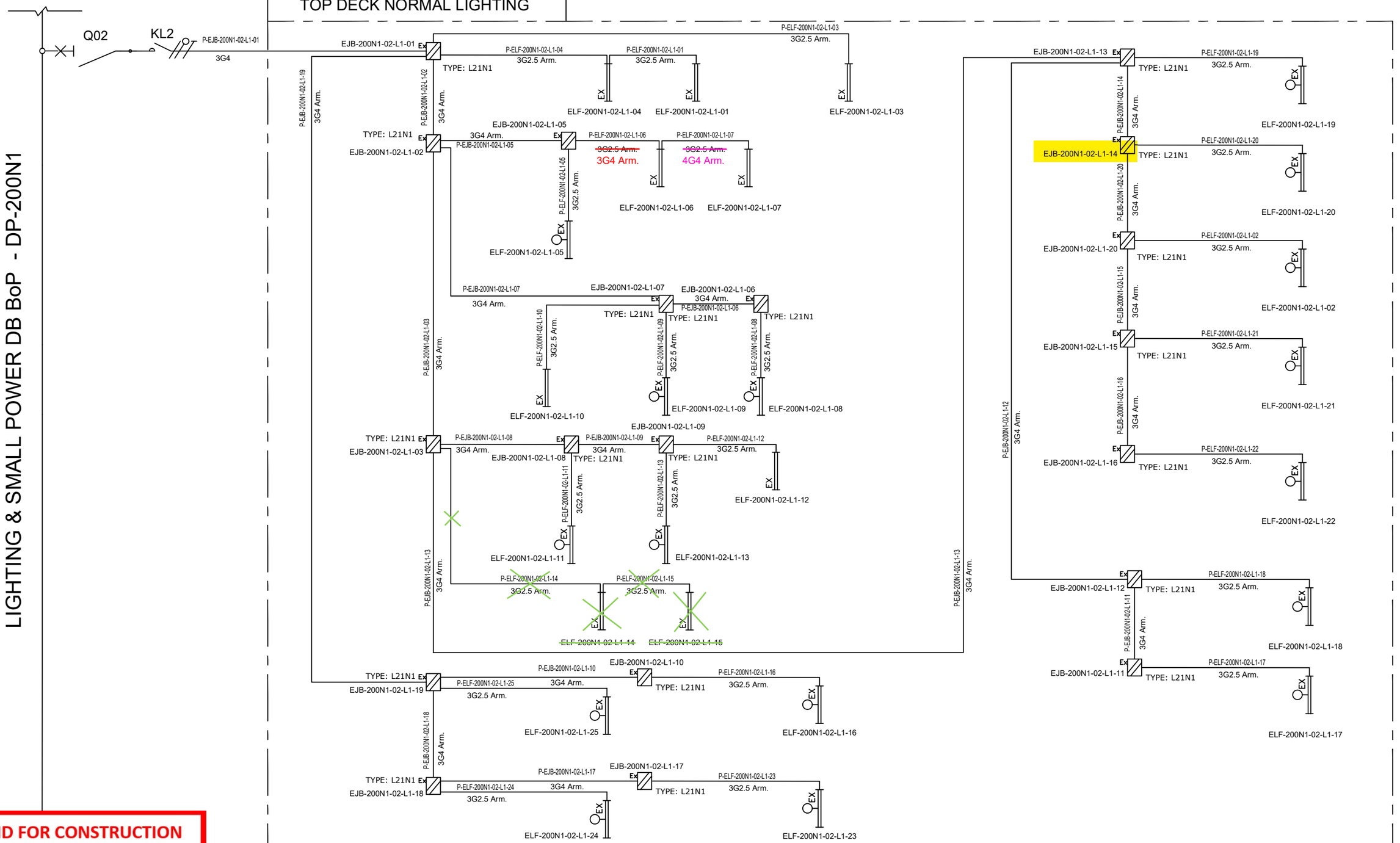
TITLE : BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET LAYOUT – TOP DECK

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK			SCALE 1:150
DRAWN ASR	CHECKED FMA/AMA	APPROVED FPA/DLO	DATE 01/08/24
A1	DRAWING NO. 123A90-DDL-EL-DL-20118	SHEET 1of2	REV. 01

File Name : 123A90-DDL-EL-DL-20118

LIGHTING & SMALL POWER DB BoP - DP-200N1

TOP DECK NORMAL LIGHTING



VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DG-20125**

REV.:	DATE:	SIGNATURE:
2_G	16/01/25	G.Randi

ROSETTI MARINO SpA

CROSSWIND

ROSETTI MARINO

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	08/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	01/07/24	ASR	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

TITLE : BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET CIRCUIT DIAGRAM
TOP DECK–NORMAL LIGHTING

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE : NTS

A3

DRAWING NO. 123A90–DDL–EL–DG–20125

SHEET 010

REV. 01

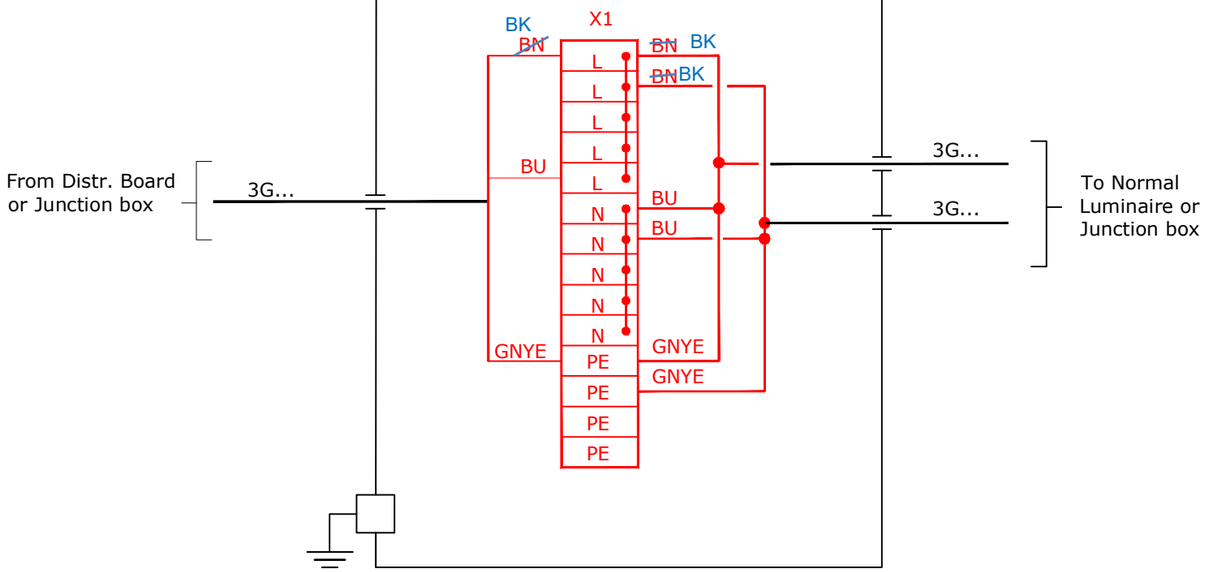
F.to UNI A3: 420mmx297mm

File Name : 123A90–DDL–EL–DG–20125

TYPE : L21N1 & L21N2

ITEM: NORMAL LIGHTING JUNCTION BOX

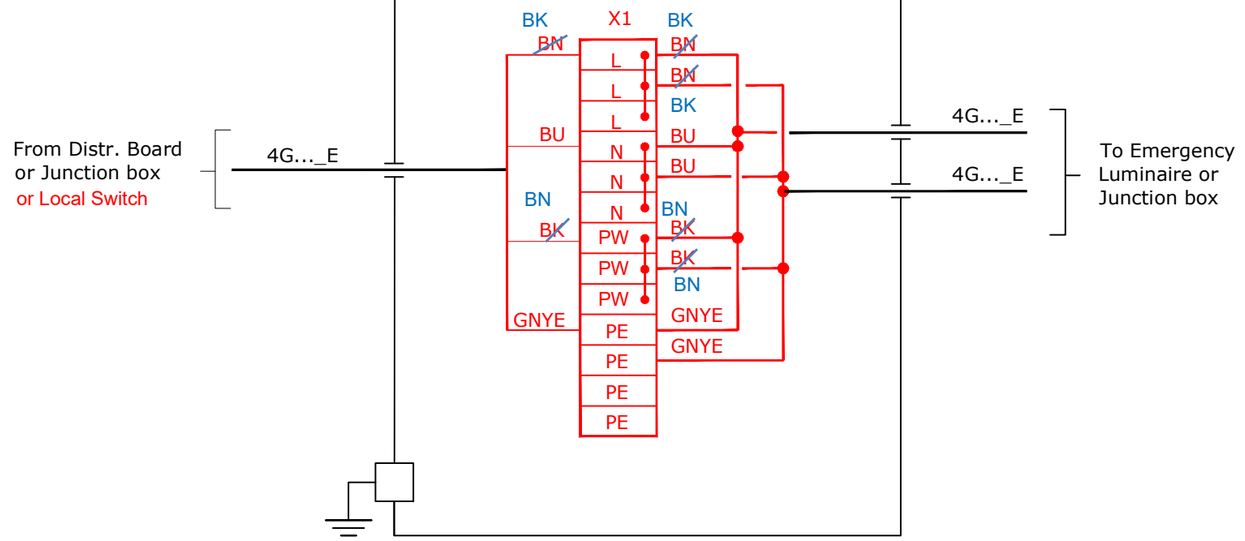
TAG : Typical



TYPE : L21E1 & L21E2

ITEM: EMERGENCY LIGHTING JUNCTION BOX

TAG : Typical



VALID FOR CONSTRUCTION

FDL DWG: **123A90-FDL-EL-DG-20125**

REV.:	DATE:	SIGNATURE:
2_G	16/01/25	G.Randi

ROSETTI MARINO SpA

CROSSWIND

ROSETTI MARINO

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	08/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)

TITLE : BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET CIRCUIT DIAGRAM
TYPICAL JB INTERCONNECTING DIAGRAM

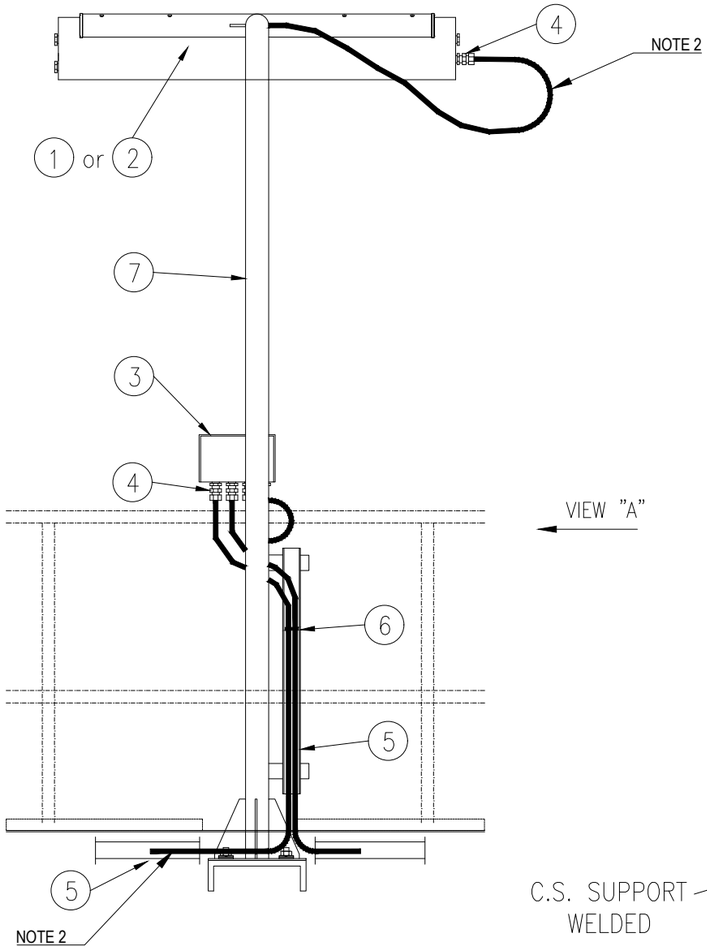
CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK | SCALE : NTS

A3	DRAWING NO.	SHEET	REV.
	123A90-DDL-EL-DG-20125	016	01

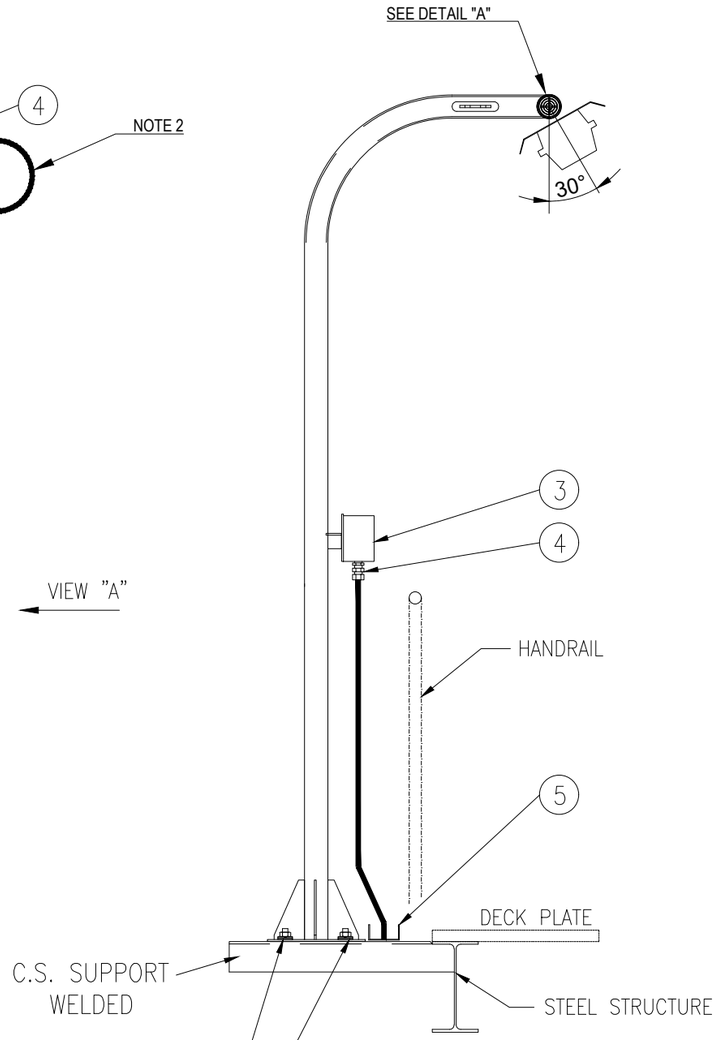
F.to UNI A3: 420mmx297mm

File Name : 123A90-DDL-EL-DG-20125

L11A

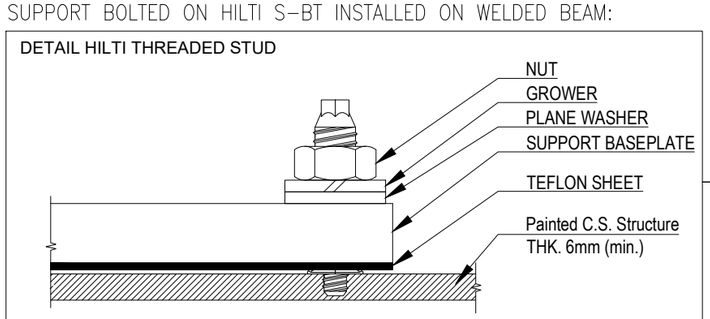


VIEW "A"

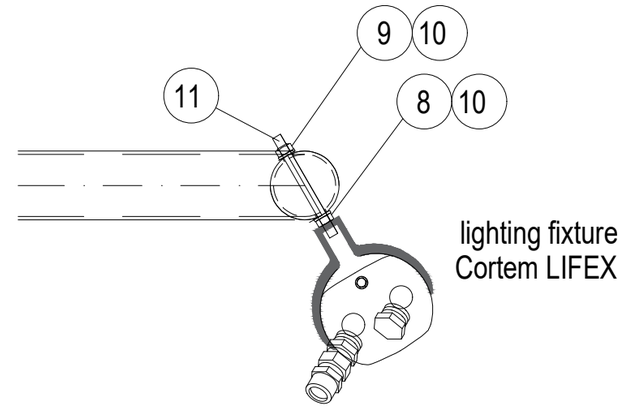


VIEW "A"

SUPPORT BOLTED ON HILTI S-BT INSTALLED ON WELDED BEAM:



POS.	DESCRIPTION	MATERIAL	SIZE	Q.TY	NOTE
1	42W LED LUMINARIES	ALUMINIUM ALLOY		1	
2	45W LED LUMINARIES C/W BATTERY	ALUMINIUM ALLOY		1	
3	JUNCTION BOX (Ex)	GRP		1	NOTE 1
4	CABLE GLAND C/W EARTH TAG, WASHERS, LOCKNUT AND WEATHERPROOF WASHERS	BRASS NICKEL PLATED		AS REQ.	
5	CABLE TRAY	AISI 316L			
6	STAINLESS STEEL NYLON COATED CABLE TIE	SS NYLON COATED			
7	POLE SUPPORT FOR LAMP	AISI 316L	2"		
8	NUT	AISI 316L	M8		
9	SELF.LOCKING NUT	AISI 316L	M8		
10	LARGE PLANE WASHER (24mm DIAM.)	AISI 316L	M8		
11	THREADED ROD M8x100	AISI 316L	M8		



DETAIL "A"

NOTES:

1) FOR LAMPS IN HAZARDOUS AREA, USE ARMOURED CABLE, DOUBLE SEAL CABLE GLAND AND EX JUNCTION BOX.

2) ALWAYS ENSURE CABLE LENGTH IS >3m

VALID FOR CONSTRUCTION

REV.:	DATE:	SIGNATURE:
2_B	12/12/24	C.Pilato

ROSETTI MARINO SpA

02

CROSSWIND

ROSETTI MARINO

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	30/09/24	GRA	AMA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	04/07/24	NLK	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	21/11/23	SPS	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL TYPICAL INSTALLATION DETAILS-LIGHTING SYSTEM
LIGHTING FIXTURE MOUNTED ON POLE

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK | SCALE : NTS

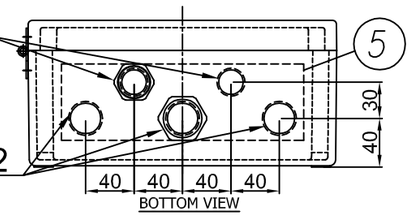
A3 | DRAWING NO. 123A90-DDL-EL-DD-20091 | SHEET 014 | REV. 02

F.to UNI A3: 420mmx297mm

File Name : 123A90-DDL-EL-DD-20091 REV.02.DWG

(10)(4) N°2 PASSING HOLES Ø20.2
C/W N°1 BNK PLUG M20 +
N°1 DUSTPROOF PVC PLUG

(3)(3) N°3 PASSING HOLES Ø25.2
C/W N°1 BNK PLUG M25 +
N°1 DUSTPROOF PVC PLUG



BOTTOM VIEW

(8) I2400722-B015I00029809

TECHNOR ITALSMEA
A COMPANY OF MARECHAL ELECTRIC
Via Italia 33 - 20060 Gessate (MI) ITALY

CE 0080 Ex II 2G II 2D
FIDI 21ATEX 0090X
IECEx FIDI 21.0015X
Year of construction:

MADE IN ITALY

TYPE: AQ-252612P
230VAC 50Hz 20A
Max Dis. P. 6W

Ex eb IIC T6 Gb
Ex tb IIIC T85°C Db
IP66
T.amb. -20/+40°C
Serial Nr.

WARNINGS : DO NOT OPEN WHEN ENERGIZED

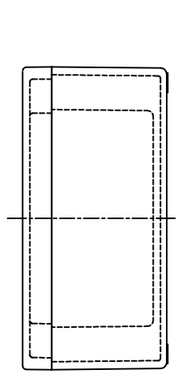
A002MAX

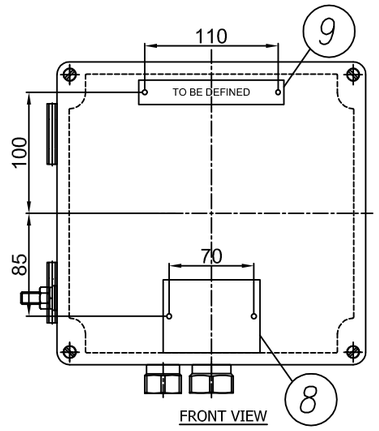
(9) PLATE DETAIL



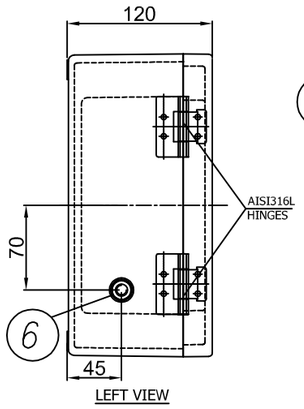
MATERIAL: LAMINATED PLASTIC
BACKGROUND: WHITE
LETTERS: BLACK

(7) Terminals numbered: NOTE 1

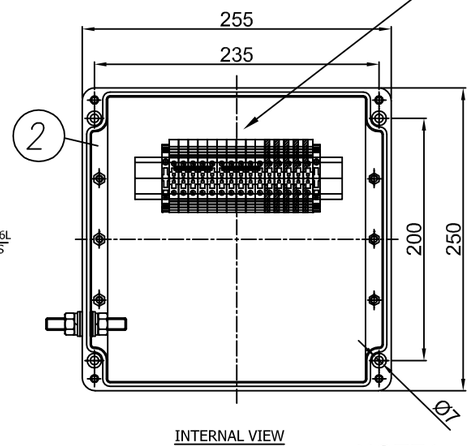

RIGHT VIEW



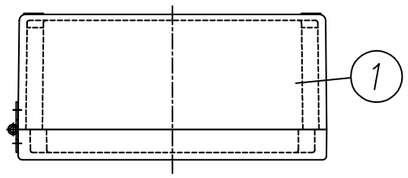
FRONT VIEW



LEFT VIEW



INTERNAL VIEW



TOP VIEW

NOTE1 :
- JB for Normal Lighting have terminals bridge: L-L-L-L-L, N-N-N-N-N, PE-PE-PE-PE-PE - JB for Emergency Lighting have terminals bridge: L-L-L, N-N-N, PW-PW-PW, PE-PE-PE-PE-PE

ITEM	DESCRIPTION	Pcs Q.TY	NOTE/MAT.	CODE	MANUFACTURER
11	DUSTPROOF PVC PLUG Ø25	2	–	.	TECHNOR ITALSMEA
10	DUSTPROOF PVC PLUG Ø20	1	–	.	TECHNOR ITALSMEA
9	LAMINATED PLASTIC TAG 120X20	1	–	.	TECHNOR ITALSMEA
8	AISI316L CERTIFICATE PLATE 80X60	1	–	.	TECHNOR ITALSMEA
7	BEIGE TERMINAL BLOCK SIZE 6 SQMM EARTH TERMINAL BLOCK SIZE 6 SQMM	10 5	WDU–6 WPE–6	.	WEIDMULLER
6	AISI316L INT/EXT EARTH BOLT M10	1	BTP–10	.	TECHNOR ITALSMEA
5	BRASS CONTINUITY PLATE THK. 0.8 MM	1	–	.	TECHNOR ITALSMEA
4	NICKEL PLATED BRASS PLUG M20	1	T20	.	TECHNOR ITALSMEA
3	NICKEL PLATED BRASS PLUG M25	1	T25	.	TECHNOR ITALSMEA
2	INTERNAL MOUNTING PLATE	1	PS–2526	.	TECHNOR ITALSMEA
1	GRP ENCLOSURE	1	AQ–252612P	.	TECHNOR ITALSMEA

-UNPAINTED (BLACK NATURAL)
Q.TY 92, ITEM 20: 2JBXXGPEE, ELEJB02

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
05	20/12/24	FB	OB	OB	ACCEPTED FOR CONSTRUCTION (AFC)
04	26/11/24	FB	OB	OB	ACCEPTED FOR CONSTRUCTION (AFC)
03	25/10/24	FB	OB	OB	ACCEPTED FOR CONSTRUCTION (AFC)
02	12/09/24	FB	OB	OB	ACCEPTED FOR CONSTRUCTION (AFC)
01	03/09/24	FB	OB	OB	ACCEPTED FOR CONSTRUCTION (AFC)
00	30/07/24	FB	OB	OB	ISSUE FOR REVIEW (IFR)

Explosion Proof
Electrical Equipment
Materiali Elettrici Antideflagranti
TECHNOR ITALSMEA
A COMPANY OF MARECHAL ELECTRIC

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)

Junction Box for Normal & Emergency Lighting

CONTRACT NO./TITLE CW–I–WP4–2023–05/HOLLANDSE KUST NOORD WIND PARK

SCALE : NTS

A3

DRAWING NO. 1724001481–EL–DA–00003

SHEET 004

REV. 05

F.to UNI A3: 420mmx297mm

File Name : 1724001481–EL–DA–00003 Rev. 01

ENCLOSURE N°	TAG LIST	NORMAL LIGHTING	EMERGENCY LIGHTING
1	EJB-200N1-03-L2-04	X	
2	EJB-200N1-03-L2-03	X	
3	EJB-200N1-03-L2-01	X	
4	EJB-200N1-03-L2-02	X	
5	EJB-200N1-03-L2-12	X	
6	EJB-200N1-03-L2-11	X	
7	EJB-200N1-03-L2-10	X	
8	EJB-200N1-03-L2-09	X	
9	EJB-200N1-03-L2-08	X	
10	EJB-200N1-03-L2-07	X	
11	EJB-200N1-03-L2-06	X	
12	EJB-200N1-03-L2-05	X	
13	EJB-200N1-03-L2-14	X	
14	EJB-200N1-03-L2-13		X
15	EJB-200N1-09-L2-17		X
16	EJB-200N1-09-L2-01		X
17	EJB-200N1-09-L2-04		X
18	SPARE (TO BE PROVIDED BLANK)		X
19	EJB-200N1-09-L2-02		X
20	EJB-200N1-09-L2-15		X
21	EJB-200N1-09-L2-14		X
22	EJB-200N1-09-L2-13		X
23	EJB-200N1-09-L2-12		X
24	EJB-200N1-09-L2-11		X
25	EJB-200N1-09-L2-10		X
26	EJB-200N1-09-L2-09		X
27	EJB-200N1-09-L2-08		X
28	EJB-200N1-09-L2-07		X
29	EJB-200N1-09-L2-06		X
30	EJB-200N1-09-L2-05		X
31	EJB-200N1-09-L2-16	X	
32	EJB-200N1-04-L3-01	X	
33	EJB-200N1-04-L3-02	X	
34	EJB-200N1-10-L3-05		X
35	EJB-200N1-10-L3-06		X
36	EJB-200N1-10-L3-07		X
37	EJB-200N1-10-L3-08		X
38	EJB-200N1-10-L3-09		X
39	EJB-200N1-10-L3-02		X
40	EJB-200N1-10-L3-01		X
41	EJB-200N1-10-L3-03		X
42	EJB-200N1-10-L3-04		X
43	EJB-200N1-02-L1-03	X	
44	EJB-200N1-02-L1-02	X	
45	EJB-200N1-02-L1-01	X	
46	SPARE (TO BE PROVIDED BLANK)	X	
47	EJB-200N1-02-L1-10	X	
48	EJB-200N1-02-L1-19	X	
49	EJB-200N1-02-L1-18	X	

ENCLOSURE N°	TAG LIST	NORMAL LIGHTING	EMERGENCY LIGHTING
50	EJB-200N1-02-L1-17	X	
51	EJB-200N1-02-L1-16	X	
52	EJB-200N1-02-L1-15	X	
53	EJB-200N1-02-L1-14	X	
54	EJB-200N1-02-L1-13	X	
55	EJB-200N1-02-L1-12	X	
56	EJB-200N1-02-L1-11	X	
57	EJB-200N1-02-L1-06	X	
58	EJB-200N1-02-L1-05	X	
59	EJB-200N1-02-L1-07	X	
60	EJB-200N1-02-L1-08	X	
61	EJB-200N1-02-L1-09	X	
62	EJB-200N1-08-L1-03		X
63	SPARE (TO BE PROVIDED BLANK)		X
64	EJB-200N1-08-L1-01		X
65	EJB-200N1-08-L1-04		X
66	EJB-200N1-08-L1-19		X
67	EJB-200N1-08-L1-18		X
68	EJB-200N1-08-L1-17		X
69	EJB-200N1-08-L1-16		X
70	EJB-200N1-08-L1-15		X
71	EJB-200N1-08-L1-14		X
72	EJB-200N1-02-L1-20	X	
73	EJB-200N1-08-L1-12		X
74	EJB-200N1-08-L1-11		X
75	EJB-200N1-08-L1-10		X
76	EJB-200N1-08-L1-20		X
77	EJB-200N1-08-L1-05		X
78	EJB-200N1-08-L1-06		X
79	EJB-200N1-08-L1-07		X
80	EJB-200N1-08-L1-09		X
81	EJB-200N1-08-L1-08		X
82	EJB-200F2-01	X	
83	EJB-200F2-02	X	
84	SPARE (TO BE PROVIDED BLANK)	X	
85	SPARE (TO BE PROVIDED BLANK)	X	
86	SPARE (TO BE PROVIDED BLANK)	X	
87	SPARE (TO BE PROVIDED BLANK)	X	
88	SPARE (TO BE PROVIDED BLANK)	X	
89	SPARE (TO BE PROVIDED BLANK)		X
90	SPARE (TO BE PROVIDED BLANK)		X
91	SPARE (TO BE PROVIDED BLANK)		X
92	SPARE (TO BE PROVIDED BLANK)		X

Q.TY 92, ITEM 20: 2JBXXGPEE, ELEJB02

Explosion Proof
Electrical Equipment
Materiali Elettrici Antideflagranti

TECHNOR ITALSMEA
A COMPANY OF MARECHAL ELECTRIC

CROSSWIND

ROSETTI MARINO

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
05	20/12/24	FB	OB	OB	ACCEPTED FOR CONSTRUCTION (AFC)
04	26/11/24	FB	OB	OB	ACCEPTED FOR CONSTRUCTION (AFC)
03	25/10/24	FB	OB	OB	ACCEPTED FOR CONSTRUCTION (AFC)
02	12/09/24	FB	OB	OB	ACCEPTED FOR CONSTRUCTION (AFC)
01	03/09/24	FB	OB	OB	ACCEPTED FOR CONSTRUCTION (AFC)
00	30/07/24	FB	OB	OB	ISSUE FOR REVIEW (IFR)

TITLE : BASE LOAD POWER HUB (BLPH)

Junction Box for Normal & Emergency Lighting–Tag List

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE : NTS

A3

DRAWING NO. 1724001481-EL-DA-00003

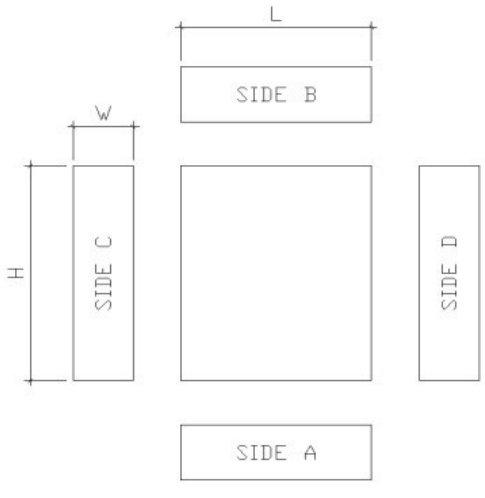
SHEET 005

REV. 05

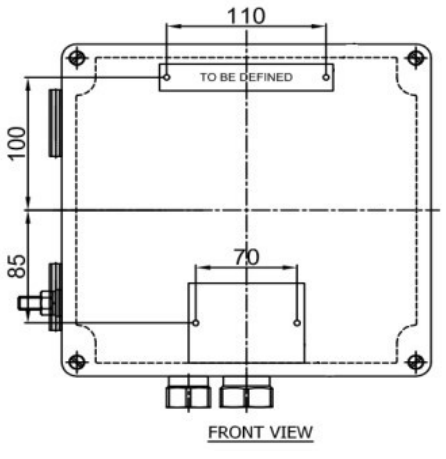
F.to UNI A3: 420mmx297mm

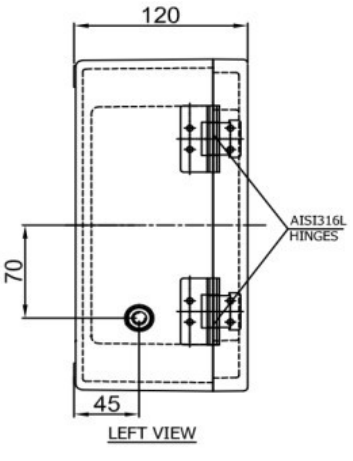
File Name : 1724001481-EL-DA-00003 Rev. 01

Row	Data Sheet for Control Stations, Junction Boxes and Sockets				Rev.
1	Junction Box for Normal & Emergency Lighting				
2	Item	Required	Manufacturer Proposal	Comments	
3	Model Number	by Vendor	AQ-252612P		01
4	Serial Number	by Vendor	B011041010004		01
5	Quantity	40+4(Spare)		(39+5 Spare)	01
6	Application	Lighting pole JB/Lighting JB			00
7	**Installation area**				
8	Indoor/Outdoor	Outdoor			00
9	Safe Area/Hazardous Area	Safe area			00
10	Zone 1/Zone 2	NA			00
11	Temp. Class	NA	Ex eb IIC, T6 Gb		01
12	**Electrical input data**				
13	Voltage	230 V ac	230 V ac		00
14	Number of Phases	1ph + N + PE			00
15	**Material**				
16	Body	GRP	GRP		01
17	Execution	Normal	Ex eb	Will be used ATEX even in safe area	01
18	Protection Degree	IP56	IP 66		01
19	**Accessories**				
20	Hinged Cover	Required	AISI316L Hinges		01
21	Gasket	Required			00
22	Removable Gland Plates	Required	Brass Continuity plate 0.8mm thick		01
23	Internal Mounting Plate	Thickness 3mm threaded		connected to Internal ground bar	00
24	Internal Ground Bar	Required		connected to earth stud	00
25	Earth Stud	Required			00
26	Drainage Valve	Required			00
27	Pad lockable Cover	Required			00
28	Identification Label	Trafolite/ Stainless Steel	Laminated Plastic	for all label	01
29	**Side 'A'**				
30	Hubs Qty.	5	5		01
31	Size	No.3 M25, No.2 M20	No.3 Ø 25.2 mm, No.2 Ø 20.2 mm		01
32	Thread	ISO-M			00
33	Plug	No. 1 M20, No.1 M25	No. 1 Ø 20.2 mm, No.1 Ø 25.2 mm	nickel-plated brass	01
34	**Side 'B'**				
35	Hubs Qty.	Not Required			00
36	Size	NA			00
37	Thread	NA			00
38	**Side 'C'**				
39	Hubs Qty.	Not Required			00
40	Size	NA			00
41	Thread	NA			00
42	**Side 'D'**				
43	Hubs Qty.	Not Required			00
44	Size	NA			
45	Thread	NA			
46	**Terminals**				
47	Size [mm^2]	Suitable for 6 Sq.mm & 2.5 Sq.mm Cable	M25 & M20	suitable with wire-end ferrules DIN 46228	01
48	Qty.	n°5 for Ph // n°5 for N // n°5 for PE	n°5 for Ph // n°5 for N // n°5 for PE	jumpered	01
49	**Bonding Cable (yellow/Green)**				
50	Size [mm^2]	by vendor		6 mm^2	01
51	Qty.	Min. 0.15m			00
52	**Dimension**				
53	Height 'H' [mm]	by vendor	120 mm		01
54	Width 'W' [mm]	by vendor	250 mm		01
55	Length 'L' [mm]	by vendor	255 mm		01
56	Weight [Kg]	by vendor	2.65 Kg		01
57	JB Code (*)	Remarks			
58					



NOTES:
(*) Filled by Vendor





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Its distribution is electronically controlled. Once printed shall be considered as "NOT CONTROLLED" copy

ITEM	Tag	ELF-200N1-02-L1-02	: NORMAL LIGHT			Dwg	123A90-DDL-EL-DL-20118
	S/Sys	83-40	: Normal Lighting Upper Deck			Module	UD
TASK	code	C10001338		Location	Onshore Activities	User	Rosetti Marino Quality Control
FORM	Process	MC	Activity CCK	Discipline	Electrical	Form	CPX00 Miscellaneous Electrical Equipment

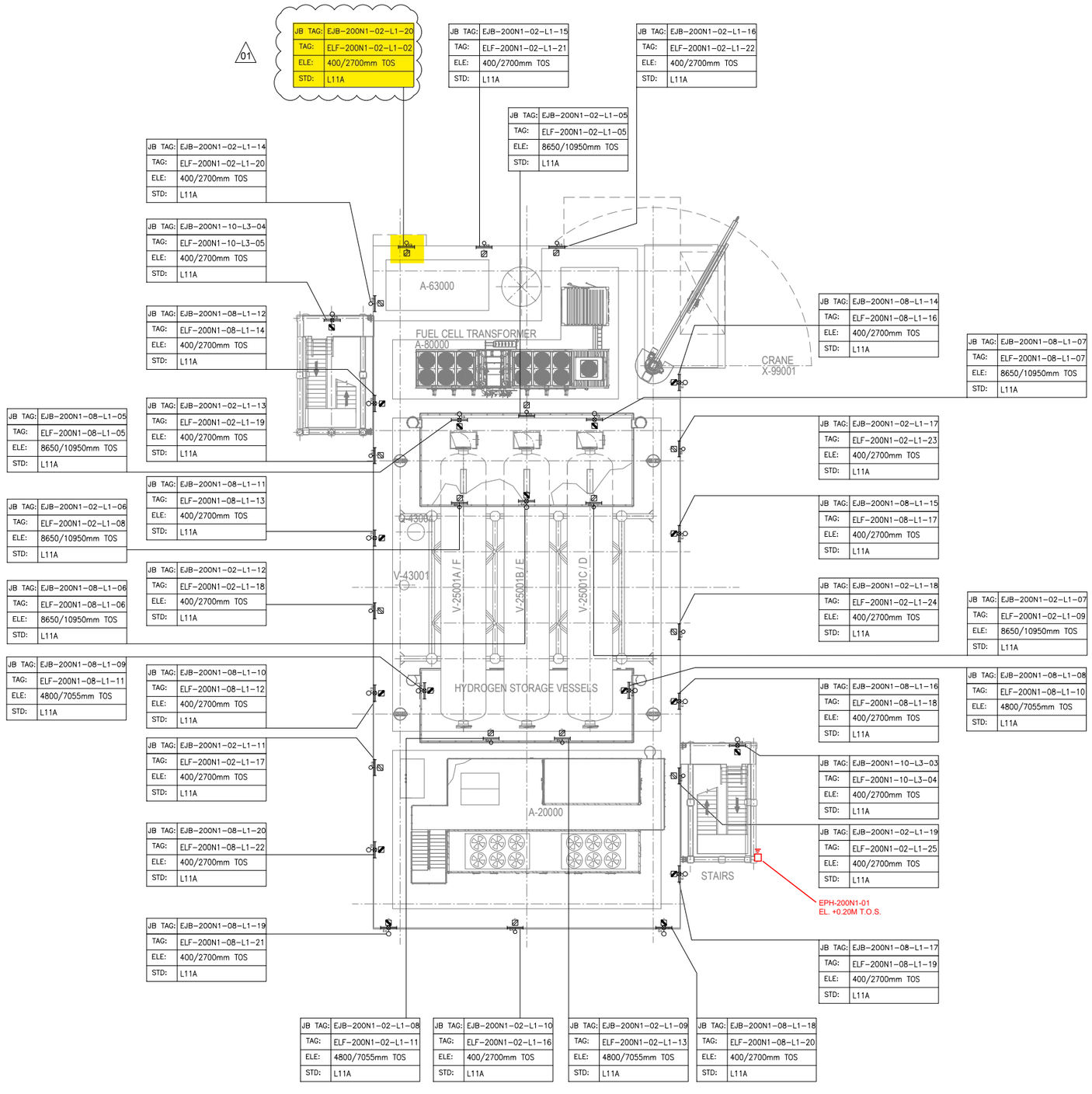
1	Check circuit is de-energized and safe.	OK
2	Check equipment is installed in accordance with layout drawing.	PL
3	Check equipment is undamaged and correcly tagged.	PL
4	Check nameplate data is correct.	NA
5	Check all bolts are fitted and all unused entries are suitably plugged.	PL
6	Check terminals for proper size and installation crimps	OK
7	Check earthing and bonding against drawings.	OK
8	Check items are properly fixed on support.	PL
9	If required produce Red Line Mark Up for "AS BUILT"	

Comments:

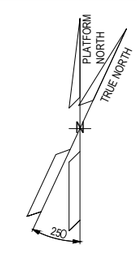
	Performed by	☉ WITNESS ☐ REVIEW	☐ WITNESS ☐ REVIEW
Company	ICS IMPIANTI	RM(ROSETTI MARINO)	
Name	Francesco Zucca	Andrea Andreani	
Date	2024-12-04	2024-12-06	
Signature	PROVERLIS Digitaly signed by Francesco Zucca 2024-12-04T16:16:11.945Z	PROVERLIS Digitaly signed by Andrea Andreani 2024-12-06T17:37:40.404Z	

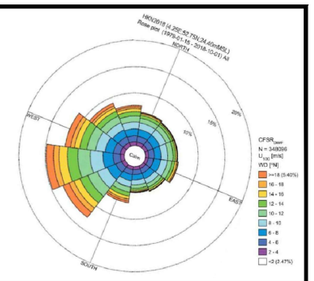
DRAWING NO. 123A90-DDL-EL-DL-20118

REV. 01



PLAN ON UPPER DECK
EL+30.310 T.O.S.





NOTES

1. ALL DIMENSIONS AND ELEVATIONS ARE GIVEN IN mm UNLESS OTHERWISE NOTED.
2. ELEVATIONS REFER TO T.O.S.
3. ELEVATION OF THE LAMPS ARE REFFERED TO THE BOTTOM OF THE LAMP.
4. FOR THE ELEVATION OF JB, REFER TO THE TYPICAL INSTALLATION.

LEGEND

- EMERGENCY LIGHTING JB
- 60W LED EMERGENCY LUMINARIES
- 60W LED EMERGENCY LUMINARIES FIXTURE POLE MOUNTED
- NORMAL LIGHTING JB
- 45W LED NORMAL LUMINARIES
- 45W LED NORMAL LUMINARIES FIXTURE POLE MOUNTED
- WELDING SOCKET WITH INTEGRATED JB
- SMALL POWER SOCKET WITH INTEGRATED JB
- TWILIGHT RELAY SENSOR

JB TAG:	JB-TAG
TAG:	TAG
ELE:	ELEVATION
STD:	STANDARD

VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DL-20118**

REV.:	DATE:	SIGNATURE:
1_B	22/10/24	G.Randi

ROSETTI MARINO SpA

REFERENCE DOCUMENTS

123A90-DDL-PP-DL-70070	PLOT PLAN - LOWER & UPPER DECK
123A90-DDL-EL-DL-20100	ELECTRICAL EQUIPMENT LAYOUT - TOP DECK
123A90-DDL-EL-DD-20091	ELECTRICAL TYPICAL INSTALLATION DETAILS - LIGHTING SYSTEM
123A90-DDL-EL-DD-20092	ELECTRICAL TYPICAL INSTALLATION DETAILS - POWER SYSTEM & CABLE INSTALLATION
123A90-DDL-EL-RE-20153	LIGHTING CALCULATION STUDY REPORT

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	02/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	28/05/24	ASR	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND | ROSETTI MARINO

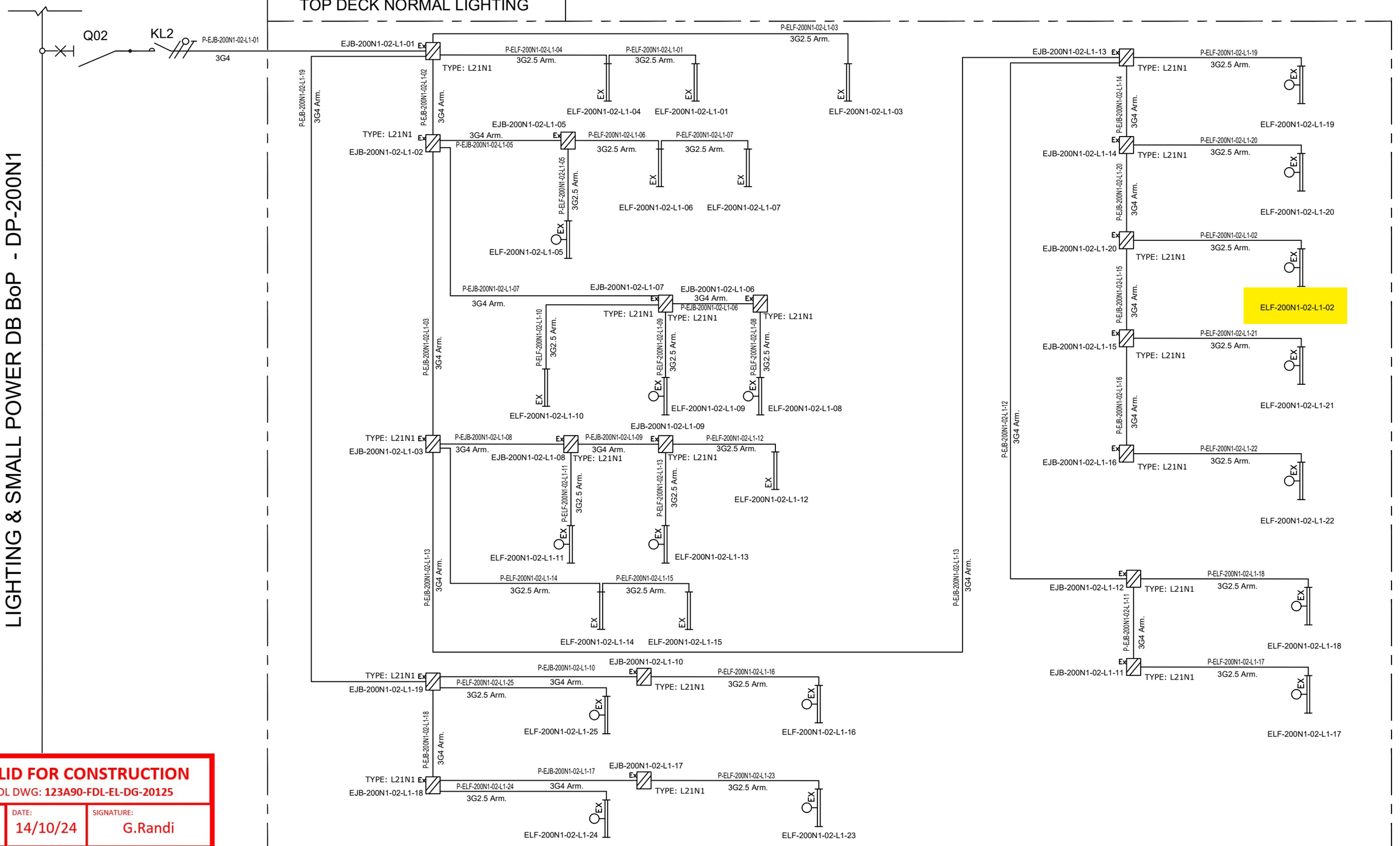
TITLE :
BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET LAYOUT – TOP DECK

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK			SCALE 1:150
DRAWN ASR	CHECKED FMA/AMA	APPROVED FPA/DLO	DATE 01/08/24
A1	DRAWING NO. 123A90-DDL-EL-DL-20118	SHEET 1of2	REV. 01

File Name : 123A90-DDL-EL-DL-20118

LIGHTING & SMALL POWER DB BoP - DP-200N1

TOP DECK NORMAL LIGHTING



VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DG-20125**

REV.:	DATE:	SIGNATURE:
1_B	14/10/24	G.Randi

ROSETTI MARINO SpA

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	08/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	01/07/24	ASR	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

TITLE : BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET CIRCUIT DIAGRAM
TOP DECK–NORMAL LIGHTING

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE : NTS

A3

DRAWING NO. 123A90-DDL-EL-DG-20125

SHEET 010

REV. 01

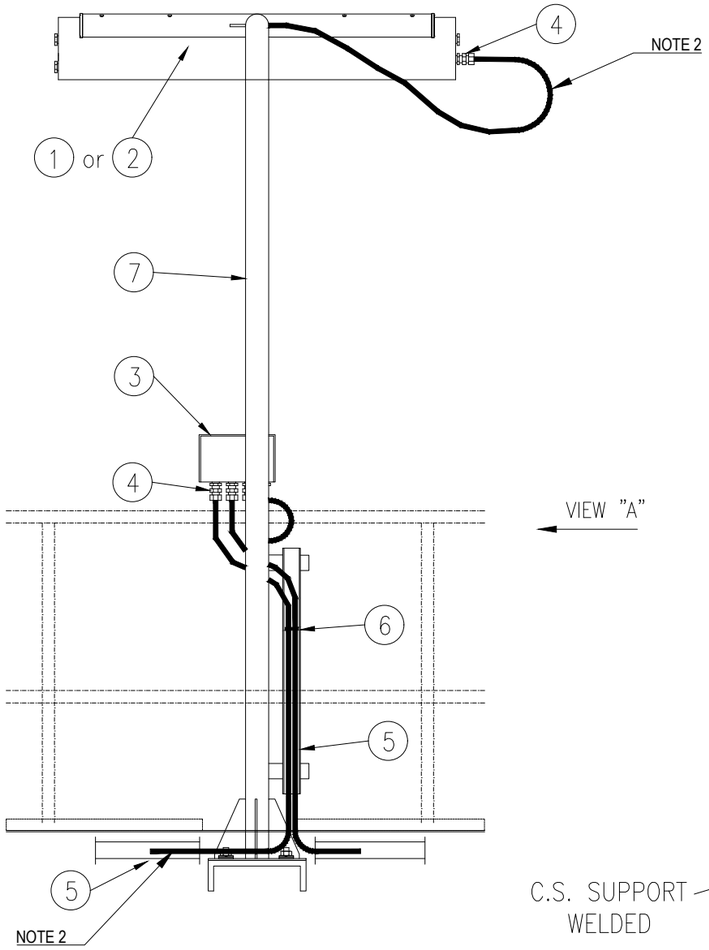
CROSSWIND

ROSETTI MARINO

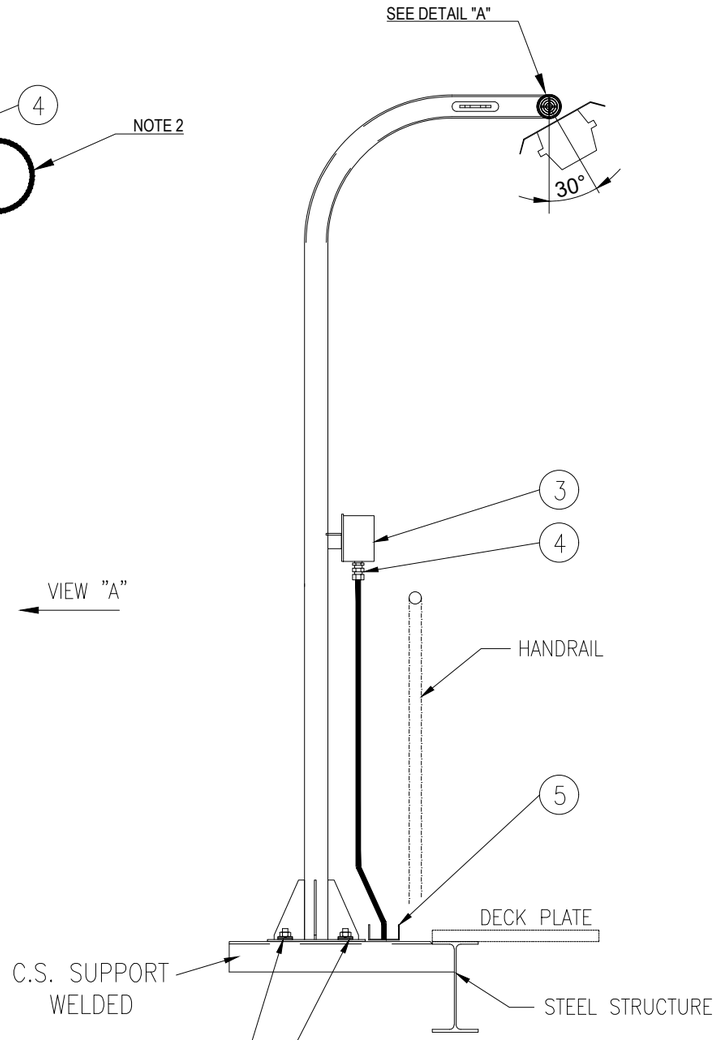
F.to UNI A3: 420mmx297mm

File Name : 123A90-DDL-EL-DG-20125

L11A

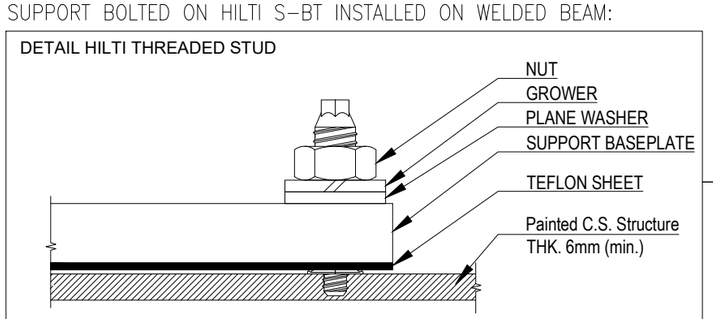


VIEW "A"

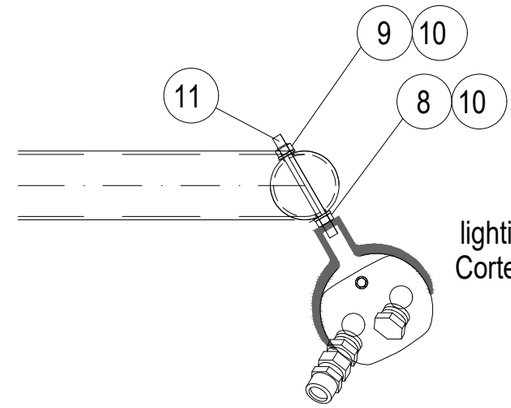


VIEW "A"

SUPPORT BOLTED ON HILTI S-BT INSTALLED ON WELDED BEAM:



POS.	DESCRIPTION	MATERIAL	SIZE	Q.TY	NOTE
1	42W LED LUMINARIES	ALUMINIUM ALLOY		1	
2	45W LED LUMINARIES C/W BATTERY	ALUMINIUM ALLOY		1	
3	JUNCTION BOX (Ex)	GRP		1	NOTE 1
4	CABLE GLAND C/W EARTH TAG, WASHERS, LOCKNUT AND WEATHERPROOF WASHERS	BRASS NICKEL PLATED		AS REQ.	
5	CABLE TRAY	AISI 316L			
6	STAINLESS STEEL NYLON COATED CABLE TIE	SS NYLON COATED			
7	POLE SUPPORT FOR LAMP	AISI 316L	2"		
8	NUT	AISI 316L	M8		
9	SELF.LOCKING NUT	AISI 316L	M8		
10	LARGE PLANE WASHER (24mm DIAM.)	AISI 316L	M8		
11	THREADED ROD M8x100	AISI 316L	M8		



DETAIL "A"

NOTES:

1) FOR LAMPS IN HAZARDOUS AREA, USE ARMOURED CABLE, DOUBLE SEAL CABLE GLAND AND EX JUNCTION BOX.

2) ALWAYS ENSURE CABLE LENGTH IS >3m

VALID FOR CONSTRUCTION
FDL DWG: 123A90-FDL-EL-DD-20091
REV.: 2_A | DATE: 30/09/24 | SIGNATURE: G.Randi
ROSETTI MARINO SpA

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	30/09/24	GRA	AMA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	04/07/24	NLK	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	21/11/23	SPS	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

02

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL TYPICAL INSTALLATION DETAILS-LIGHTING SYSTEM
LIGHTING FIXTURE MOUNTED ON POLE

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK | SCALE : NTS

A3 | DRAWING NO. 123A90-DDL-EL-DD-20091 | SHEET 014 | REV. 02

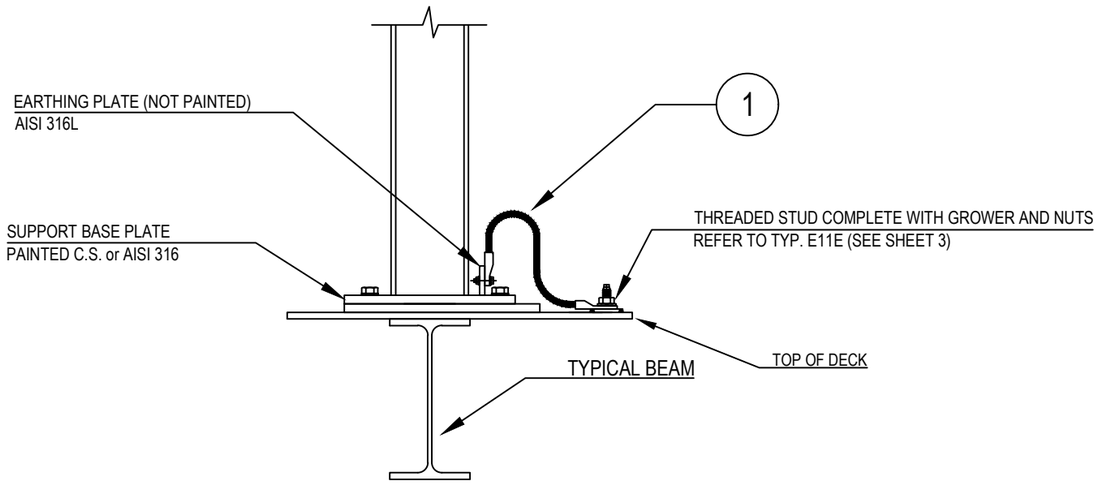
F.to UNI A3: 420mmx297mm

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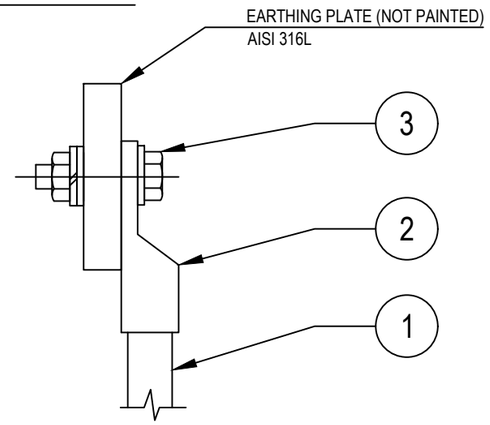
E24

POS.	DESCRIPTION	MATERIAL	SIZE	Q.TY	NOTE
1	As. R. Y/G INSULATING COPPER CONDUCTOR	COPPER	$35mm^2$		
2	COMPRESSION TYPE LUG FOR INSULATION COPPER CONDUCTOR	TINNED COPPER	$35mm^2$	2	~~NOTE 1~~
3	HEXAG. BOLT M10X30 COMPLETE WITH PLANE WASHERS, SPRING WASHER AND NUT	AISI 316L	M10X30	2	

GENERIC SUPPORT BOLTED ON STRUCTURE



DETAIL "X"



NOTES:
1) ~~CABLE LUG CRIMPING METHOD SHALL BE HEXAGONAL COMPRESSION DIES ONLY.~~
2) EXTERNAL EARTHING CONNECTION ONLY SHALL BE PROTECTED AGAINST CORROSION USING OXIDE RESISTANT COMPOUND (E.G. COPPER GREASE)

VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DD-20090**

REV.:	DATE:	SIGNATURE:
2_H	05/11/24	G.Randi

ROSETTI MARINO SpA

CROSSWIND

ROSETTI MARINO

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	26/08/24	GRA	AMA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	10/06/24	SPS	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	21/11/23	SPS	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL TYPICAL INSTALLATION DETAILS–EARTHING SYSTEM
EARTHING FOR POLE/SUPPORT OF GENERIC EQUIPMENTS

CONTRACT NO./TITLE CW–I–WP4–2023–05/HOLLANDSE KUST NOORD WIND PARK | SCALE : NTS

A3	DRAWING NO.	SHEET	REV.
	123A90–DDL–EL–DD–20090	012	02

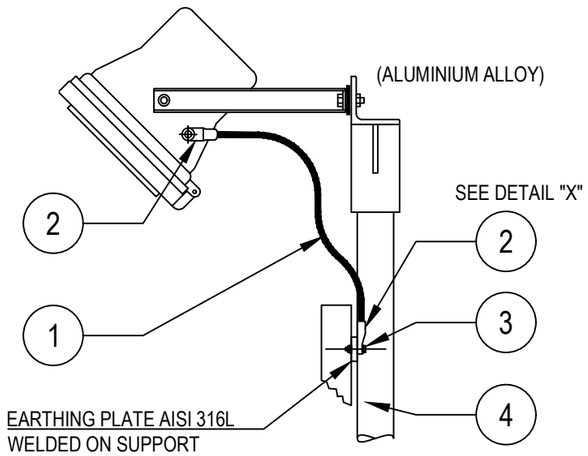
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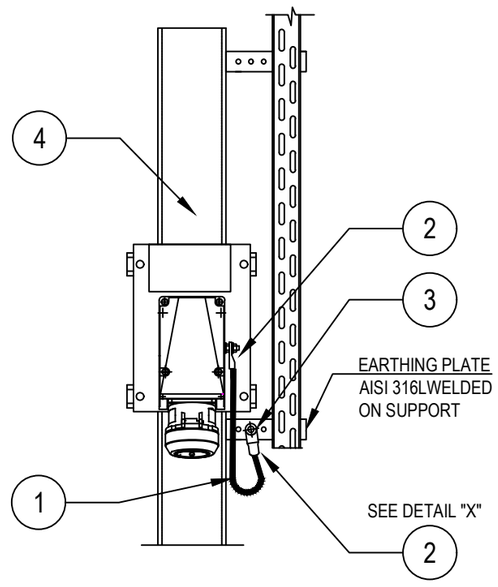
E05

POS.	DESCRIPTION	MATERIAL	SIZE	Q.TY	NOTE
1	Y/G INSULATING COPPER CONDUCTOR	COPPER	$6mm^2$		
2	COMPRESSION TYPE LUG FOR INSULATION COPPER CONDUCTOR	TINNED COPPER	$6mm^2$	2	
3	HEXAG. BOLTS, PLANE WASHERS, SPRING WASHER AND NUT	AISI 316L	M8X30	1	

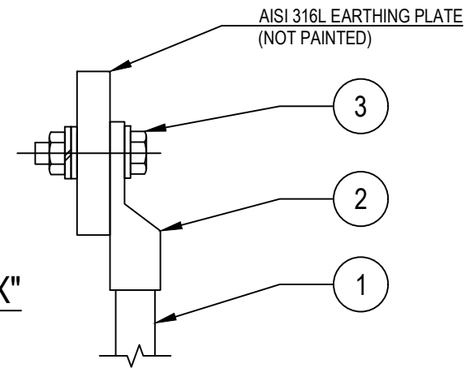
LIGHTING FIXTURE/GENERAL ITEM ON POLE



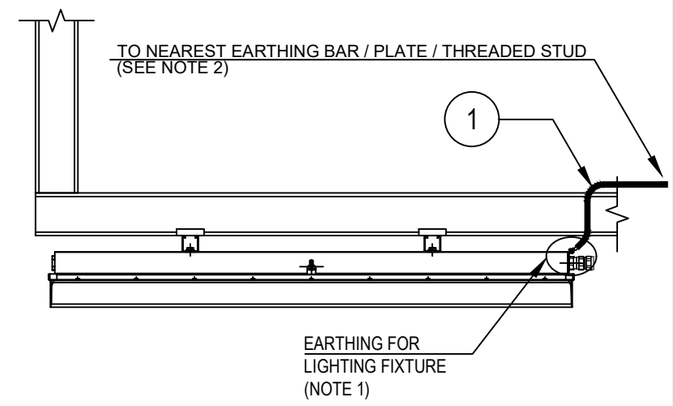
POWER SOCKET OUTLET



DETAIL "X"



LIGHTING FIXTURES



Refer also to TYP. "E32" (SEE SHEET 23)

TYPICAL VALID ALSO FOR NAVAID LIGHTS

NOTES:

1) ALL LIGHTING FIXTURES AND RELEVANT ARMOUR OF THE CABLE, ARE CONNECTED TO EARTH CONNECTION THROUGH THE EARTHING TAG OF THE CABLE GLAND

2) FOR EARTHING POINT USE ONE OF THE FOLLOWING METHODS:
TYP. E03A-D sh. 004 (EARTHING BAR ON STRUCT. UNISTRUT AND CABLE TRAY)
TYP. E11C sh. 003 (EARTHING PLATE)
TYP. E11D sh. 003 (THREADED STUD ON EXTERNAL STRUCTURE)

VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DD-20090**

REV.:	DATE:	SIGNATURE:
2_H	05/11/24	G.Randi

ROSETTI MARINO SpA

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	26/08/24	GRA	AMA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	10/06/24	SPS	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	21/11/23	SPS	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL TYPICAL INSTALLATION DETAILS–EARTHING SYSTEM
EARTHING FOR ELECTRICAL EQUIPMENTS

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK | SCALE : NTS

A3 | DRAWING NO. 123A90-DDL-EL-DD-20090 | SHEET 006 | REV. 02

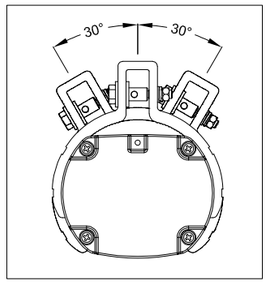
F.to UNI A3: 420mmx297mm

File Name : 123A90-DDL-EL-DD-20090 REV.02.DWG

MODEL C-225 REV.1

GENERAL NOTE:
- PO: 1724001290 DD 26/06/2024
- ITEM.: 1
- Q.TY: 57
- EXTERNAL PAINTING: RAL 7022 (END CAPS)
- INTERNAL PAINTING: NOT PAINTED
- ALL DIMENSIONS ARE IN mm

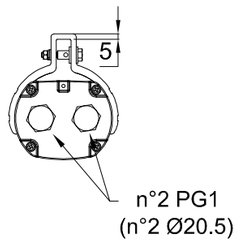
STANDARD FIXING BRACKET
FASTENING WITH 2 THREADED M8
HOLES, ADJUSTABLE FROM 0° TO ±30°



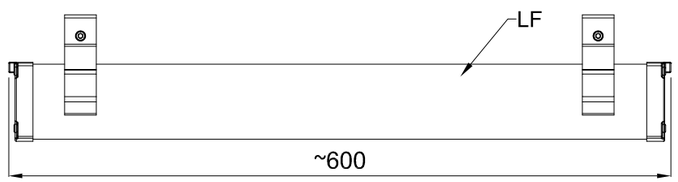
LF INFORMATION	
NOMINAL POWER	45W
CONSUMED POWER	43,5W
POWER FACTOR	>0,93
RATED CURRENT	200 mA
VIEWING ANGLE	120°
COLOUR TEMP.	5000 K
CRI	>80
INSTANT RESTRIKE	YES
LUMEN	6200 lm
LIGHT INTENSITY	2248 cd
EFFICIENCY	143 lm/W
WEIGHT	2,5 Kg
IP PROTECTION	IP66

N°	Q.TY	CODE	DESCRIPTION
LF	1	LIFEX-ME-0645-BB	110-277Vac 50-60Hz 45W LED LINEAR LIGHTING FIXTURE BODY: ALUMINUM ALLOY EXTRUSION AND ALUMINUM END CAPS TRANSPARENT PART: GLASS RESISTANT TO SHOCKS, UV RAYS AND IMPACT RESISTANCE IK09 GASKETS: ACID AND HYDROCARBON RESISTANT SILICONE ASSEMBLY: FASTENING BRACKETS FOR M8 HOLES, ADJUSTABLE 0° TO ±30° MADE IN ANODIZED ALUMINUM CONNECTION: TERMINAL BLOCK ON SIDE (IN) L, N, PE CROSS SEC. MAX. 4mmq SUITABLE FOR LOOP-IN LOOP-OUT SCREWS, BOLTS AND NUTS: STAINLESS STEEL 304
PG1	4	PLG1IB +DL1IB +RDI1IS/A4	IP66 Ex db IIC Gb - Ex eb IIC Gb NICKEL PLATED BRASS PLUG ISO M20x1,5 WITH RELEVANT LOCKNUT AND SERRATED WASHER MADE IN STAINLESS STEEL

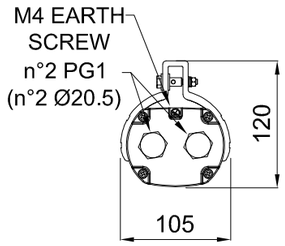
LEFT SIDE (OUT)



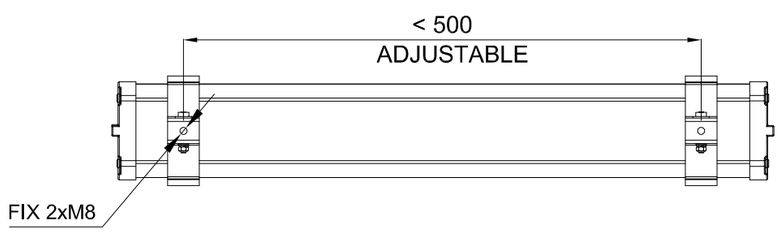
FRONT SIDE



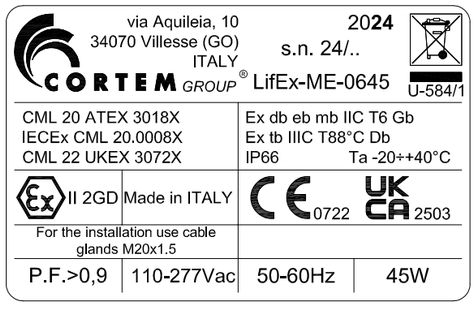
RIGHT SIDE (IN)



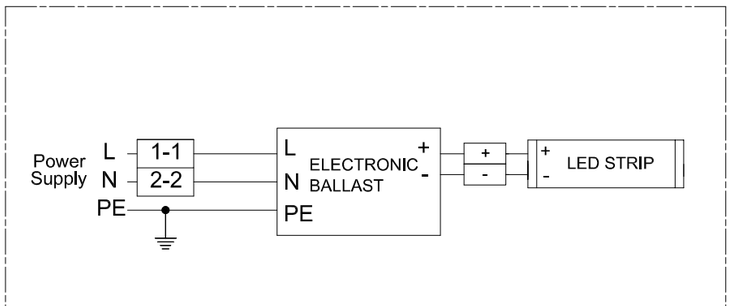
TOP SIDE



CERTIFICATE NAMEPLATE



WIRING DIAGRAM



REV.	DATE	PREP'D	CHK'D	APP'D	DESCRIPTION
2	09/07/2024	FRATTARUOLO	GIUSTI	GRATTON	REISSUED FOR APPROVAL
1	05/07/2024	FRATTARUOLO	GIUSTI	GRATTON	REISSUED FOR APPROVAL
0	28/06/2024	FRATTARUOLO	GIUSTI	GRATTON	ISSUED FOR APPROVAL

DRAWING TITLE: ROSETTI MARINO S.P.A.

CORTEM S.p.a.
GENERAL LAYOUT
001 LIFEX-ME-0645-BB/C2402693/10.

CORTEM JOB: COV2402693
DRAWING SCALE: /
DRAWING NUMBER: A3-C 27521
SHEET: 1
NEXT: 2
TOT.: 2

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AND IT CANNOT BE REPRODUCED WITHOUT CORTEM'S
AUTHORIZATION

Smart Professional R. 2012

Row	Data Sheet for Lighting Fixtures & Accessories				Rev.
1	42W LED Linear Luminaire-Normal Lighting-Safe Area				
2	Item	Required	Manufacturer Proposal	Comments	
3	Model Number	by vendor	LIFEX-ME-0645-BB		01
4	Serial Number	by vendor			00
5	Quantity	29 Nos.		(20+9 Spare)	01
6	Location / Module	Lower deck			01
7	**LED Lamp**				
8	Nominal power	42 watts	45 watts		01
9	No. of linear	1	1		01
10	Luminous flux	5810 lm	6200 lm		01
11	Colour Temperature	5000 K	5000 K		01
12	**Protection**				
13	Hazardous Area Certification (Ex)	Safe area	Ex II 2GD Ex db eb mb IIC Gb Ex tb IIIC Db		01
14	Degree of Protection (IP)	IP 56	IP 66		01
15	ATEX certified	Not required	ATEX CML 20 ATEX 3018X	Will be used ATEX even in safe area	01
16	**Material**				
17	Body	GRP/Aluminium alloy	Aluminium alloy		01
18	Reflector	GRP/Aluminium	Aluminium		01
19	Diffuser	Polycarbonate/temperate glass	Tempered glass		01
20	**Cable Entry**				
21	No. of cable entry	4 Nos.	4 Entries, 2 per side		01
22	Size	M20	Ø20.5mm		01
23	**Emergency Battery Pack**				
24	Requirement	Not required			00
25	Battery type	Not required			00
26	Autonomy	Not required			00
27	Emergency luminous flux	Not required			00
28	**Mechanical parameters**				
29	Dimension	by vendor	600x105x120(mm)		01
30	Weight	by vendor	2.5kg		01

Note:

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Its distribution is electronically controlled. Once printed shall be considered as "NOT CONTROLLED" copy

ITEM	Tag	ELF-200N1-02-L1-20	: NORMAL LIGHT			Dwg	123A90-DDL-EL-DL-20118
	S/Sys	83-40	: Normal Lighting Upper Deck			Module	UD
TASK	code	C10001354		Location	Onshore Activities	User	Rosetti Marino Quality Control
FORM	Process	MC	Activity CCK	Discipline	Electrical	Form	CPX00 Miscellaneous Electrical Equipment

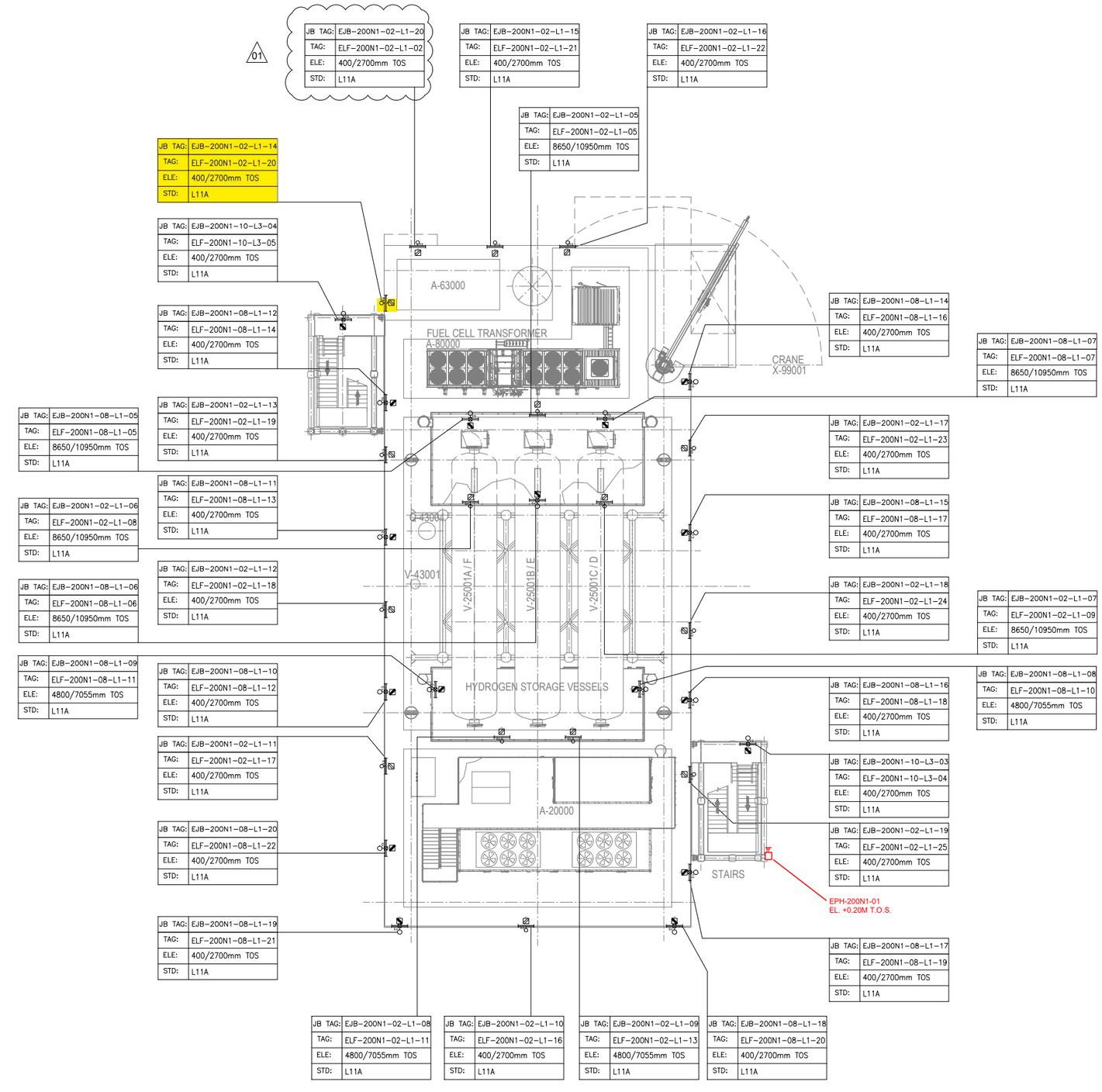
1	Check circuit is de-energized and safe.	OK
2	Check equipment is installed in accordance with layout drawing.	PL
3	Check equipment is undamaged and correcly tagged.	PL
4	Check nameplate data is correct.	NA
5	Check all bolts are fitted and all unused entries are suitably plugged.	OK
6	Check terminals for proper size and installation crimps	OK
7	Check earthing and bonding against drawings.	OK
8	Check items are properly fixed on support.	PL
9	If required produce Red Line Mark Up for "AS BUILT"	

Comments:

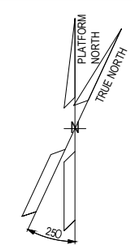
	Performed by	● WITNESS ☐ REVIEW	☐ WITNESS ☐ REVIEW
Company	ICS IMPIANTI	RM(ROSETTI MARINO)	
Name	Francesco Zucca	Luca Mussi	
Date	2024-12-04	2024-12-06	
Signature	PROVERLIS Digitaly signed by Francesco Zucca 2024-12-04T16:16:24.305Z	PROVERLIS Digitaly signed by Luca Mussi 2024-12-06T17:03:02.032Z	

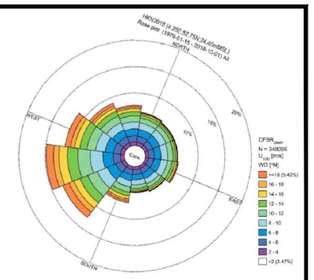
DRAWING NO. 123A90-DDL-EL-DL-20118

REV. 01



PLAN ON UPPER DECK
EL+30.310 T.O.S.





NOTES

1. ALL DIMENSIONS AND ELEVATIONS ARE GIVEN IN mm UNLESS OTHERWISE NOTED.
2. ELEVATIONS REFER TO T.O.S.
3. ELEVATION OF THE LAMPS ARE REFFERED TO THE BOTTOM OF THE LAMP.
4. FOR THE ELEVATION OF JB, REFER TO THE TYPICAL INSTALLATION.

LEGEND

- EMERGENCY LIGHTING JB
- 60W LED EMERGENCY LUMINARIES
- 60W LED EMERGENCY LUMINARIES FIXTURE POLE MOUNTED
- NORMAL LIGHTING JB
- 45W LED NORMAL LUMINARIES
- 45W LED NORMAL LUMINARIES FIXTURE POLE MOUNTED
- WELDING SOCKET WITH INTEGRATED JB
- SMALL POWER SOCKET WITH INTEGRATED JB
- TWILIGHT RELAY SENSOR

JB TAG:	JB-TAG
TAG:	TAG
ELE:	ELEVATION
STD:	STANDARD

VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DL-20118**

REV.:	DATE:	SIGNATURE:
1_B	22/10/24	G.Randi

ROSETTI MARINO SpA

REFERENCE DOCUMENTS

123A90-DDL-PP-DL-70070	PLOT PLAN - LOWER & UPPER DECK
123A90-DDL-EL-DL-20100	ELECTRICAL EQUIPMENT LAYOUT - TOP DECK
123A90-DDL-EL-DD-20091	ELECTRICAL TYPICAL INSTALLATION DETAILS - LIGHTING SYSTEM
123A90-DDL-EL-DD-20092	ELECTRICAL TYPICAL INSTALLATION DETAILS - POWER SYSTEM & CABLE INSTALLATION
123A90-DDL-EL-RE-20153	LIGHTING CALCULATION STUDY REPORT

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	02/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	28/05/24	ASR	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND | ROSETTI MARINO

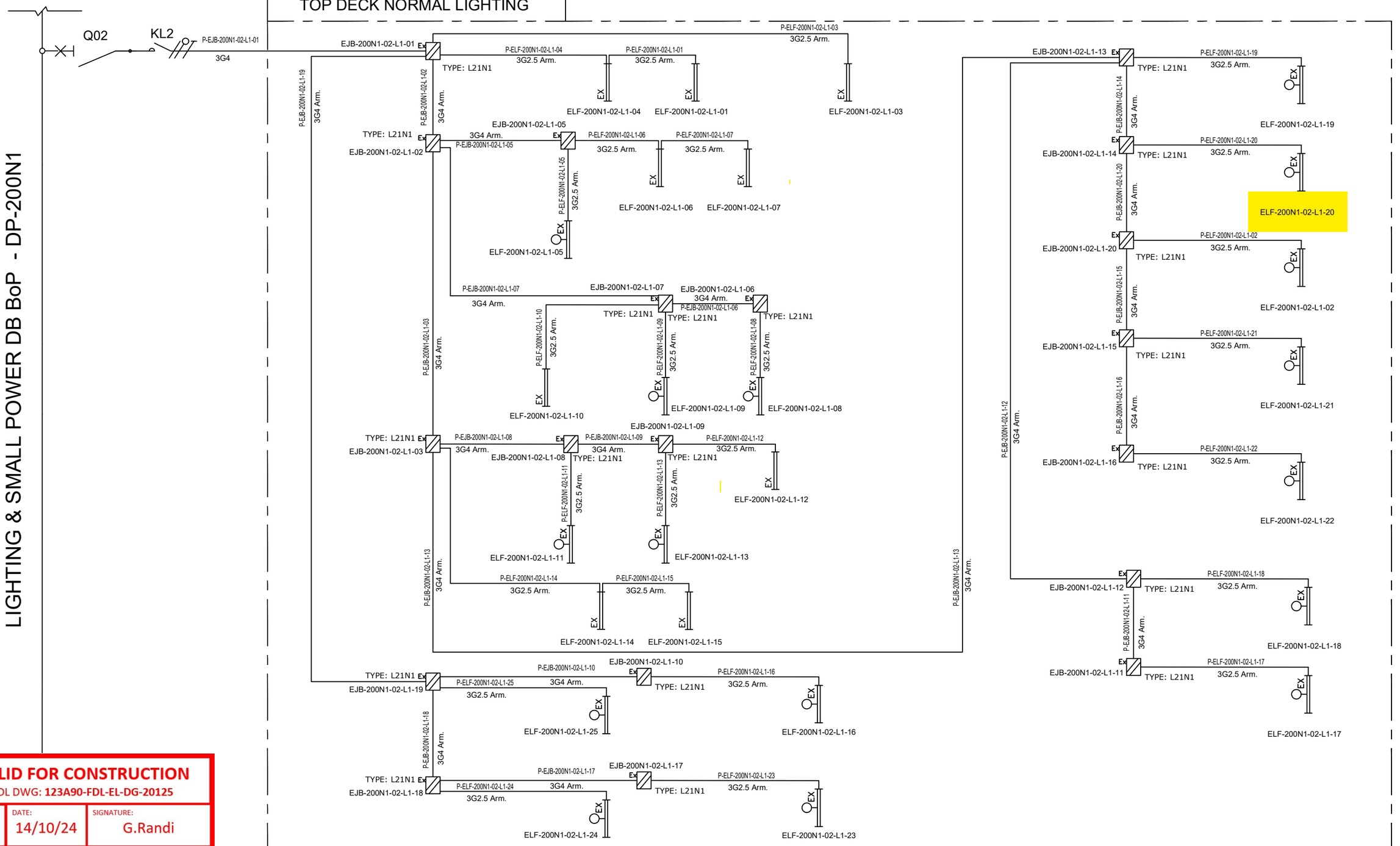
TITLE :
BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET LAYOUT – TOP DECK

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK			SCALE 1:150
DRAWN ASR	CHECKED FMA/AMA	APPROVED FPA/DLO	DATE 01/08/24
A1	DRAWING NO. 123A90-DDL-EL-DL-20118	SHEET 1of2	REV. 01

File Name : 123A90-DDL-EL-DL-20118

LIGHTING & SMALL POWER DB BoP - DP-200N1

TOP DECK NORMAL LIGHTING



VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DG-20125**

REV.:	DATE:	SIGNATURE:
1_B	14/10/24	G.Randi

ROSETTI MARINO SpA

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	08/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	01/07/24	ASR	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

TITLE : BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET CIRCUIT DIAGRAM
TOP DECK–NORMAL LIGHTING

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE : NTS

A3

DRAWING NO. 123A90–DDL–EL–DG–20125

SHEET 010

REV. 01

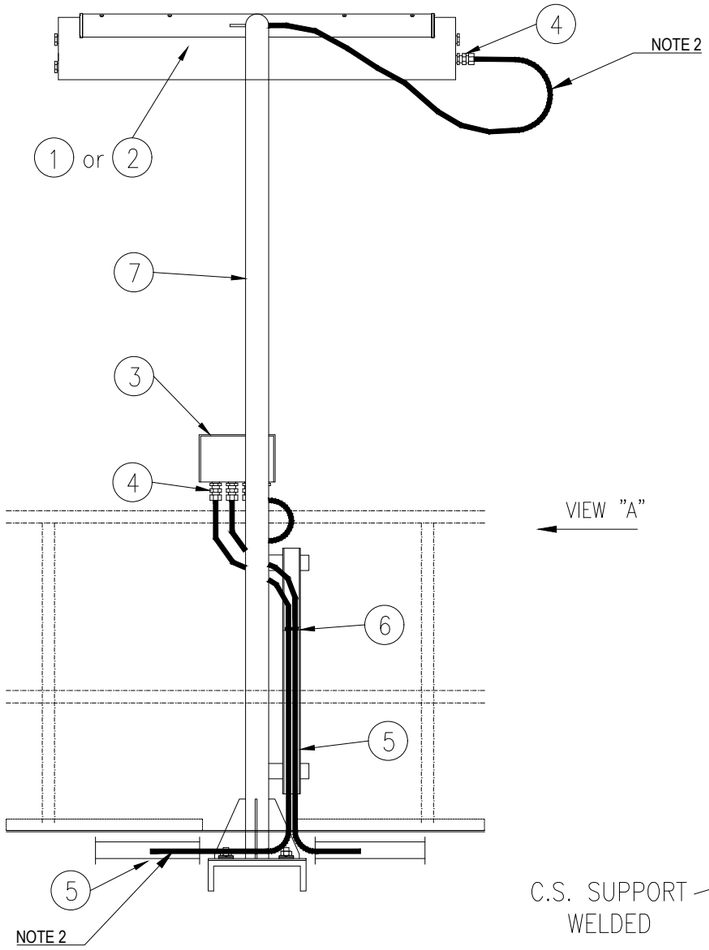
CROSSWIND

ROSETTI MARINO

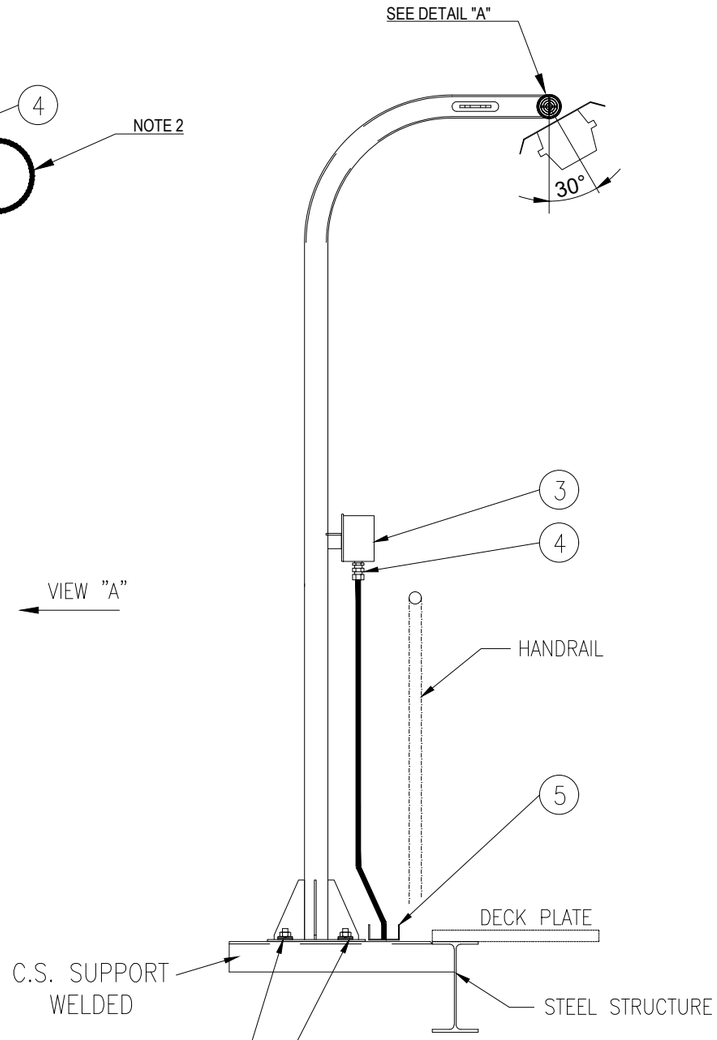
F.to UNI A3: 420mmx297mm

File Name : 123A90–DDL–EL–DG–20125

L11A

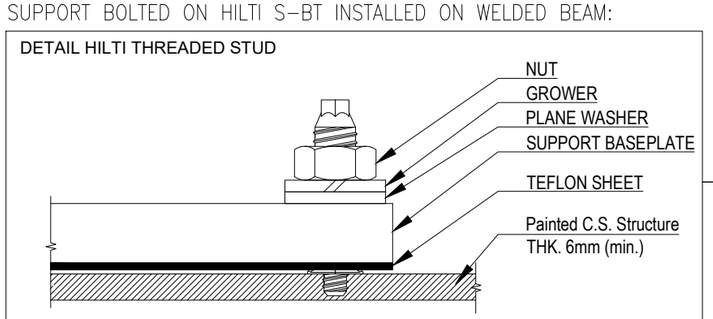


VIEW "A"

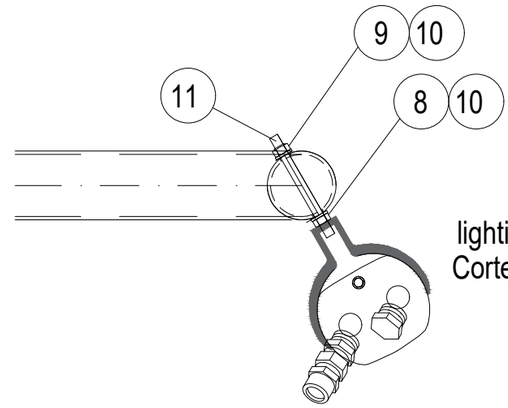


VIEW "A"

SUPPORT BOLTED ON HILTI S-BT INSTALLED ON WELDED BEAM:



POS.	DESCRIPTION	MATERIAL	SIZE	Q.TY	NOTE
1	42W LED LUMINARIES	ALUMINIUM ALLOY		1	
2	45W LED LUMINARIES C/W BATTERY	ALUMINIUM ALLOY		1	
3	JUNCTION BOX (Ex)	GRP		1	NOTE 1
4	CABLE GLAND C/W EARTH TAG, WASHERS, LOCKNUT AND WEATHERPROOF WASHERS	BRASS NICKEL PLATED		AS REQ.	
5	CABLE TRAY	AISI 316L			
6	STAINLESS STEEL NYLON COATED CABLE TIE	SS NYLON COATED			
7	POLE SUPPORT FOR LAMP	AISI 316L	2"		
8	NUT	AISI 316L	M8		
9	SELF.LOCKING NUT	AISI 316L	M8		
10	LARGE PLANE WASHER (24mm DIAM.)	AISI 316L	M8		
11	THREADED ROD M8x100	AISI 316L	M8		



DETAIL "A"

NOTES:

1) FOR LAMPS IN HAZARDOUS AREA, USE ARMOURED CABLE, DOUBLE SEAL CABLE GLAND AND EX JUNCTION BOX.

2) ALWAYS ENSURE CABLE LENGTH IS >3m

VALID FOR CONSTRUCTION
FDL DWG: 123A90-FDL-EL-DD-20091
REV.: 2_A | DATE: 30/09/24 | SIGNATURE: G.Randi
ROSETTI MARINO SpA

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	30/09/24	GRA	AMA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	04/07/24	NLK	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	21/11/23	SPS	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

02

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL TYPICAL INSTALLATION DETAILS-LIGHTING SYSTEM
LIGHTING FIXTURE MOUNTED ON POLE

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK | SCALE : NTS

A3 | DRAWING NO. 123A90-DDL-EL-DD-20091 | SHEET 014 | REV. 02

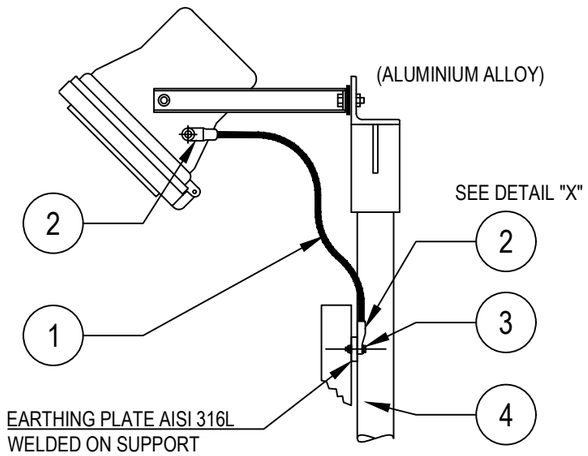
F.to UNI A3: 420mmx297mm

File Name : 123A90-DDL-EL-DD-20091 REV.02.DWG

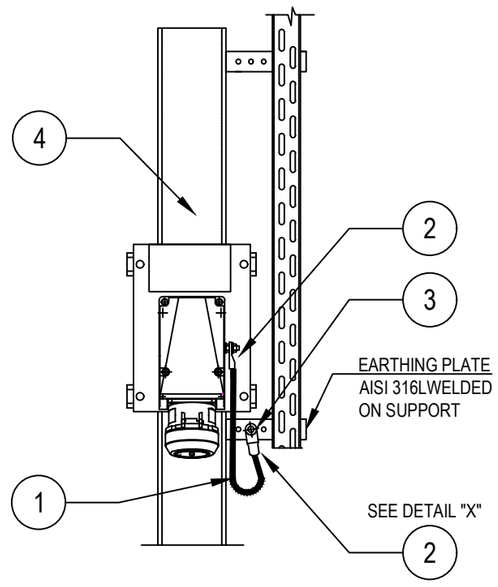
E05

POS.	DESCRIPTION	MATERIAL	SIZE	Q.TY	NOTE
1	Y/G INSULATING COPPER CONDUCTOR	COPPER	$6mm^2$		
2	COMPRESSION TYPE LUG FOR INSULATION COPPER CONDUCTOR	TINNED COPPER	$6mm^2$	2	
3	HEXAG. BOLTS, PLANE WASHERS, SPRING WASHER AND NUT	AISI 316L	M8X30	1	

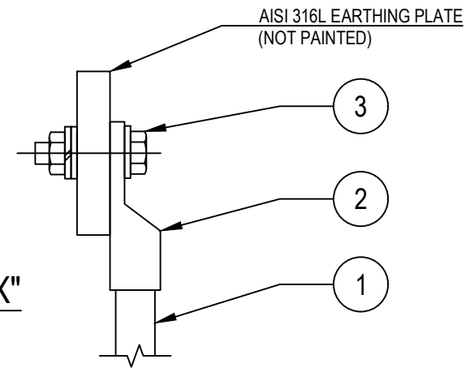
LIGHTING FIXTURE/GENERAL ITEM ON POLE



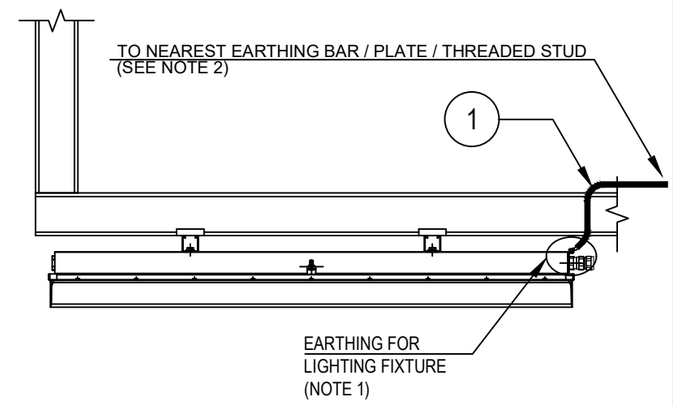
POWER SOCKET OUTLET



DETAIL "X"



LIGHTING FIXTURES



Refer also to TYP. "E32" (SEE SHEET 23)

TYPICAL VALID ALSO FOR NAVAID LIGHTS

NOTES:

1) ALL LIGHTING FIXTURES AND RELEVANT ARMOUR OF THE CABLE, ARE CONNECTED TO EARTH CONNECTION THROUGH THE EARTHING TAG OF THE CABLE GLAND

2) FOR EARTHING POINT USE ONE OF THE FOLLOWING METHODS:
TYP. E03A-D sh. 004 (EARTHING BAR ON STRUCT. UNISTRUT AND CABLE TRAY)
TYP. E11C sh. 003 (EARTHING PLATE)
TYP. E11D sh. 003 (THREADED STUD ON EXTERNAL STRUCTURE)

VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DD-20090**

REV.:	DATE:	SIGNATURE:
2_H	05/11/24	G.Randi

ROSETTI MARINO SpA

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	26/08/24	GRA	AMA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	10/06/24	SPS	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	21/11/23	SPS	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL TYPICAL INSTALLATION DETAILS–EARTHING SYSTEM
EARTHING FOR ELECTRICAL EQUIPMENTS

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK | SCALE : NTS

A3 | DRAWING NO. 123A90-DDL-EL-DD-20090 | SHEET 006 | REV. 02

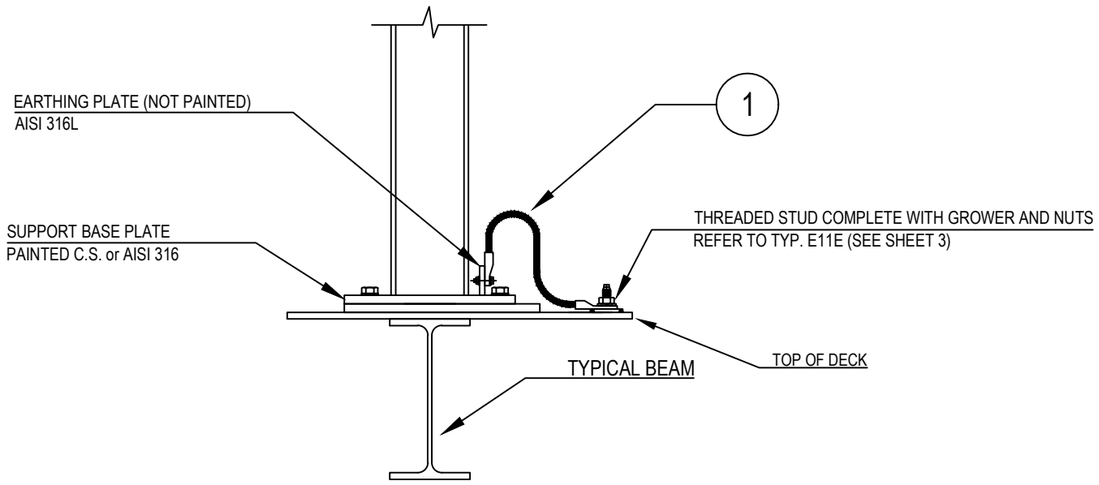
F.to UNI A3: 420mmx297mm

File Name : 123A90-DDL-EL-DD-20090 REV.02.DWG

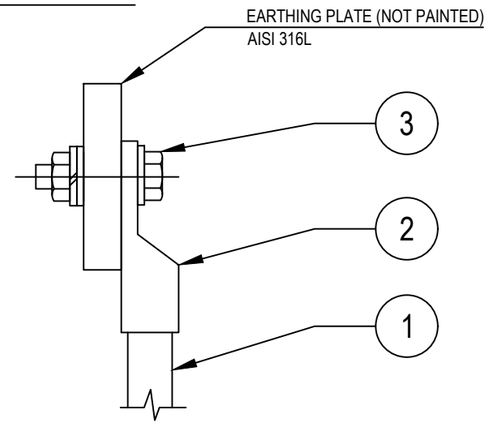
E24

POS.	DESCRIPTION	MATERIAL	SIZE	Q.TY	NOTE
1	As. R. Y/G INSULATING COPPER CONDUCTOR	COPPER	$35mm^2$		
2	COMPRESSION TYPE LUG FOR INSULATION COPPER CONDUCTOR	TINNED COPPER	$35mm^2$	2	~~NOTE 1~~
3	HEXAG. BOLT M10X30 COMPLETE WITH PLANE WASHERS, SPRING WASHER AND NUT	AISI 316L	M10X30	2	

GENERIC SUPPORT BOLTED ON STRUCTURE



DETAIL "X"



NOTES:
1) ~~CABLE LUG CRIMPING METHOD SHALL BE HEXAGONAL COMPRESSION DIES ONLY.~~
2) EXTERNAL EARTHING CONNECTION ONLY SHALL BE PROTECTED AGAINST CORROSION USING OXIDE RESISTANT COMPOUND (E.G. COPPER GREASE)

VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DD-20090**

REV.:	DATE:	SIGNATURE:
2_H	05/11/24	G.Randi

ROSETTI MARINO SpA

CROSSWIND

ROSETTI MARINO

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	26/08/24	GRA	AMA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	10/06/24	SPS	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	21/11/23	SPS	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL TYPICAL INSTALLATION DETAILS–EARTHING SYSTEM
EARTHING FOR POLE/SUPPORT OF GENERIC EQUIPMENTS

CONTRACT NO./TITLE CW–I–WP4–2023–05/HOLLANDSE KUST NOORD WIND PARK | SCALE : NTS

A3	DRAWING NO.	SHEET	REV.
	123A90–DDL–EL–DD–20090	012	02

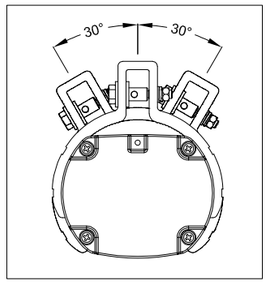
F.to UNI A3: 420mmx297mm

File Name : 123A90-DDL-EL-DD-20090 REV.02.DWG

MODEL C-225 REV.1

GENERAL NOTE:
- PO: 1724001290 DD 26/06/2024
- ITEM.: 1
- Q.TY: 57
- EXTERNAL PAINTING: RAL 7022 (END CAPS)
- INTERNAL PAINTING: NOT PAINTED
- ALL DIMENSIONS ARE IN mm

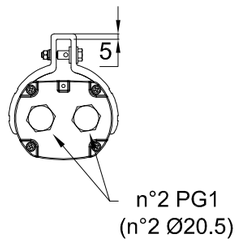
STANDARD FIXING BRACKET
FASTENING WITH 2 THREADED M8
HOLES, ADJUSTABLE FROM 0° TO ±30°



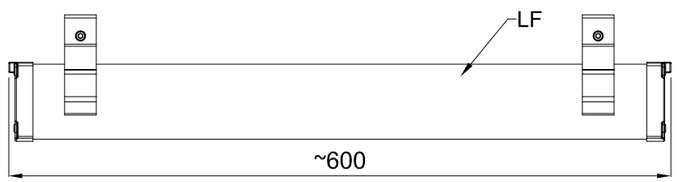
LF INFORMATION	
NOMINAL POWER	45W
CONSUMED POWER	43,5W
POWER FACTOR	>0,93
RATED CURRENT	200 mA
VIEWING ANGLE	120°
COLOUR TEMP.	5000 K
CRI	>80
INSTANT RESTRIKE	YES
LUMEN	6200 lm
LIGHT INTENSITY	2248 cd
EFFICIENCY	143 lm/W
WEIGHT	2,5 Kg
IP PROTECTION	IP66

N°	Q.TY	CODE	DESCRIPTION
LF	1	LIFEX-ME-0645-BB	110-277Vac 50-60Hz 45W LED LINEAR LIGHTING FIXTURE BODY: ALUMINUM ALLOY EXTRUSION AND ALUMINUM END CAPS TRANSPARENT PART: GLASS RESISTANT TO SHOCKS, UV RAYS AND IMPACT RESISTANCE IK09 GASKETS: ACID AND HYDROCARBON RESISTANT SILICONE ASSEMBLY: FASTENING BRACKETS FOR M8 HOLES, ADJUSTABLE 0° TO ±30° MADE IN ANODIZED ALUMINUM CONNECTION: TERMINAL BLOCK ON SIDE (IN) L, N, PE CROSS SEC. MAX. 4mmq SUITABLE FOR LOOP-IN LOOP-OUT SCREWS, BOLTS AND NUTS: STAINLESS STEEL 304
PG1	4	PLG1IB +DL1IB +RDI1IS/A4	IP66 Ex db IIC Gb - Ex eb IIC Gb NICKEL PLATED BRASS PLUG ISO M20x1,5 WITH RELEVANT LOCKNUT AND SERRATED WASHER MADE IN STAINLESS STEEL

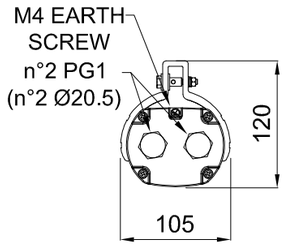
LEFT SIDE (OUT)



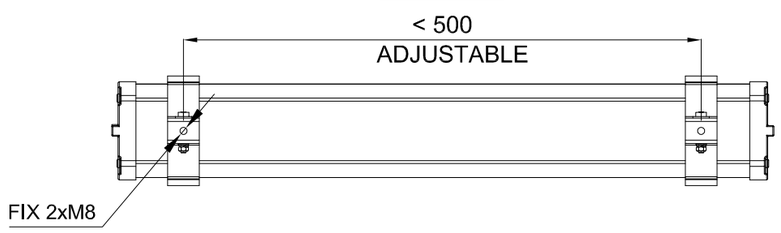
FRONT SIDE



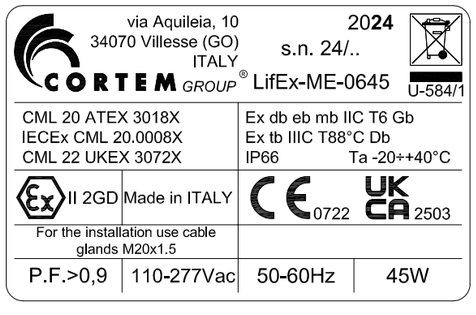
RIGHT SIDE (IN)



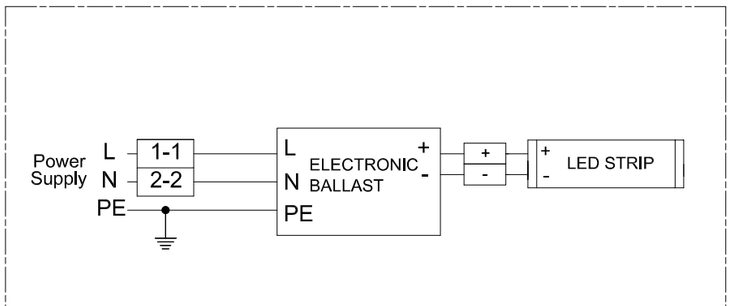
TOP SIDE



CERTIFICATE NAMEPLATE



WIRING DIAGRAM



REV.	DATE	PREP'D	CHK'D	APP'D	DESCRIPTION
2	09/07/2024	FRATTARUOLO	GIUSTI	GRATTON	REISSUED FOR APPROVAL
1	05/07/2024	FRATTARUOLO	GIUSTI	GRATTON	REISSUED FOR APPROVAL
0	28/06/2024	FRATTARUOLO	GIUSTI	GRATTON	ISSUED FOR APPROVAL

DRAWING TITLE: ROSETTI MARINO S.P.A.

CORTEM S.p.a.
GENERAL LAYOUT
001 LIFEX-ME-0645-BB/C2402693/10.

CORTEM JOB: COV2402693
DRAWING SCALE: /
DRAWING NUMBER: A3-C 27521
SHEET: 1
NEXT: 2
TOT.: 2

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AND IT CANNOT BE REPRODUCED WITHOUT CORTEM'S
AUTHORIZATION

Smart Professional R. 2012

Row	Data Sheet for Lighting Fixtures & Accessories				Rev.
1	42W LED Linear Luminaire-Normal Lighting-Safe Area				
2	Item	Required	Manufacturer Proposal	Comments	
3	Model Number	by vendor	LIFEX-ME-0645-BB		01
4	Serial Number	by vendor			00
5	Quantity	29 Nos.		(20+9 Spare)	01
6	Location / Module	Lower deck			01
7	**LED Lamp**				
8	Nominal power	42 watts	45 watts		01
9	No. of linear	1	1		01
10	Luminous flux	5810 lm	6200 lm		01
11	Colour Temperature	5000 K	5000 K		01
12	**Protection**				
13	Hazardous Area Certification (Ex)	Safe area	Ex II 2GD Ex db eb mb IIC Gb Ex tb IIIC Db		01
14	Degree of Protection (IP)	IP 56	IP 66		01
15	ATEX certified	Not required	ATEX CML 20 ATEX 3018X	Will be used ATEX even in safe area	01
16	**Material**				
17	Body	GRP/Aluminium alloy	Aluminium alloy		01
18	Reflector	GRP/Aluminium	Aluminium		01
19	Diffuser	Polycarbonate/temperate glass	Tempered glass		01
20	**Cable Entry**				
21	No. of cable entry	4 Nos.	4 Entries, 2 per side		01
22	Size	M20	Ø20.5mm		01
23	**Emergency Battery Pack**				
24	Requirement	Not required			00
25	Battery type	Not required			00
26	Autonomy	Not required			00
27	Emergency luminous flux	Not required			00
28	**Mechanical parameters**				
29	Dimension	by vendor	600x105x120(mm)		01
30	Weight	by vendor	2.5kg		01

Note:

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Its distribution is electronically controlled. Once printed shall be considered as "NOT CONTROLLED" copy

ITEM	Tag	ELF-200N1-02-L1-21	: NORMAL LIGHT			Dwg	123A90-DDL-EL-DL-20118
	S/Sys	83-40	: Normal Lighting Upper Deck			Module	UD
TASK	code	C10001355		Location	Onshore Activities	User	Rosetti Marino Quality Control
FORM	Process	MC	Activity CCK	Discipline	Electrical	Form	CPX00 Miscellaneous Electrical Equipment

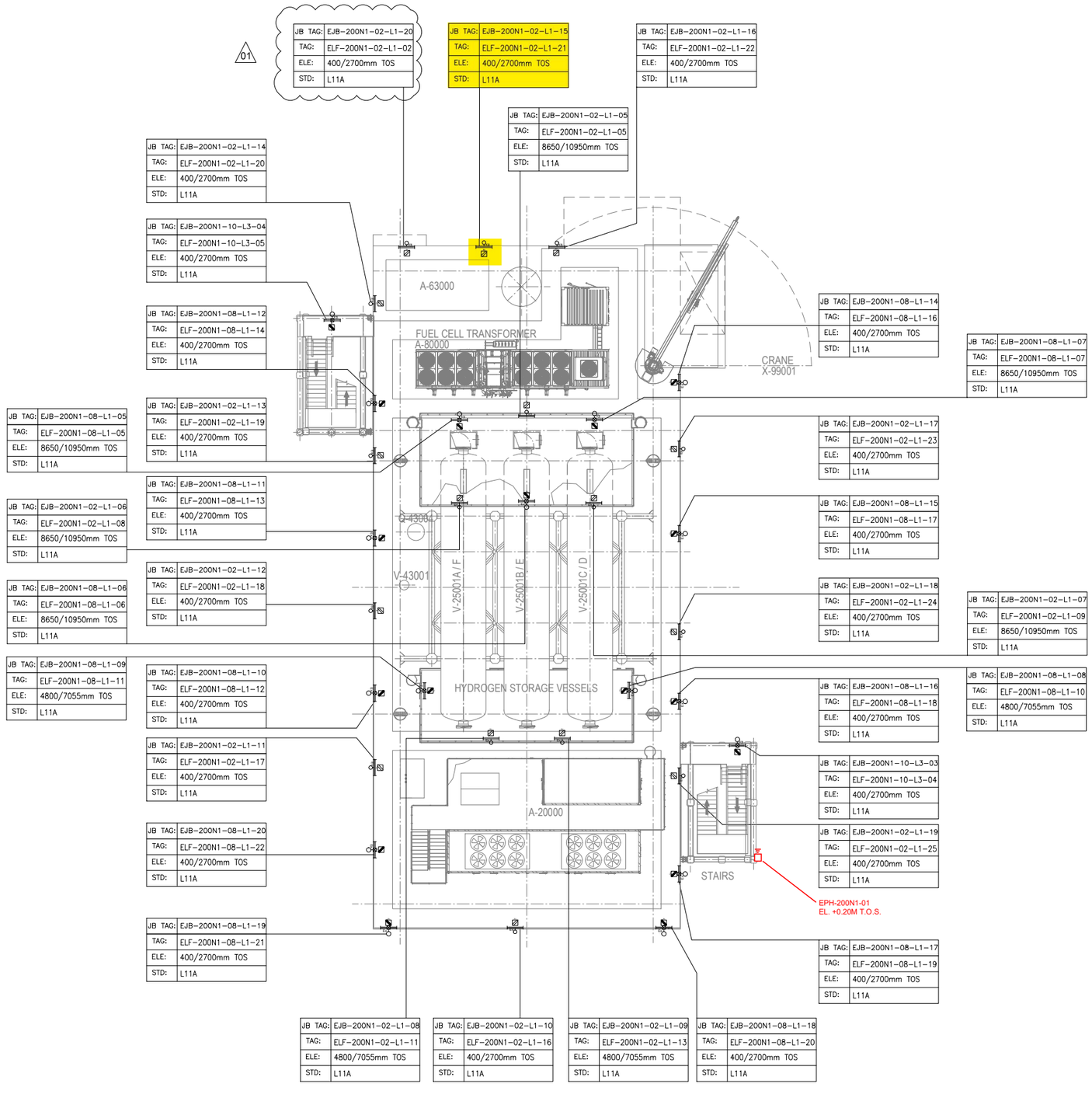
1	Check circuit is de-energized and safe.	OK
2	Check equipment is installed in accordance with layout drawing.	PL
3	Check equipment is undamaged and correcly tagged.	PL
4	Check nameplate data is correct.	NA
5	Check all bolts are fitted and all unused entries are suitably plugged.	PL
6	Check terminals for proper size and installation crimps	OK
7	Check earthing and bonding against drawings.	OK
8	Check items are properly fixed on support.	PL
9	If required produce Red Line Mark Up for "AS BUILT"	

Comments:

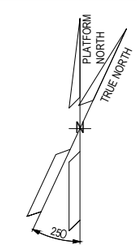
	Performed by	● WITNESS ☐ REVIEW	☐ WITNESS ☐ REVIEW
Company	ICS IMPIANTI	RM(ROSETTI MARINO)	
Name	Francesco Zucca	Luca Mussi	
Date	2024-12-04	2024-12-06	
Signature	Digitaly signed by Francesco Zucca 2024-12-04T16:16:36.782Z	Digitaly signed by Luca Mussi 2024-12-06T16:53:16.308Z	

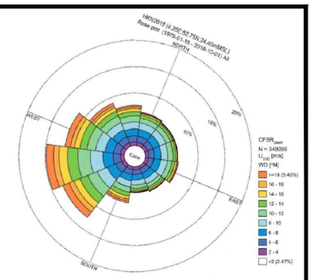
DRAWING NO. 123A90-DDL-EL-DL-20118

REV. 01



PLAN ON UPPER DECK
EL+30.310 T.O.S.





NOTES

1. ALL DIMENSIONS AND ELEVATIONS ARE GIVEN IN mm UNLESS OTHERWISE NOTED.
2. ELEVATIONS REFER TO T.O.S.
3. ELEVATION OF THE LAMPS ARE REFFERED TO THE BOTTOM OF THE LAMP.
4. FOR THE ELEVATION OF JB, REFER TO THE TYPICAL INSTALLATION.

LEGEND

- EMERGENCY LIGHTING JB
- 60W LED EMERGENCY LUMINARIES
- 60W LED EMERGENCY LUMINARIES FIXTURE POLE MOUNTED
- NORMAL LIGHTING JB
- 45W LED NORMAL LUMINARIES
- 45W LED NORMAL LUMINARIES FIXTURE POLE MOUNTED
- WELDING SOCKET WITH INTEGRATED JB
- SMALL POWER SOCKET WITH INTEGRATED JB
- TWILIGHT RELAY SENSOR

JB TAG:	JB-TAG
TAG:	TAG
ELE:	ELEVATION
STD:	STANDARD

VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DL-20118**

REV.:	DATE:	SIGNATURE:
1_B	22/10/24	G.Randi

ROSETTI MARINO SpA

REFERENCE DOCUMENTS

123A90-DDL-PP-DL-70070	PLOT PLAN - LOWER & UPPER DECK
123A90-DDL-EL-DL-20100	ELECTRICAL EQUIPMENT LAYOUT - TOP DECK
123A90-DDL-EL-DD-20091	ELECTRICAL TYPICAL INSTALLATION DETAILS - LIGHTING SYSTEM
123A90-DDL-EL-DD-20092	ELECTRICAL TYPICAL INSTALLATION DETAILS - POWER SYSTEM & CABLE INSTALLATION
123A90-DDL-EL-RE-20153	LIGHTING CALCULATION STUDY REPORT

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	02/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	28/05/24	ASR	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND | ROSETTI MARINO

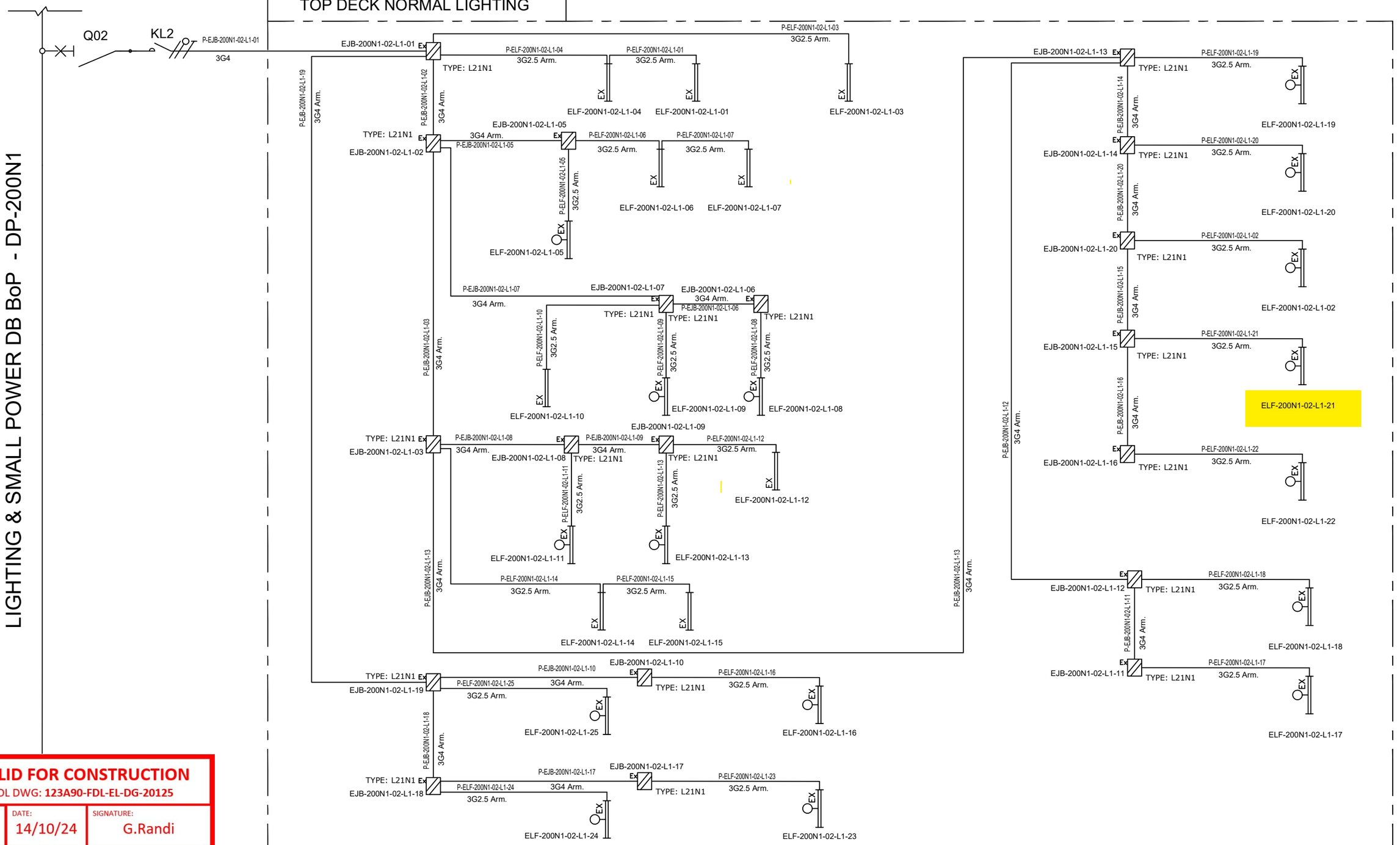
TITLE :
BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET LAYOUT – TOP DECK

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK			SCALE 1:150
DRAWN ASR	CHECKED FMA/AMA	APPROVED FPA/DLO	DATE 01/08/24
A1	DRAWING NO. 123A90-DDL-EL-DL-20118	SHEET 1of2	REV. 01

File Name : 123A90-DDL-EL-DL-20118

LIGHTING & SMALL POWER DB BoP - DP-200N1

TOP DECK NORMAL LIGHTING



VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DG-20125**

REV.:	DATE:	SIGNATURE:
1_B	14/10/24	G.Randi

ROSETTI MARINO SpA

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	08/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	01/07/24	ASR	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

TITLE : BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET CIRCUIT DIAGRAM
TOP DECK–NORMAL LIGHTING

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE : NTS

A3

DRAWING NO. 123A90–DDL–EL–DG–20125

SHEET 010

REV. 01

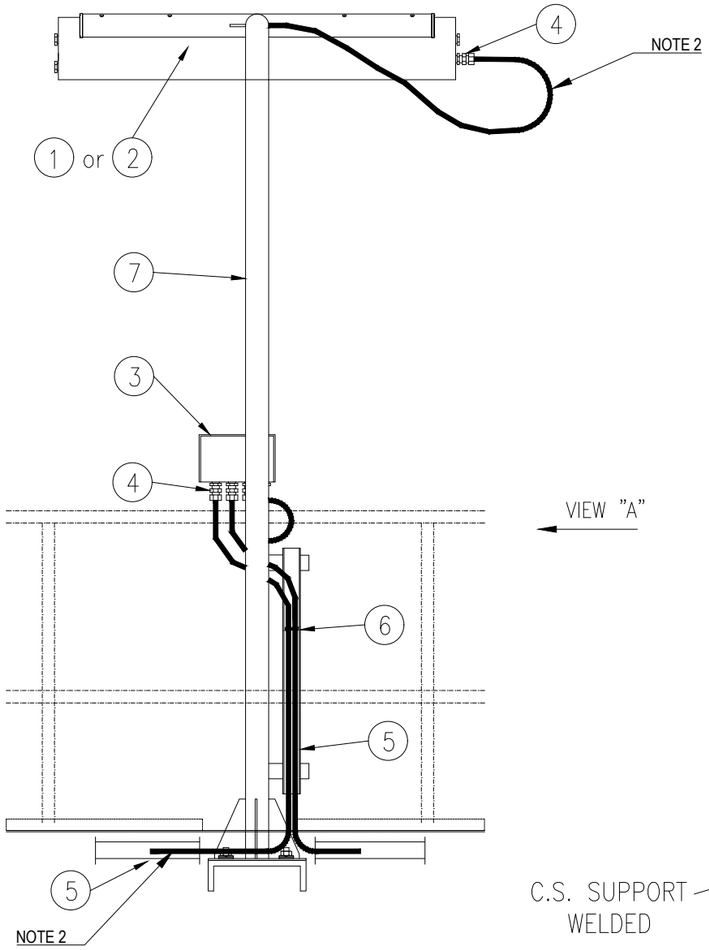
CROSSWIND

ROSETTI MARINO

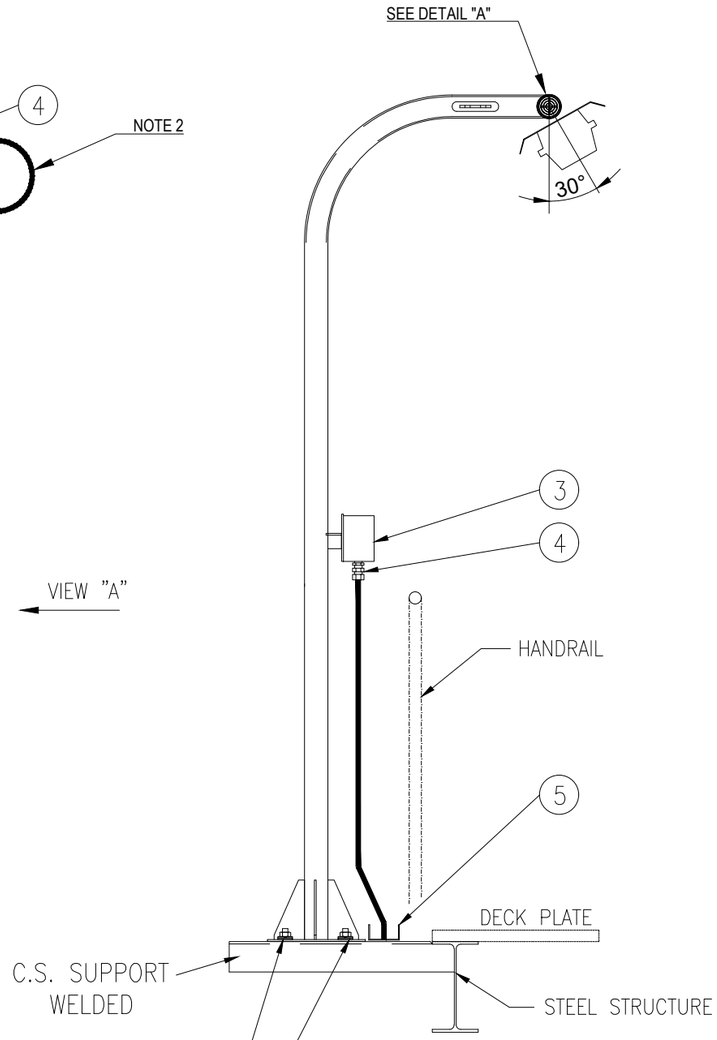
F.to UNI A3: 420mmx297mm

File Name : 123A90–DDL–EL–DG–20125

L11A

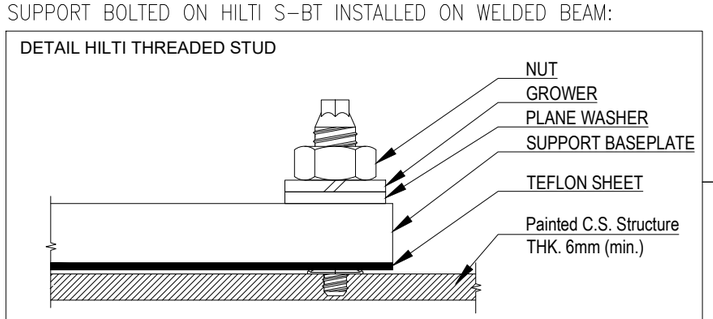


VIEW "A"

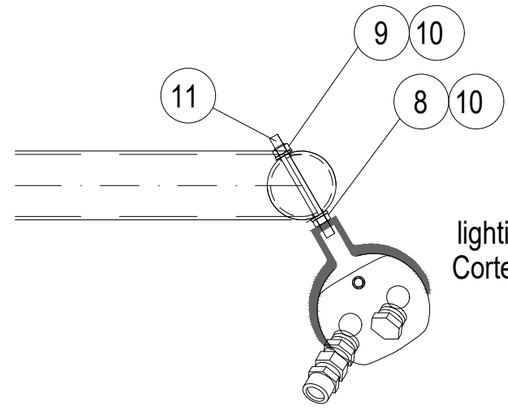


VIEW "A"

SUPPORT BOLTED ON HILTI S-BT INSTALLED ON WELDED BEAM:



POS.	DESCRIPTION	MATERIAL	SIZE	Q.TY	NOTE
1	42W LED LUMINARIES	ALUMINIUM ALLOY		1	
2	45W LED LUMINARIES C/W BATTERY	ALUMINIUM ALLOY		1	
3	JUNCTION BOX (Ex)	GRP		1	NOTE 1
4	CABLE GLAND C/W EARTH TAG, WASHERS, LOCKNUT AND WEATHERPROOF WASHERS	BRASS NICKEL PLATED		AS REQ.	
5	CABLE TRAY	AISI 316L			
6	STAINLESS STEEL NYLON COATED CABLE TIE	SS NYLON COATED			
7	POLE SUPPORT FOR LAMP	AISI 316L	2"		
8	NUT	AISI 316L	M8		
9	SELF.LOCKING NUT	AISI 316L	M8		
10	LARGE PLANE WASHER (24mm DIAM.)	AISI 316L	M8		
11	THREADED ROD M8x100	AISI 316L	M8		



DETAIL "A"

NOTES:

1) FOR LAMPS IN HAZARDOUS AREA, USE ARMOURED CABLE, DOUBLE SEAL CABLE GLAND AND EX JUNCTION BOX.

2) ALWAYS ENSURE CABLE LENGTH IS >3m

VALID FOR CONSTRUCTION
FDL DWG: 123A90-FDL-EL-DD-20091
REV.: 2_A | DATE: 30/09/24 | SIGNATURE: G.Randi
ROSETTI MARINO SpA

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	30/09/24	GRA	AMA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	04/07/24	NLK	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	21/11/23	SPS	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

02

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL TYPICAL INSTALLATION DETAILS-LIGHTING SYSTEM
LIGHTING FIXTURE MOUNTED ON POLE

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK | SCALE : NTS

A3 | DRAWING NO. 123A90-DDL-EL-DD-20091 | SHEET 014 | REV. 02

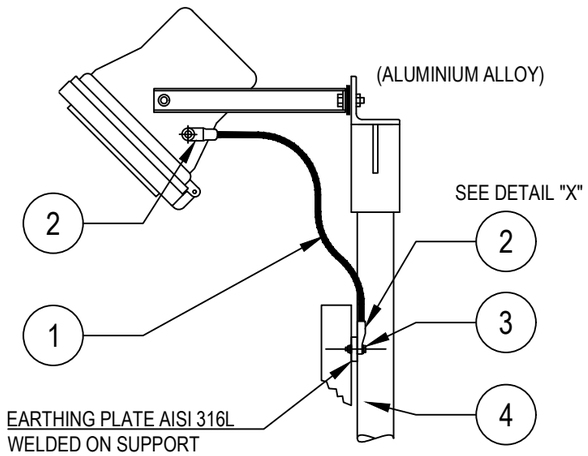
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File Name : 123A90-DDL-EL-DD-20091 REV.02.DWG

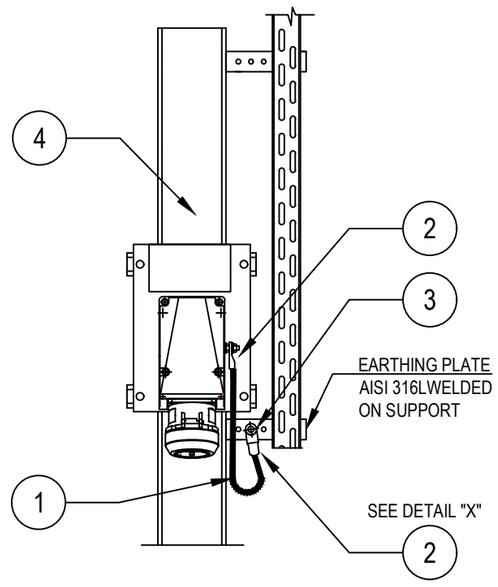
E05

POS.	DESCRIPTION	MATERIAL	SIZE	Q.TY	NOTE
1	Y/G INSULATING COPPER CONDUCTOR	COPPER	$6mm^2$		
2	COMPRESSION TYPE LUG FOR INSULATION COPPER CONDUCTOR	TINNED COPPER	$6mm^2$	2	
3	HEXAG. BOLTS, PLANE WASHERS, SPRING WASHER AND NUT	AISI 316L	M8X30	1	

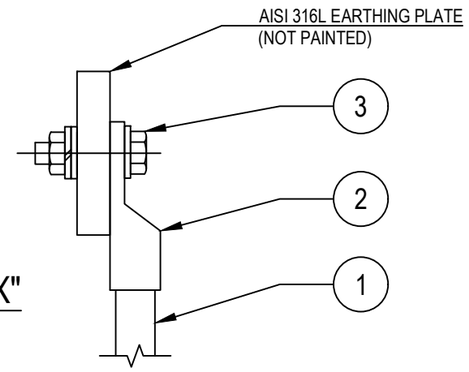
LIGHTING FIXTURE/GENERAL ITEM ON POLE



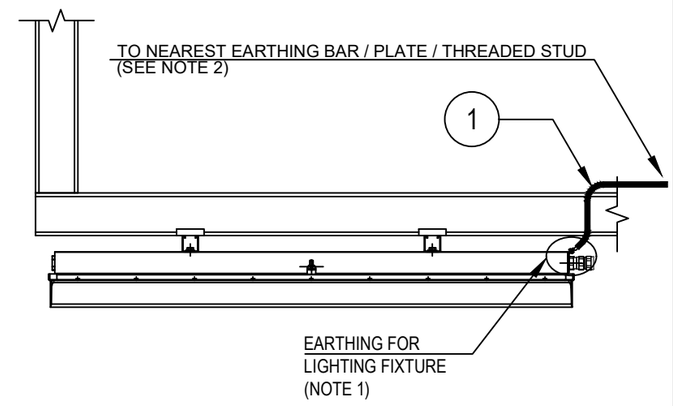
POWER SOCKET OUTLET



DETAIL "X"



LIGHTING FIXTURES



Refer also to TYP. "E32" (SEE SHEET 23)

TYPICAL VALID ALSO FOR NAVAID LIGHTS

NOTES:

1) ALL LIGHTING FIXTURES AND RELEVANT ARMOUR OF THE CABLE, ARE CONNECTED TO EARTH CONNECTION THROUGH THE EARTHING TAG OF THE CABLE GLAND

2) FOR EARTHING POINT USE ONE OF THE FOLLOWING METHODS:
TYP. E03A-D sh. 004 (EARTHING BAR ON STRUCT. UNISTRUT AND CABLE TRAY)
TYP. E11C sh. 003 (EARTHING PLATE)
TYP. E11D sh. 003 (THREADED STUD ON EXTERNAL STRUCTURE)

VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DD-20090**

REV.:	DATE:	SIGNATURE:
2_H	05/11/24	G.Randi

ROSETTI MARINO SpA

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	26/08/24	GRA	AMA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	10/06/24	SPS	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	21/11/23	SPS	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL TYPICAL INSTALLATION DETAILS–EARTHING SYSTEM
EARTHING FOR ELECTRICAL EQUIPMENTS

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK | SCALE : NTS

A3 | DRAWING NO. 123A90-DDL-EL-DD-20090 | SHEET 006 | REV. 02

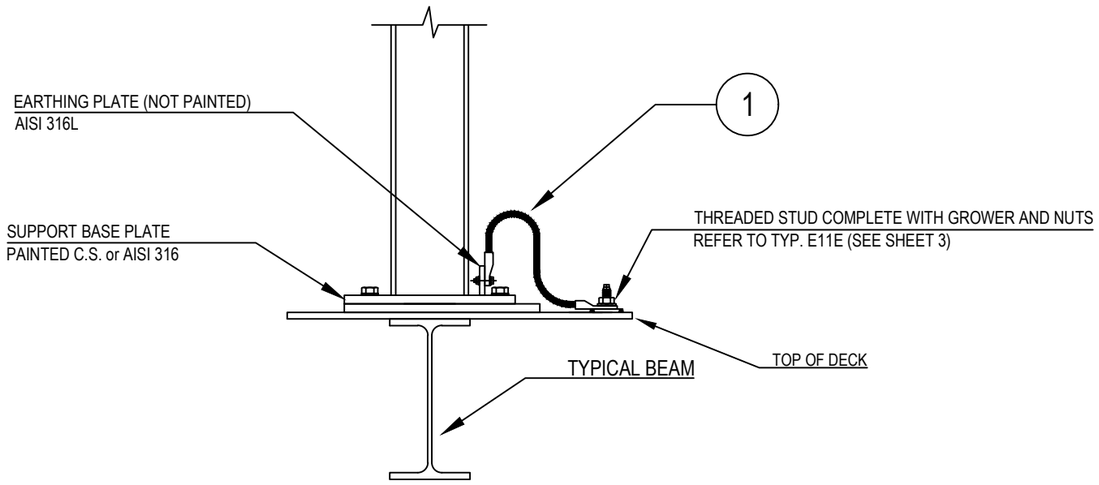
F.to UNI A3: 420mmx297mm

File Name : 123A90-DDL-EL-DD-20090 REV.02.DWG

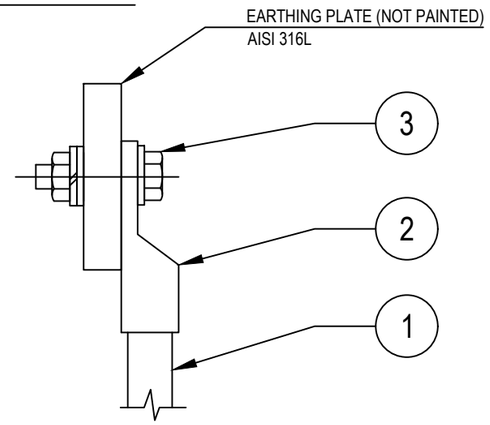
E24

POS.	DESCRIPTION	MATERIAL	SIZE	Q.TY	NOTE
1	As. R. Y/G INSULATING COPPER CONDUCTOR	COPPER	$35mm^2$		
2	COMPRESSION TYPE LUG FOR INSULATION COPPER CONDUCTOR	TINNED COPPER	$35mm^2$	2	~~NOTE 1~~
3	HEXAG. BOLT M10X30 COMPLETE WITH PLANE WASHERS, SPRING WASHER AND NUT	AISI 316L	M10X30	2	

GENERIC SUPPORT BOLTED ON STRUCTURE



DETAIL "X"



NOTES:
1) ~~CABLE LUG CRIMPING METHOD SHALL BE HEXAGONAL COMPRESSION DIES ONLY.~~
2) EXTERNAL EARTHING CONNECTION ONLY SHALL BE PROTECTED AGAINST CORROSION USING OXIDE RESISTANT COMPOUND (E.G. COPPER GREASE)

VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DD-20090**

REV.:	DATE:	SIGNATURE:
2_H	05/11/24	G.Randi

ROSETTI MARINO SpA

CROSSWIND

ROSETTI MARINO

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	26/08/24	GRA	AMA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	10/06/24	SPS	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	21/11/23	SPS	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL TYPICAL INSTALLATION DETAILS–EARTHING SYSTEM
EARTHING FOR POLE/SUPPORT OF GENERIC EQUIPMENTS

CONTRACT NO./TITLE CW–I–WP4–2023–05/HOLLANDSE KUST NOORD WIND PARK | SCALE : NTS

A3	DRAWING NO.	SHEET	REV.
	123A90–DDL–EL–DD–20090	012	02

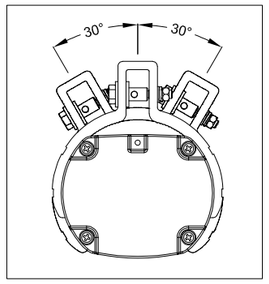
F.to UNI A3: 420mmx297mm

File Name : 123A90-DDL-EL-DD-20090 REV.02.DWG

MODEL C-225 REV.1

GENERAL NOTE:
- PO: 1724001290 DD 26/06/2024
- ITEM.: 1
- Q.TY: 57
- EXTERNAL PAINTING: RAL 7022 (END CAPS)
- INTERNAL PAINTING: NOT PAINTED
- ALL DIMENSIONS ARE IN mm

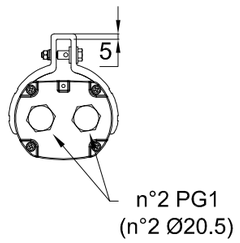
STANDARD FIXING BRACKET
FASTENING WITH 2 THREADED M8
HOLES, ADJUSTABLE FROM 0° TO ±30°



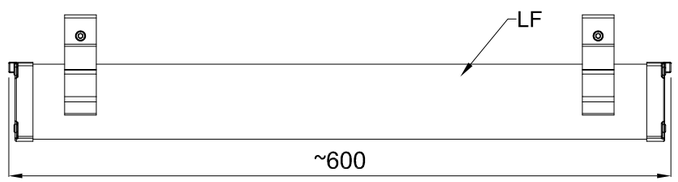
LF INFORMATION	
NOMINAL POWER	45W
CONSUMED POWER	43,5W
POWER FACTOR	>0,93
RATED CURRENT	200 mA
VIEWING ANGLE	120°
COLOUR TEMP.	5000 K
CRI	>80
INSTANT RESTRIKE	YES
LUMEN	6200 lm
LIGHT INTENSITY	2248 cd
EFFICIENCY	143 lm/W
WEIGHT	2,5 Kg
IP PROTECTION	IP66

N°	Q.TY	CODE	DESCRIPTION
LF	1	LIFEX-ME-0645-BB	110-277Vac 50-60Hz 45W LED LINEAR LIGHTING FIXTURE BODY: ALUMINUM ALLOY EXTRUSION AND ALUMINUM END CAPS TRANSPARENT PART: GLASS RESISTANT TO SHOCKS, UV RAYS AND IMPACT RESISTANCE IK09 GASKETS: ACID AND HYDROCARBON RESISTANT SILICONE ASSEMBLY: FASTENING BRACKETS FOR M8 HOLES, ADJUSTABLE 0° TO ±30° MADE IN ANODIZED ALUMINUM CONNECTION: TERMINAL BLOCK ON SIDE (IN) L, N, PE CROSS SEC. MAX. 4mmq SUITABLE FOR LOOP-IN LOOP-OUT SCREWS, BOLTS AND NUTS: STAINLESS STEEL 304
PG1	4	PLG1IB +DL1IB +RDI1IS/A4	IP66 Ex db IIC Gb - Ex eb IIC Gb NICKEL PLATED BRASS PLUG ISO M20x1,5 WITH RELEVANT LOCKNUT AND SERRATED WASHER MADE IN STAINLESS STEEL

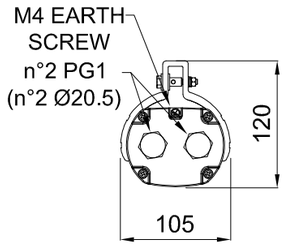
LEFT SIDE (OUT)



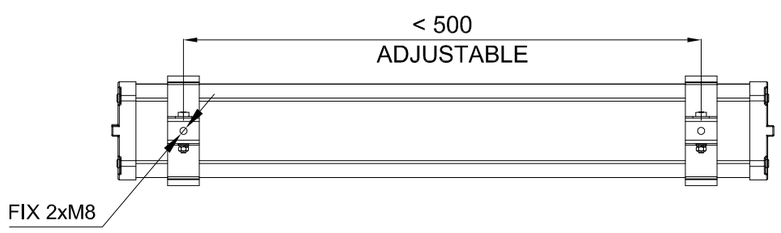
FRONT SIDE



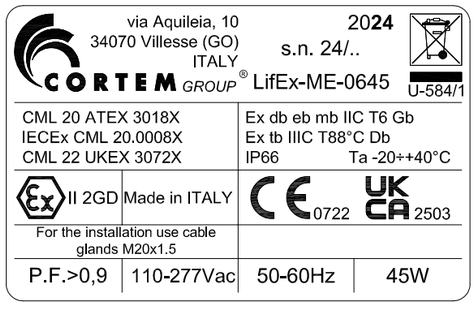
RIGHT SIDE (IN)



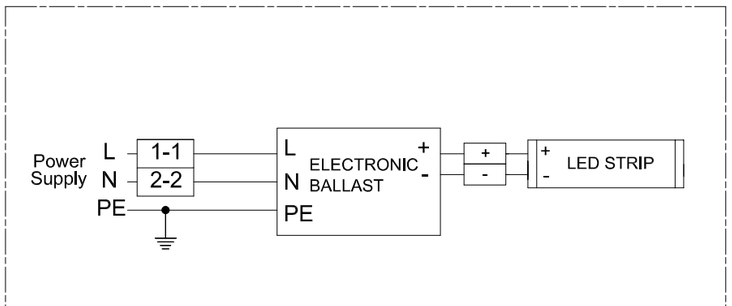
TOP SIDE



CERTIFICATE NAMEPLATE



WIRING DIAGRAM



REV.	DATE	PREP'D	CHK'D	APP'D	DESCRIPTION
2	09/07/2024	FRATTARUOLO	GIUSTI	GRATTON	REISSUED FOR APPROVAL
1	05/07/2024	FRATTARUOLO	GIUSTI	GRATTON	REISSUED FOR APPROVAL
0	28/06/2024	FRATTARUOLO	GIUSTI	GRATTON	ISSUED FOR APPROVAL

DRAWING TITLE: ROSETTI MARINO S.P.A.

CORTEM S.p.a.
GENERAL LAYOUT
001 LIFEX-ME-0645-BB/C2402693/10.

CORTEM JOB: COV2402693
DRAWING SCALE: /
DRAWING NUMBER: A3-C 27521
SHEET: 1
NEXT: 2
TOT.: 2

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AND IT CANNOT BE REPRODUCED WITHOUT CORTEM'S
AUTHORIZATION

Smart Professional R. 2012

Row	Data Sheet for Lighting Fixtures & Accessories				Rev.
1	42W LED Linear Luminaire-Normal Lighting-Safe Area				
2	Item	Required	Manufacturer Proposal	Comments	
3	Model Number	by vendor	LIFEX-ME-0645-BB		01
4	Serial Number	by vendor			00
5	Quantity	29 Nos.		(20+9 Spare)	01
6	Location / Module	Lower deck			01
7	**LED Lamp**				
8	Nominal power	42 watts	45 watts		01
9	No. of linear	1	1		01
10	Luminous flux	5810 lm	6200 lm		01
11	Colour Temperature	5000 K	5000 K		01
12	**Protection**				
13	Hazardous Area Certification (Ex)	Safe area	Ex II 2GD Ex db eb mb IIC Gb Ex tb IIIC Db		01
14	Degree of Protection (IP)	IP 56	IP 66		01
15	ATEX certified	Not required	ATEX CML 20 ATEX 3018X	Will be used ATEX even in safe area	01
16	**Material**				
17	Body	GRP/Aluminium alloy	Aluminium alloy		01
18	Reflector	GRP/Aluminium	Aluminium		01
19	Diffuser	Polycarbonate/temperate glass	Tempered glass		01
20	**Cable Entry**				
21	No. of cable entry	4 Nos.	4 Entries, 2 per side		01
22	Size	M20	Ø20.5mm		01
23	**Emergency Battery Pack**				
24	Requirement	Not required			00
25	Battery type	Not required			00
26	Autonomy	Not required			00
27	Emergency luminous flux	Not required			00
28	**Mechanical parameters**				
29	Dimension	by vendor	600x105x120(mm)		01
30	Weight	by vendor	2.5kg		01

Note:

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Its distribution is electronically controlled. Once printed shall be considered as "NOT CONTROLLED" copy

ITEM	Tag	ELF-200N1-02-L1-22	: NORMAL LIGHT			Dwg	123A90-DDL-EL-DL-20118
	S/Sys	83-40	: Normal Lighting Upper Deck			Module	UD
TASK	code	C10001356		Location	Onshore Activities	User	Rosetti Marino Quality Control
FORM	Process	MC	Activity CCK	Discipline	Electrical	Form	CPX00 Miscellaneous Electrical Equipment

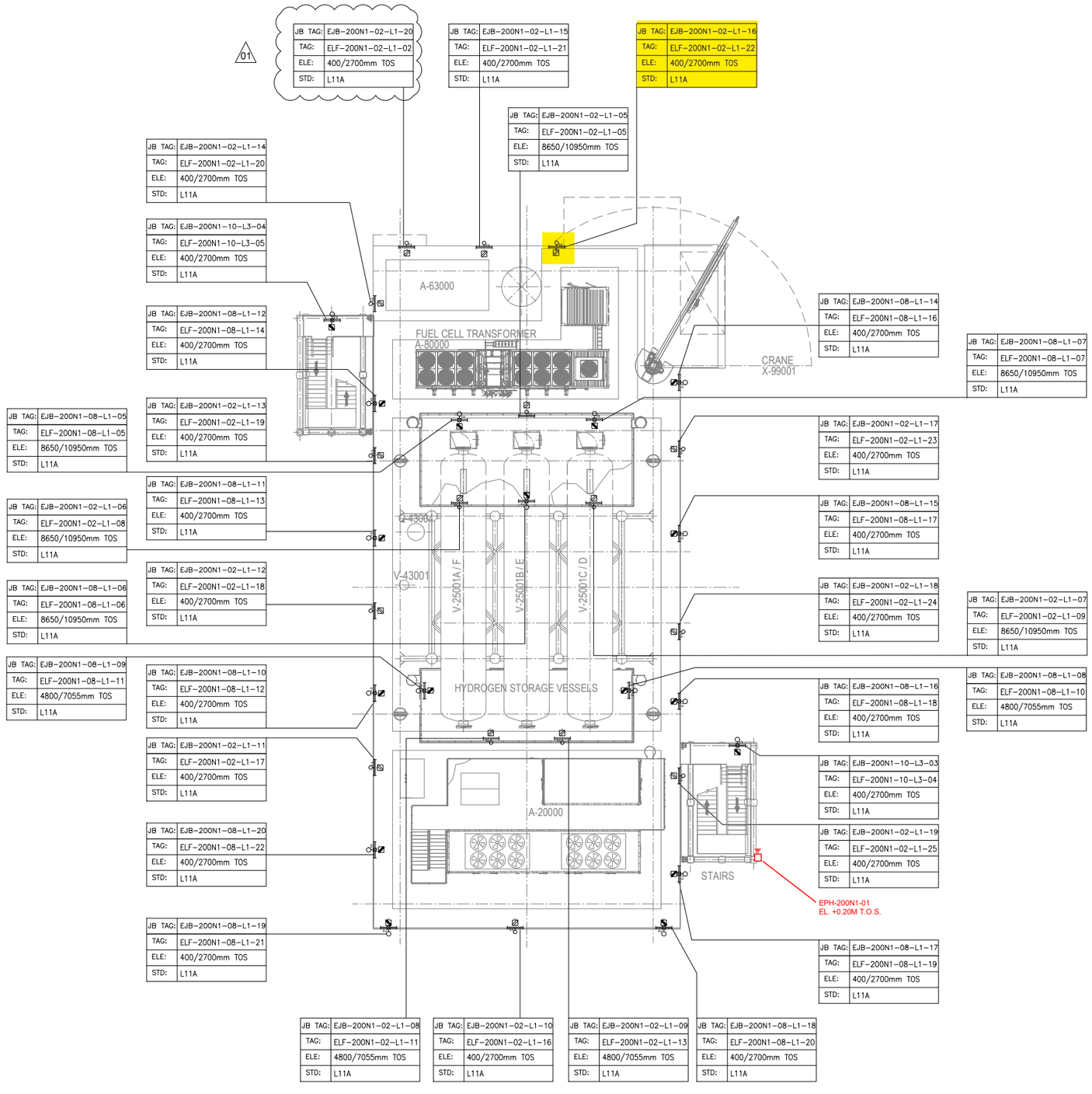
1	Check circuit is de-energized and safe.	OK
2	Check equipment is installed in accordance with layout drawing.	PL
3	Check equipment is undamaged and correcly tagged.	PL
4	Check nameplate data is correct.	NA
5	Check all bolts are fitted and all unused entries are suitably plugged.	OK
6	Check terminals for proper size and installation crimps	OK
7	Check earthing and bonding against drawings.	OK
8	Check items are properly fixed on support.	PL
9	If required produce Red Line Mark Up for "AS BUILT"	

Comments:

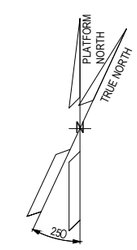
	Performed by	● WITNESS ☐ REVIEW	☐ WITNESS ☐ REVIEW
Company	ICS IMPIANTI	RM(ROSETTI MARINO)	
Name	Francesco Zucca	Andrea Andreani	
Date	2024-12-04	2024-12-07	
Signature	PROVERLIS Digitaly signed by Francesco Zucca 2024-12-04T16:16:49.237Z	PROVERLIS Digitaly signed by Andrea Andreani 2024-12-07T07:54:30.922Z	

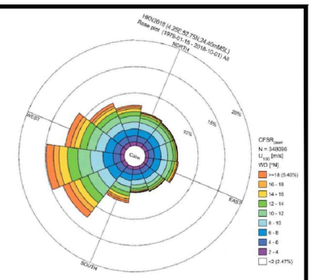
DRAWING NO. 123A90-DDL-EL-DL-20118

REV. 01



PLAN ON UPPER DECK
EL+30.310 T.O.S.





NOTES

1. ALL DIMENSIONS AND ELEVATIONS ARE GIVEN IN mm UNLESS OTHERWISE NOTED.
2. ELEVATIONS REFER TO T.O.S.
3. ELEVATION OF THE LAMPS ARE REFFERED TO THE BOTTOM OF THE LAMP.
4. FOR THE ELEVATION OF JB, REFER TO THE TYPICAL INSTALLATION.

LEGEND

- EMERGENCY LIGHTING JB
- 60W LED EMERGENCY LUMINARIES
- 60W LED EMERGENCY LUMINARIES FIXTURE POLE MOUNTED
- NORMAL LIGHTING JB
- 45W LED NORMAL LUMINARIES
- 45W LED NORMAL LUMINARIES FIXTURE POLE MOUNTED
- WELDING SOCKET WITH INTEGRATED JB
- SMALL POWER SOCKET WITH INTEGRATED JB
- TWILIGHT RELAY SENSOR

JB TAG:	JB-TAG
TAG:	TAG
ELE:	ELEVATION
STD:	STANDARD

VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DL-20118**

REV.:	DATE:	SIGNATURE:
1_B	22/10/24	G.Randi

ROSETTI MARINO SpA

REFERENCE DOCUMENTS

123A90-DDL-PP-DL-70070	PLOT PLAN - LOWER & UPPER DECK
123A90-DDL-EL-DL-20100	ELECTRICAL EQUIPMENT LAYOUT - TOP DECK
123A90-DDL-EL-DD-20091	ELECTRICAL TYPICAL INSTALLATION DETAILS - LIGHTING SYSTEM
123A90-DDL-EL-DD-20092	ELECTRICAL TYPICAL INSTALLATION DETAILS - POWER SYSTEM & CABLE INSTALLATION
123A90-DDL-EL-RE-20153	LIGHTING CALCULATION STUDY REPORT

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	02/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	28/05/24	ASR	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND | ROSETTI MARINO

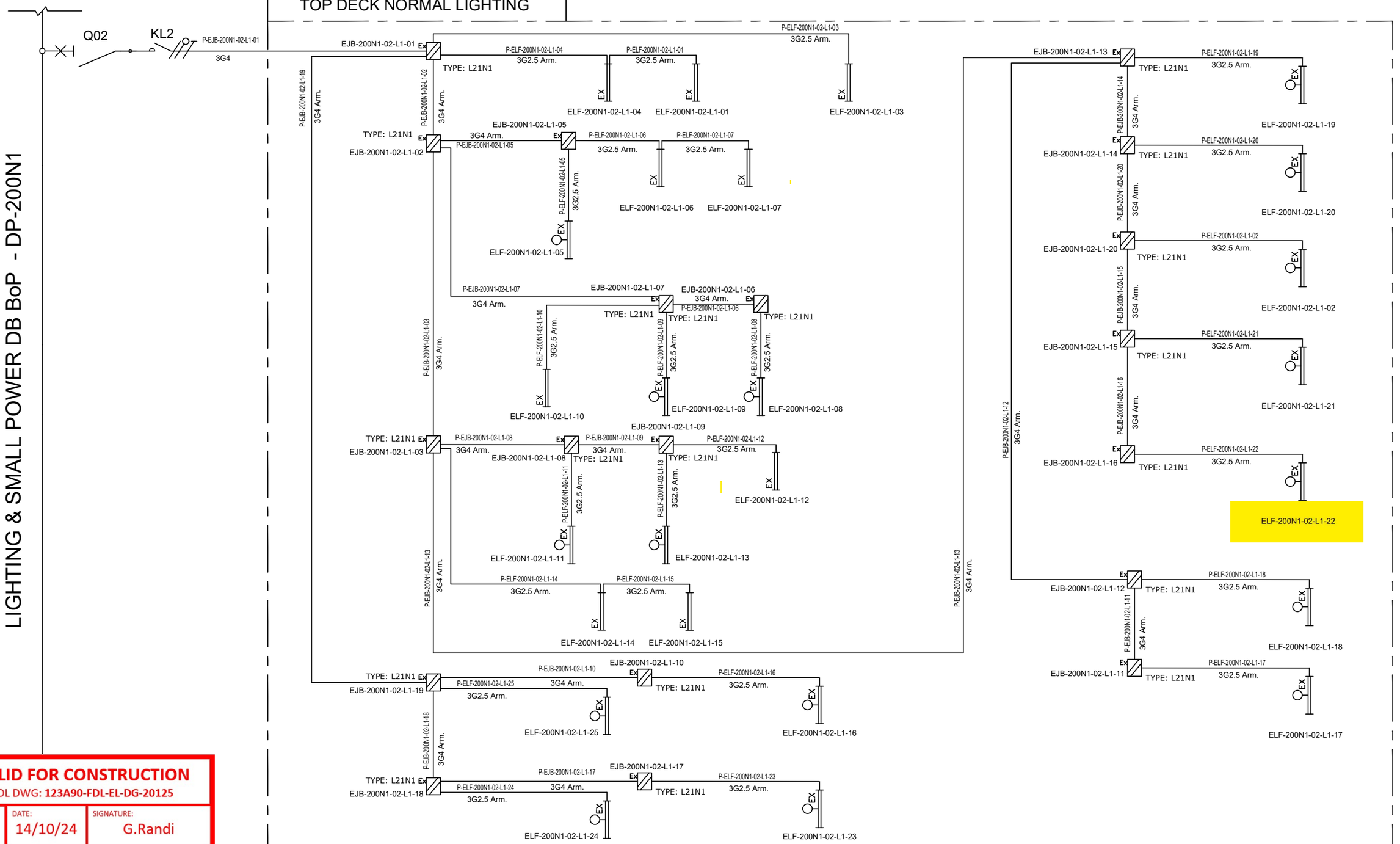
TITLE :
BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET LAYOUT – TOP DECK

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK			SCALE 1:150
DRAWN ASR	CHECKED FMA/AMA	APPROVED FPA/DLO	DATE 01/08/24
A1	DRAWING NO. 123A90-DDL-EL-DL-20118	SHEET 1of2	REV. 01

File Name : 123A90-DDL-EL-DL-20118

LIGHTING & SMALL POWER DB BoP - DP-200N1

TOP DECK NORMAL LIGHTING



VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DG-20125**

REV.:	DATE:	SIGNATURE:
1_B	14/10/24	G.Randi

ROSETTI MARINO SpA

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	08/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	01/07/24	ASR	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

TITLE : BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET CIRCUIT DIAGRAM
TOP DECK–NORMAL LIGHTING

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE : NTS

A3

DRAWING NO. 123A90–DDL–EL–DG–20125

SHEET 010

REV. 01

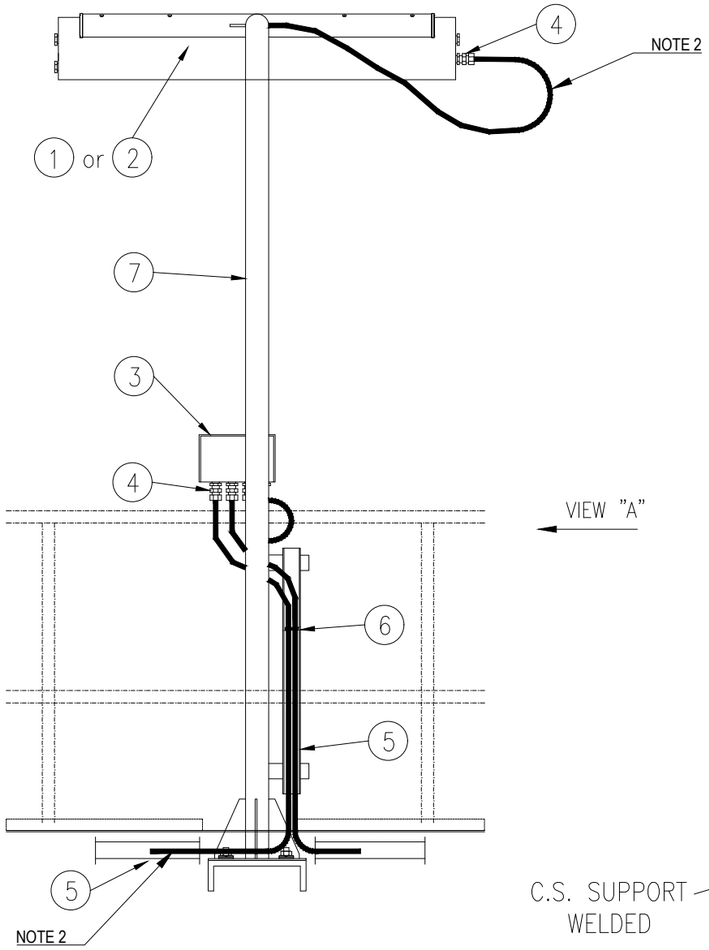
CROSSWIND

ROSETTI MARINO

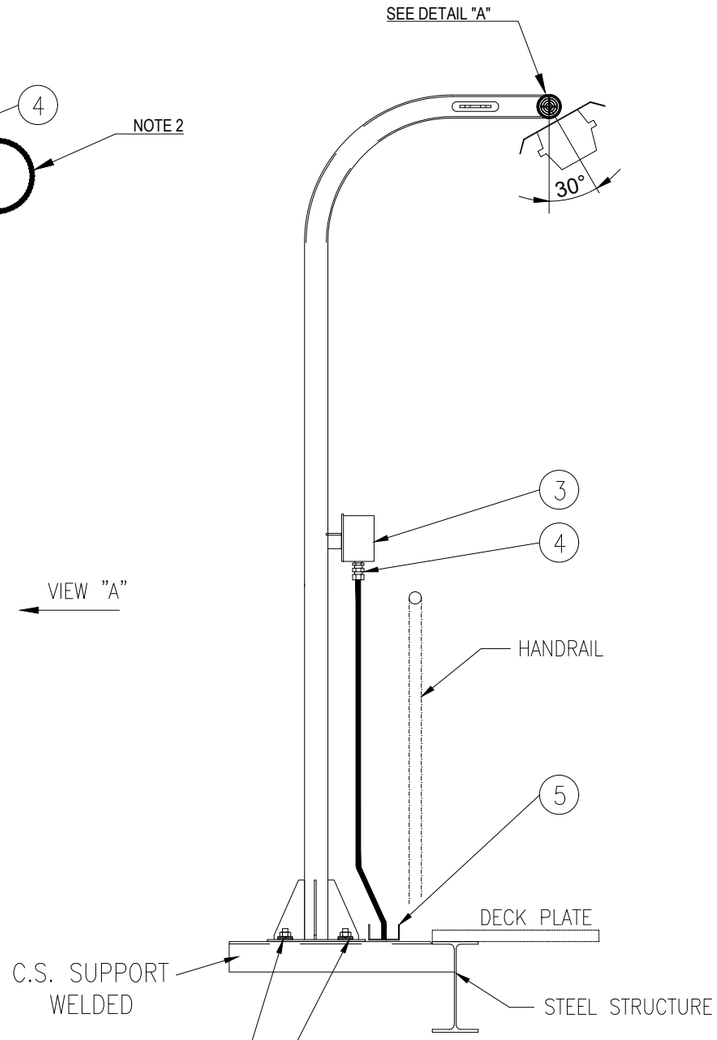
F.to UNI A3: 420mmx297mm

File Name : 123A90–DDL–EL–DG–20125

L11A

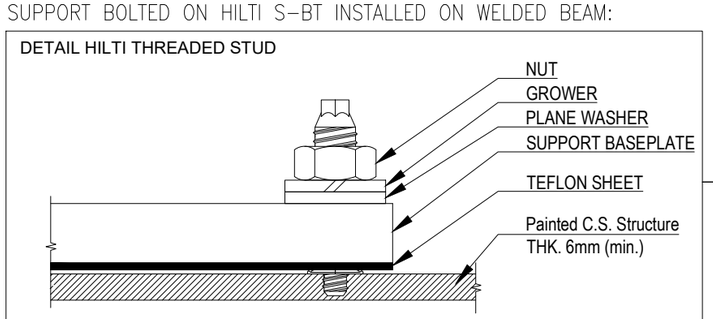


VIEW "A"

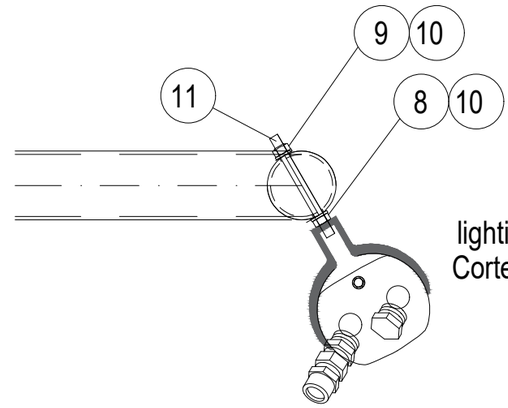


VIEW "A"

SUPPORT BOLTED ON HILTI S-BT INSTALLED ON WELDED BEAM:



POS.	DESCRIPTION	MATERIAL	SIZE	Q.TY	NOTE
1	42W LED LUMINARIES	ALUMINIUM ALLOY		1	
2	45W LED LUMINARIES C/W BATTERY	ALUMINIUM ALLOY		1	
3	JUNCTION BOX (Ex)	GRP		1	NOTE 1
4	CABLE GLAND C/W EARTH TAG, WASHERS, LOCKNUT AND WEATHERPROOF WASHERS	BRASS NICKEL PLATED		AS REQ.	
5	CABLE TRAY	AISI 316L			
6	STAINLESS STEEL NYLON COATED CABLE TIE	SS NYLON COATED			
7	POLE SUPPORT FOR LAMP	AISI 316L	2"		
8	NUT	AISI 316L	M8		
9	SELF.LOCKING NUT	AISI 316L	M8		
10	LARGE PLANE WASHER (24mm DIAM.)	AISI 316L	M8		
11	THREADED ROD M8x100	AISI 316L	M8		



DETAIL "A"

NOTES:

1) FOR LAMPS IN HAZARDOUS AREA, USE ARMOURED CABLE, DOUBLE SEAL CABLE GLAND AND EX JUNCTION BOX.

2) ALWAYS ENSURE CABLE LENGTH IS >3m

VALID FOR CONSTRUCTION
FDL DWG: 123A90-FDL-EL-DD-20091
REV.: 2_A | DATE: 30/09/24 | SIGNATURE: G.Randi
ROSETTI MARINO SpA

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	30/09/24	GRA	AMA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	04/07/24	NLK	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	21/11/23	SPS	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

02

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL TYPICAL INSTALLATION DETAILS-LIGHTING SYSTEM
LIGHTING FIXTURE MOUNTED ON POLE

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK | SCALE : NTS

A3 | DRAWING NO. 123A90-DDL-EL-DD-20091 | SHEET 014 | REV. 02

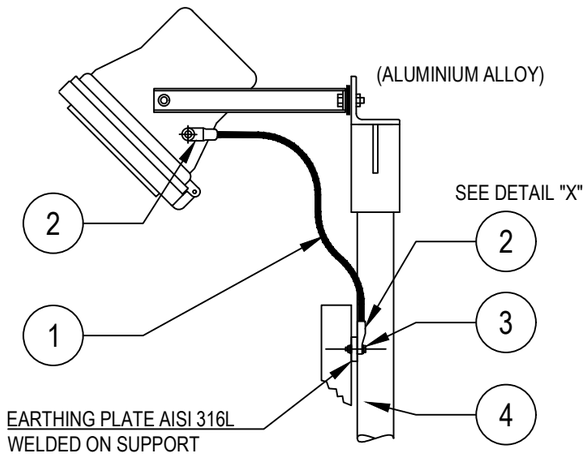
F.to UNI A3: 420mmx297mm

File Name : 123A90-DDL-EL-DD-20091 REV.02.DWG

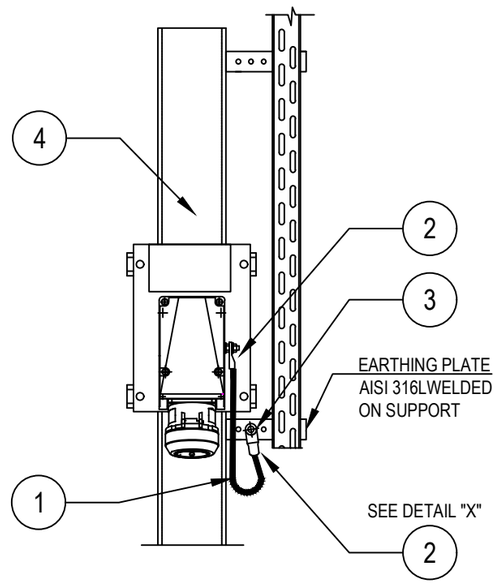
E05

POS.	DESCRIPTION	MATERIAL	SIZE	Q.TY	NOTE
1	Y/G INSULATING COPPER CONDUCTOR	COPPER	$6mm^2$		
2	COMPRESSION TYPE LUG FOR INSULATION COPPER CONDUCTOR	TINNED COPPER	$6mm^2$	2	
3	HEXAG. BOLTS, PLANE WASHERS, SPRING WASHER AND NUT	AISI 316L	M8X30	1	

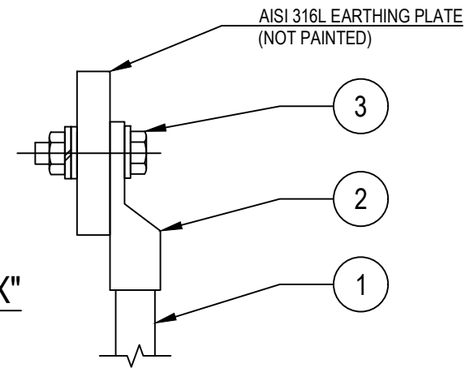
LIGHTING FIXTURE/GENERAL ITEM ON POLE



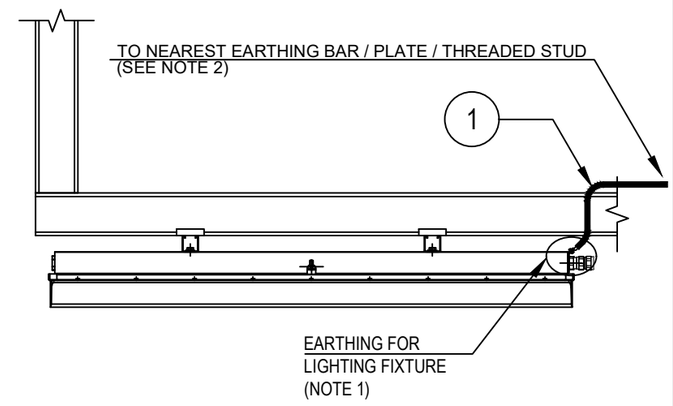
POWER SOCKET OUTLET



DETAIL "X"



LIGHTING FIXTURES



Refer also to TYP. "E32" (SEE SHEET 23)

TYPICAL VALID ALSO FOR NAVAID LIGHTS

NOTES:

1) ALL LIGHTING FIXTURES AND RELEVANT ARMOUR OF THE CABLE, ARE CONNECTED TO EARTH CONNECTION THROUGH THE EARTHING TAG OF THE CABLE GLAND

2) FOR EARTHING POINT USE ONE OF THE FOLLOWING METHODS:
TYP. E03A-D sh. 004 (EARTHING BAR ON STRUCT. UNISTRUT AND CABLE TRAY)
TYP. E11C sh. 003 (EARTHING PLATE)
TYP. E11D sh. 003 (THREADED STUD ON EXTERNAL STRUCTURE)

VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DD-20090**

REV.:	DATE:	SIGNATURE:
2_H	05/11/24	G.Randi

ROSETTI MARINO SpA

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	26/08/24	GRA	AMA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	10/06/24	SPS	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	21/11/23	SPS	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL TYPICAL INSTALLATION DETAILS–EARTHING SYSTEM
EARTHING FOR ELECTRICAL EQUIPMENTS

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK | SCALE : NTS

A3 | DRAWING NO. 123A90-DDL-EL-DD-20090 | SHEET 006 | REV. 02

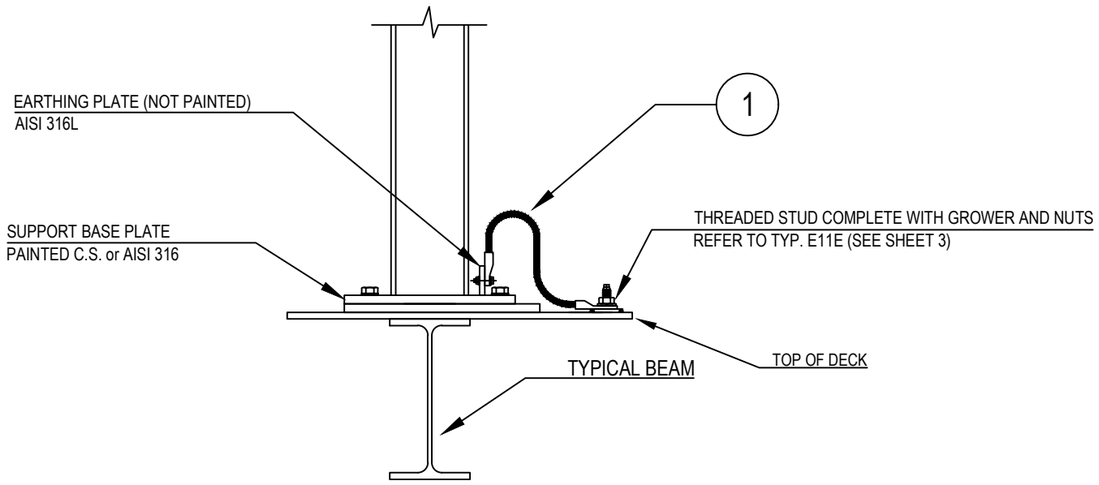
F.to UNI A3: 420mmx297mm

File Name : 123A90-DDL-EL-DD-20090 REV.02.DWG

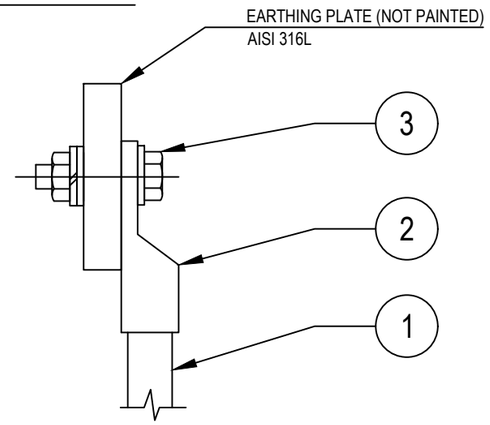
E24

POS.	DESCRIPTION	MATERIAL	SIZE	Q.TY	NOTE
1	As. R. Y/G INSULATING COPPER CONDUCTOR	COPPER	$35mm^2$		
2	COMPRESSION TYPE LUG FOR INSULATION COPPER CONDUCTOR	TINNED COPPER	$35mm^2$	2	~~NOTE 1~~
3	HEXAG. BOLT M10X30 COMPLETE WITH PLANE WASHERS, SPRING WASHER AND NUT	AISI 316L	M10X30	2	

GENERIC SUPPORT BOLTED ON STRUCTURE



DETAIL "X"



NOTES:
1) ~~CABLE LUG CRIMPING METHOD SHALL BE HEXAGONAL COMPRESSION DIES ONLY.~~
2) EXTERNAL EARTHING CONNECTION ONLY SHALL BE PROTECTED AGAINST CORROSION USING OXIDE RESISTANT COMPOUND (E.G. COPPER GREASE)

VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DD-20090**

REV.:	DATE:	SIGNATURE:
2_H	05/11/24	G.Randi

ROSETTI MARINO SpA

CROSSWIND

ROSETTI MARINO

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	26/08/24	GRA	AMA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	10/06/24	SPS	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	21/11/23	SPS	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL TYPICAL INSTALLATION DETAILS–EARTHING SYSTEM
EARTHING FOR POLE/SUPPORT OF GENERIC EQUIPMENTS

CONTRACT NO./TITLE CW–I–WP4–2023–05/HOLLANDSE KUST NOORD WIND PARK | SCALE : NTS

A3	DRAWING NO.	SHEET	REV.
	123A90–DDL–EL–DD–20090	012	02

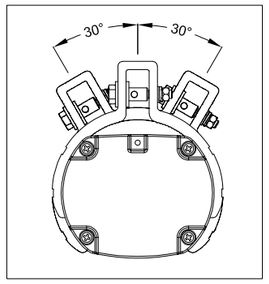
F.to UNI A3: 420mmx297mm

File Name : 123A90-DDL-EL-DD-20090 REV.02.DWG

MODEL C-225 REV.1

GENERAL NOTE:
- PO: 1724001290 DD 26/06/2024
- ITEM.: 1
- Q.TY: 57
- EXTERNAL PAINTING: RAL 7022 (END CAPS)
- INTERNAL PAINTING: NOT PAINTED
- ALL DIMENSIONS ARE IN mm

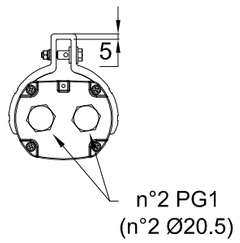
STANDARD FIXING BRACKET
FASTENING WITH 2 THREADED M8
HOLES, ADJUSTABLE FROM 0° TO ±30°



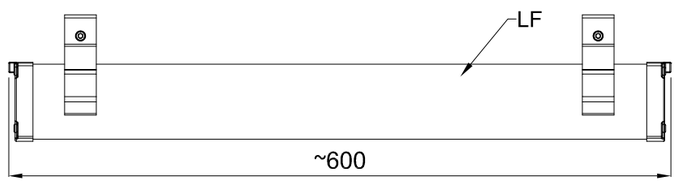
LF INFORMATION	
NOMINAL POWER	45W
CONSUMED POWER	43,5W
POWER FACTOR	>0,93
RATED CURRENT	200 mA
VIEWING ANGLE	120°
COLOUR TEMP.	5000 K
CRI	>80
INSTANT RESTRIKE	YES
LUMEN	6200 lm
LIGHT INTENSITY	2248 cd
EFFICIENCY	143 lm/W
WEIGHT	2,5 Kg
IP PROTECTION	IP66

N°	Q.TY	CODE	DESCRIPTION
LF	1	LIFEX-ME-0645-BB	110-277Vac 50-60Hz 45W LED LINEAR LIGHTING FIXTURE BODY: ALUMINUM ALLOY EXTRUSION AND ALUMINUM END CAPS TRANSPARENT PART: GLASS RESISTANT TO SHOCKS, UV RAYS AND IMPACT RESISTANCE IK09 GASKETS: ACID AND HYDROCARBON RESISTANT SILICONE ASSEMBLY: FASTENING BRACKETS FOR M8 HOLES, ADJUSTABLE 0° TO ±30° MADE IN ANODIZED ALUMINUM CONNECTION: TERMINAL BLOCK ON SIDE (IN) L, N, PE CROSS SEC. MAX. 4mmq SUITABLE FOR LOOP-IN LOOP-OUT SCREWS, BOLTS AND NUTS: STAINLESS STEEL 304
PG1	4	PLG1IB +DL1IB +RDI1IS/A4	IP66 Ex db IIC Gb - Ex eb IIC Gb NICKEL PLATED BRASS PLUG ISO M20x1,5 WITH RELEVANT LOCKNUT AND SERRATED WASHER MADE IN STAINLESS STEEL

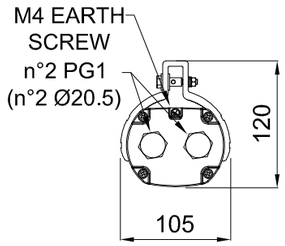
LEFT SIDE (OUT)



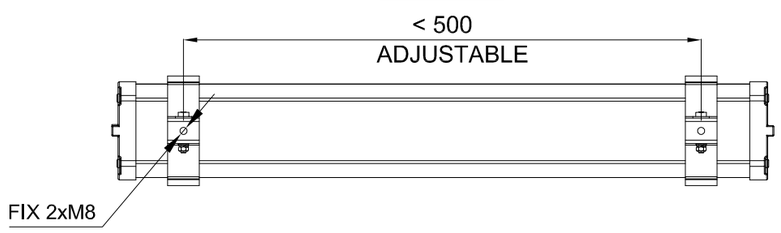
FRONT SIDE



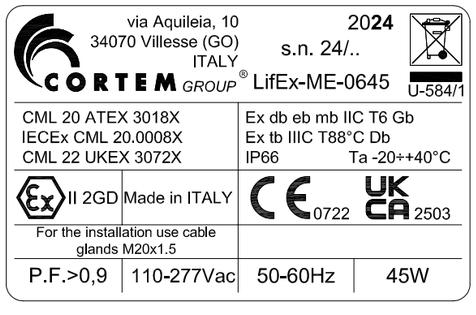
RIGHT SIDE (IN)



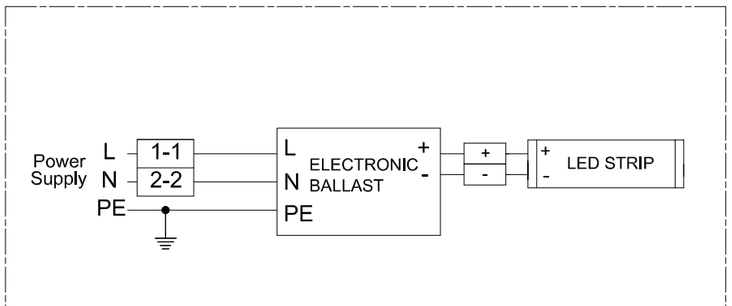
TOP SIDE



CERTIFICATE NAMEPLATE



WIRING DIAGRAM



REV.	DATE	PREP'D	CHK'D	APP'D	DESCRIPTION
2	09/07/2024	FRATTARUOLO	GIUSTI	GRATTON	REISSUED FOR APPROVAL
1	05/07/2024	FRATTARUOLO	GIUSTI	GRATTON	REISSUED FOR APPROVAL
0	28/06/2024	FRATTARUOLO	GIUSTI	GRATTON	ISSUED FOR APPROVAL

DRAWING TITLE: ROSETTI MARINO S.P.A.

CORTEM S.p.a.
GENERAL LAYOUT
001 LIFEX-ME-0645-BB/C2402693/10.

CORTEM JOB: COV2402693
DRAWING SCALE: /
DRAWING NUMBER: A3-C 27521
SHEET: 1
NEXT: 2
TOT.: 2

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AND IT CANNOT BE REPRODUCED WITHOUT CORTEM'S
AUTHORIZATION

Smart Professional R. 2012

Row	Data Sheet for Lighting Fixtures & Accessories				Rev.
1	42W LED Linear Luminaire-Normal Lighting-Safe Area				
2	Item	Required	Manufacturer Proposal	Comments	
3	Model Number	by vendor	LIFEX-ME-0645-BB		01
4	Serial Number	by vendor			00
5	Quantity	29 Nos.		(20+9 Spare)	01
6	Location / Module	Lower deck			01
7	**LED Lamp**				
8	Nominal power	42 watts	45 watts		01
9	No. of linear	1	1		01
10	Luminous flux	5810 lm	6200 lm		01
11	Colour Temperature	5000 K	5000 K		01
12	**Protection**				
13	Hazardous Area Certification (Ex)	Safe area	Ex II 2GD Ex db eb mb IIC Gb Ex tb IIIC Db		01
14	Degree of Protection (IP)	IP 56	IP 66		01
15	ATEX certified	Not required	ATEX CML 20 ATEX 3018X	Will be used ATEX even in safe area	01
16	**Material**				
17	Body	GRP/Aluminium alloy	Aluminium alloy		01
18	Reflector	GRP/Aluminium	Aluminium		01
19	Diffuser	Polycarbonate/temperate glass	Tempered glass		01
20	**Cable Entry**				
21	No. of cable entry	4 Nos.	4 Entries, 2 per side		01
22	Size	M20	Ø20.5mm		01
23	**Emergency Battery Pack**				
24	Requirement	Not required			00
25	Battery type	Not required			00
26	Autonomy	Not required			00
27	Emergency luminous flux	Not required			00
28	**Mechanical parameters**				
29	Dimension	by vendor	600x105x120(mm)		01
30	Weight	by vendor	2.5kg		01

Note:

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Its distribution is electronically controlled. Once printed shall be considered as "NOT CONTROLLED" copy

ITEM	Tag	ELF-200N1-02-L1-03	: NORMAL LIGHT			Dwg	123A90-DDL-EL-DL-20118
	S/Sys	83-40	: Normal Lighting Upper Deck			Module	UD
TASK	code	C10001361		Location	Onshore Activities	User	Rosetti Marino Quality Control
FORM	Process	MC	Activity CCK	Discipline	Electrical	Form	CPX00 Miscellaneous Electrical Equipment

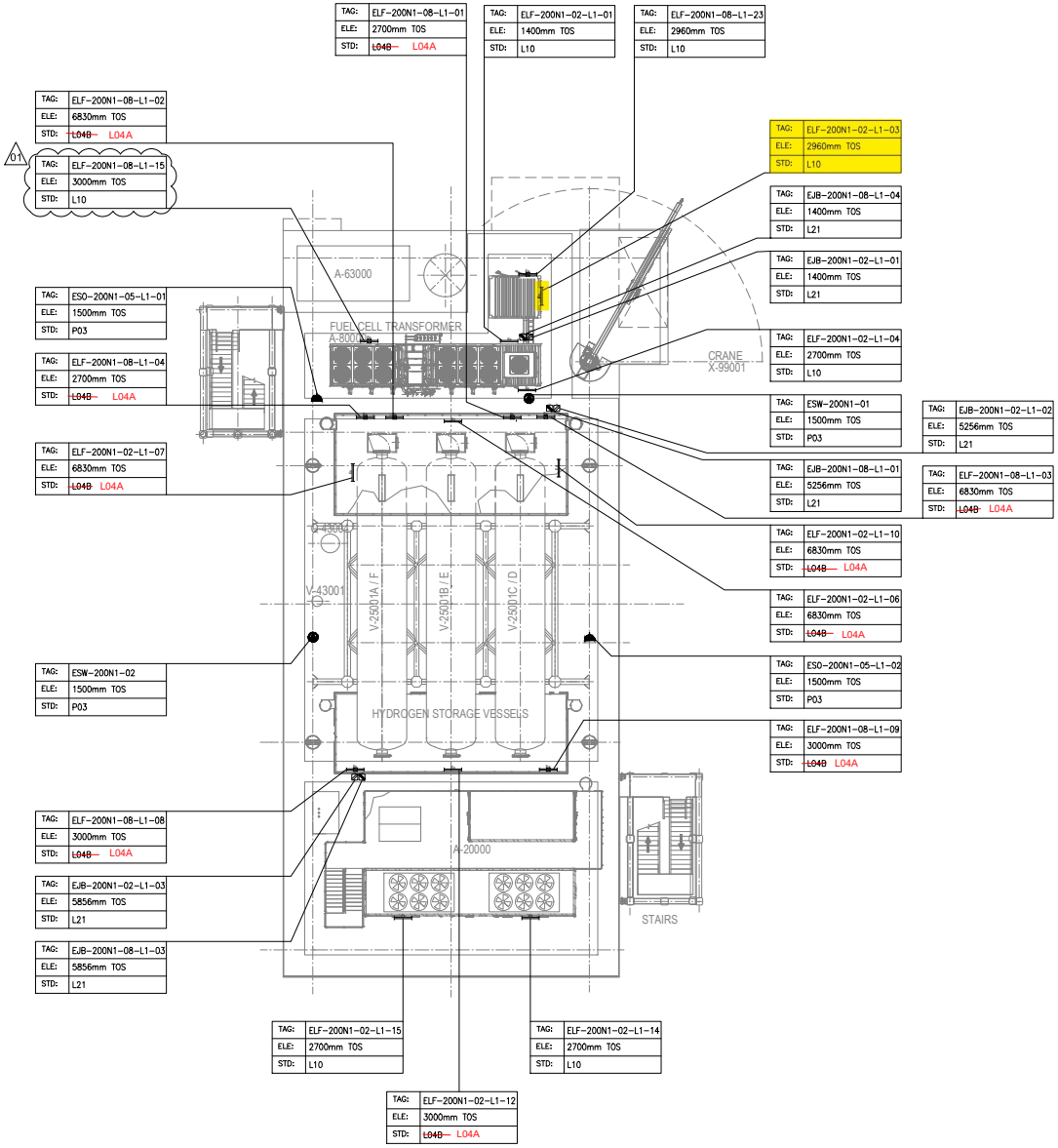
1	Check circuit is de-energized and safe.	OK
2	Check equipment is installed in accordance with layout drawing.	OK
3	Check equipment is undamaged and correcly tagged.	PL
4	Check nameplate data is correct.	OK
5	Check all bolts are fitted and all unused entries are suitably plugged.	OK
6	Check terminals for proper size and installation crimps	OK
7	Check earthing and bonding against drawings.	OK
8	Check items are properly fixed on support.	PL
9	If required produce Red Line Mark Up for "AS BUILT"	

Comments:

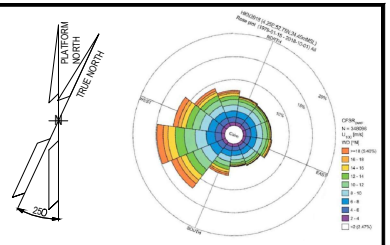
	Performed by	● WITNESS ☐ REVIEW	☐ WITNESS ☐ REVIEW
Company	ICS IMPIANTI	RM(ROSETTI MARINO)	
Name	Michele Tartaglia	Alessio Polo	
Date	2025-01-08	2025-01-10	
Signature	PROVERLIS Digitaly signed by Michele Tartaglia 2025-01-08T09:58:39.961Z	PROVERLIS Digitaly signed by Alessio Polo 2025-01-10T17:10:49.539Z	

DRAWING NO. 123A90-DDL-EL-DL-20118

REV. 01



PLAN ON UPPER DECK
EL+30.310 T.O.S.



NOTES

1. ALL DIMENSIONS AND ELEVATIONS ARE GIVEN IN mm UNLESS OTHERWISE NOTED.
2. ELEVATIONS REFER TO T.O.S.
3. ELEVATION OF THE LAMPS ARE REFFERED TO THE BOTTOM OF THE LAMP.
4. FOR THE ELEVATION OF JB, REFER TO THE TYPICAL INSTALLATION.

LEGEND

- EMERGENCY LIGHTING JB
- 60W LED EMERGENCY LUMINARIES
- 60W LED EMERGENCY LUMINARIES FIXTURE POLE MOUNTED
- NORMAL LIGHTING JB
- 45W LED NORMAL LUMINARIES
- 45W LED NORMAL LUMINARIES FIXTURE POLE MOUNTED
- WELDING SOCKET WITH INTEGRATED JB
- SMALL POWER SOCKET WITH INTEGRATED JB

JB TAG:	JB-TAG
TAG:	TAG
ELE:	ELEVATION
STD:	STANDARD

REFERENCE DOCUMENTS

123A90-DDL-PP-DL-70070	PLOT PLAN - LOWER & UPPER DECK
123A90-DDL-EL-DL-20100	ELECTRICAL EQUIPMENT LAYOUT - TOP DECK
123A90-DDL-EL-DD-20091	ELECTRICAL TYPICAL INSTALLATION DETAILS - LIGHTING SYSTEM
123A90-DDL-EL-DD-20092	ELECTRICAL TYPICAL INSTALLATION DETAILS - POWER SYSTEM & CABLE INSTALLATION
123A90-DDL-EL-RE-20153	LIGHTING CALCULATION STUDY REPORT
123A90-DDL-ST-DD-90076	IDENTIFICATION PANELS ASSEMBLY AND DETAILS

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	02/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	28/05/24	ASR	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DL-20118**

REV.:	DATE:	SIGNATURE:
1_F	26/11/24	G.Randi

ROSETTI MARINO SpA

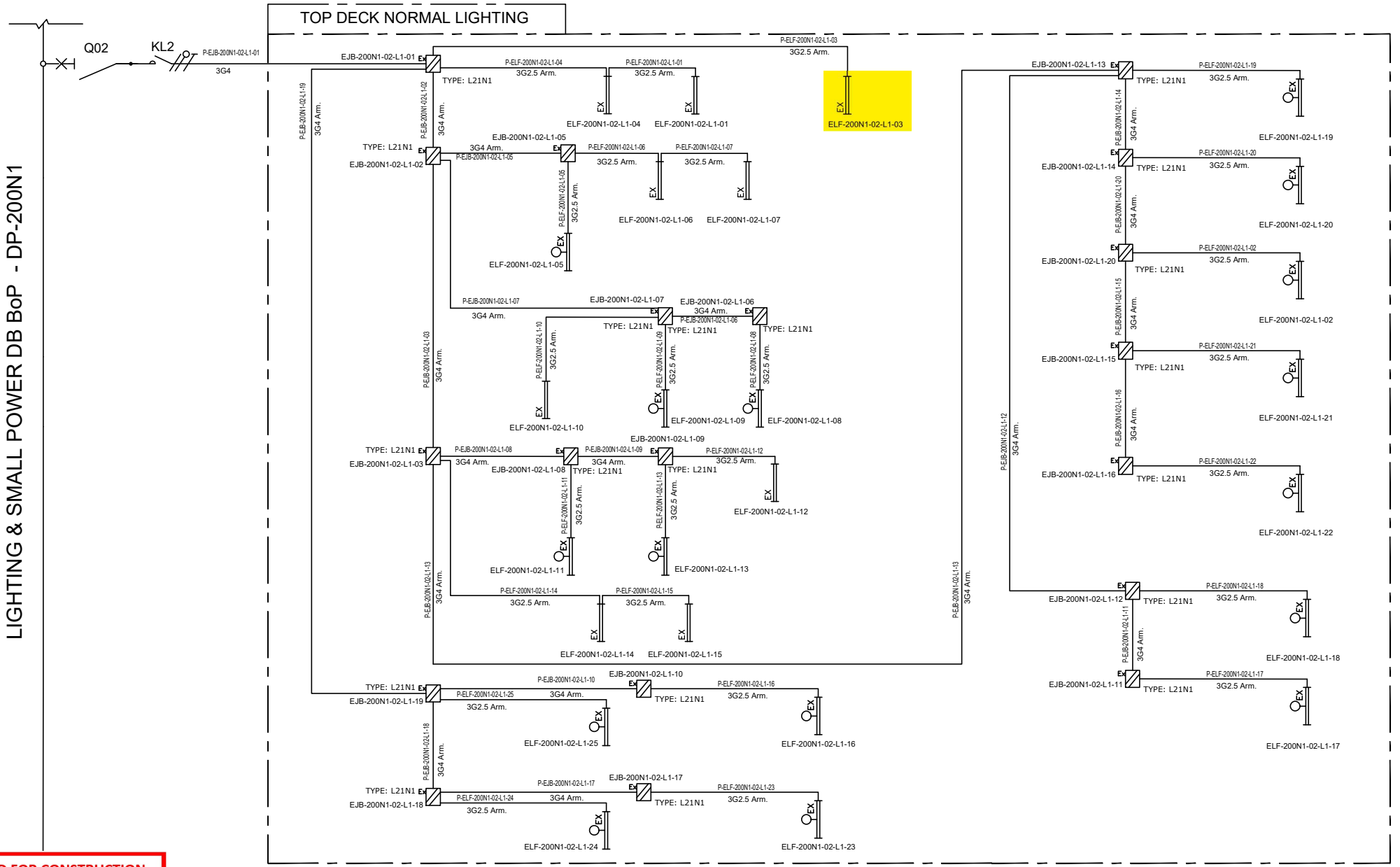
CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET LAYOUT – TOP DECK

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK			SCALE 1:150
DRAWN ASR	CHECKED FMA/AMA	APPROVED FPA/DLO	DATE 01/08/24
A1	DRAWING NO. 123A90-DDL-EL-DL-20118	SHEET 2of2	REV. 01

File Name : 123A90-DDL-EL-DL-20118



VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DG-20125**

REV.:	DATE:	SIGNATURE:
2_C	20/12/24	V.Ramponi

ROSETTI MARINO SpA

CROSSWIND

ROSETTI MARINO

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	08/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	01/07/24	ASR	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

TITLE : BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET CIRCUIT DIAGRAM
TOP DECK–NORMAL LIGHTING

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

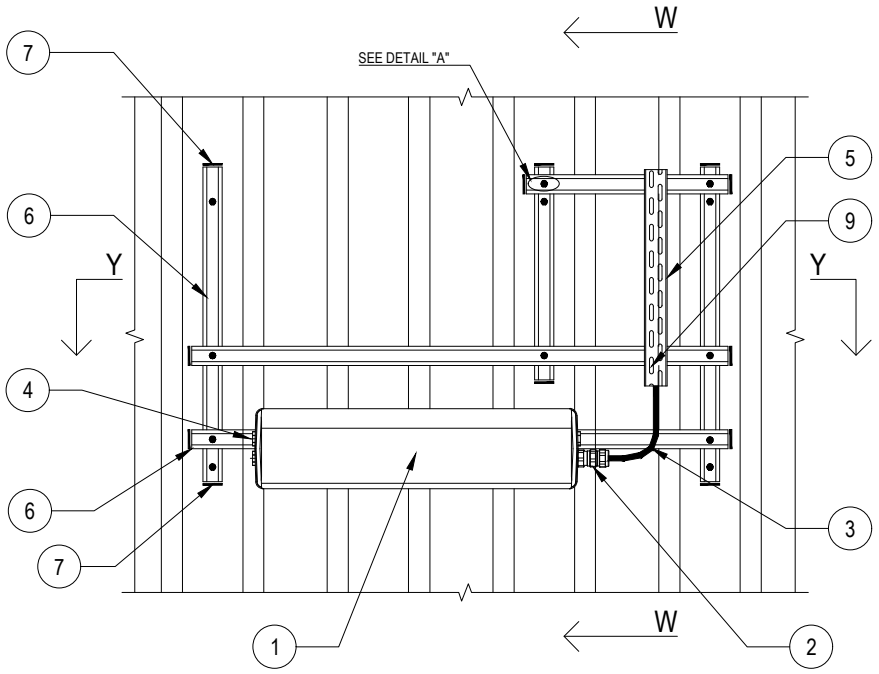
SCALE : NTS

A3	DRAWING NO.	SHEET	REV.
	123A90–DDL–EL–DG–20125	010	01

F.to UNI A3: 420mmx297mm

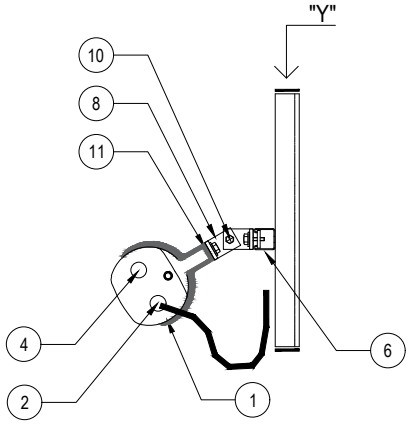
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L10

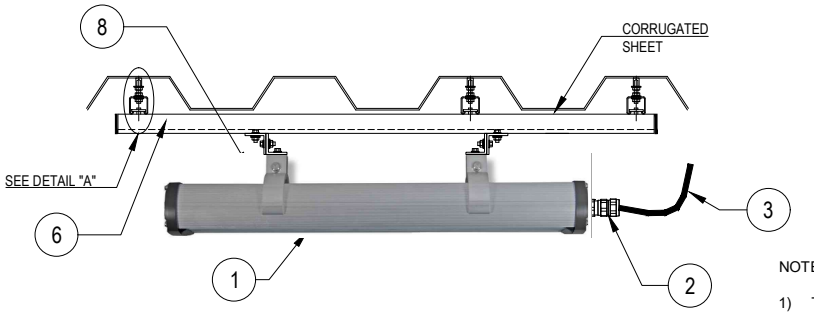


02

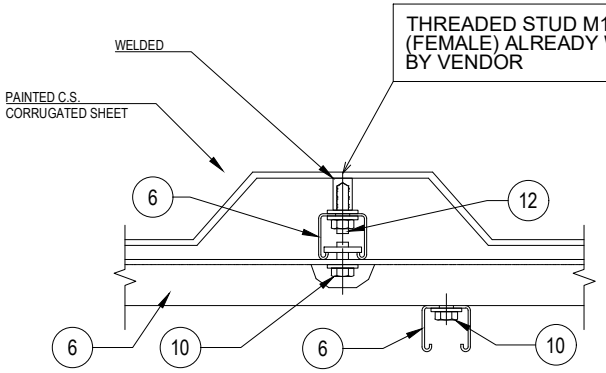
POS.	DESCRIPTION	MATERIAL	SIZE	Q.TY	NOTE
1	LIGHITNG FIXTURE (Ex) WITH LED LAMP	ALUMINIUM ALLOY		1	
2	CABLE GLAND (Ex) FOR ARMOURED/UNARMOURED CABLE	NICK.PL.BRASS		AS REQ.	NOTE 2 NOTE 4
3	ARMOURED/UNARMOURED CABLE				NOTE 4
4	PLUG	NICK.PL.BRASS		AS REQ.	NOTE 3
5	CABLE TRAY	AISI 316L			
6	SINGLE U-CHANNEL PERFORATED ON NO.3 SIDE	AISI 316L	41x41x2		NOTE 1
7	PLUG FOR U-CHANNEL	LPDE		AS REQ.	
8	ANGLE PLATE FOR ORTOGONAL-TRASV. CONNECTION WITH NO. 2 HOLES FOR UNISTRUT PROFILE 41x41x2X2	AISI 316L		4	
9	DOUBLE SLOT CROWNED HEAD SCREW WITH NUT FOR CHANNEL WITH SPRING	AISI 316L	M6x20		
10	HEX. BOLT WITH PLANE WASHERS, SPRING WASHER AND NUT	AISI 316L	M10x30	4	
11	HEX. BOLT WITH PLANE WASHER	AISI 316L	M8x16	2	
12	THREADED ROD COMPLETE WITH PLANE WASHER, LARGE PLANE WASHERS, SPRING WASHER AND NUTS	AISI 316L	M10x110		



SECTION "W-W"



SECTION "Y-Y"



DETAIL "A"

NOTES:

1) THE EXACT DIMENSIONS WILL BE DEFINED DURING ASSEMBLY PHASE.
2) CABLE GLAND COMPLETE WITH LOCKNUT, NYLON WASHER, SERRATED WASHER, EXTERNAL RUBBER RING AND EARTH TAG (IF NECESSARY).
3) UNUSED CABLE ENTRIES MUST BE CLOSED WITH NICKEL PLATED BRASS PLUG.
4) FOR LAMPS IN HAZARDOUS AREA, USE ARMOURED CABLE, DOUBLE SEAL CABLE GLAND AND EX JUNCTION BOX.

VALID FOR CONSTRUCTION

REV.:	DATE:	SIGNATURE:
2_B	12/12/24	C.Pilato

ROSETTI MARINO SpA

CROSSWIND

ROSETTI MARINO

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	30/09/24	GRA	AMA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	04/07/24	NLK	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	21/11/23	SPS	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL TYPICAL INSTALLATION DETAILS-LIGHTING SYSTEM
LIGHTING FIXTURE MOUNTED ON WALL WITH U-CHANNEL

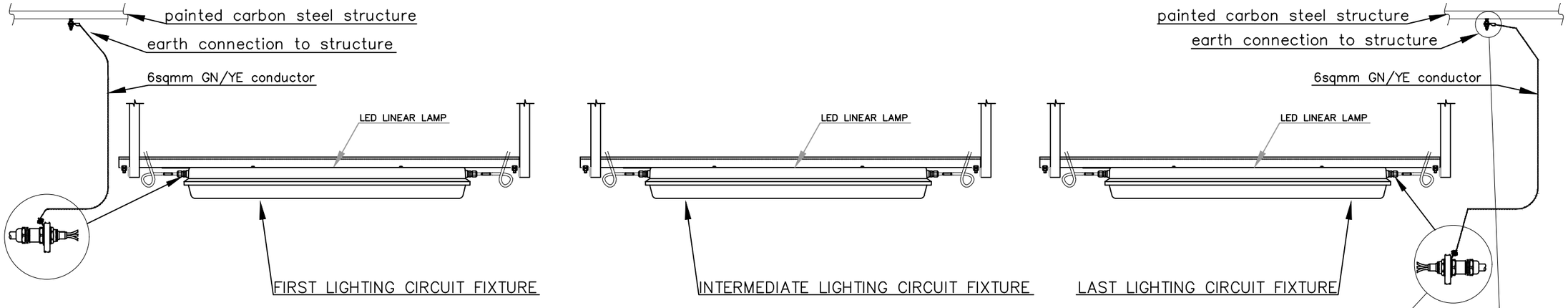
CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK | SCALE : NTS

A3 | DRAWING NO. 123A90-DDL-EL-DD-20091 | SHEET 012 | REV. 02

F.to UNI A3: 420mmx297mm

File Name : 123A90-DDL-EL-DD-20091 REV.02.DWG

E32

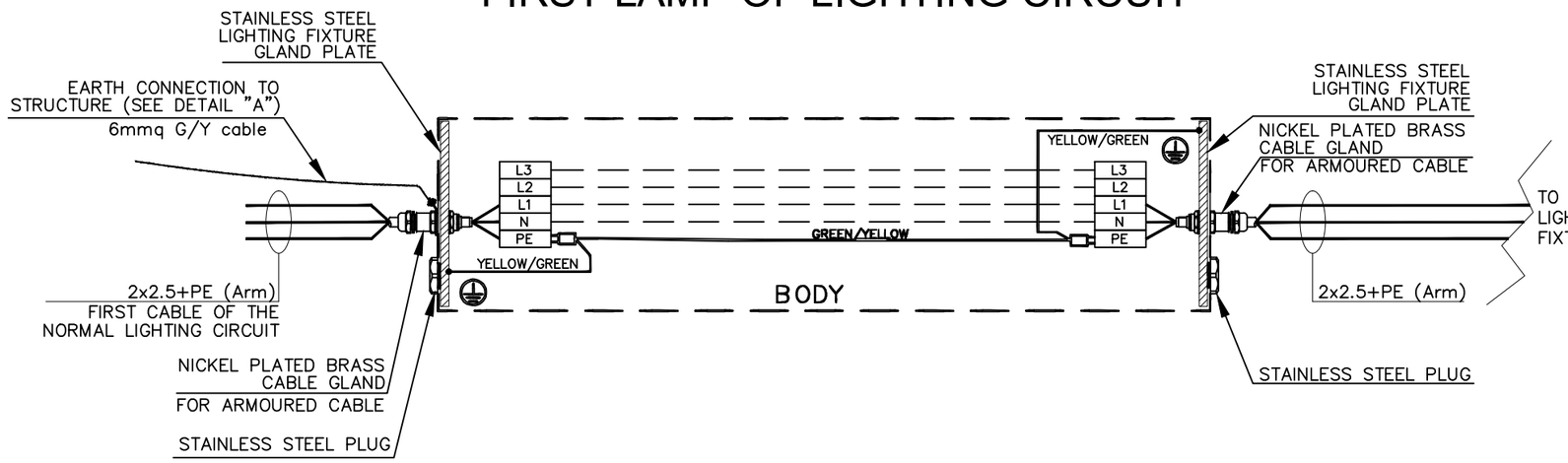


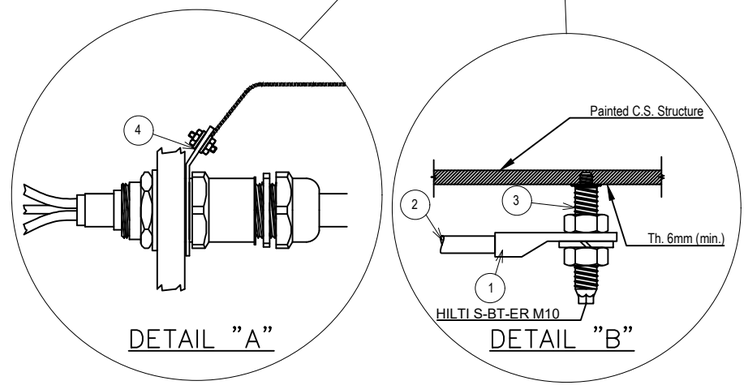
ONLY the first and the last lighting fixture of all circuits are connected to earthing system. The earthing continuity of the intermediate lighting fixtures of the circuits is guaranteed by the using of the first and the last lighting fixture earthing connection which is permanently connected to the earthing system as per the typical below.

Refer also to TYP. "E05" for Lighting Fixtures.

NORMAL LIGHTING CIRCUIT EARTHING CONTINUITY TYPICAL

FIRST LAMP OF LIGHTING CIRCUIT





POS.	DESCRIPTION	MATERIAL	SIZE	Q.TY	NOTE
1	COMPRESSION TYPE LUG FOR INSULATION COPPER CONDUCTOR	TINNED COPPER			
2	Y/G INSULATING COPPER CONDUCTOR		6sqmm	ASR	
3	HILTI S-BT-ER M10/15 SN6 C/W NUTS AND GROWER	AISI 316L	M10X28		NOTE 1
4	CABLE GLAND EARTH TAG	NPB	M20		

The same logic is used for the earthing continuity of Emergency Lighting Circuits. The above typical has been done to represent the Earthing Continuity of G/Y conductors, the correct connections of all conductors in the respective Terminal Strips are shown in doc. AR-FEN-10-ROEC-600132 Lighting and Socket Circuit Diagrams.

NOTES:
1) HILTI S-BT-ER M10/15 SN6 CERTIFIED FOR EARTHING SYSTEM FOR SINGLE EQUIPMENTS EARTHING CONNECTION.

VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DD-20090**

REV.:	DATE:	SIGNATURE:
2_H	05/11/24	G.Randi

ROSETTI MARINO SpA

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	26/08/24	GRA	AMA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	10/06/24	SPS	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	21/11/23	SPS	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL TYPICAL INSTALLATION DETAILS–EARTHING SYSTEM
EARTHING – OUTDOOR LINEAR LIGHTING FIXTURE

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK | SCALE : NTS

A3 | DRAWING NO. 123A90-DDL-EL-DD-20090 | SHEET 023 | REV. 02

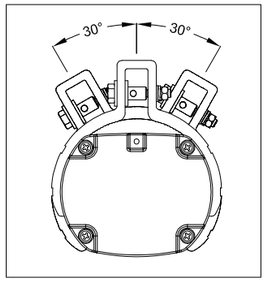
F.to UNI A3: 420mmx297mm

File Name : 123A90-DDL-EL-DD-20090 REV.02.DWG

MODEL C-225 REV.1

GENERAL NOTE:
- PO: 1724001290 DD 26/06/2024
- ITEM.: 1
- Q.TY: 57
- EXTERNAL PAINTING: RAL 7022 (END CAPS)
- INTERNAL PAINTING: NOT PAINTED
- ALL DIMENSIONS ARE IN mm

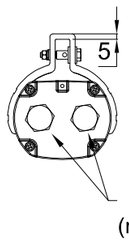
STANDARD FIXING BRACKET
FASTENING WITH 2 THREADED M8
HOLES, ADJUSTABLE FROM 0° TO ±30°



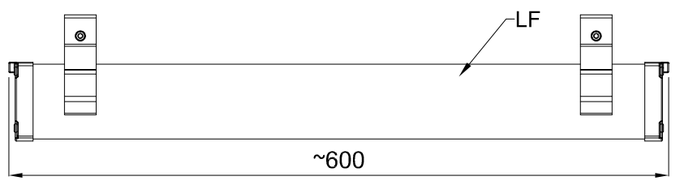
LF INFORMATION	
NOMINAL POWER	45W
CONSUMED POWER	43,5W
POWER FACTOR	>0,93
RATED CURRENT	200 mA
VIEWING ANGLE	120°
COLOUR TEMP.	5000 K
CRI	>80
INSTANT RESTRIKE	YES
LUMEN	6200 lm
LIGHT INTENSITY	2248 cd
EFFICIENCY	143 lm/W
WEIGHT	2,5 Kg
IP PROTECTION	IP66

N°	Q.TY	CODE	DESCRIPTION
LF	1	LIFEX-ME-0645-BB	110-277Vac 50-60Hz 45W LED LINEAR LIGHTING FIXTURE BODY: ALUMINUM ALLOY EXTRUSION AND ALUMINUM END CAPS TRANSPARENT PART: GLASS RESISTANT TO SHOCKS, UV RAYS AND IMPACT RESISTANCE IK09 GASKETS: ACID AND HYDROCARBON RESISTANT SILICONE ASSEMBLY: FASTENING BRACKETS FOR M8 HOLES, ADJUSTABLE 0° TO ±30° MADE IN ANODIZED ALUMINUM CONNECTION: TERMINAL BLOCK ON SIDE (IN) L, N, PE CROSS SEC. MAX. 4mmq SUITABLE FOR LOOP-IN LOOP-OUT SCREWS, BOLTS AND NUTS: STAINLESS STEEL 304
PG1	4	PLG1IB +DL1IB +RDI1IS/A4	IP66 Ex db IIC Gb - Ex eb IIC Gb NICKEL PLATED BRASS PLUG ISO M20x1,5 WITH RELEVANT LOCKNUT AND SERRATED WASHER MADE IN STAINLESS STEEL

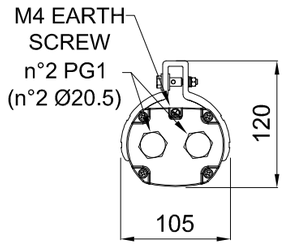
LEFT SIDE (OUT)



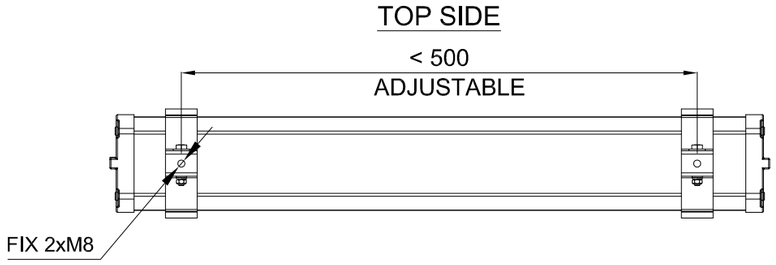
FRONT SIDE



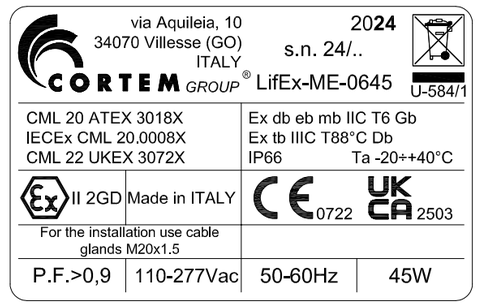
RIGHT SIDE (IN)



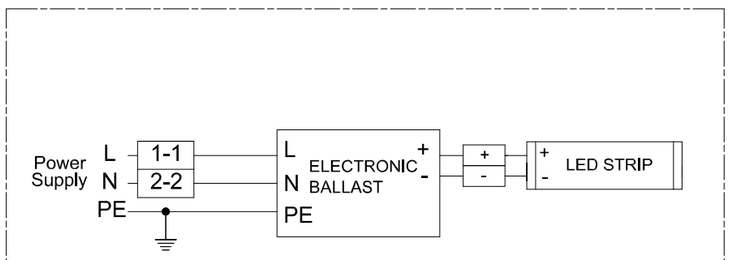
TOP SIDE



CERTIFICATE NAMEPLATE



WIRING DIAGRAM



REV.	DATE	PREP'D	CHK'D	APP'D	DESCRIPTION
2	09/07/2024	FRATTARUOLO	GIUSTI	GRATTON	REISSUED FOR APPROVAL
1	05/07/2024	FRATTARUOLO	GIUSTI	GRATTON	REISSUED FOR APPROVAL
0	28/06/2024	FRATTARUOLO	GIUSTI	GRATTON	ISSUED FOR APPROVAL

DRAWING TITLE: ROSETTI MARINO S.P.A.

CORTEM S.p.a.
GENERAL LAYOUT
001 LIFEX-ME-0645-BB/C2402693/10.

CORTEM JOB: COV2402693
DRAWING SCALE: /
DRAWING NUMBER: A3-C 27521
SHEET: 1
NEXT: 2
TOT.: 2

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AND IT CANNOT BE REPRODUCED WITHOUT CORTEM'S AUTHORIZATION

Smart Professional R. 2012

Row	Data Sheet for Lighting Fixtures & Accessories				Rev.
1	42W LED Linear Luminaire-Normal Lighting-Safe Area				
2	Item	Required	Manufacturer Proposal	Comments	
3	Model Number	by vendor	LIFEX-ME-0645-BB		01
4	Serial Number	by vendor			00
5	Quantity	29 Nos.		(20+9 Spare)	01
6	Location / Module	Lower deck			01
7	**LED Lamp**				
8	Nominal power	42 watts	45 watts		01
9	No. of linear	1	1		01
10	Luminous flux	5810 lm	6200 lm		01
11	Colour Temperature	5000 K	5000 K		01
12	**Protection**				
13	Hazardous Area Certification (Ex)	Safe area	Ex II 2GD Ex db eb mb IIC Gb Ex tb IIIC Db		01
14	Degree of Protection (IP)	IP 56	IP 66		01
15	ATEX certified	Not required	ATEX CML 20 ATEX 3018X	Will be used ATEX even in safe area	01
16	**Material**				
17	Body	GRP/Aluminium alloy	Aluminium alloy		01
18	Reflector	GRP/Aluminium	Aluminium		01
19	Diffuser	Polycarbonate/temperate glass	Tempered glass		01
20	**Cable Entry**				
21	No. of cable entry	4 Nos.	4 Entries, 2 per side		01
22	Size	M20	Ø20.5mm		01
23	**Emergency Battery Pack**				
24	Requirement	Not required			00
25	Battery type	Not required			00
26	Autonomy	Not required			00
27	Emergency luminous flux	Not required			00
28	**Mechanical parameters**				
29	Dimension	by vendor	600x105x120(mm)		01
30	Weight	by vendor	2.5kg		01

Note:

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Its distribution is electronically controlled. Once printed shall be considered as "NOT CONTROLLED" copy

ITEM	Tag	EJB-200N1-02-L1-10	: JB - NORMAL LIGHTING			Dwg	123A90-DDL-EL-DL-20118
	S/Sys	83-40	: Normal Lighting Upper Deck			Module	UD
TASK	code	C10001630		Location	Onshore Activities	User	Rosetti Marino Quality Control
FORM	Process	MC	Activity CCK	Discipline	Electrical	Form	CPX31 Junction and Marshalling Box

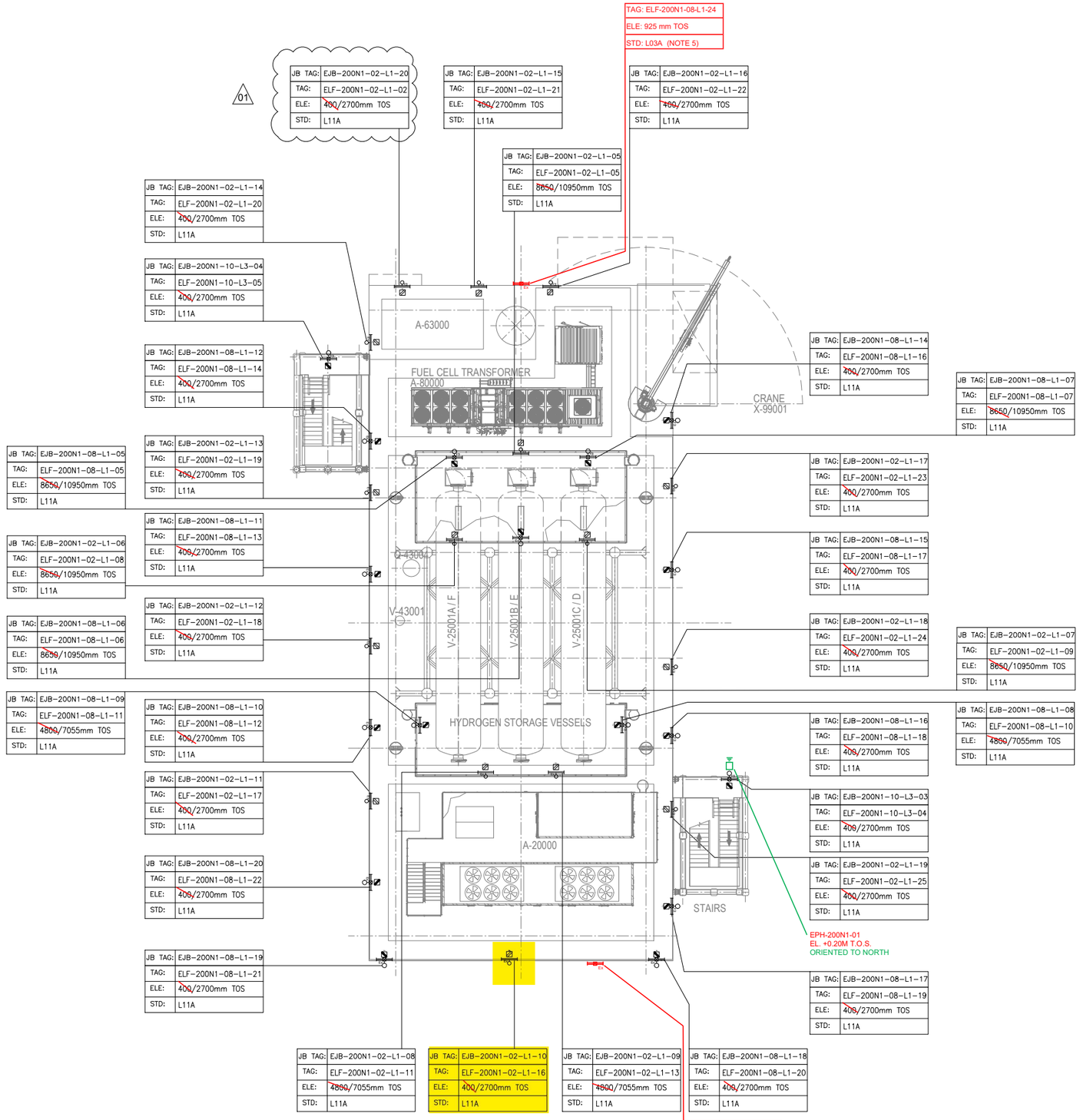
1	Check box is de-energized and safe.	OK
2	Check box is correctly mounted and easily accessible.	OK
3	Check box tagging against drawing.	OK
4	Check nameplate data is correct.	OK
5	Check flameproof joints are clean and greased with approved lubricants (if required).	NA
6	Check for damaging gaskets.	OK
7	Check all bolts are fitted and correcly tighted .	OK
8	Check all unused entries are suitably plugged.	OK
9	Check earthing and bonding against drawings.	OK
10	Check terminal blocks segregation barriers are fitted where necessary.	NA
11	If required produce Red Line Mark Up for "AS BUILT"	

Comments:

	Performed by	● WITNESS ☐ REVIEW	☐ WITNESS ☐ REVIEW
Company	ICS IMPIANTI	RM(ROSETTI MARINO)	
Name	Michele Tartaglia	Giovanni Tangianu	
Date	2025-01-08	2025-01-09	
Signature	PROVERLIS Digitaly signed by Michele Tartaglia 2025-01-08T10:01:51.702Z	PROVERLIS Digitaly signed by Giovanni Tangianu 2025-01-09T10:52:21.722Z	

DRAWING NO. 123A90-DDL-EL-DL-20118

REV. 01



PLAN ON UPPER DECK
EL+30.310 T.O.S.

NOTES

1. ALL DIMENSIONS AND ELEVATIONS ARE GIVEN IN mm UNLESS OTHERWISE NOTED.
2. ELEVATIONS REFER TO T.O.S.
3. ELEVATION OF THE LAMPS ARE REFFERED TO THE BOTTOM OF THE LAMP.
4. FOR THE ELEVATION OF JB, REFER TO THE TYPICAL INSTALLATION.
5. FOR ELF-200N1-08-L1-24 AND ELF-200N1-08-L1-25 CONSTRUCTION DETAILS REFER TO DOC. 123A90-DDL-ST-DD-90076

LEGEND

- EMERGENCY LIGHTING JB
- 60W LED EMERGENCY LUMINARIES
- 60W LED EMERGENCY LUMINARIES FIXTURE POLE MOUNTED
- NORMAL LIGHTING JB
- 45W LED NORMAL LUMINARIES
- 45W LED NORMAL LUMINARIES FIXTURE POLE MOUNTED
- WELDING SOCKET WITH INTEGRATED JB
- SMALL POWER SOCKET WITH INTEGRATED JB
- TWILIGHT RELAY SENSOR

JB TAG: — JB-TAG
TAG: — TAG
ELE: — ELEVATION
STD: — STANDARD

REFERENCE DOCUMENTS

123A90-DDL-PP-DL-70070	PLOT PLAN - LOWER & UPPER DECK
123A90-DDL-EL-DL-20100	ELECTRICAL EQUIPMENT LAYOUT - TOP DECK
123A90-DDL-EL-DD-20091	ELECTRICAL TYPICAL INSTALLATION DETAILS - LIGHTING SYSTEM
123A90-DDL-EL-DD-20092	ELECTRICAL TYPICAL INSTALLATION DETAILS - POWER SYSTEM & CABLE INSTALLATION
123A90-DDL-EL-RE-20153	LIGHTING CALCULATION STUDY REPORT
123A90-DDL-ST-DD-90076	IDENTIFICATION PANELS ASSEMBLY AND DETAILS

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	02/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	28/05/24	ASR	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DL-20118**

REV.:	DATE:	SIGNATURE:
1_F	26/11/24	G.Randi

ROSETTI MARINO SpA

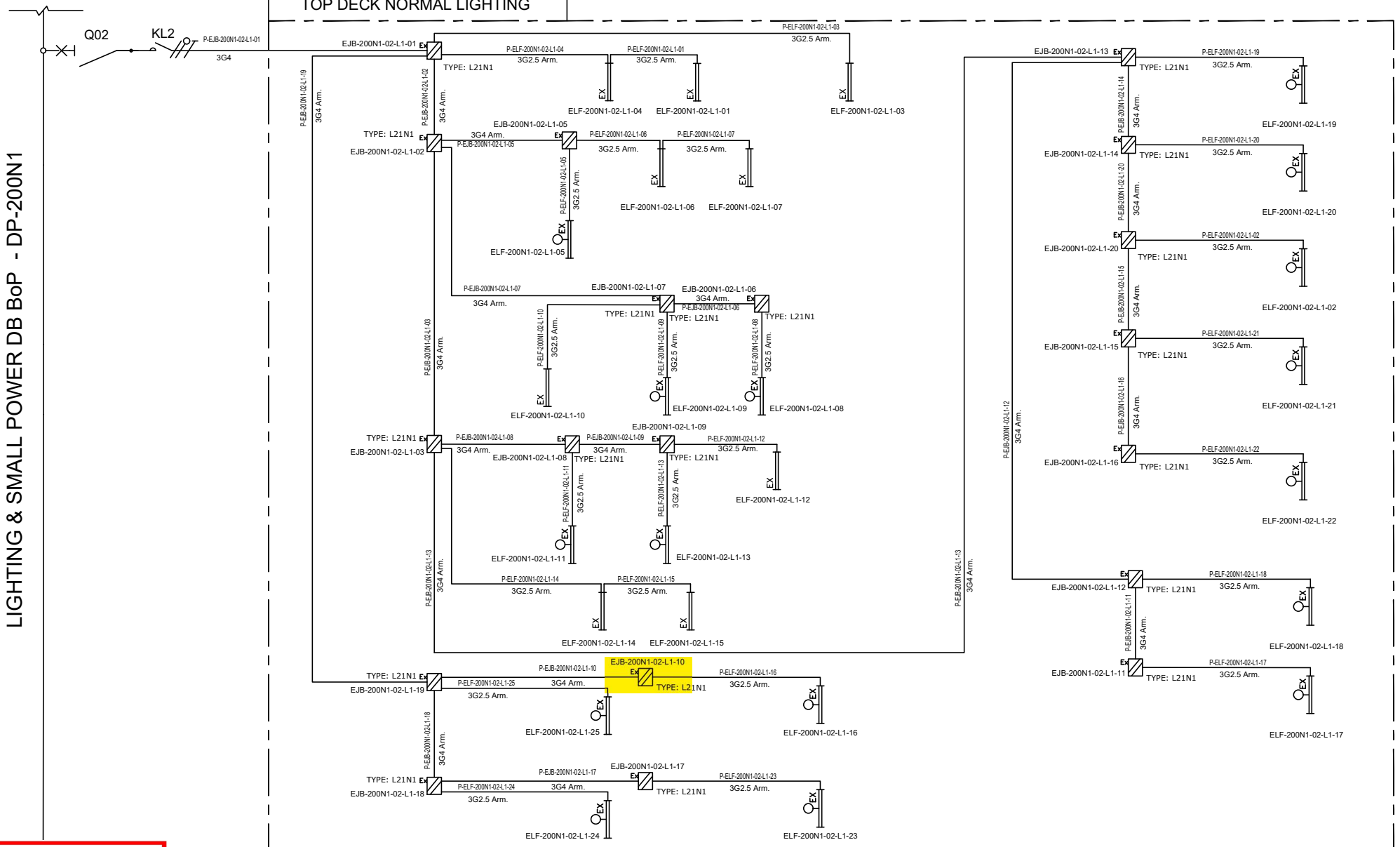
CROSSWIND | ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET LAYOUT – TOP DECK

CONTRACT NO./TITLE CW-1-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK			SCALE 1:150
DRAWN ASR	CHECKED FMA/AMA	APPROVED FPA/DLO	DATE 01/08/24
A1	DRAWING NO. 123A90-DDL-EL-DL-20118	SHEET 1of2	REV. 01

File Name : 123A90-DDL-EL-DL-20118

LIGHTING & SMALL POWER DB BoP - DP-200N1



VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DG-20125**

REV.:	DATE:	SIGNATURE:
2_C	20/12/24	V.Ramponi

ROSETTI MARINO SpA

CROSSWIND

ROSETTI MARINO

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	08/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	01/07/24	ASR	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

TITLE : BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET CIRCUIT DIAGRAM
TOP DECK–NORMAL LIGHTING

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE : NTS

A3	DRAWING NO.	SHEET	REV.
	123A90–DDL–EL–DG–20125	010	01

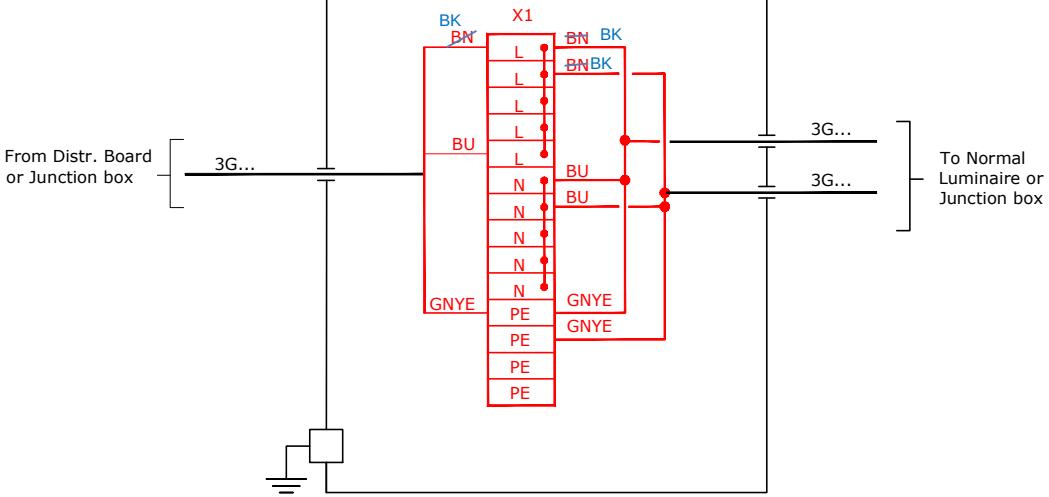
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TYPE : L21N1 & L21N2

ITEM: NORMAL LIGHTING JUNCTION BOX

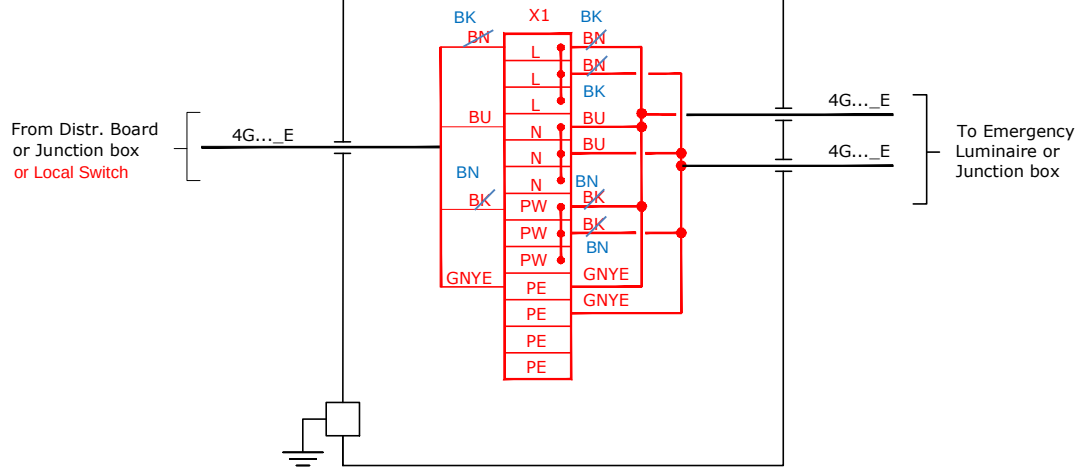
TAG : Typical



TYPE : L21E1 & L21E2

ITEM: EMERGENCY LIGHTING JUNCTION BOX

TAG : Typical



VALID FOR CONSTRUCTION

FDL DWG: **123A90-FDL-EL-DG-20125**

REV.:	DATE:	SIGNATURE:
2_C	20/12/24	V.Ramponi

ROSETTI MARINO SpA

CROSSWIND

ROSETTI MARINO

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	08/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)

TITLE : BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET CIRCUIT DIAGRAM
TYPICAL JB INTERCONNECTING DIAGRAM

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE : NTS

A3

DRAWING NO. 123A90-DDL-EL-DG-20125

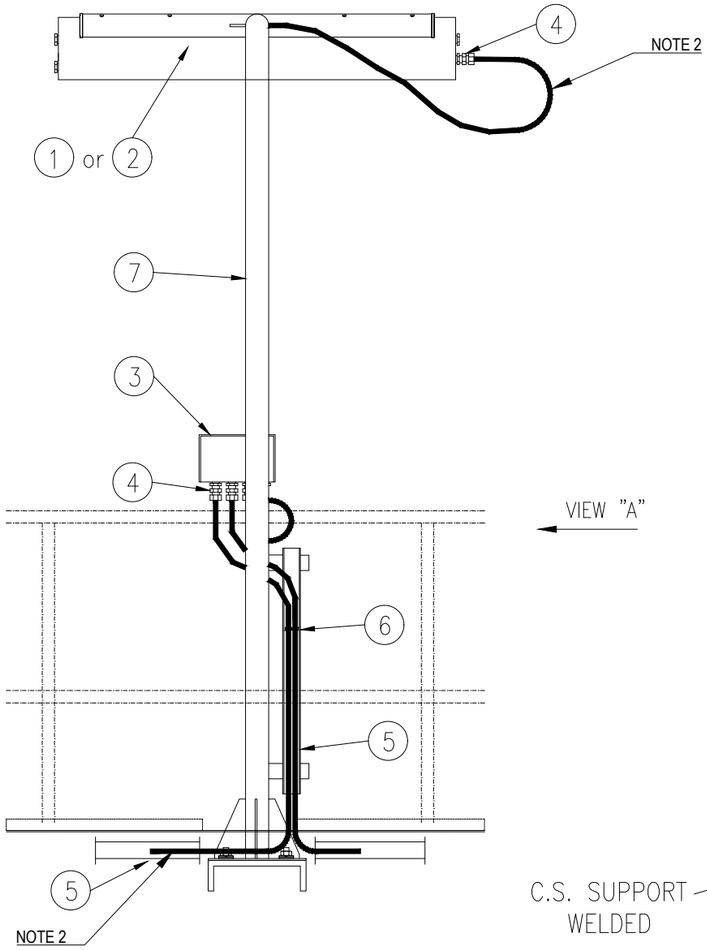
SHEET 016

REV. 01

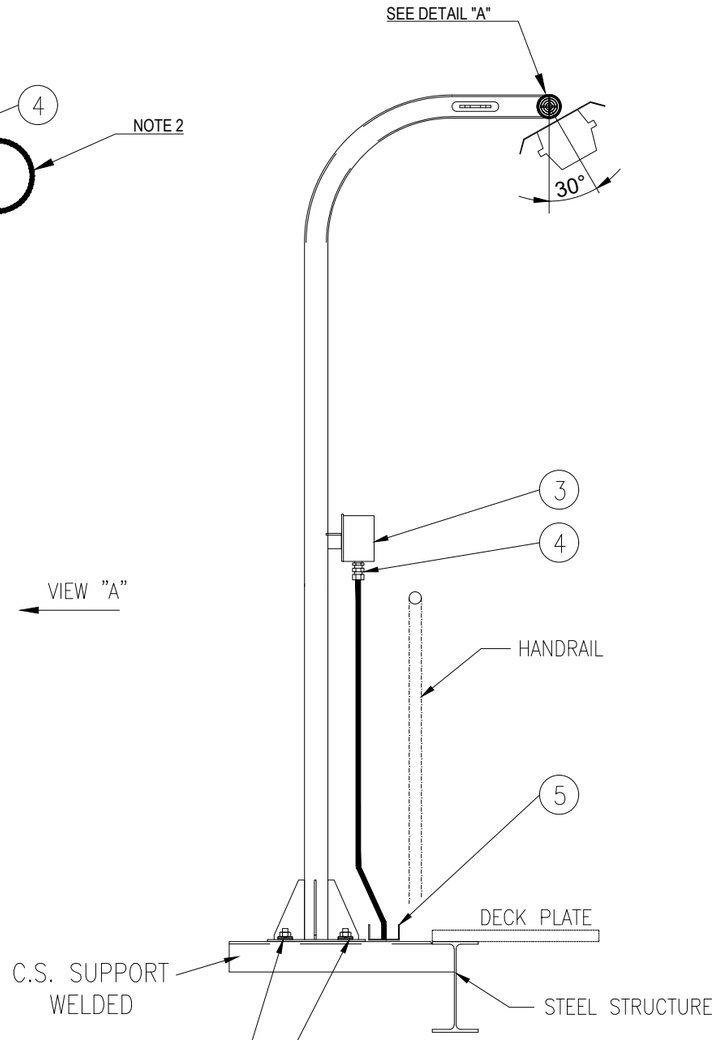
F.to UNI A3: 420mmx297mm

File Name : 123A90-DDL-EL-DG-20125

L11A

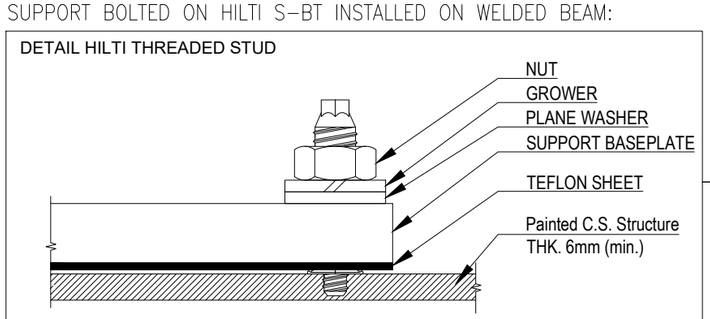


VIEW "A"

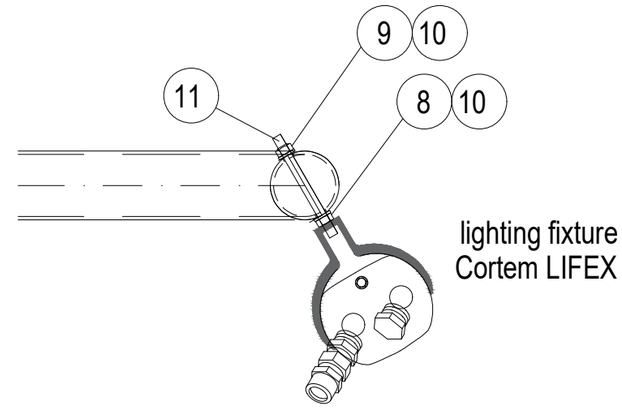


VIEW "A"

SUPPORT BOLTED ON HILTI S-BT INSTALLED ON WELDED BEAM:



POS.	DESCRIPTION	MATERIAL	SIZE	Q.TY	NOTE
1	42W LED LUMINARIES	ALUMINIUM ALLOY		1	
2	45W LED LUMINARIES C/W BATTERY	ALUMINIUM ALLOY		1	
3	JUNCTION BOX (Ex)	GRP		1	NOTE 1
4	CABLE GLAND C/W EARTH TAG, WASHERS, LOCKNUT AND WEATHERPROOF WASHERS	BRASS NICKEL PLATED		AS REQ.	
5	CABLE TRAY	AISI 316L			
6	STAINLESS STEEL NYLON COATED CABLE TIE	SS NYLON COATED			
7	POLE SUPPORT FOR LAMP	AISI 316L	2"		
8	NUT	AISI 316L	M8		
9	SELF.LOCKING NUT	AISI 316L	M8		
10	LARGE PLANE WASHER (24mm DIAM.)	AISI 316L	M8		
11	THREADED ROD M8x100	AISI 316L	M8		



DETAIL "A"

NOTES:

1) FOR LAMPS IN HAZARDOUS AREA, USE ARMOURED CABLE, DOUBLE SEAL CABLE GLAND AND EX JUNCTION BOX.

2) ALWAYS ENSURE CABLE LENGTH IS >3m

VALID FOR CONSTRUCTION

REV.:	DATE:	SIGNATURE:
2_B	12/12/24	C.Pilato

ROSETTI MARINO SpA

02

CROSSWIND

ROSETTI MARINO

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	30/09/24	GRA	AMA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	04/07/24	NLK	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	21/11/23	SPS	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL TYPICAL INSTALLATION DETAILS-LIGHTING SYSTEM
LIGHTING FIXTURE MOUNTED ON POLE

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK | SCALE : NTS

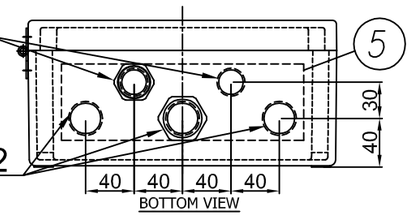
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F.to UNI A3: 420mmx297mm

File Name : 123A90-DDL-EL-DD-20091 REV.02.DWG

(10)(4) N°2 PASSING HOLES Ø20.2
C/W N°1 BNK PLUG M20 +
N°1 DUSTPROOF PVC PLUG

(3)(3) N°3 PASSING HOLES Ø25.2
C/W N°1 BNK PLUG M25 +
N°1 DUSTPROOF PVC PLUG



BOTTOM VIEW

(8) I2400722-B015I00029809

TECHNOR ITALSMEA
A COMPANY OF MARECHAL ELECTRIC
Via Italia 33 - 20060 Gessate (MI) ITALY

CE 0080 Ex II 2G II 2D
FIDI 21ATEX 0090X
IECEx FIDI 21.0015X
Year of construction:

MADE IN ITALY

TYPE: AQ-252612P
230VAC 50Hz 20A
Max Dis. P. 6W

Ex eb IIC T6 Gb
Ex tb IIIC T85°C Db
IP66
T.amb. -20/+40°C
Serial Nr.

WARNINGS : DO NOT OPEN WHEN ENERGIZED

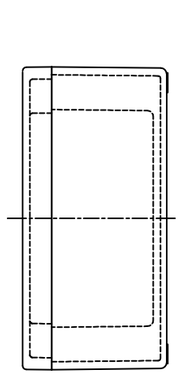
A002MAX

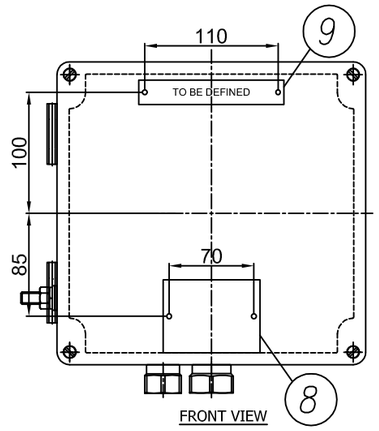
(9) PLATE DETAIL



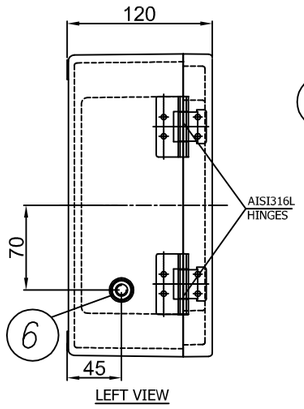
MATERIAL: LAMINATED PLASTIC
BACKGROUND: WHITE
LETTERS: BLACK

(7) Terminals numbered: NOTE 1

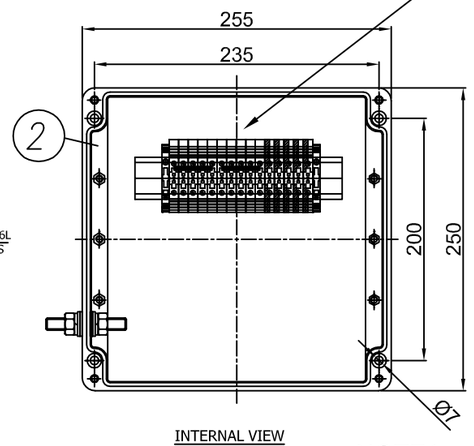

RIGHT VIEW



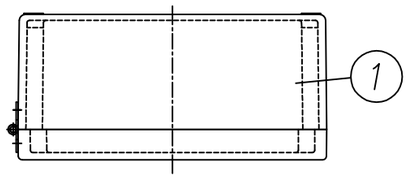
FRONT VIEW



LEFT VIEW



INTERNAL VIEW



TOP VIEW

NOTE1 :
- JB for Normal Lighting have terminals bridge: L-L-L-L-L, N-N-N-N-N, PE-PE-PE-PE-PE - JB for Emergency Lighting have terminals bridge: L-L-L, N-N-N, PW-PW-PW, PE-PE-PE-PE-PE

ITEM	DESCRIPTION	Pcs Q.TY	NOTE/MAT.	CODE	MANUFACTURER
11	DUSTPROOF PVC PLUG Ø25	2	–	.	TECHNOR ITALSMEA
10	DUSTPROOF PVC PLUG Ø20	1	–	.	TECHNOR ITALSMEA
9	LAMINATED PLASTIC TAG 120X20	1	–	.	TECHNOR ITALSMEA
8	AISI316L CERTIFICATE PLATE 80X60	1	–	.	TECHNOR ITALSMEA
7	BEIGE TERMINAL BLOCK SIZE 6 SQMM EARTH TERMINAL BLOCK SIZE 6 SQMM	10 5	WDU–6 WPE–6	.	WEIDMULLER
6	AISI316L INT/EXT EARTH BOLT M10	1	BTP–10	.	TECHNOR ITALSMEA
5	BRASS CONTINUITY PLATE THK. 0.8 MM	1	–	.	TECHNOR ITALSMEA
4	NICKEL PLATED BRASS PLUG M20	1	T20	.	TECHNOR ITALSMEA
3	NICKEL PLATED BRASS PLUG M25	1	T25	.	TECHNOR ITALSMEA
2	INTERNAL MOUNTING PLATE	1	PS–2526	.	TECHNOR ITALSMEA
1	GRP ENCLOSURE	1	AQ–252612P	.	TECHNOR ITALSMEA

-UNPAINTED (BLACK NATURAL)
Q.TY 92, ITEM 20: 2JBXXGPEE, ELEJB02

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
05	20/12/24	FB	OB	OB	ACCEPTED FOR CONSTRUCTION (AFC)
04	26/11/24	FB	OB	OB	ACCEPTED FOR CONSTRUCTION (AFC)
03	25/10/24	FB	OB	OB	ACCEPTED FOR CONSTRUCTION (AFC)
02	12/09/24	FB	OB	OB	ACCEPTED FOR CONSTRUCTION (AFC)
01	03/09/24	FB	OB	OB	ACCEPTED FOR CONSTRUCTION (AFC)
00	30/07/24	FB	OB	OB	ISSUE FOR REVIEW (IFR)

Explosion Proof
Electrical Equipment
Materiali Elettrici Antideflagranti
TECHNOR ITALSMEA
A COMPANY OF MARECHAL ELECTRIC

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)

Junction Box for Normal & Emergency Lighting

CONTRACT NO./TITLE CW–I–WP4–2023–05/HOLLANDSE KUST NOORD WIND PARK

SCALE : NTS

A3

DRAWING NO. 1724001481–EL–DA–00003

SHEET 004

REV. 05

F.to UNI A3: 420mmx297mm

File Name : 1724001481–EL–DA–00003 Rev. 01

ENCLOSURE N°	TAG LIST	NORMAL LIGHTING	EMERGENCY LIGHTING
1	EJB-200N1-03-L2-04	X	
2	EJB-200N1-03-L2-03	X	
3	EJB-200N1-03-L2-01	X	
4	EJB-200N1-03-L2-02	X	
5	EJB-200N1-03-L2-12	X	
6	EJB-200N1-03-L2-11	X	
7	EJB-200N1-03-L2-10	X	
8	EJB-200N1-03-L2-09	X	
9	EJB-200N1-03-L2-08	X	
10	EJB-200N1-03-L2-07	X	
11	EJB-200N1-03-L2-06	X	
12	EJB-200N1-03-L2-05	X	
13	EJB-200N1-03-L2-14	X	
14	EJB-200N1-03-L2-13		X
15	EJB-200N1-09-L2-17		X
16	EJB-200N1-09-L2-01		X
17	EJB-200N1-09-L2-04		X
18	SPARE (TO BE PROVIDED BLANK)		X
19	EJB-200N1-09-L2-02		X
20	EJB-200N1-09-L2-15		X
21	EJB-200N1-09-L2-14		X
22	EJB-200N1-09-L2-13		X
23	EJB-200N1-09-L2-12		X
24	EJB-200N1-09-L2-11		X
25	EJB-200N1-09-L2-10		X
26	EJB-200N1-09-L2-09		X
27	EJB-200N1-09-L2-08		X
28	EJB-200N1-09-L2-07		X
29	EJB-200N1-09-L2-06		X
30	EJB-200N1-09-L2-05		X
31	EJB-200N1-09-L2-16	X	
32	EJB-200N1-04-L3-01	X	
33	EJB-200N1-04-L3-02	X	
34	EJB-200N1-10-L3-05		X
35	EJB-200N1-10-L3-06		X
36	EJB-200N1-10-L3-07		X
37	EJB-200N1-10-L3-08		X
38	EJB-200N1-10-L3-09		X
39	EJB-200N1-10-L3-02		X
40	EJB-200N1-10-L3-01		X
41	EJB-200N1-10-L3-03		X
42	EJB-200N1-10-L3-04		X
43	EJB-200N1-02-L1-03	X	
44	EJB-200N1-02-L1-02	X	
45	EJB-200N1-02-L1-01	X	
46	SPARE (TO BE PROVIDED BLANK)	X	
47	EJB-200N1-02-L1-10	X	
48	EJB-200N1-02-L1-19	X	
49	EJB-200N1-02-L1-18	X	

ENCLOSURE N°	TAG LIST	NORMAL LIGHTING	EMERGENCY LIGHTING
50	EJB-200N1-02-L1-17	X	
51	EJB-200N1-02-L1-16	X	
52	EJB-200N1-02-L1-15	X	
53	EJB-200N1-02-L1-14	X	
54	EJB-200N1-02-L1-13	X	
55	EJB-200N1-02-L1-12	X	
56	EJB-200N1-02-L1-11	X	
57	EJB-200N1-02-L1-06	X	
58	EJB-200N1-02-L1-05	X	
59	EJB-200N1-02-L1-07	X	
60	EJB-200N1-02-L1-08	X	
61	EJB-200N1-02-L1-09	X	
62	EJB-200N1-08-L1-03		X
63	SPARE (TO BE PROVIDED BLANK)		X
64	EJB-200N1-08-L1-01		X
65	EJB-200N1-08-L1-04		X
66	EJB-200N1-08-L1-19		X
67	EJB-200N1-08-L1-18		X
68	EJB-200N1-08-L1-17		X
69	EJB-200N1-08-L1-16		X
70	EJB-200N1-08-L1-15		X
71	EJB-200N1-08-L1-14		X
72	EJB-200N1-02-L1-20	X	
73	EJB-200N1-08-L1-12		X
74	EJB-200N1-08-L1-11		X
75	EJB-200N1-08-L1-10		X
76	EJB-200N1-08-L1-20		X
77	EJB-200N1-08-L1-05		X
78	EJB-200N1-08-L1-06		X
79	EJB-200N1-08-L1-07		X
80	EJB-200N1-08-L1-09		X
81	EJB-200N1-08-L1-08		X
82	EJB-200F2-01	X	
83	EJB-200F2-02	X	
84	SPARE (TO BE PROVIDED BLANK)	X	
85	SPARE (TO BE PROVIDED BLANK)	X	
86	SPARE (TO BE PROVIDED BLANK)	X	
87	SPARE (TO BE PROVIDED BLANK)	X	
88	SPARE (TO BE PROVIDED BLANK)	X	
89	SPARE (TO BE PROVIDED BLANK)		X
90	SPARE (TO BE PROVIDED BLANK)		X
91	SPARE (TO BE PROVIDED BLANK)		X
92	SPARE (TO BE PROVIDED BLANK)		X

Q.TY 92, ITEM 20: 2JBXXGPEE, ELEJB02

Explosion Proof
Electrical Equipment
Materiali Elettrici Antideflagranti

TECHNOR ITALSMEA
A COMPANY OF MARECHAL ELECTRIC

CROSSWIND

ROSETTI MARINO

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
05	20/12/24	FB	OB	OB	ACCEPTED FOR CONSTRUCTION (AFC)
04	26/11/24	FB	OB	OB	ACCEPTED FOR CONSTRUCTION (AFC)
03	25/10/24	FB	OB	OB	ACCEPTED FOR CONSTRUCTION (AFC)
02	12/09/24	FB	OB	OB	ACCEPTED FOR CONSTRUCTION (AFC)
01	03/09/24	FB	OB	OB	ACCEPTED FOR CONSTRUCTION (AFC)
00	30/07/24	FB	OB	OB	ISSUE FOR REVIEW (IFR)

TITLE : BASE LOAD POWER HUB (BLPH)

Junction Box for Normal & Emergency Lighting–Tag List

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE : NTS

A3

DRAWING NO. 1724001481–EL–DA–00003

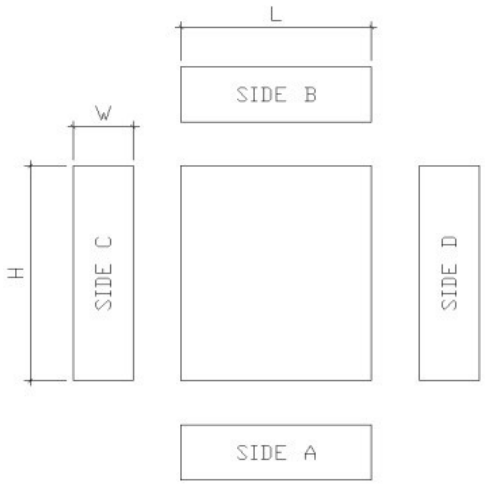
SHEET 005

REV. 05

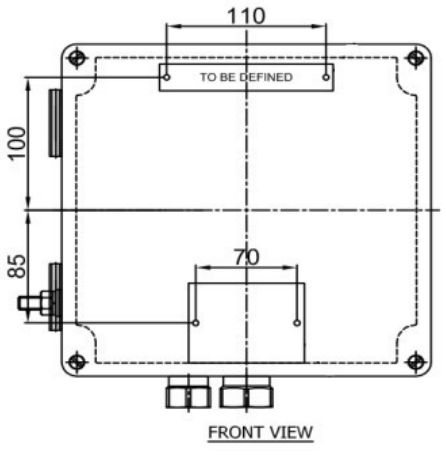
F.to UNI A3: 420mmx297mm

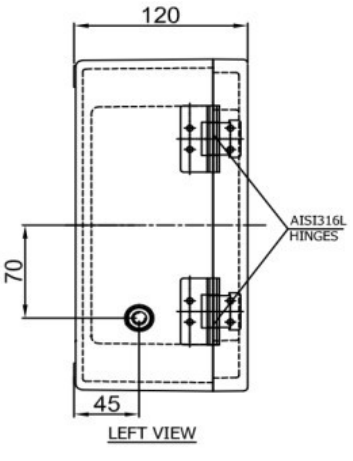
File Name : 1724001481–EL–DA–00003 Rev. 01

Row	Data Sheet for Control Stations, Junction Boxes and Sockets				Rev.
1	Junction Box for Normal & Emergency Lighting				
2	Item	Required	Manufacturer Proposal	Comments	
3	Model Number	by Vendor	AQ-252612P		01
4	Serial Number	by Vendor	B011041010004		01
5	Quantity	40+4(Spare)		(39+5 Spare)	01
6	Application	Lighting pole JB/Lighting JB			00
7	**Installation area**				
8	Indoor/Outdoor	Outdoor			00
9	Safe Area/Hazardous Area	Safe area			00
10	Zone 1/Zone 2	NA			00
11	Temp. Class	NA	Ex eb IIC, T6 Gb		01
12	**Electrical input data**				
13	Voltage	230 V ac	230 V ac		00
14	Number of Phases	1ph + N + PE			00
15	**Material**				
16	Body	GRP	GRP		01
17	Execution	Normal	Ex eb	Will be used ATEX even in safe area	01
18	Protection Degree	IP56	IP 66		01
19	**Accessories**				
20	Hinged Cover	Required	AISI316L Hinges		01
21	Gasket	Required			00
22	Removable Gland Plates	Required	Brass Continuity plate 0.8mm thick		01
23	Internal Mounting Plate	Thickness 3mm threaded		connected to Internal ground bar	00
24	Internal Ground Bar	Required		connected to earth stud	00
25	Earth Stud	Required			00
26	Drainage Valve	Required			00
27	Pad lockable Cover	Required			00
28	Identification Label	Trafolite/ Stainless Steel	Laminated Plastic	for all label	01
29	**Side 'A'**				
30	Hubs Qty.	5	5		01
31	Size	No.3 M25, No.2 M20	No.3 Ø 25.2 mm, No.2 Ø 20.2 mm		01
32	Thread	ISO-M			00
33	Plug	No. 1 M20, No.1 M25	No. 1 Ø 20.2 mm, No.1 Ø 25.2 mm	nickel-plated brass	01
34	**Side 'B'**				
35	Hubs Qty.	Not Required			00
36	Size	NA			00
37	Thread	NA			00
38	**Side 'C'**				
39	Hubs Qty.	Not Required			00
40	Size	NA			00
41	Thread	NA			00
42	**Side 'D'**				
43	Hubs Qty.	Not Required			00
44	Size	NA			
45	Thread	NA			
46	**Terminals**				
47	Size [mm^2]	Suitable for 6 Sq.mm & 2.5 Sq.mm Cable	M25 & M20	suitable with wire-end ferrules DIN 46228	01
48	Qty.	n°5 for Ph // n°5 for N // n°5 for PE	n°5 for Ph // n°5 for N // n°5 for PE	jumpered	01
49	**Bonding Cable (yellow/Green)**				
50	Size [mm^2]	by vendor		6 mm^2	01
51	Qty.	Min. 0.15m			00
52	**Dimension**				
53	Height 'H' [mm]	by vendor	120 mm		01
54	Width 'W' [mm]	by vendor	250 mm		01
55	Length 'L' [mm]	by vendor	255 mm		01
56	Weight [Kg]	by vendor	2.65 Kg		01
57	JB Code (*)	Remarks			
58					



NOTES:
(*) Filled by Vendor





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ITEM	Tag	ELF-200N1-02-L1-16	: NORMAL LIGHT			Dwg	123A90-DDL-EL-DL-20118
	S/Sys	83-40	: Normal Lighting Upper Deck			Module	UD
TASK	code	C10001671		Location	Onshore Activities	User	Rosetti Marino Quality Control
FORM	Process	MC	Activity CCK	Discipline	Electrical	Form	CPX00 Miscellaneous Electrical Equipment

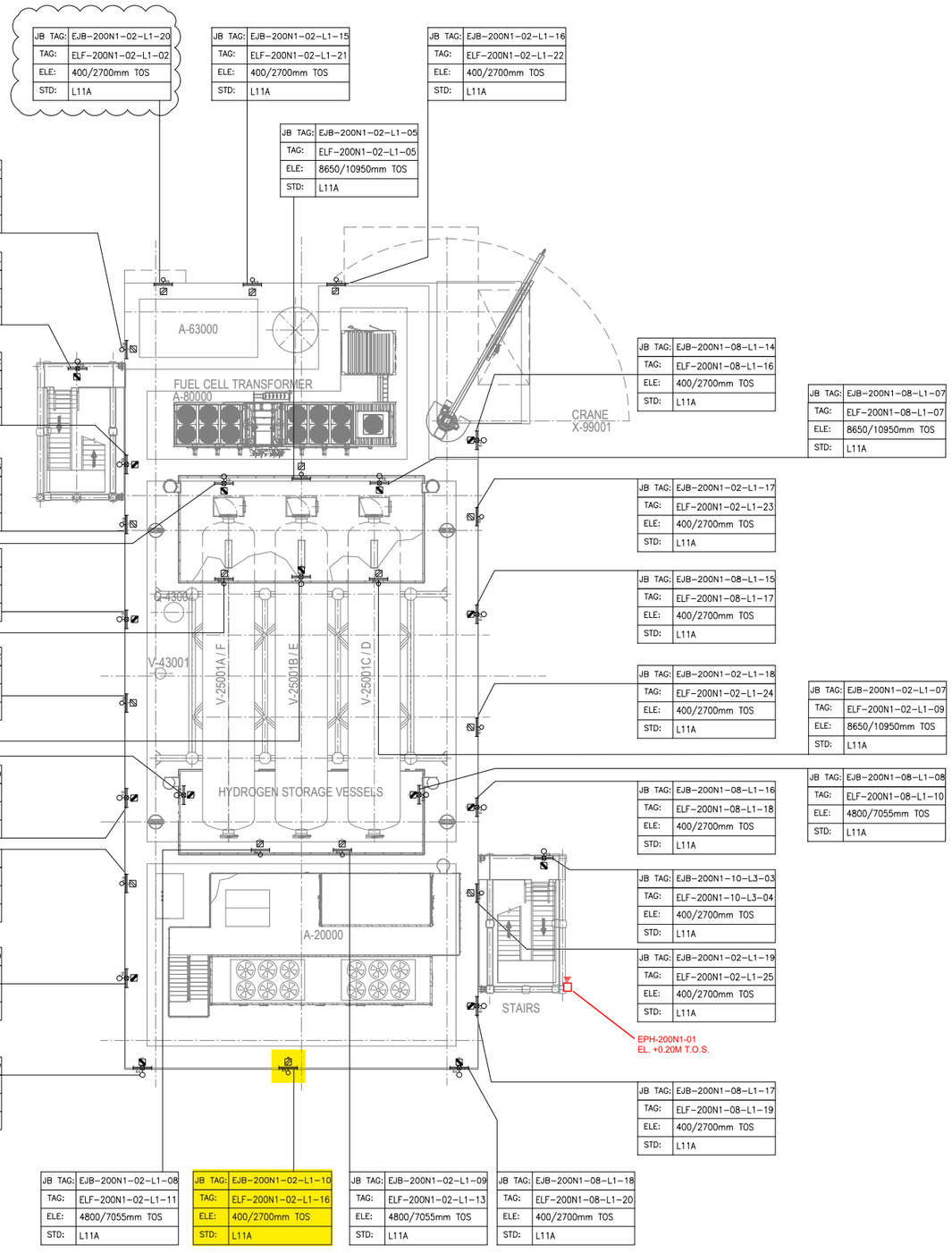
1	Check circuit is de-energized and safe.	OK
2	Check equipment is installed in accordance with layout drawing.	OK
3	Check equipment is undamaged and correcly tagged.	PL
4	Check nameplate data is correct.	NA
5	Check all bolts are fitted and all unused entries are suitably plugged.	PL
6	Check terminals for proper size and installation crimps	OK
7	Check earthing and bonding against drawings.	OK
8	Check items are properly fixed on support.	PL
9	If required produce Red Line Mark Up for "AS BUILT"	

Comments:

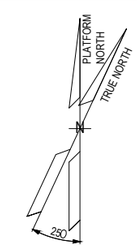
	Performed by	● WITNESS ☐ REVIEW	☐ WITNESS ☐ REVIEW
Company	ICS IMPIANTI	RM(ROSETTI MARINO)	
Name	Francesco Zucca	Andrea Andreani	
Date	2024-12-07	2024-12-07	
Signature	PROVERLIS Digitaly signed by Francesco Zucca 2024-12-07T08:03:42.087Z	PROVERLIS Digitaly signed by Andrea Andreani 2024-12-07T10:08:54.089Z	

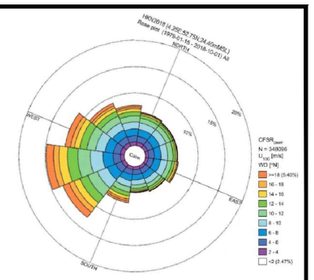
DRAWING NO. 123A90-DDL-EL-DL-20118

REV. 01



PLAN ON UPPER DECK
EL+30.310 T.O.S.





NOTES

1. ALL DIMENSIONS AND ELEVATIONS ARE GIVEN IN mm UNLESS OTHERWISE NOTED.
2. ELEVATIONS REFER TO T.O.S.
3. ELEVATION OF THE LAMPS ARE REFFERED TO THE BOTTOM OF THE LAMP.
4. FOR THE ELEVATION OF JB, REFER TO THE TYPICAL INSTALLATION.

LEGEND

- EMERGENCY LIGHTING JB
- 60W LED EMERGENCY LUMINARIES
- 60W LED EMERGENCY LUMINARIES FIXTURE POLE MOUNTED
- NORMAL LIGHTING JB
- 45W LED NORMAL LUMINARIES
- 45W LED NORMAL LUMINARIES FIXTURE POLE MOUNTED
- WELDING SOCKET WITH INTEGRATED JB
- SMALL POWER SOCKET WITH INTEGRATED JB
- TWILIGHT RELAY SENSOR

JB TAG:	JB-TAG
TAG:	TAG
ELE:	ELEVATION
STD:	STANDARD

VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DL-20118**

REV.:	DATE:	SIGNATURE:
1_B	22/10/24	G.Randi

ROSETTI MARINO SpA

REFERENCE DOCUMENTS

123A90-DDL-PP-DL-70070	PLOT PLAN - LOWER & UPPER DECK
123A90-DDL-EL-DL-20100	ELECTRICAL EQUIPMENT LAYOUT - TOP DECK
123A90-DDL-EL-DD-20091	ELECTRICAL TYPICAL INSTALLATION DETAILS - LIGHTING SYSTEM
123A90-DDL-EL-DD-20092	ELECTRICAL TYPICAL INSTALLATION DETAILS - POWER SYSTEM & CABLE INSTALLATION
123A90-DDL-EL-RE-20153	LIGHTING CALCULATION STUDY REPORT

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	02/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	28/05/24	ASR	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND | ROSETTI MARINO

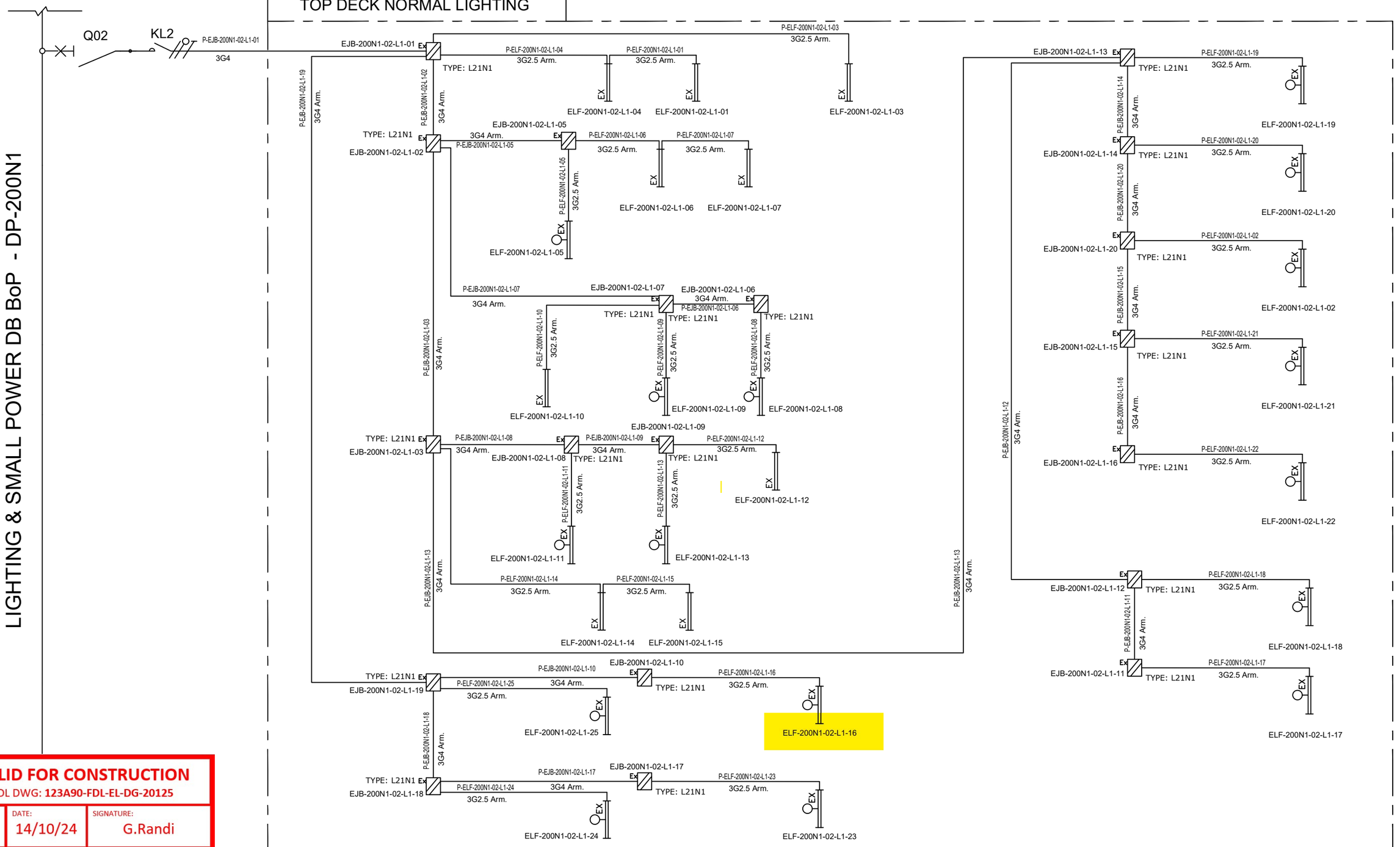
TITLE : BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET LAYOUT – TOP DECK

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK			SCALE 1:150
DRAWN ASR	CHECKED FMA/AMA	APPROVED FPA/DLO	DATE 01/08/24
A1	DRAWING NO. 123A90-DDL-EL-DL-20118	SHEET 1of2	REV. 01

File Name : 123A90-DDL-EL-DL-20118

LIGHTING & SMALL POWER DB BoP - DP-200N1

TOP DECK NORMAL LIGHTING



VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DG-20125**

REV.:	DATE:	SIGNATURE:
1_B	14/10/24	G.Randi

ROSETTI MARINO SpA

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	08/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	01/07/24	ASR	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

TITLE : BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET CIRCUIT DIAGRAM
TOP DECK–NORMAL LIGHTING

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE : NTS

A3

DRAWING NO. 123A90-DDL-EL-DG-20125

SHEET 010

REV. 01

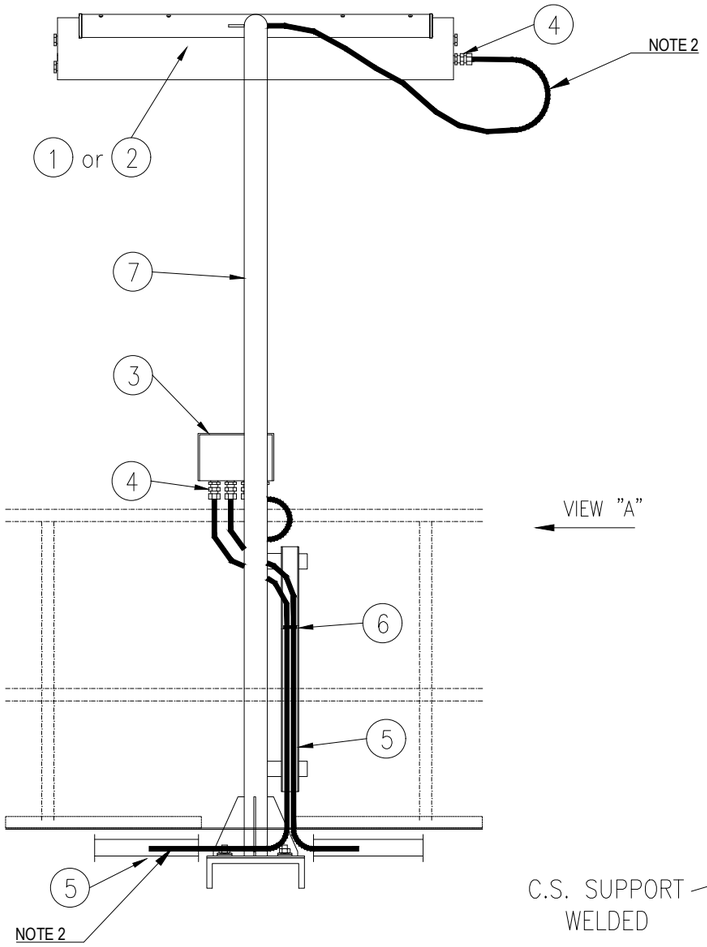
CROSSWIND

ROSETTI MARINO

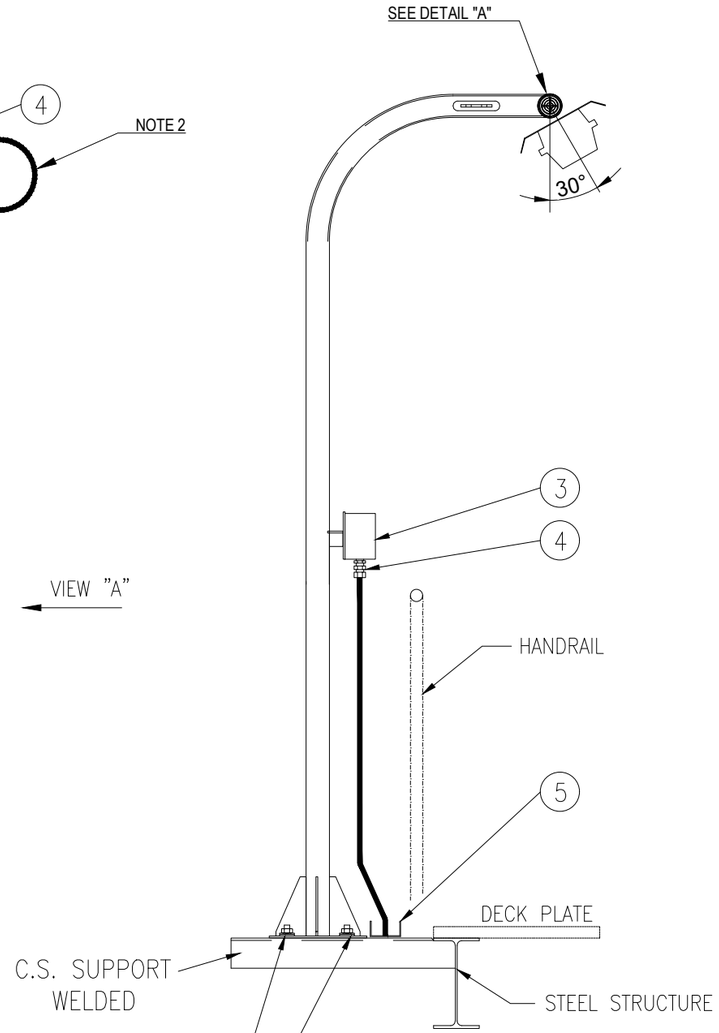
F.to UNI A3: 420mmx297mm

File Name : 123A90-DDL-EL-DG-20125

L11A

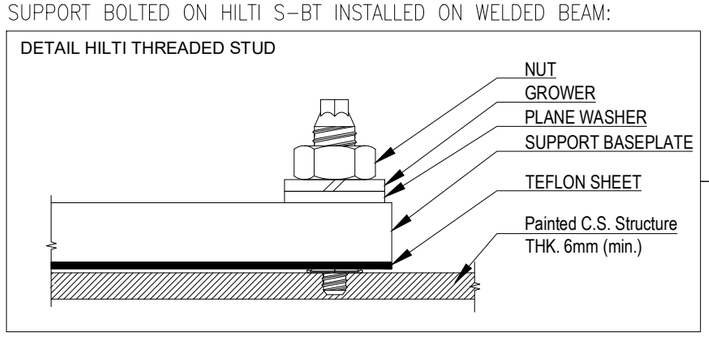


VIEW "A"

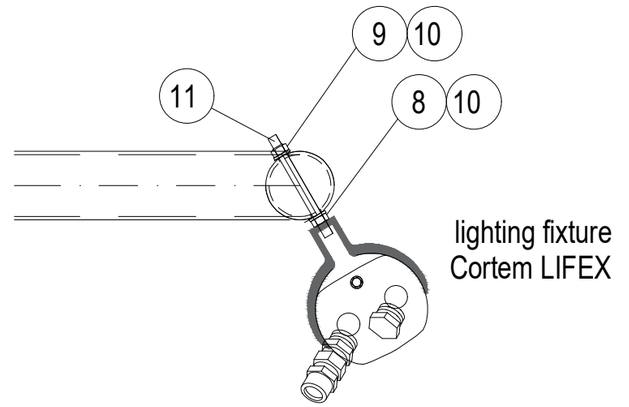


VIEW "A"

SUPPORT BOLTED ON HILTI S-BT INSTALLED ON WELDED BEAM:



POS.	DESCRIPTION	MATERIAL	SIZE	Q.TY	NOTE
1	42W LED LUMINARIES	ALUMINIUM ALLOY		1	
2	45W LED LUMINARIES C/W BATTERY	ALUMINIUM ALLOY		1	
3	JUNCTION BOX (Ex)	GRP		1	NOTE 1
4	CABLE GLAND C/W EARTH TAG, WASHERS, LOCKNUT AND WEATHERPROOF WASHERS	BRASS NICKEL PLATED		AS REQ.	
5	CABLE TRAY	AISI 316L			
6	STAINLESS STEEL NYLON COATED CABLE TIE	SS NYLON COATED			
7	POLE SUPPORT FOR LAMP	AISI 316L	2"		
8	NUT	AISI 316L	M8		
9	SELF.LOCKING NUT	AISI 316L	M8		
10	LARGE PLANE WASHER (24mm DIAM.)	AISI 316L	M8		
11	THREADED ROD M8x100	AISI 316L	M8		



DETAIL "A"

NOTES:

1) FOR LAMPS IN HAZARDOUS AREA, USE ARMOURED CABLE, DOUBLE SEAL CABLE GLAND AND EX JUNCTION BOX.

2) ALWAYS ENSURE CABLE LENGTH IS >3m

VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DD-20091**

REV.:	DATE:	SIGNATURE:
2_A	30/09/24	G.Randi

ROSETTI MARINO SpA

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	30/09/24	GRA	AMA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	04/07/24	NLK	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	21/11/23	SPS	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

02

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL TYPICAL INSTALLATION DETAILS-LIGHTING SYSTEM
LIGHTING FIXTURE MOUNTED ON POLE

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK | SCALE : NTS

A3 | DRAWING NO. 123A90-DDL-EL-DD-20091 | SHEET 014 | REV. 02

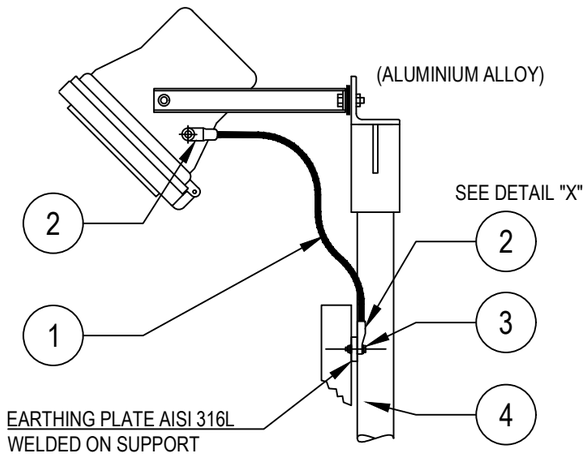
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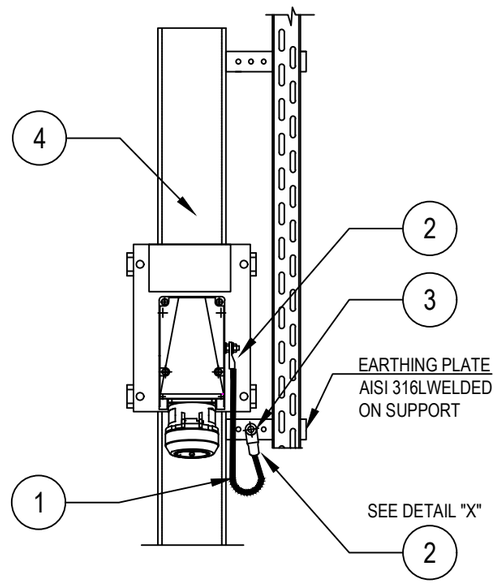
E05

POS.	DESCRIPTION	MATERIAL	SIZE	Q.TY	NOTE
1	Y/G INSULATING COPPER CONDUCTOR	COPPER	$6mm^2$		
2	COMPRESSION TYPE LUG FOR INSULATION COPPER CONDUCTOR	TINNED COPPER	$6mm^2$	2	
3	HEXAG. BOLTS, PLANE WASHERS, SPRING WASHER AND NUT	AISI 316L	M8X30	1	

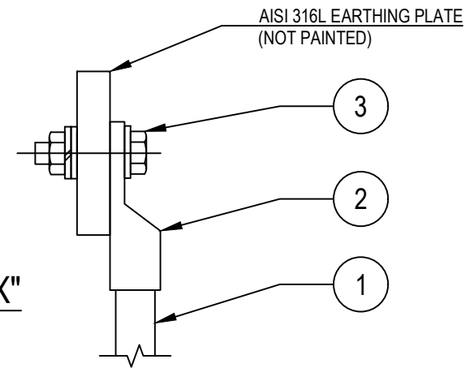
LIGHTING FIXTURE/GENERAL ITEM ON POLE



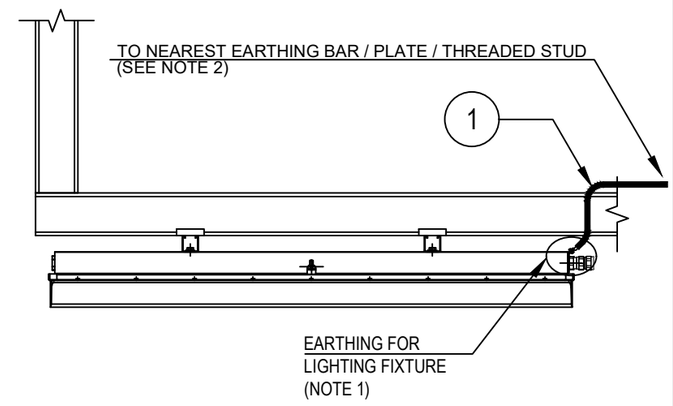
POWER SOCKET OUTLET



DETAIL "X"



LIGHTING FIXTURES



Refer also to TYP. "E32" (SEE SHEET 23)

TYPICAL VALID ALSO FOR NAVAID LIGHTS

NOTES:

1) ALL LIGHTING FIXTURES AND RELEVANT ARMOUR OF THE CABLE, ARE CONNECTED TO EARTH CONNECTION THROUGH THE EARTHING TAG OF THE CABLE GLAND

2) FOR EARTHING POINT USE ONE OF THE FOLLOWING METHODS:
TYP. E03A-D sh. 004 (EARTHING BAR ON STRUCT. UNISTRUT AND CABLE TRAY)
TYP. E11C sh. 003 (EARTHING PLATE)
TYP. E11D sh. 003 (THREADED STUD ON EXTERNAL STRUCTURE)

VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DD-20090**

REV.:	DATE:	SIGNATURE:
2_H	05/11/24	G.Randi

ROSETTI MARINO SpA

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	26/08/24	GRA	AMA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	10/06/24	SPS	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	21/11/23	SPS	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL TYPICAL INSTALLATION DETAILS–EARTHING SYSTEM
EARTHING FOR ELECTRICAL EQUIPMENTS

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK | SCALE : NTS

A3 | DRAWING NO. 123A90-DDL-EL-DD-20090 | SHEET 006 | REV. 02

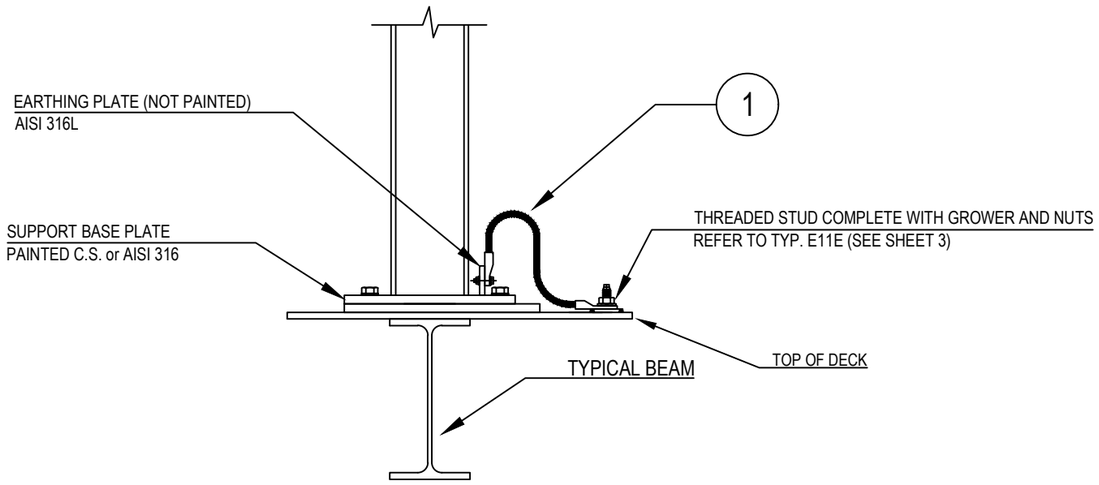
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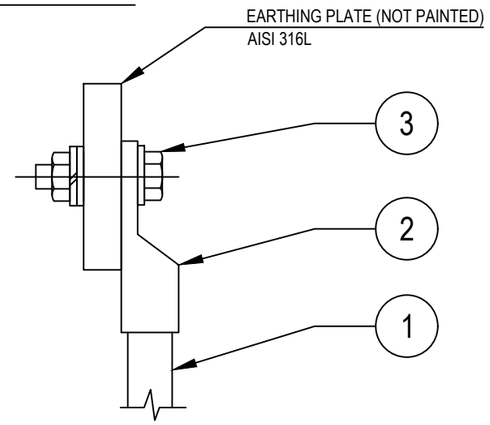
E24

POS.	DESCRIPTION	MATERIAL	SIZE	Q.TY	NOTE
1	As. R. Y/G INSULATING COPPER CONDUCTOR	COPPER	$35mm^2$		
2	COMPRESSION TYPE LUG FOR INSULATION COPPER CONDUCTOR	TINNED COPPER	$35mm^2$	2	~~NOTE 1~~
3	HEXAG. BOLT M10X30 COMPLETE WITH PLANE WASHERS, SPRING WASHER AND NUT	AISI 316L	M10X30	2	

GENERIC SUPPORT BOLTED ON STRUCTURE



DETAIL "X"



NOTES:
1) ~~CABLE LUG CRIMPING METHOD SHALL BE HEXAGONAL COMPRESSION DIES ONLY.~~
2) EXTERNAL EARTHING CONNECTION ONLY SHALL BE PROTECTED AGAINST CORROSION USING OXIDE RESISTANT COMPOUND (E.G. COPPER GREASE)

VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DD-20090**

REV.:	DATE:	SIGNATURE:
2_H	05/11/24	G.Randi

ROSETTI MARINO SpA

CROSSWIND

ROSETTI MARINO

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	26/08/24	GRA	AMA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	10/06/24	SPS	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	21/11/23	SPS	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL TYPICAL INSTALLATION DETAILS–EARTHING SYSTEM
EARTHING FOR POLE/SUPPORT OF GENERIC EQUIPMENTS

CONTRACT NO./TITLE CW–I–WP4–2023–05/HOLLANDSE KUST NOORD WIND PARK | SCALE : NTS

A3	DRAWING NO.	SHEET	REV.
	123A90–DDL–EL–DD–20090	012	02

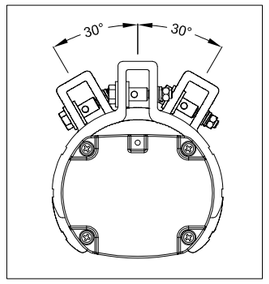
F.to UNI A3: 420mmx297mm

File Name : 123A90-DDL-EL-DD-20090 REV.02.DWG

MODEL C-225 REV.1

GENERAL NOTE:
- PO: 1724001290 DD 26/06/2024
- ITEM.: 1
- Q.TY: 57
- EXTERNAL PAINTING: RAL 7022 (END CAPS)
- INTERNAL PAINTING: NOT PAINTED
- ALL DIMENSIONS ARE IN mm

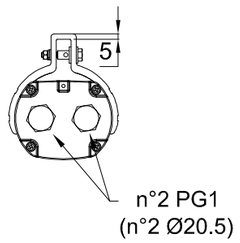
STANDARD FIXING BRACKET
FASTENING WITH 2 THREADED M8
HOLES, ADJUSTABLE FROM 0° TO ±30°



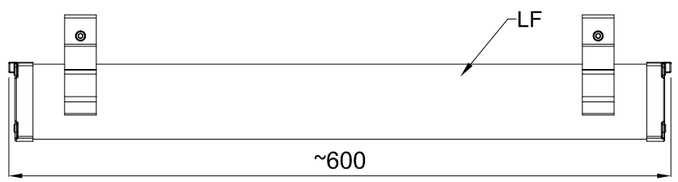
LF INFORMATION	
NOMINAL POWER	45W
CONSUMED POWER	43,5W
POWER FACTOR	>0,93
RATED CURRENT	200 mA
VIEWING ANGLE	120°
COLOUR TEMP.	5000 K
CRI	>80
INSTANT RESTRIKE	YES
LUMEN	6200 lm
LIGHT INTENSITY	2248 cd
EFFICIENCY	143 lm/W
WEIGHT	2,5 Kg
IP PROTECTION	IP66

N°	Q.TY	CODE	DESCRIPTION
LF	1	LIFEX-ME-0645-BB	110-277Vac 50-60Hz 45W LED LINEAR LIGHTING FIXTURE BODY: ALUMINUM ALLOY EXTRUSION AND ALUMINUM END CAPS TRANSPARENT PART: GLASS RESISTANT TO SHOCKS, UV RAYS AND IMPACT RESISTANCE IK09 GASKETS: ACID AND HYDROCARBON RESISTANT SILICONE ASSEMBLY: FASTENING BRACKETS FOR M8 HOLES, ADJUSTABLE 0° TO ±30° MADE IN ANODIZED ALUMINUM CONNECTION: TERMINAL BLOCK ON SIDE (IN) L, N, PE CROSS SEC. MAX. 4mmq SUITABLE FOR LOOP-IN LOOP-OUT SCREWS, BOLTS AND NUTS: STAINLESS STEEL 304
PG1	4	PLG1IB +DL1IB +RDI1IS/A4	IP66 Ex db IIC Gb - Ex eb IIC Gb NICKEL PLATED BRASS PLUG ISO M20x1,5 WITH RELEVANT LOCKNUT AND SERRATED WASHER MADE IN STAINLESS STEEL

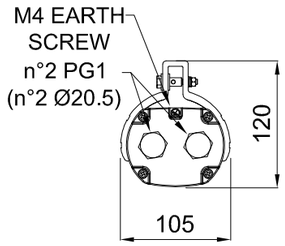
LEFT SIDE (OUT)



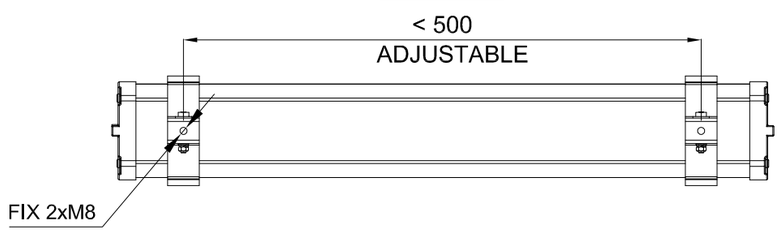
FRONT SIDE



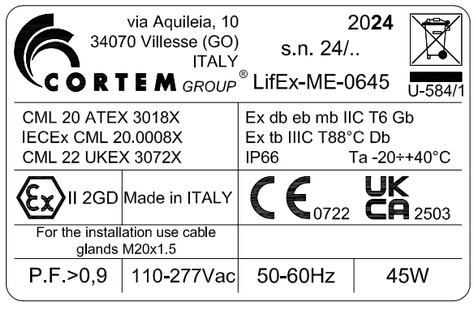
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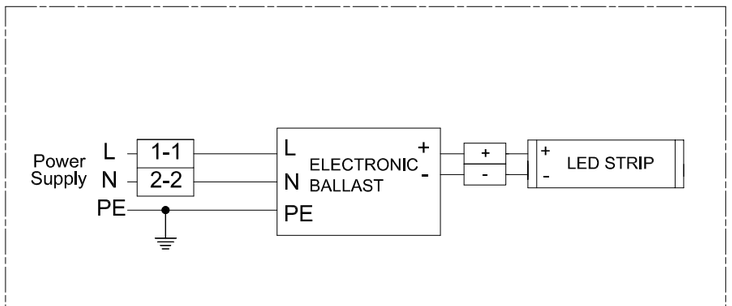
TOP SIDE



CERTIFICATE NAMEPLATE



WIRING DIAGRAM



REV.	DATE	PREP'D	CHK'D	APP'D	DESCRIPTION
2	09/07/2024	FRATTARUOLO	GIUSTI	GRATTON	REISSUED FOR APPROVAL
1	05/07/2024	FRATTARUOLO	GIUSTI	GRATTON	REISSUED FOR APPROVAL
0	28/06/2024	FRATTARUOLO	GIUSTI	GRATTON	ISSUED FOR APPROVAL

DRAWING TITLE: ROSETTI MARINO S.P.A.

CORTEM S.p.a.
GENERAL LAYOUT
001 LIFEX-ME-0645-BB/C2402693/10.

CORTEM JOB: COV2402693
DRAWING SCALE: /
DRAWING NUMBER: A3-C 27521
SHEET: 1
NEXT: 2
TOT.: 2

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AND IT CANNOT BE REPRODUCED WITHOUT CORTEM'S
AUTHORIZATION

Smart Professional R. 2012

Row	Data Sheet for Lighting Fixtures & Accessories				Rev.
1	42W LED Linear Luminaire-Normal Lighting-Safe Area				
2	Item	Required	Manufacturer Proposal	Comments	
3	Model Number	by vendor	LIFEX-ME-0645-BB		01
4	Serial Number	by vendor			00
5	Quantity	29 Nos.		(20+9 Spare)	01
6	Location / Module	Lower deck			01
7	**LED Lamp**				
8	Nominal power	42 watts	45 watts		01
9	No. of linear	1	1		01
10	Luminous flux	5810 lm	6200 lm		01
11	Colour Temperature	5000 K	5000 K		01
12	**Protection**				
13	Hazardous Area Certification (Ex)	Safe area	Ex II 2GD Ex db eb mb IIC Gb Ex tb IIIC Db		01
14	Degree of Protection (IP)	IP 56	IP 66		01
15	ATEX certified	Not required	ATEX CML 20 ATEX 3018X	Will be used ATEX even in safe area	01
16	**Material**				
17	Body	GRP/Aluminium alloy	Aluminium alloy		01
18	Reflector	GRP/Aluminium	Aluminium		01
19	Diffuser	Polycarbonate/temperate glass	Tempered glass		01
20	**Cable Entry**				
21	No. of cable entry	4 Nos.	4 Entries, 2 per side		01
22	Size	M20	Ø20.5mm		01
23	**Emergency Battery Pack**				
24	Requirement	Not required			00
25	Battery type	Not required			00
26	Autonomy	Not required			00
27	Emergency luminous flux	Not required			00
28	**Mechanical parameters**				
29	Dimension	by vendor	600x105x120(mm)		01
30	Weight	by vendor	2.5kg		01

Note:

This document undergoes an issuance cycle within EDMS "Fusionlive".
Its distribution is electronically controlled. Once printed shall be considered as "NOT CONTROLLED" copy

ITEM	Tag	P-EJB-200N1-02-L1-20	: Normal Lighting JB / Normal Lighting JB			Dwg	123A90-DDL-EL-LIS-20148
	S/Sys	83-40	: Normal Lighting Upper Deck			Module	UD
TASK	code	C10002368		Location	Onshore Activities	User	Rosetti Marino Quality Control
FORM	Process	MC	Activity CCK	Discipline	Electrical	Form	CPX09 LV Power Cable

CABLE DATA

Type Cu Cl.2/MGT/EPR/LSZH/GSWB/LSZH Cores/Size mm² 3G4 mm2 Color ORANGE

From EJB-200N1-02-L1-14 To EJB-200N1-02-L1-20

1	Confirm cable is as specified in project cable schedule	OK
2	Visual Check cable physical integrity.	OK
3	Check is installed in accordance with layout drawing (segregation, distance…).	OK
4	Check cable is supported and fixed to rack according to project specification.	Note
5	Check bending radius is within the specified limits.	OK
6	Confirm cable glands suit for cable type, correctly mounted and tightened.	PL
7	Check gland plate for single core cables is non ferrous (non -magnetic).	NA
8	Confirm cable labelling is in accordance with specifications.	PL
9	Check cable is correctly loomed and segregated in accordance with specification.	OK
10	Check cable earthing against lastest drawings.	OK
11	Check cores marking are in accordance with termination diagram	OK
12	Check terminations are in accordance with latest termination diagram	PL
13	If required produce Red Line Mark Up for "AS BUILT"	

ROSETTI MARINO PROVERLIS CROSSWIND

ITEM	Tag	P-EJB-200N1-02-L1-20	: Normal Lighting JB / Normal Lighting JB			Dwg	123A90-DDL-EL-LIS-20148
	S/Sys	83-40	: Normal Lighting Upper Deck			Module	UD
TASK	code	C10002368		Location	Onshore Activities	User	Rosetti Marino Quality Control
FORM	Process	MC	Activity CCK	Discipline	Electrical	Form	CPX09 LV Power Cable

CONTINUITY				
5	CORE CONTINUITY Ω	PH 1	0,06	
6		PH 2	0,06	
7		PH 3	NA	
8	ARMOUR CONTINUITY Ω		0,06	
9	PROTECTIVE CONDUCTOR CONTINUITY Ω		0,06	
INSULATION				
10	CORES / ARMOUR+EARTH MΩ	PH1 / PH2-PH3-A-E	>1999	
11		PH2 / PH1-PH3-A-E	>1999	
12		PH3 / PH1-PH2-A-E	NA	
13	CABLE IS CORRECTLY RE-CONNECTED.		Yes	

TESTING INSTRUMENTS USED

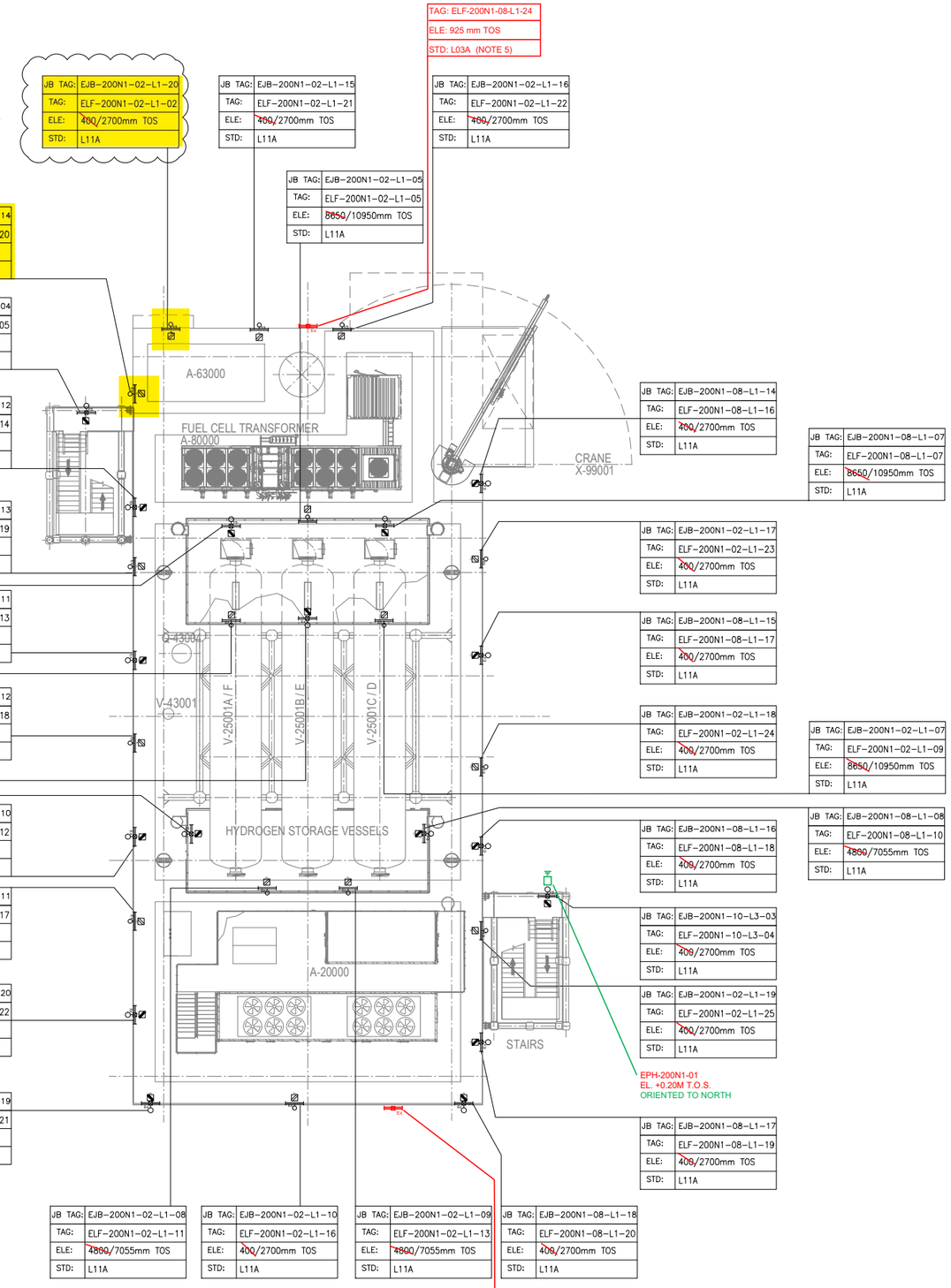
TYPE / SERIAL N° :	MEGGER : KEW3125A SERIAL: W8330207	TYPE / SERIAL N° :	MULTIMETER: FLUKE 175 SERIAL:AW1/018(17140769)
Calibration certificate N° and date:	N°7722/24 _ 10/07/2024	Calibration certificate N° and date:	N°7715/24 _ 10/07/2024

Comments: Nota 4: refer to PL C30000679

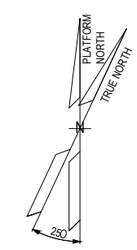
	Performed by	● WITNESS ☐ REVIEW	☐ WITNESS ☐ REVIEW
Company	ICS IMPIANTI	RM(ROSETTI MARINO)	
Name	Michele Tartaglia	Alessio Polo	
Date	2025-01-08	2025-01-10	
Signature	PROVERLIS Digitaly signed by Michele Tartaglia 2025-01-08T10:09:47.500Z	PROVERLIS Digitaly signed by Alessio Polo 2025-01-10T13:37:53.848Z	

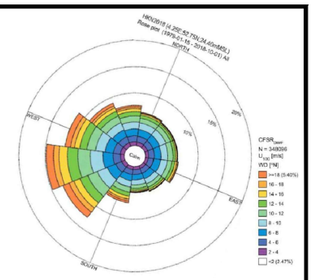
DRAWING NO. 123A90-DDL-EL-DL-20118

REV. 01



PLAN ON UPPER DECK
EL+30.310 T.O.S.





NOTES

1. ALL DIMENSIONS AND ELEVATIONS ARE GIVEN IN mm UNLESS OTHERWISE NOTED.
2. ELEVATIONS REFER TO T.O.S.
3. ELEVATION OF THE LAMPS ARE REFFERED TO THE BOTTOM OF THE LAMP.
4. FOR THE ELEVATION OF JB, REFER TO THE TYPICAL INSTALLATION.
5. FOR ELF-200N1-08-L1-24 AND ELF-200N1-08-L1-25 CONSTRUCTION DETAILS REFER TO DOC. 123A90-DDL-ST-DD-90076

LEGEND

- EMERGENCY LIGHTING JB
- 60W LED EMERGENCY LUMINARIES
- 60W LED EMERGENCY LUMINARIES FIXTURE POLE MOUNTED
- NORMAL LIGHTING JB
- 45W LED NORMAL LUMINARIES
- 45W LED NORMAL LUMINARIES FIXTURE POLE MOUNTED
- WELDING SOCKET WITH INTEGRATED JB
- SMALL POWER SOCKET WITH INTEGRATED JB
- TWILIGHT RELAY SENSOR

JB TAG:	JB-TAG
TAG:	TAG
ELE:	ELEVATION
STD:	STANDARD

REFERENCE DOCUMENTS

123A90-DDL-PP-DL-70070	PLOT PLAN - LOWER & UPPER DECK
123A90-DDL-EL-DL-20100	ELECTRICAL EQUIPMENT LAYOUT - TOP DECK
123A90-DDL-EL-DD-20091	ELECTRICAL TYPICAL INSTALLATION DETAILS - LIGHTING SYSTEM
123A90-DDL-EL-DD-20092	ELECTRICAL TYPICAL INSTALLATION DETAILS - POWER SYSTEM & CABLE INSTALLATION
123A90-DDL-EL-RE-20153	LIGHTING CALCULATION STUDY REPORT
123A90-DDL-ST-DD-90076	IDENTIFICATION PANELS ASSEMBLY AND DETAILS

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	02/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	28/05/24	ASR	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DL-20118**

REV.:	DATE:	SIGNATURE:
1_F	26/11/24	G.Randi

ROSETTI MARINO SpA

CROSSWIND

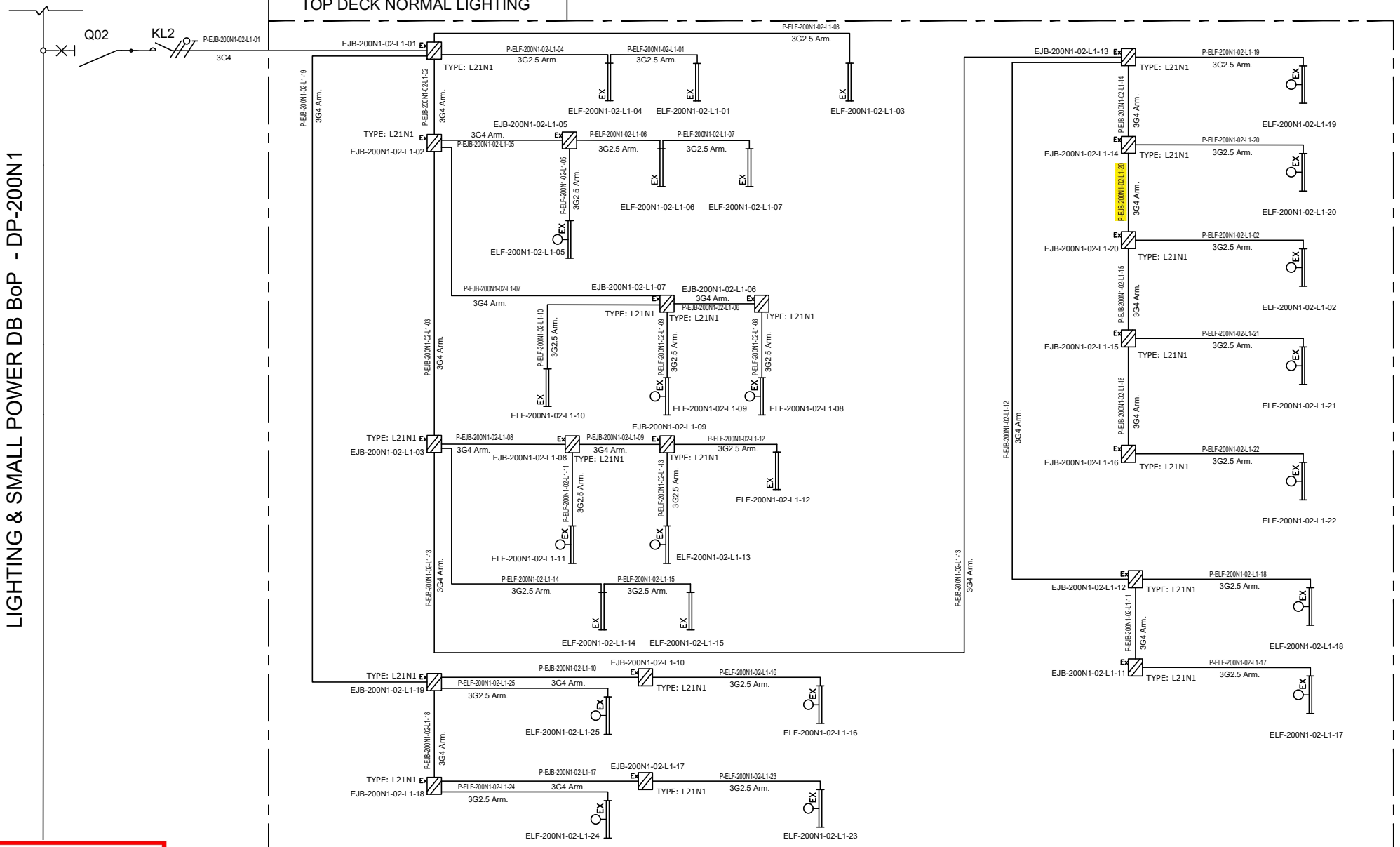
ROSETTI MARINO

TITLE :
BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET LAYOUT – TOP DECK

CONTRACT NO./TITLE CW-1-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK			SCALE 1:150
DRAWN ASR	CHECKED FMA/AMA	APPROVED FPA/DLO	DATE 01/08/24
A1	DRAWING NO. 123A90-DDL-EL-DL-20118	SHEET 1of2	REV. 01

File Name : 123A90-DDL-EL-DL-20118

LIGHTING & SMALL POWER DB BoP - DP-200N1



VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DG-20125**

REV.:	DATE:	SIGNATURE:
2_C	20/12/24	V.Ramponi

ROSETTI MARINO SpA

CROSSWIND

ROSETTI MARINO

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	08/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	01/07/24	ASR	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

TITLE : BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET CIRCUIT DIAGRAM
TOP DECK–NORMAL LIGHTING

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE : NTS

A3

DRAWING NO. 123A90–DDL–EL–DG–20125

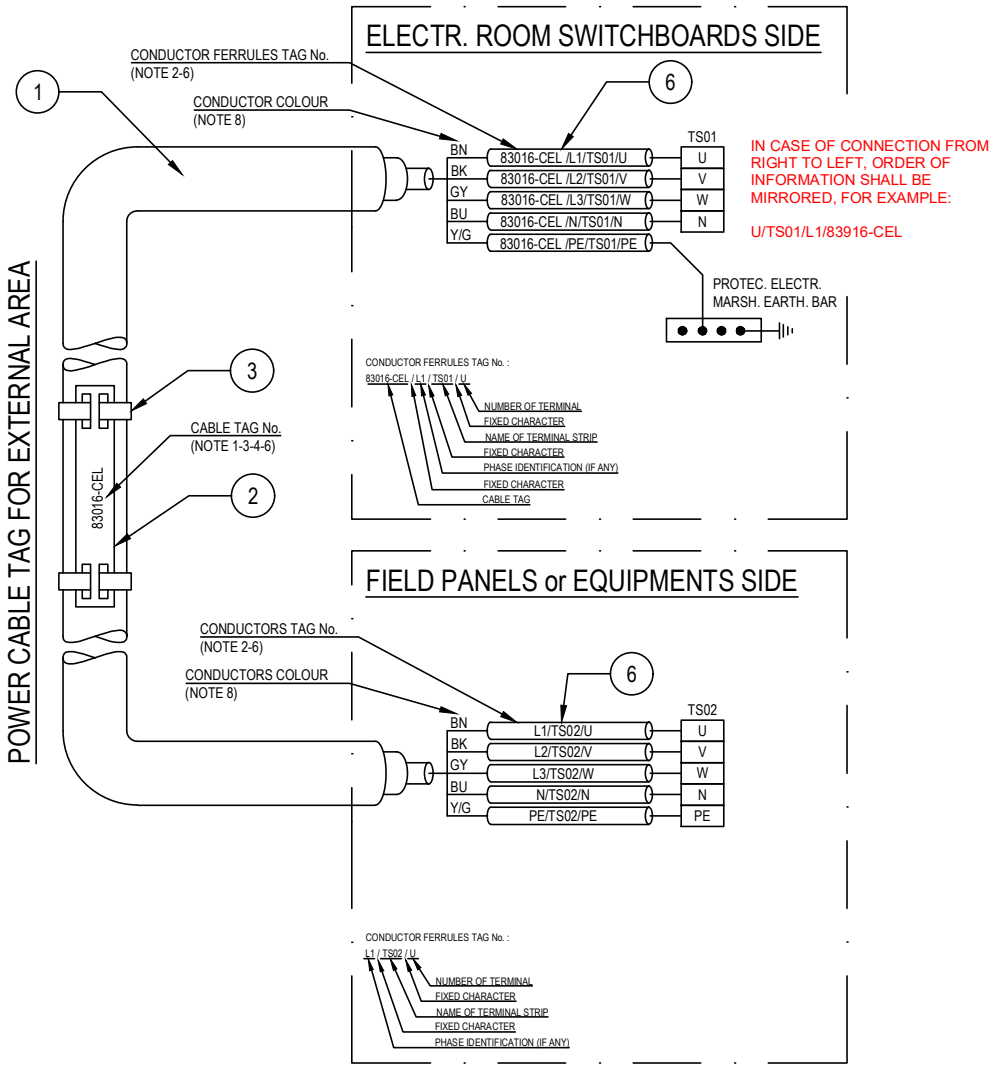
SHEET 010

REV. 01

F.to UNI A3: 420mmx297mm

File Name : 123A90–DDL–EL–DG–20125

C02



POS.	DESCRIPTION	MATERIAL	SIZE	Q.TY	NOTE
1	UNARMOURED CABLE				
2	CABLE TAG FOR EXTERNAL AREA	HDG/SS			NOTE 1 NOTE 4
3	TIE FOR CABLE TAG IN EXTERNAL AREA	HDG/SS			
4	CABLE TAG FOR INTERNAL AREA	PVC			NOTE 1 NOTE 5
5	TIE FOR CABLE TAG IN INTERNAL AREA	NYLON 6.6			
6	CORE FERRULES	PVC			

NOTES:

1) ALL CABLES SHALL BE IDENTIFIED AT EACH TERMINATION AND EACH SIDE OF ANY OBSTACLE (E.G. CABLE TRANSIT ON WALLS INSIDE SHELTER AND FLOOR DECK CROSSING, BY THEIR RESPECTIVE TAGS/NUMBERS, AS INDICATED ON THE CABLE SCHEDULE.
CABLE IDENTIFICATION SHALL BE ALSO DONE BELOW AND IN THE SWITCHBOARD CABLE COMPARTMENT.

2) CABLE CORE FERRULES SHALL BE FITTED AT EVERY TERMINATION. THESE FERRULES SHALL BE OF ENGRAVED PLASTIC SLIP ON, INTERLOCKED AND SELF GRIP TYPE.

3) ON CABLE TRAYS OR LADDERS, CABLES SHALL BE IDENTIFIED AT EACH END, AND EVERY 25 METERS.

4) THE CABLE TAG FOR EXTERNAL AREA SHALL DONE BY 316L STAINLESS STEEL LABELS, TAG (H=5mm) SHALL BE LASER PRINTED PREFERABLY OR EMBOSSED, LABEL HELD BY TWO 316L STAINLESS STEEL TIES.

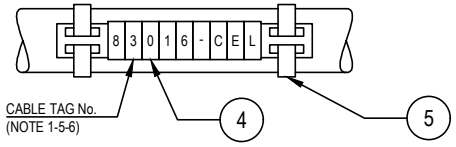
5) THE CABLE TAG FOR INTERNAL AREA SHALL BE DONE BY ENGRAVED PLASTIC SLIP ON CHARACTERS ONTO PLASTIC TIE, BLACK LETTER (H=5mm) ON WHITE.

6) CABLE AND CONDUCTOR TAG ARE INDICATIVE ONLY.

7) WITHIN TECHNICAL BUILDING, PROTECTIVE CONDUCTOR SHALL BE TAGGED BETWEEN FOLLOWING ITEMS:
- PANEL (SWITCHBOARD, SWITCHGEAR, DISTRIBUTION BOARD, ETC) AND EARTH BAR
- EARTH BAR AND EARTH BOSS

8) ONLY IF NECESSARY, SHRINK TUBES OF THE APPROPRIATE COLOR WILL BE INSTALLED TO COVER THE WRONG CONDUCTOR COLOR, THIS WILL BE PERFORMED IN EACH SIDE OF THE CABLES WHERE NECESSARY.

POWER CABLE TAG FOR INTERNAL AREA



VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DD-20092**

REV.:	DATE:	SIGNATURE:
2_D	20/12/24	V.Ramponi

ROSETTI MARINO SpA

CROSSWIND

ROSETTI MARINO

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	28/08/24	GRA	AMA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	04/07/24	NLK	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	21/11/23	SPS	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL TYPICAL INSTALLATION DETAILS-POWER SYSTEM & CABLE INSTALLATION
CABLES INSTALLATION SYSTEM IDENTIFICATION FOR POWER CABLES

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK | SCALE : NTS

A3 | DRAWING NO. 123A90-DDL-EL-DD-20092 | SHEET 007 | REV. 02

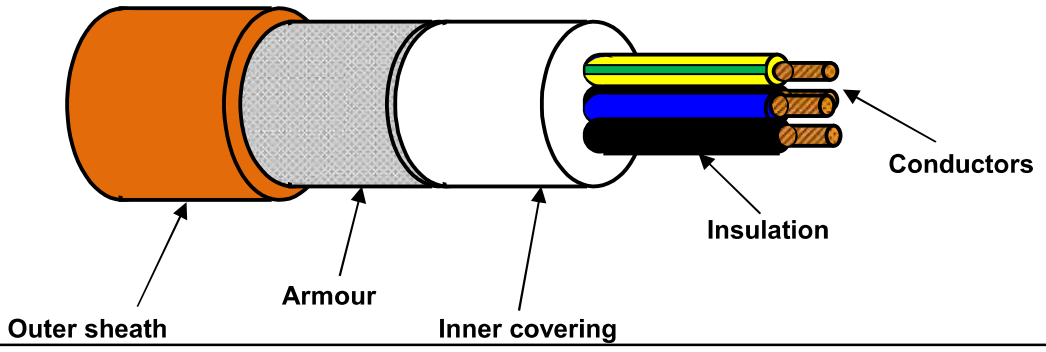
F.to UNI A3: 420mmx297mm

File Name : 123A90-DDL-EL-DD-20092 REV.02.DWG

Tag Number	Category	Disciplir	Eng Statu	NativeDoc	Layout	Parent Tag	Main Function	Secondary Fun	Area	From Tag	From Main Function	From Area	To Tag	To Main Function	To Area	Material ID	Material Desc.	Gland Standard	From Glan	From Entry	From Fitt	To Gland	To Entry	To Fitting	Routing	Routing Manual
P-EJB-200N1-02-L1-20	Cable	LSP	VFC	123A90-DDL-EL-LIS-20148						EJB-200N1-02-L1-14	Normal Lighting JB	Upper Deck	EJB-200N1-02-L1-20	Normal Lighting JB	Upper Deck	ELECV38-3G4	Cable Cu Cl.2/MGT/EPR/LSZH/GSWB/LSZH 0,6/1kV 3G4mm² - Orange	M20	T2_M20_Double			T2_M20_Double				L-150-102-LVT-005

Cu Cl.2/MGT/EPR/LSZH/GSWB/LSZH 0,6/1 KV

3G4 - L.V. POWER CABLE - Fire Resistant & Flame Retardant - ARMOURED



TECHNICAL FEATURES

Conductors :	**STRANDED** plain/bare annealed copper wires	IEC 60228 Class 2
Insulation :	Mica/Glass Tape (MGT) plus EPR compound, quality to IEC 60092.360, Nominal Thickness 1,0 mm	
Cores colour code :	**Brown - Blue - Yellow/Green**	
Pair Assembling :	Not required	
Pair Wrapping:	Not required	
Drain wire :	Not required	
Pair Shield :	Not required	
Shield Insulation :	Not Required	
Total Assembling :	Cores layed up with optimal lay length	
Overall Wrapping:	Not required	
Drain wire :	Not required	
Overall Shield:	Not required	
Inner covering :	Extruded LSZH compound, Average Thickness 1,0 mm	
Inner covering color code:	**Black or Natural**	
Armour :	**Galvanized Steel Wire Braid Armour (coverage ≥ 90%)**	
Outer sheath :	Extruded LSZH Thermoplastic Compound (O.I. ≥ 30%), type **SHF1** to IEC 60093.360, Average Thickness 1,4 mm	
Outer sheath color code:	**Orange**	
Outer printing (INKJET) :	**FLEI - ELECTRIC CABLE - 1000V - 3G4 SQMM - MGT/EPR/LSZH/GSWB/LSZH - 0,6/1 KV - IEC 60331.21 -**	
	IEC 60332.1.2 - IEC 60332.3.22 - Year of Manufacture - CE + Meter Marking	
Under Armour diameter :	(13,0 ± 10%) mm	
Over Armour diameter :	(14,2 ± 10%) mm	
Outer diameter :	(17,0 ± 10%) mm	
Bending radius :	cable outer diameter x 10	(in fixed installation)
Voltage test :	3,5 kV a.c. for 5' (Between Cores - Armour)	
Conductors DC Resistance :		IEC 60228 Class 2
Insulation Resistance :	≥ 790 MΩ x Km (@ 20°C)	
Applicable Standards		
Design Guidelines :	**IEC 60092.353**	
ON COMPLETE CABLE		
Fire Resistant test :	**IEC 60331.21**	
Flame Retardant test :	IEC 60332.1.2 - IEC 60332.3.22	
Acid Gas generation :	IEC 60754.1/2	
Smoke density/Light Transmittance	IEC 61034.2 (LT ≥ 60%)	
Temperature Range :		
ON INSULATION	(max +90°C)	(max continuous operation temperature of conductors)
	(max +250°C)	(max conductors temperature during short-circuit for 5 seconds)
ON COMPLETE CABLE		
During Operation :	(-20°C up to +90°C)	(in fixed installation)
During installation :	(- 5°C up to +50°C)	
Note :	**To meet the requirements of installation and use in Zone 1 & Zone 2 (IEC 60079-14) and "Gas & Vapour Tight" the cable must be provided with Penetrating Inner covering together with correct ATEX approved equipment or accessories.**	

Office	Date	Sign	Rev.	Date	Sign
Drawn by :	29/03/2024	Messa			
Checked :	29/03/2024	Spaccasassi			
Approved :	29/03/2024	Cucinotta			

The data provided, lending assent for the treatment, will be used to the sense of the article 13 of of the Regulation (UE) 2016/679, also through outsiders, in order to allow the realization of the fulfilments informatives, administrative, commercial and accounting related to the contractual relationship. Integral copy of the informative could be requested at our offices.

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ROSETTI MARINO | PROVERLIS | CROSSWIND

ITEM	Tag	EJB-200N1-02-L1-20	: Normal Lighting JB			Dwg	123A90-DDL-EL-DL-20118
	S/Sys	83-40	: Normal Lighting Upper Deck			Module	UD
TASK	code	C10002369		Location	Onshore Activities	User	Rosetti Marino Quality Control
FORM	Process	MC	Activity CCK	Discipline	Electrical	Form	CPX31 Junction and Marshalling Box

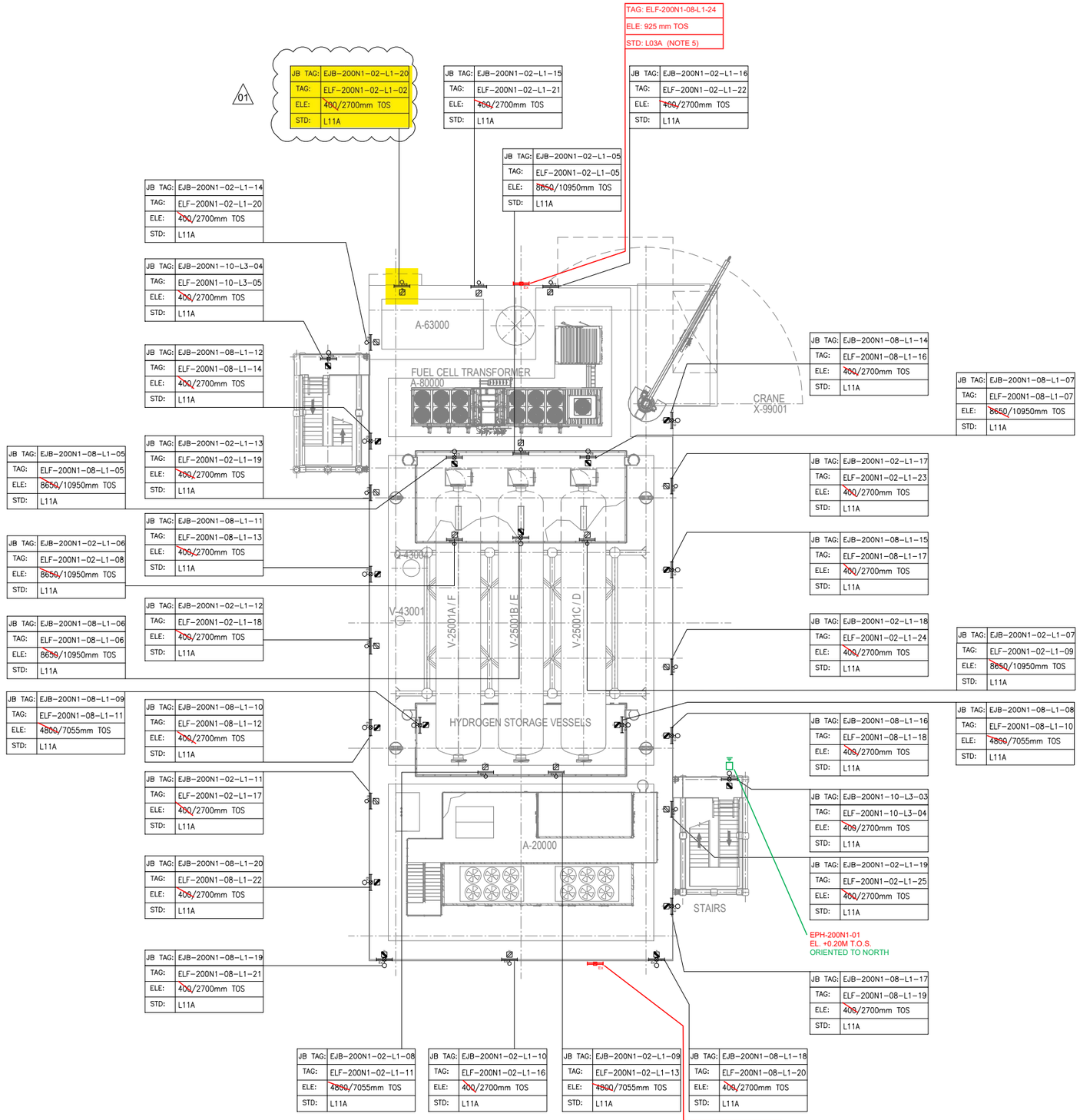
1	Check box is de-energized and safe.	OK
2	Check box is correctly mounted and easily accessible.	PL
3	Check box tagging against drawing.	PL
4	Check nameplate data is correct.	OK
5	Check flameproof joints are clean and greased with approved lubricants (if required).	NA
6	Check for damaging gaskets.	OK
7	Check all bolts are fitted and correcly tighted .	OK
8	Check all unused entries are suitably plugged.	OK
9	Check earthing and bonding against drawings.	OK
10	Check terminal blocks segregation barriers are fitted where necessary.	NA
11	If required produce Red Line Mark Up for "AS BUILT"	

Comments:

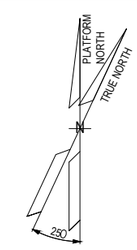
	Performed by	● WITNESS ☐ REVIEW	☐ WITNESS ☐ REVIEW
Company	ICS IMPIANTI	RM(ROSETTI MARINO)	
Name	Michele Tartaglia	Gabriele Bertuccelli	
Date	2025-01-24	2025-01-24	
Signature	PROVERLIS Digitaly signed by Michele Tartaglia 2025-01-24T13:13:48.834Z	PROVERLIS Digitaly signed by Gabriele Bertuccelli 2025-01-24T16:10:49.891Z	

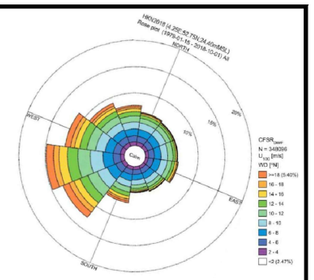
DRAWING NO. 123A90-DDL-EL-DL-20118

REV. 01



PLAN ON UPPER DECK
EL+30.310 T.O.S.





NOTES

1. ALL DIMENSIONS AND ELEVATIONS ARE GIVEN IN mm UNLESS OTHERWISE NOTED.
2. ELEVATIONS REFER TO T.O.S.
3. ELEVATION OF THE LAMPS ARE REFFERED TO THE BOTTOM OF THE LAMP.
4. FOR THE ELEVATION OF JB, REFER TO THE TYPICAL INSTALLATION.
5. FOR ELF-200N1-08-L1-24 AND ELF-200N1-08-L1-25 CONSTRUCTION DETAILS REFER TO DOC. 123A90-DDL-ST-DD-90076

LEGEND

- EMERGENCY LIGHTING JB
- 60W LED EMERGENCY LUMINARIES
- 60W LED EMERGENCY LUMINARIES FIXTURE POLE MOUNTED
- NORMAL LIGHTING JB
- 45W LED NORMAL LUMINARIES
- 45W LED NORMAL LUMINARIES FIXTURE POLE MOUNTED
- WELDING SOCKET WITH INTEGRATED JB
- SMALL POWER SOCKET WITH INTEGRATED JB
- TWILIGHT RELAY SENSOR

JB TAG:	JB-TAG
TAG:	TAG
ELE:	ELEVATION
STD:	STANDARD

REFERENCE DOCUMENTS

123A90-DDL-PP-DL-70070	PLOT PLAN - LOWER & UPPER DECK
123A90-DDL-EL-DL-20100	ELECTRICAL EQUIPMENT LAYOUT - TOP DECK
123A90-DDL-EL-DD-20091	ELECTRICAL TYPICAL INSTALLATION DETAILS - LIGHTING SYSTEM
123A90-DDL-EL-DD-20092	ELECTRICAL TYPICAL INSTALLATION DETAILS - POWER SYSTEM & CABLE INSTALLATION
123A90-DDL-EL-RE-20153	LIGHTING CALCULATION STUDY REPORT
123A90-DDL-ST-DD-90076	IDENTIFICATION PANELS ASSEMBLY AND DETAILS

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	02/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	28/05/24	ASR	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DL-20118**

REV.:	DATE:	SIGNATURE:
1_F	26/11/24	G.Randi

ROSETTI MARINO SpA

CROSSWIND | ROSETTI MARINO

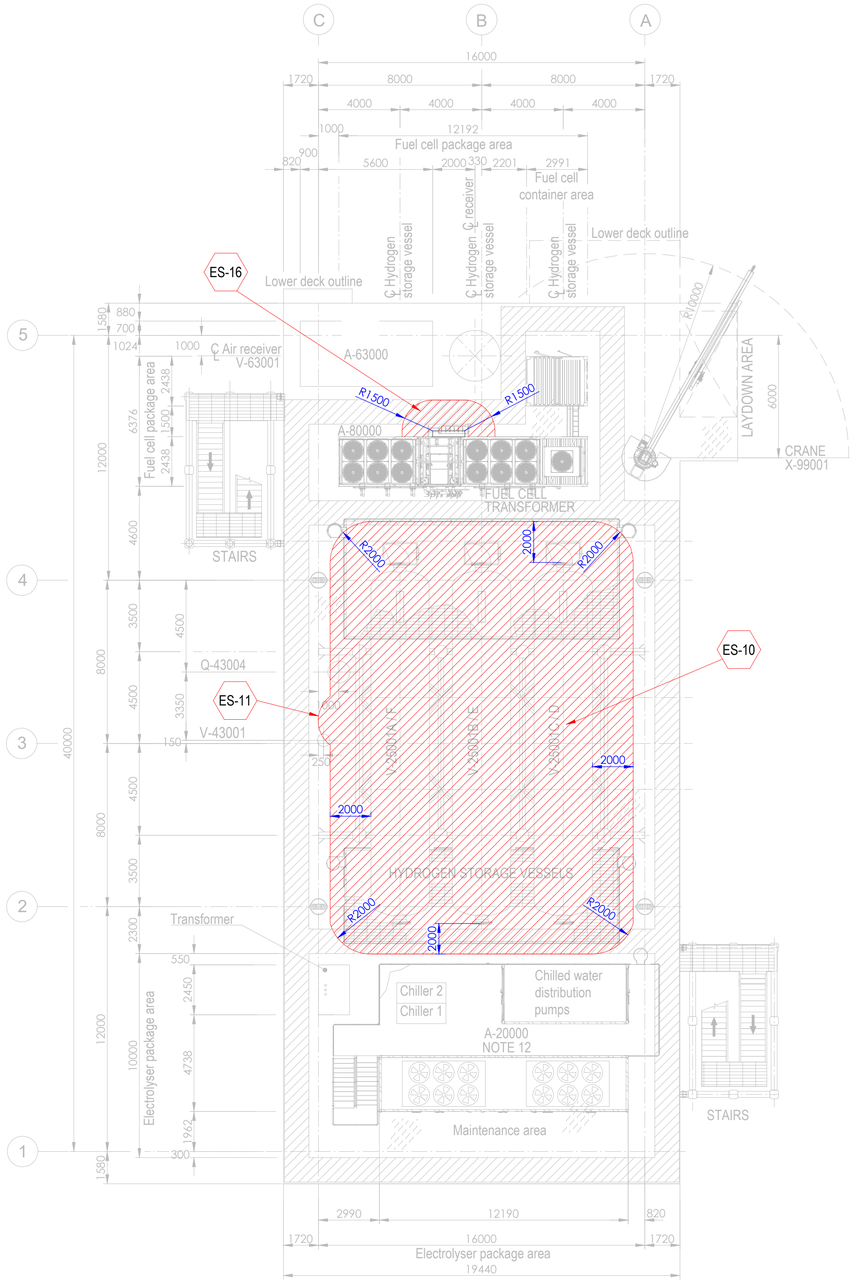
TITLE : BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET LAYOUT – TOP DECK

CONTRACT NO./TITLE	CW-1-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK	SCALE	1:150
DRAWN ASR	CHECKED FMA/AMA	APPROVED FPA/DLO	DATE 01/08/24
A1	DRAWING NO. 123A90-DDL-EL-DL-20118	SHEET 1of2	REV. 01

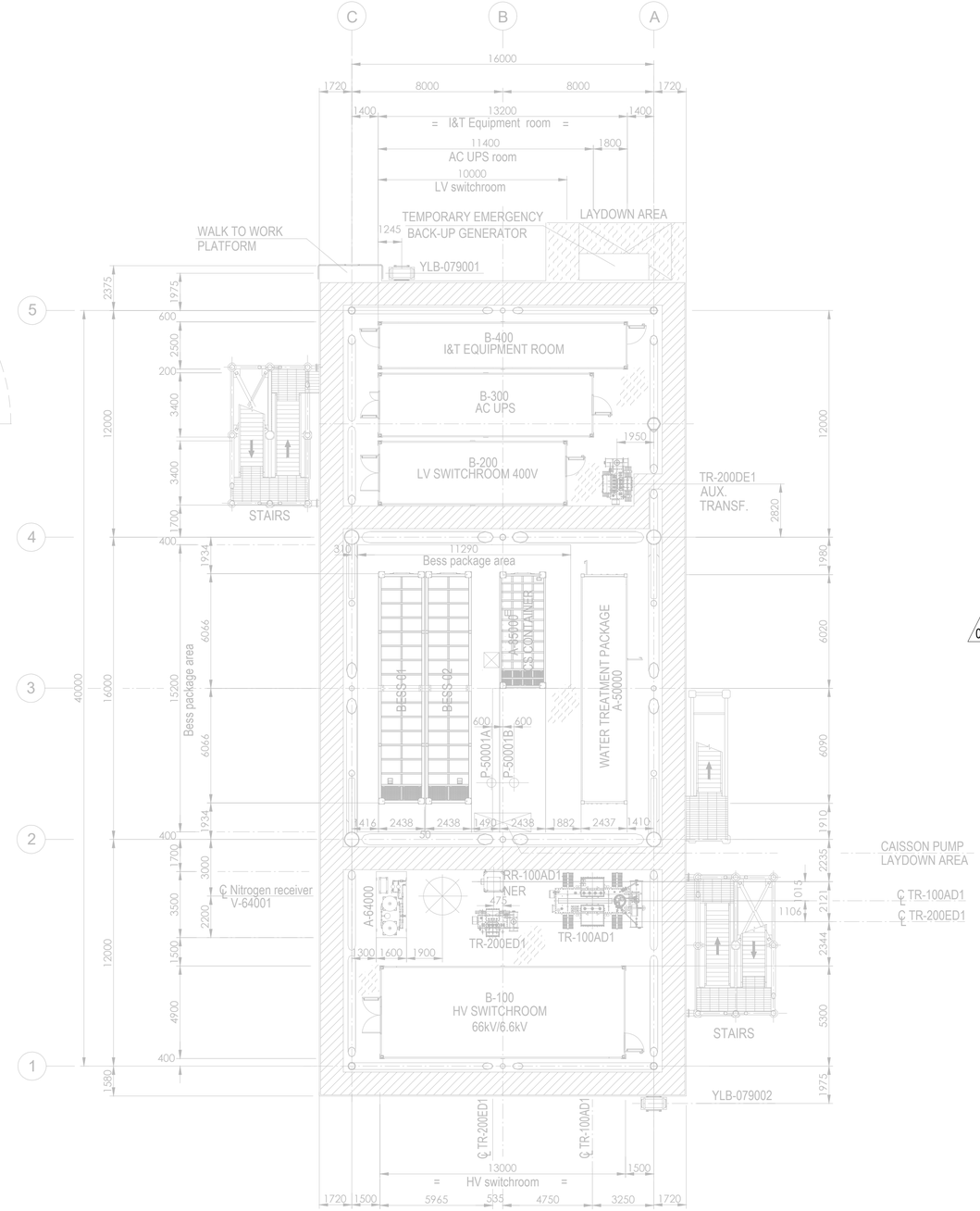
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DRAWING NO. 123A90-DDL-SAF-DL-30022

REV. 02



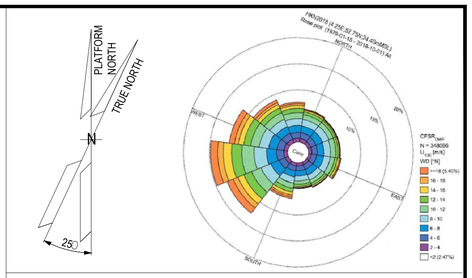
PLAN ON UPPER DECK
EL+30.310 T.O.S.



PLAN ON LOWER DECK
EL+23.310 T.O.S.

Tag No.	Equipment Tag	Description	Material	Ventilation Type
01	P-50001 A/B	SEA WATER LIFT PUMPS	SEA WATER	NATURAL (OPEN AREA)
02	Q-43004	HYDROGEN VENT	HYDROGEN	NATURAL (OPEN AREA)
03	V-43001	HYDROGEN VENT KO DRUM	HYDROGEN	NATURAL (OPEN AREA)
04	V-25001 (A/B/C/D/E/F)	HYDROGEN STORAGE VESSELS	HYDROGEN	NATURAL (OPEN AREA)
05	V-63001	AIR RECEIVER	INSTRUMENT AIR	NATURAL (OPEN AREA)
06	A-20000	ELECTROLYSER PACKAGE		
07	A-63000	INSTRUMENT AIR PACKAGE		
08	A-80000	FUEL CELL PACKAGE		
09	A-85000	BESS PACKAGE		
10	YLB-079001/2	LIFE RAFTS		
11	A-50000	WATER TREATMENT PACKAGE		

Tag No.	Equipment Tag	Description	Material	Ventilation Type
12	A-64000	NITROGEN SYSTEM		
13	B-100	HV SWITCHROOM 66kV/6.6kV		
14	B-200	LV SWITCHROOM 400V		
15	B-300	AC UPS EQUIPMENT ROOM		
16	B-400	I&T EQUIPMENT ROOM		
17	TR-100AD1	TRANSFORMER MAIN 66kV/6.6kV		
18	RR-100AD1-NER	NEUTRAL EARTHING RESISTOR		
19	TR-200DE1	TRANSFORMER AUX. 6.6kV/0.4kV		
20	TR-200ED1	SOLAR TRANSFORMER PV FARM EQUIPMENT		
21	X-99001	CRANE		
22	V-64001	NITROGEN RECEIVER		



NOTES

1. ALL DIMENSIONS IN mm U.N.O.
2. ALL ELEVATIONS IN METERS.
3. PLATFORM NORTH DIRECTION IS N 25°W.
4. VENT TOP SHALL BE REACHEABLE FOR MAINTENANCE PURPOSE.
5. THE BESS IS CONSIDERED SAFE AREA EXCEPT EXTRACTORES FROM BATTERIES , CURRENTLY NOT SHOWN IN DRAWINGS, SINCE INFORMATION FROM VENDOR IS NOT YET AVAILABLE.[ES17].
6. THE LOCATION OF EMISSION SOURCES ON THE LAYOUT ARE ONLY INDICATIVE. EMISSION SOURCES CONSIDERED ARE PRESENT WITHIN THE EXTENSION OF HAZARDOUS CLASSIFIED AREAS SHOWN ON THE LAYOUT. THIS IS BECAUSE VALVES AND FLANGES,WHICH ARE CONSIDERED POTENTIAL SOURCES OF RELEASE POINTS FOR FLAMMABLE GAS ARE NOT SHOWN ON CURRENT LAYOUT PROVIDED. THE SAME APPLIES TO THE EMISSION SOURCES FOR CPI'S ITEM.
7. IDENTIFIED EMISSION SOURCES DETAIL.

02
8. FOR DETAILS RELATED TO ELECTROLYSER PACKAGE INTERNAL ENCLOSURES REFER TO DRAWING 224J10-DDL-PP-DA-00001 REV 0.
9. FOR DETAILS RELATED TO FUELL CELL PACKAGE INTERNAL ENCLOSURES REFER TO DRAWING K559-2254-CWIWP4202202-B01-001 REV 009".
10. THE N.6 HYDROGEN STORAGE VESSELS ARE NOT CLASSIFIED INTERNALLY SINCE THEY ARE DESIGNED TO CONTAIN HYDROGEN OR NITROGEN FOR THE ENTIRE DURATION OF THE 2 YEARS OF OPERATION.

EMISSION SOURCE No.	IDENTIFIED AREAS
ES10	HYDROGEN STORAGE VESSLES
ES11	HYDROGEN VENT KO DRUM
ES16	FUEL CELL

LEGEND

ZONE 0 — ZONE 1

ZONE 2 — ES EMISSION SOURCES

123A90-DDL-PP-DS-70071	PLOT PLAN - BELOW LOWER DECK
123A90-DDL-PP-DS-70072	PLOT PLAN - ELEVATION LOOKING NORTH & EAST

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	15/01/25	MMA	CCA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	27/08/24	MMA	CCA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	08/02/24	MMA	CCA	DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND

ROSETTI MARINO

TITLE :
BASE LOAD POWER HUB (BLPH)
HAZARDOUS AREA CLASSIFICATION
LOWER & UPPER DECK

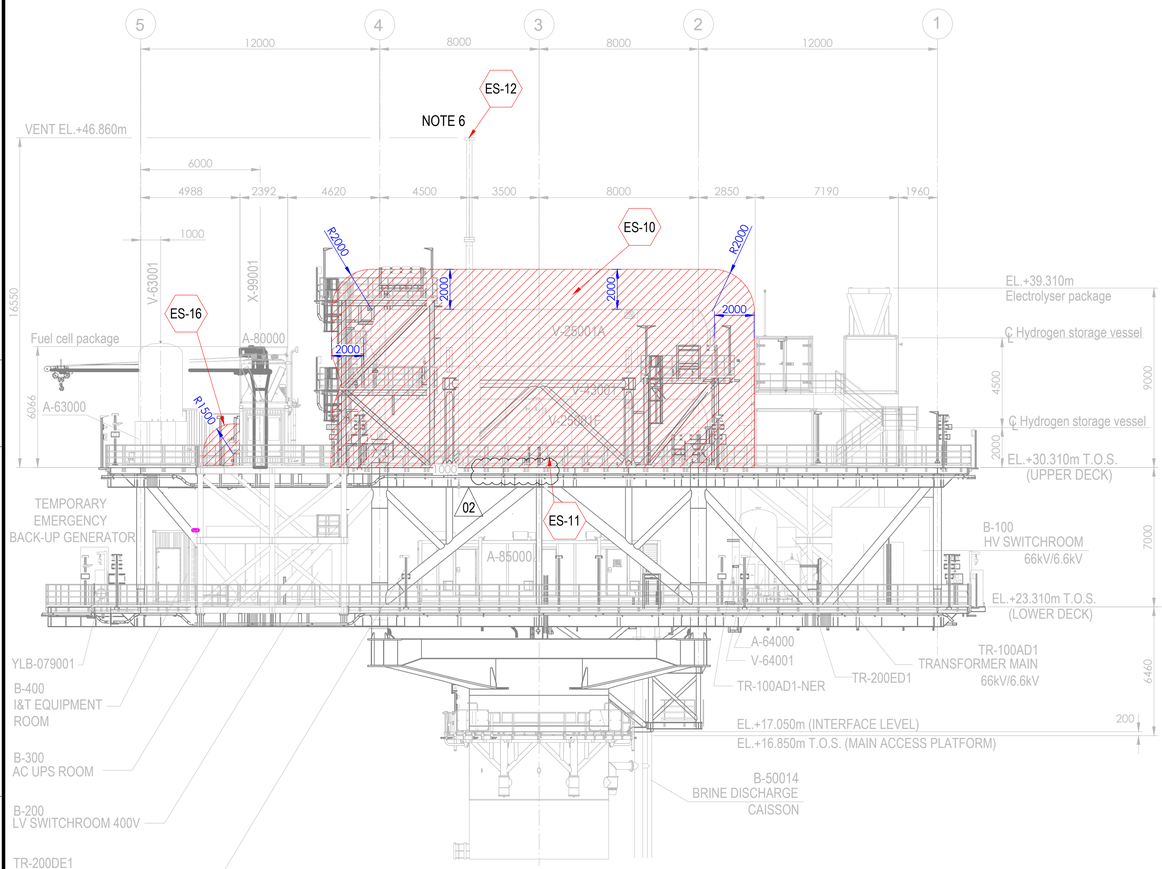
CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK			SCALE 1:150
DRAWN M. MAGNI	CHECKED C. CARACCIOLO	APPROVED D. LO STERZO	DATE 03/07/24

	DRAWING NO.	SHEET	REV.
A1	123A90-DDL-SAF-DL-30022	001	02

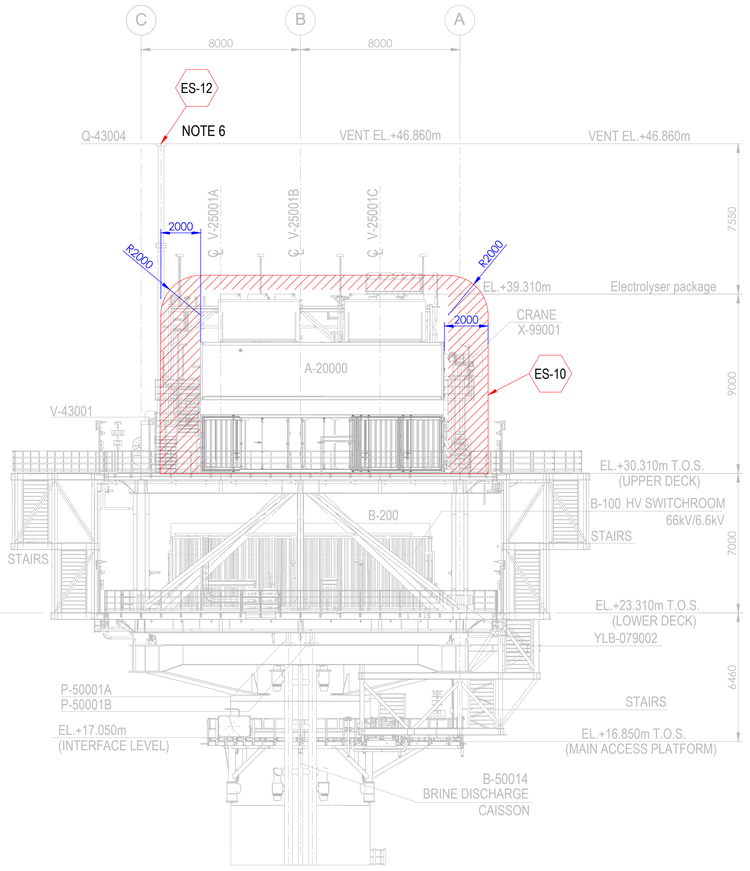
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DRAWING NO. 123A90-DDL-SAF-DL-30024

REV. 02

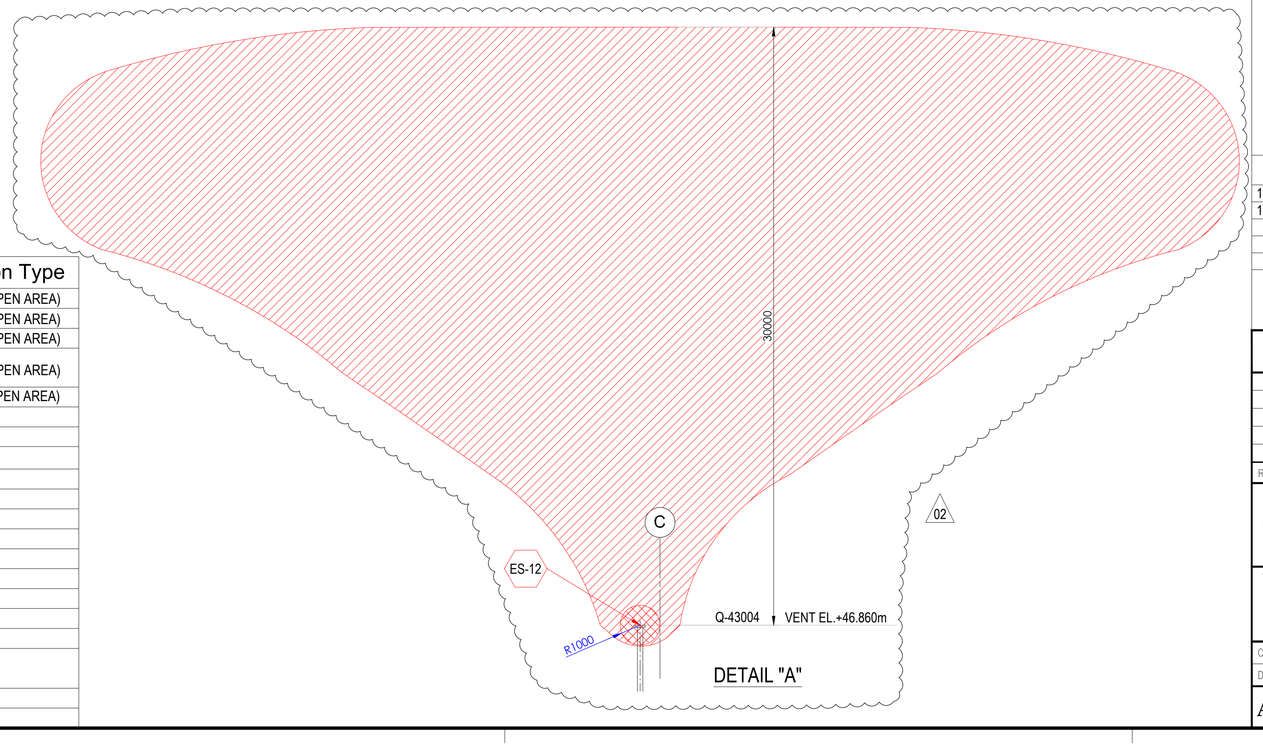


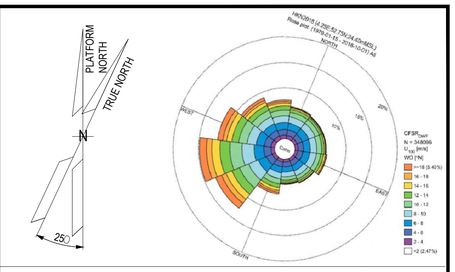
ELEVATION LOOKING EAST



ELEVATION LOOKING NORTH

Tag No.	Equipment Tag	Description	Material	Ventilation Type
01	P-50001 A/B	SEA WATER LIFT PUMPS	SEA WATER	NATURAL (OPEN AREA)
02	Q-43004	HYDROGEN VENT	HYDROGEN	NATURAL (OPEN AREA)
03	V-43001	HYDROGEN VENT KO DRUM	HYDROGEN	NATURAL (OPEN AREA)
04	V-25001 (A/B/C/D/E/F)	HYDROGEN STORAGE VESSELS	HYDROGEN	NATURAL (OPEN AREA)
05	V-63001	INSTRUMENT AIR RECEIVER	INSTRUMENT AIR	NATURAL (OPEN AREA)
06	A-20000	ELECTROLYSER PACKAGE		
07	A-63000	INSTRUMENT AIR PACKAGE		
08	A-80000	FUEL CELL PACKAGE		
09	A-85000	BESS PACKAGE		
10	YLB-079001/2	LIFE RAFTS		
11	B-100	HV SWITCHROOM 66kV/6.6kV		
12	B-200	LV SWITCHROOM 400V		
13	B-300	AC UPS EQUIPMENT ROOM		
14	B-400	I&T EQUIPMENT ROOM		
15	TR-100AD1	TRANSFORMER MAIN 66kV/6.6kV		
16	TR-100AD1-NER	NEUTRAL EARTHING RESISTOR		
17	TR-200DE1	TRANSFORMER AUX. 6.6kV/0.4kV		
18	TR-200ED1	SOLAR TRANSFORMER PV FARM EQUIPMENT		
19	X-99001	CRANE		
20	V-64001	NITROGEN RECEIVER		





NOTES

1. ALL DIMENSIONS IN mm U.N.O
2. ALL ELEVATIONS IN METERS.
3. PLATFORM NORTH DIRECTION IS N 25°W.
4. VENT TOP SHALL BE REACHEABLE FOR MAINTENANCE PURPOSE.
5. THE BESS IS CONSIDERED SAFE AREA EXCEPT EXTRACTORES FROM BATTERIES , CURRENTLY NOT SHOWN IN DRAWINGS, SINCE INFORMATION FROM VENDOR IS NOT YET AVAILABLE.[ES17]
6. FOR ES12 PLUME, PLEASE REFER TO THE DETAIL "A" BELOW. (02)
7. THE LOCATION OF EMISSION SOURCES ON THE LAYOUT ARE ONLY INDICATIVE. EMISSION SOURCES CONSIDERED ARE PRESENT WITHIN THE EXTENSION OF HAZARDOUS CLASSIFIED AREAS SHOWN ON THE LAYOUT. THIS IS BECAUSE VALVES AND FLANGES,WHICH ARE CONSIDERED POTENTIAL SOURCES OF RELEASE POINTS FOR FLAMMABLE GAS ARE NOT SHOWN ON CURRENT LAYOUT PROVIDED. THE SAME APPLIES TO THE EMISSION SOURCES FOR CPI'S ITEM.
8. IDENTIFIED EMISSION SOURCES DETAIL

EMISSION SOURCE No.	IDENTIFIED AREAS
ES10	HYDROGEN STORAGE VESSLES
ES11	HYDROGEN VENT KO DRUM
ES12	HYDROGEN VENT
ES16	FUEL CELL

LEGEND

ZONE 0 — ZONE 1

ZONE 2 — ES EMISSION SOURCES

REFERENCE DOCUMENTS

123A90-DDL-PP-DS-70070	PLOT PLAN - LOWER & UPPER DECK
123A90-DDL-PP-DS-70071	PLOT PLAN - BELOW LOWER DECK

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	15/01/24	MMA	CCA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	27/08/24	MMA	CCA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	08/02/24	MMA	CCA	DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND

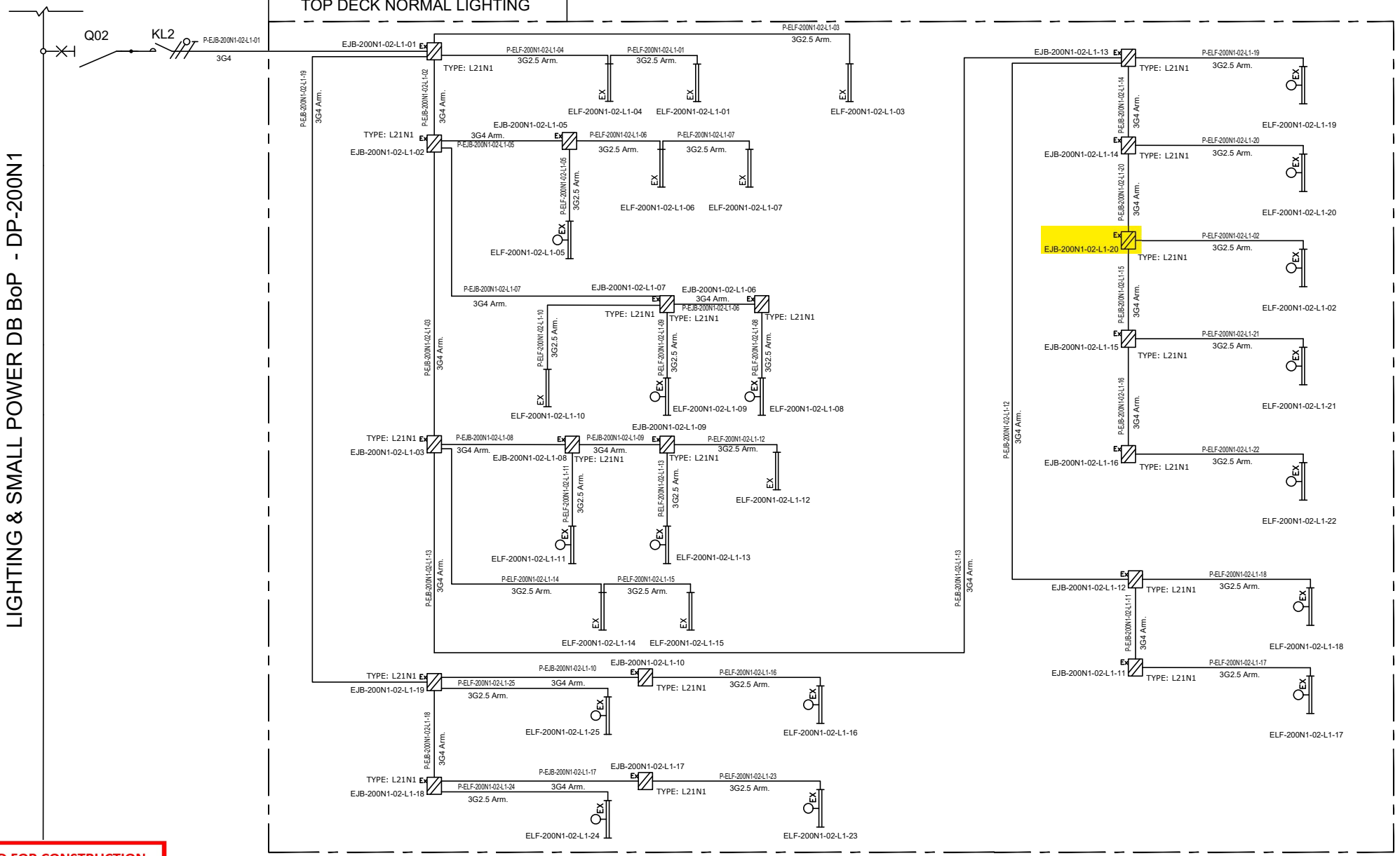
ROSETTI MARINO

TITLE :
BASE LOAD POWER HUB (BLPH)
HAZARDOUS AREA CLASSIFICATION
ELEVATION LOOKING NORTH & EAST

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK			SCALE 1:150
DRAWN M. MAGNI	CHECKED C. CARACCIOLO	APPROVED D. LO STERZO	DATE 03/07/24

A1 | DRAWING NO. 123A90-DDL-SAF-DL-30024 | SHEET 001 | REV. 02

File Name : 123A90-DDL-SAF-DL-30024 Rev.02



VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DG-20125**

REV.:	DATE:	SIGNATURE:
2_C	20/12/24	V.Ramponi

ROSETTI MARINO SpA

CROSSWIND

ROSETTI MARINO

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	08/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	01/07/24	ASR	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

TITLE : BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET CIRCUIT DIAGRAM
TOP DECK–NORMAL LIGHTING

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE : NTS

A3

DRAWING NO. 123A90–DDL–EL–DG–20125

SHEET 010

REV. 01

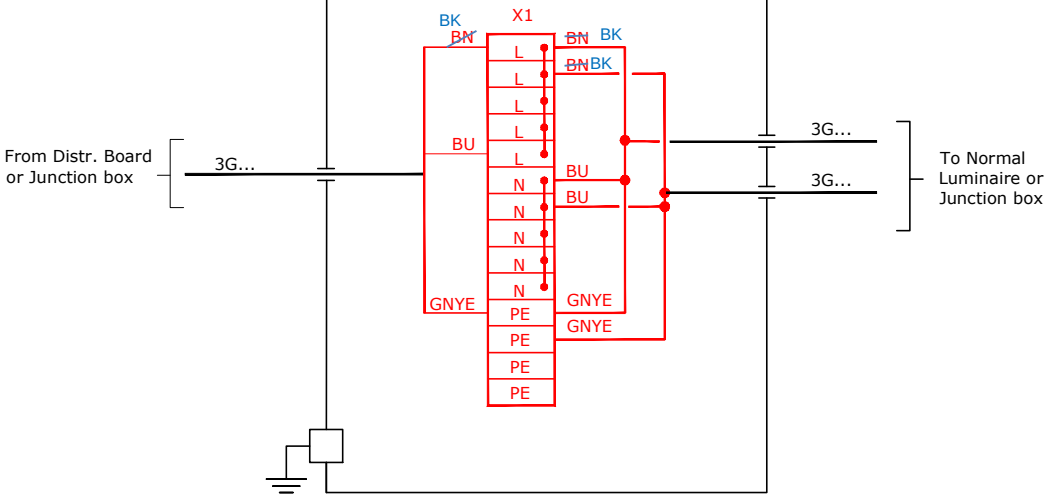
F.to UNI A3: 420mmx297mm

File Name : 123A90–DDL–EL–DG–20125

TYPE : L21N1 & L21N2

ITEM: NORMAL LIGHTING JUNCTION BOX

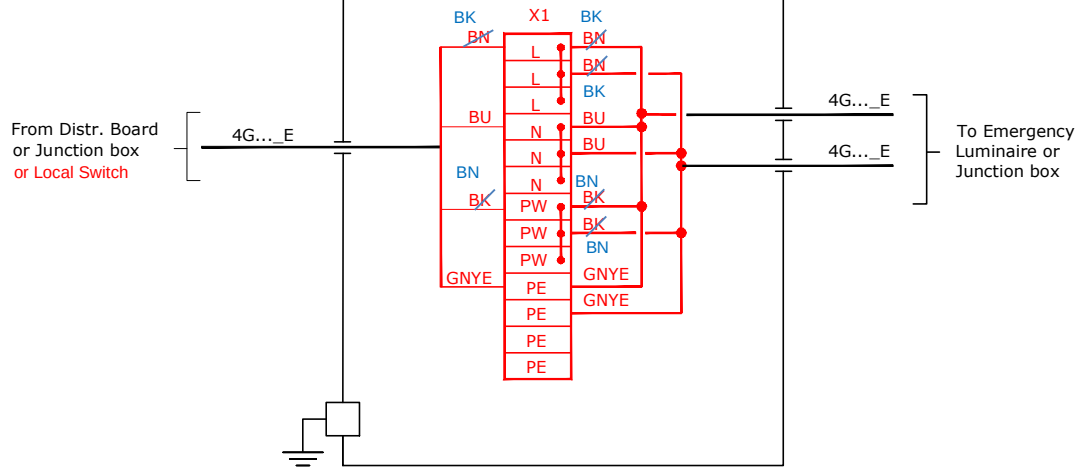
TAG : Typical



TYPE : L21E1 & L21E2

ITEM: EMERGENCY LIGHTING JUNCTION BOX

TAG : Typical



VALID FOR CONSTRUCTION

FDL DWG: **123A90-FDL-EL-DG-20125**

REV.:	DATE:	SIGNATURE:
2_C	20/12/24	V.Ramponi

ROSETTI MARINO SpA

CROSSWIND

ROSETTI MARINO

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	08/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)

TITLE : BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET CIRCUIT DIAGRAM
TYPICAL JB INTERCONNECTING DIAGRAM

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE : NTS

A3

DRAWING NO. 123A90-DDL-EL-DG-20125

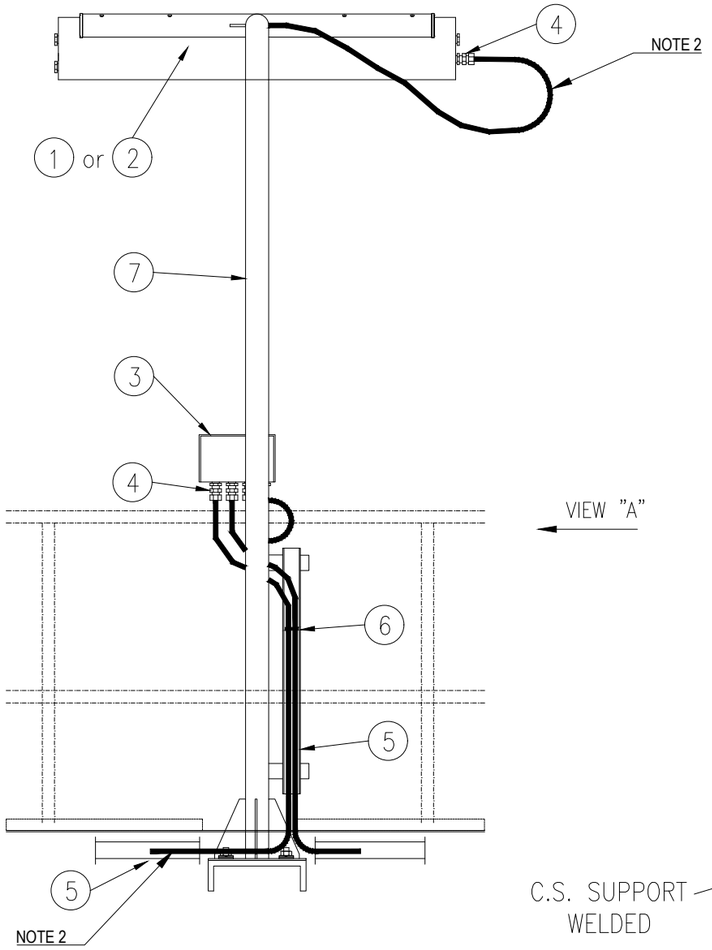
SHEET 016

REV. 01

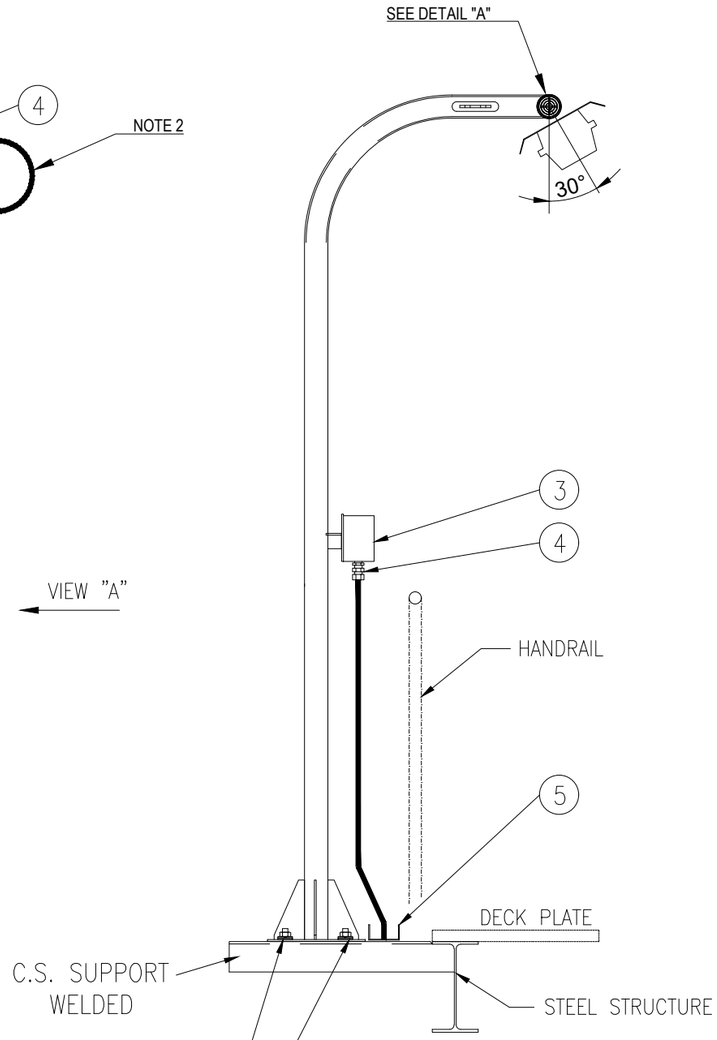
F.to UNI A3: 420mmx297mm

File Name : 123A90-DDL-EL-DG-20125

L11A

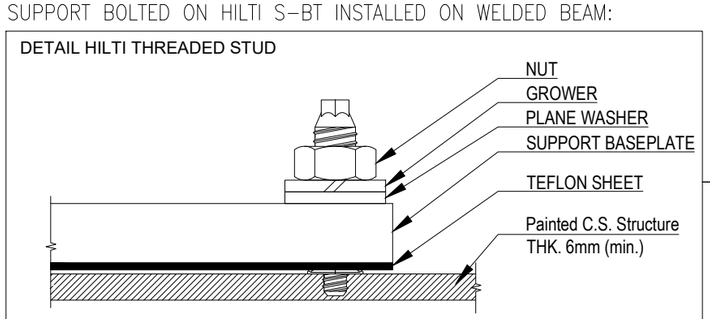


VIEW "A"

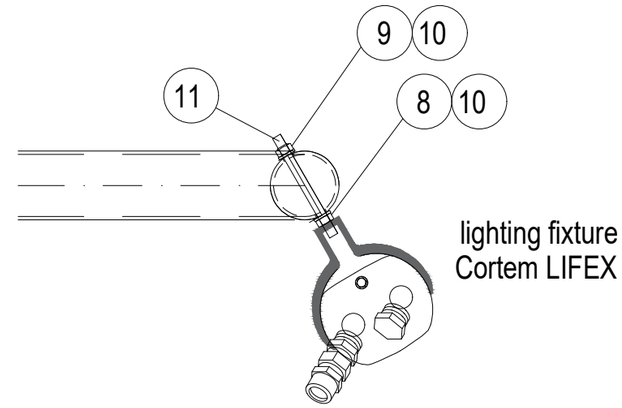


VIEW "A"

SUPPORT BOLTED ON HILTI S-BT INSTALLED ON WELDED BEAM:



POS.	DESCRIPTION	MATERIAL	SIZE	Q.TY	NOTE
1	42W LED LUMINARIES	ALUMINIUM ALLOY		1	
2	45W LED LUMINARIES C/W BATTERY	ALUMINIUM ALLOY		1	
3	JUNCTION BOX (Ex)	GRP		1	NOTE 1
4	CABLE GLAND ~~C/W EARTH TAG~~, WASHERS, LOCKNUT AND WEATHERPROOF WASHERS	BRASS NICKEL PLATED		AS REQ.	
5	CABLE TRAY	AISI 316L			
6	STAINLESS STEEL NYLON COATED CABLE TIE	SS NYLON COATED			
7	POLE SUPPORT FOR LAMP	AISI 316L	2"		
8	NUT	AISI 316L	M8		
9	SELF.LOCKING NUT	AISI 316L	M8		
10	LARGE PLANE WASHER (24mm DIAM.)	AISI 316L	M8		
11	THREADED ROD M8x100	AISI 316L	M8		



DETAIL "A"

NOTES:

1) FOR LAMPS IN HAZARDOUS AREA, USE ARMOURED CABLE, DOUBLE SEAL CABLE GLAND AND EX JUNCTION BOX.

2) ALWAYS ENSURE CABLE LENGTH IS >3m

VALID FOR CONSTRUCTION

REV.:	DATE:	SIGNATURE:
2_B	12/12/24	C.Pilato

ROSETTI MARINO SpA

02

CROSSWIND

ROSETTI MARINO

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	30/09/24	GRA	AMA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	04/07/24	NLK	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	21/11/23	SPS	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL TYPICAL INSTALLATION DETAILS-LIGHTING SYSTEM
LIGHTING FIXTURE MOUNTED ON POLE

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK | SCALE : NTS

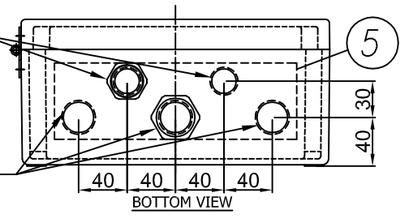
A3 | DRAWING NO. 123A90-DDL-EL-DD-20091 | SHEET 014 | REV. 02

F.to UNI A3: 420mmx297mm

File Name : 123A90-DDL-EL-DD-20091 REV.02.DWG

(10)(4) N°2 PASSING HOLES Ø20.2
C/W N°1 BNK PLUG M20 +
N°1 DUSTPROOF PVC PLUG

(3)(3) N°3 PASSING HOLES Ø25.2
C/W N°1 BNK PLUG M25 +
N°1 DUSTPROOF PVC PLUG



(8) I2400722-B015I00029809

TECHNOR ITALSMEA
A COMPANY OF MARECHAL ELECTRIC
Via Italia 33 - 20060 Gessate (MI) ITALY

CE 0080 Ex II 2G II 2D
FIDI 21ATEX 0090X
IECEx FIDI 21.0015X
Year of construction:

MADE IN ITALY

TYPE: AQ-252612P
230VAC 50Hz 20A
Max Dis. P. 6W

Ex eb IIC T6 Gb
Ex tb IIIC T85°C Db
IP66
T.amb. -20/+40°C
Serial Nr.

WARNINGS : DO NOT OPEN WHEN ENERGIZED

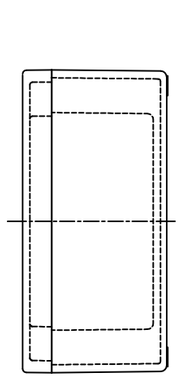
A002MAX

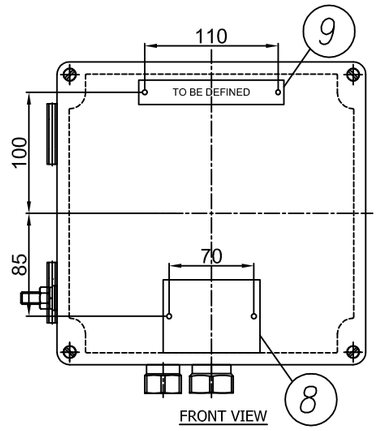
(9) PLATE DETAIL



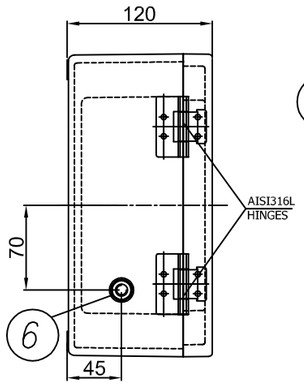
MATERIAL: LAMINATED PLASTIC
BACKGROUND: WHITE
LETTERS: BLACK

(7) Terminals numbered: NOTE 1

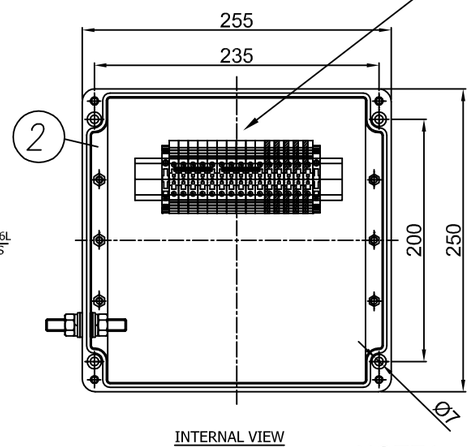

RIGHT VIEW



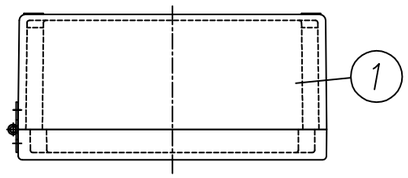
FRONT VIEW



LEFT VIEW



INTERNAL VIEW



TOP VIEW

NOTE1 :
- JB for Normal Lighting have terminals bridge: L-L-L-L-L, N-N-N-N-N, PE-PE-PE-PE-PE - JB for Emergency Lighting have terminals bridge: L-L-L, N-N-N, PW-PW-PW, PE-PE-PE-PE-PE

ITEM	DESCRIPTION	Pcs Q.TY	NOTE/MAT.	CODE	MANUFACTURER
11	DUSTPROOF PVC PLUG Ø25	2	–	.	TECHNOR ITALSMEA
10	DUSTPROOF PVC PLUG Ø20	1	–	.	TECHNOR ITALSMEA
9	LAMINATED PLASTIC TAG 120X20	1	–	.	TECHNOR ITALSMEA
8	AISI316L CERTIFICATE PLATE 80X60	1	–	.	TECHNOR ITALSMEA
7	BEIGE TERMINAL BLOCK SIZE 6 SQMM EARTH TERMINAL BLOCK SIZE 6 SQMM	10 5	WDU–6 WPE–6	.	WEIDMULLER
6	AISI316L INT/EXT EARTH BOLT M10	1	BTP–10	.	TECHNOR ITALSMEA
5	BRASS CONTINUITY PLATE THK. 0.8 MM	1	–	.	TECHNOR ITALSMEA
4	NICKEL PLATED BRASS PLUG M20	1	T20	.	TECHNOR ITALSMEA
3	NICKEL PLATED BRASS PLUG M25	1	T25	.	TECHNOR ITALSMEA
2	INTERNAL MOUNTING PLATE	1	PS–2526	.	TECHNOR ITALSMEA
1	GRP ENCLOSURE	1	AQ–252612P	.	TECHNOR ITALSMEA

-UNPAINTED (BLACK NATURAL)
Q.TY 92, ITEM 20: 2JBXXGPEE, ELEJB02

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
05	20/12/24	FB	OB	OB	ACCEPTED FOR CONSTRUCTION (AFC)
04	26/11/24	FB	OB	OB	ACCEPTED FOR CONSTRUCTION (AFC)
03	25/10/24	FB	OB	OB	ACCEPTED FOR CONSTRUCTION (AFC)
02	12/09/24	FB	OB	OB	ACCEPTED FOR CONSTRUCTION (AFC)
01	03/09/24	FB	OB	OB	ACCEPTED FOR CONSTRUCTION (AFC)
00	30/07/24	FB	OB	OB	ISSUE FOR REVIEW (IFR)

Explosion Proof
Electrical Equipment
Materiali Elettrici Antideflagranti

TECHNOR ITALSMEA
A COMPANY OF MARECHAL ELECTRIC

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)

Junction Box for Normal & Emergency Lighting

CONTRACT NO./TITLE CW–I–WP4–2023–05/HOLLANDSE KUST NOORD WIND PARK

SCALE : NTS

A3

DRAWING NO. 1724001481–EL–DA–00003

SHEET 004

REV. 05

F.to UNI A3: 420mmx297mm

File Name : 1724001481–EL–DA–00003 Rev. 01

ENCLOSURE N°	TAG LIST	NORMAL LIGHTING	EMERGENCY LIGHTING
1	EJB-200N1-03-L2-04	X	
2	EJB-200N1-03-L2-03	X	
3	EJB-200N1-03-L2-01	X	
4	EJB-200N1-03-L2-02	X	
5	EJB-200N1-03-L2-12	X	
6	EJB-200N1-03-L2-11	X	
7	EJB-200N1-03-L2-10	X	
8	EJB-200N1-03-L2-09	X	
9	EJB-200N1-03-L2-08	X	
10	EJB-200N1-03-L2-07	X	
11	EJB-200N1-03-L2-06	X	
12	EJB-200N1-03-L2-05	X	
13	EJB-200N1-03-L2-14	X	
14	EJB-200N1-03-L2-13		X
15	EJB-200N1-09-L2-17		X
16	EJB-200N1-09-L2-01		X
17	EJB-200N1-09-L2-04		X
18	SPARE (TO BE PROVIDED BLANK)		X
19	EJB-200N1-09-L2-02		X
20	EJB-200N1-09-L2-15		X
21	EJB-200N1-09-L2-14		X
22	EJB-200N1-09-L2-13		X
23	EJB-200N1-09-L2-12		X
24	EJB-200N1-09-L2-11		X
25	EJB-200N1-09-L2-10		X
26	EJB-200N1-09-L2-09		X
27	EJB-200N1-09-L2-08		X
28	EJB-200N1-09-L2-07		X
29	EJB-200N1-09-L2-06		X
30	EJB-200N1-09-L2-05		X
31	EJB-200N1-09-L2-16	X	
32	EJB-200N1-04-L3-01	X	
33	EJB-200N1-04-L3-02	X	
34	EJB-200N1-10-L3-05		X
35	EJB-200N1-10-L3-06		X
36	EJB-200N1-10-L3-07		X
37	EJB-200N1-10-L3-08		X
38	EJB-200N1-10-L3-09		X
39	EJB-200N1-10-L3-02		X
40	EJB-200N1-10-L3-01		X
41	EJB-200N1-10-L3-03		X
42	EJB-200N1-10-L3-04		X
43	EJB-200N1-02-L1-03	X	
44	EJB-200N1-02-L1-02	X	
45	EJB-200N1-02-L1-01	X	
46	SPARE (TO BE PROVIDED BLANK)	X	
47	EJB-200N1-02-L1-10	X	
48	EJB-200N1-02-L1-19	X	
49	EJB-200N1-02-L1-18	X	

ENCLOSURE N°	TAG LIST	NORMAL LIGHTING	EMERGENCY LIGHTING
50	EJB-200N1-02-L1-17	X	
51	EJB-200N1-02-L1-16	X	
52	EJB-200N1-02-L1-15	X	
53	EJB-200N1-02-L1-14	X	
54	EJB-200N1-02-L1-13	X	
55	EJB-200N1-02-L1-12	X	
56	EJB-200N1-02-L1-11	X	
57	EJB-200N1-02-L1-06	X	
58	EJB-200N1-02-L1-05	X	
59	EJB-200N1-02-L1-07	X	
60	EJB-200N1-02-L1-08	X	
61	EJB-200N1-02-L1-09	X	
62	EJB-200N1-08-L1-03		X
63	SPARE (TO BE PROVIDED BLANK)		X
64	EJB-200N1-08-L1-01		X
65	EJB-200N1-08-L1-04		X
66	EJB-200N1-08-L1-19		X
67	EJB-200N1-08-L1-18		X
68	EJB-200N1-08-L1-17		X
69	EJB-200N1-08-L1-16		X
70	EJB-200N1-08-L1-15		X
71	EJB-200N1-08-L1-14		X
72	EJB-200N1-02-L1-20	X	
73	EJB-200N1-08-L1-12		X
74	EJB-200N1-08-L1-11		X
75	EJB-200N1-08-L1-10		X
76	EJB-200N1-08-L1-20		X
77	EJB-200N1-08-L1-05		X
78	EJB-200N1-08-L1-06		X
79	EJB-200N1-08-L1-07		X
80	EJB-200N1-08-L1-09		X
81	EJB-200N1-08-L1-08		X
82	EJB-200F2-01	X	
83	EJB-200F2-02	X	
84	SPARE (TO BE PROVIDED BLANK)	X	
85	SPARE (TO BE PROVIDED BLANK)	X	
86	SPARE (TO BE PROVIDED BLANK)	X	
87	SPARE (TO BE PROVIDED BLANK)	X	
88	SPARE (TO BE PROVIDED BLANK)	X	
89	SPARE (TO BE PROVIDED BLANK)		X
90	SPARE (TO BE PROVIDED BLANK)		X
91	SPARE (TO BE PROVIDED BLANK)		X
92	SPARE (TO BE PROVIDED BLANK)		X

Q.TY 92, ITEM 20: 2JBXXGPEE, ELEJB02

Explosion Proof
Electrical Equipment
Materiali Elettrici Antideflagranti

TECHNOR ITALSMEA
A COMPANY OF MARECHAL ELECTRIC

CROSSWIND

ROSETTI MARINO

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
05	20/12/24	FB	OB	OB	ACCEPTED FOR CONSTRUCTION (AFC)
04	26/11/24	FB	OB	OB	ACCEPTED FOR CONSTRUCTION (AFC)
03	25/10/24	FB	OB	OB	ACCEPTED FOR CONSTRUCTION (AFC)
02	12/09/24	FB	OB	OB	ACCEPTED FOR CONSTRUCTION (AFC)
01	03/09/24	FB	OB	OB	ACCEPTED FOR CONSTRUCTION (AFC)
00	30/07/24	FB	OB	OB	ISSUE FOR REVIEW (IFR)

TITLE : BASE LOAD POWER HUB (BLPH)

Junction Box for Normal & Emergency Lighting–Tag List

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE : NTS

A3

DRAWING NO. 1724001481-EL-DA-00003

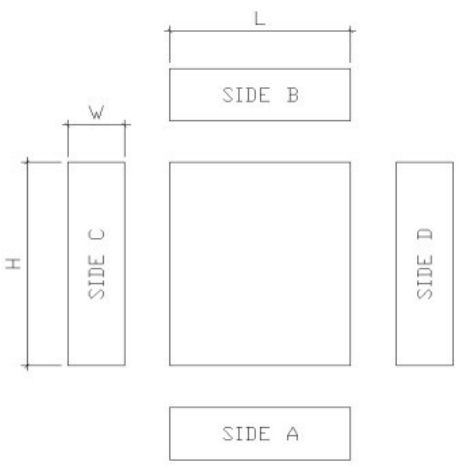
SHEET 005

REV. 05

F.to UNI A3: 420mmx297mm

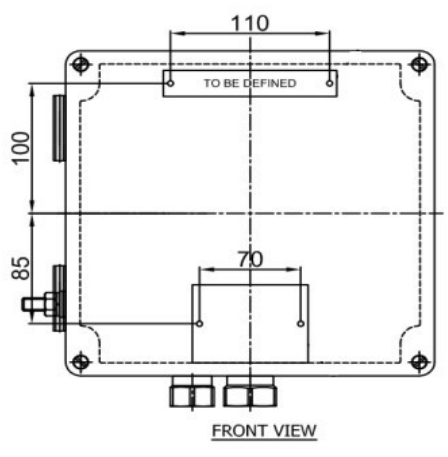
File Name : 1724001481-EL-DA-00003 Rev. 01

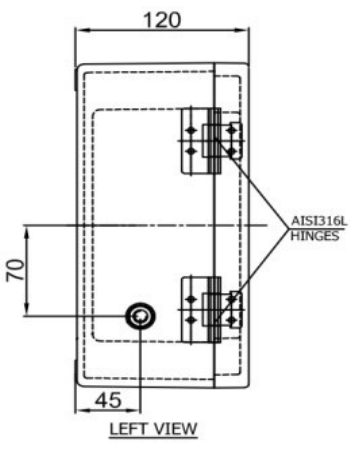
Row	Data Sheet for Control Stations, Junction Boxes and Sockets				Rev.
1	Junction Box for Normal & Emergency Lighting (Exdb)				
2	Item	Required	Manufacturer Proposal	Comments	
3	Model Number	by Vendor	AQ-252612P		01
4	Serial Number	by Vendor	B011041010004		01
5	Quantity	43+5(spare)		(39+9 spare)	01
6	Appkication	Lighting pole JB/Lighting JB			00
7	**Installation area**				
8	Indoor/Outdoor	Outdoor			00
9	Safe Area/Hazardous Area	Hazardous area			00
10	Zone 1/Zone 2	Zone-1			00
11	Temp. Class	Zone 1 Gas Group IIC (or) IIB + H2, T1	Ex eb IIC, T6 Gb		01
12	**Electrical input data**				
13	Voltage	230 V ac	230 V ac		01
14	Number of Phases	1ph + N + PE			00
15	**Material**				
16	Body	GRP	GRP		01
17	Execution	Ex eb	Ex eb		00
18	Protection Degree	IP56	IP 66		01
19	**Accessories**				
20	Hinged Cover	Required	AISI316L Hinges		01
21	Gasket	Required			00
22	Removable Gland Plates	Required	Brass Continuity plate 0.8mm thick		01
23	Internal Mounting Plate	Thickness 3mm threaded		connected to Internal ground bar	00
24	Internal Ground Bar	Required		connected to earth stud	00
25	Earth Stud	Required			00
26	Drainage Valve	Required			00
27	Pad lockable Cover	Required			00
28	Identification Label	Trafolite/ Stainless Steel	Laminated Plastic	for all label	01
29	**Side 'A'**				
30	Hubs Qty.	5	5		01
31	Size	No.3 M25, No.2 M20	No.3 Ø 25.2 mm, No.2 Ø 20.2 mm		01
32	Thread	ISO-M			00
33	Plug	No. 1 M20, No.1 M25	No. 1 Ø 20.2 mm, No.1 Ø 25.2 mm	nickel-plated brass	01
34	**Side 'B'**				
35	Hubs Qty.	Not Required			00
36	Size	NA			00
37	Thread	NA			00
38	**Side 'C'**				
39	Hubs Qty.	Not Required			00
40	Size	NA			00
41	Thread	NA			00
42	**Side 'D'**				
43	Hubs Qty.	Not Required			00
44	Size	NA			00
45	Thread	NA			00
46	**Terminals**				
47	Size [mm^2]	Suitable for 6 Sq.mm & 2.5 Sq.mm Cable	M25 & M20	suitable with wire-end ferrules DIN 46228	01
48	Qty.	n°5 for Ph // n°5 for N // n°5 for PE	n°5 for Ph // n°5 for N // n°5 for PE	Ex - jumpered	01
49	**Bonding Cable (yellow/Green)**				
50	Size [mm^2]	by vendor		6 mm^2	01
51	Qty.	Min. 0.15m			00
52	**Dimension**				
53	Height 'H' [mm]	by vendor	120 mm		01
54	Width 'W' [mm]	by vendor	250 mm		01
55	Length 'L' [mm]	by vendor	255 mm		01
56	Weight [Kg]	by vendor	2.65 Kg		01
57	JB Code (*)	Remarks			
58					



NOTES:

(*) Filled by Vendor





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Tag Number	Tag Description	Location	P.O.	Vendor	Manufacturer	Serial Number	Model Type Catalogue Number	Installation Zone	ATEX Certificate Number	Reference Document	ATEX Certification Marking	Notes / Comments	Skid / Package	Electrical Equip.	Barrier Calculation Ref.	Special Conditions of Safe Use Applicable	3D Location
CB-200F4B	AC UPS F&G - Battery Isolator-B	CONTAINER B-300 (LOWER DECK)	1724000372	3W Power	Cortem Spa		EJBC	Zone 1	EPT 20 ATEX 4075X	1724000372-EL-DG-00011	II 2GDEx db IIC T6 Gb Ex tb IIIC T 85°C Db	-	N/A	True	N/A	False	
EAT-200N1-01	Trace Heating - Remote Ambient Thermostat	LOWER DECK	1724001647	nVent	nVent	1244-022663	ETS-05-A2-E-A	Zone 1	Baseefa 13ATEX0137	1724001647-EL-DD-00004	II 2(1)G Ex eb ia mb [ia Ga] IIC T5 Gb - 40ºC ≤ Ta ≤ +60ºC II 2D Ex tb IIIC T100ºC Db	-	N/A	True	N/A	False	
EHT-1001-A	Self-regulating heat cable	LOWER DECK	1724001647	nVent	nVent	469145-000	3BTV2-CT	Zone 1	SGS20ATEX0048X	1724001647-EL-DD-00004	II 2 GD Ex 60079-30-1 eb IIC T6 Gb	-	N/A	True	N/A	True	
EHT-1002-A	Self-regulating heat cable	LOWER DECK	1724001647	nVent	nVent	469145-000	3BTV2-CT	Zone 1	SGS20ATEX0048X	1724001647-EL-DD-00004	II 2 GD Ex 60079-30-1 eb IIC T6 Gb	-	N/A	True	N/A	True	
EHT-1003-A	Self-regulating heat cable	LOWER DECK	1724001647	nVent	nVent	469145-000	3BTV2-CT	Zone 1	SGS20ATEX0048X	1724001647-EL-DD-00004	II 2 GD Ex 60079-30-1 eb IIC T6 Gb	-	N/A	True	N/A	True	
EHT-1004-A	Self-regulating heat cable	UPPER DECK	1724001647	nVent	nVent	469145-000	3BTV2-CT	Zone 1	SGS20ATEX0048X	1724001647-EL-DD-00004	II 2 GD Ex 60079-30-1 eb IIC T6 Gb	-	N/A	True	N/A	True	
EHT-1004-B	Self-regulating heat cable	UPPER DECK	1724001647	nVent	nVent	469145-000	3BTV2-CT	Zone 1	SGS20ATEX0048X	1724001647-EL-DD-00004	II 2 GD Ex 60079-30-1 eb IIC T6 Gb	-	N/A	True	N/A	True	
EHT-1005-A	Self-regulating heat cable	UPPER DECK	1724001647	nVent	nVent	469145-000	3BTV2-CT	Zone 1	SGS20ATEX0048X	1724001647-EL-DD-00004	II 2 GD Ex 60079-30-1 eb IIC T6 Gb	-	N/A	True	N/A	True	
EHT-1006-A	Self-regulating heat cable	UPPER DECK	1724001647	nVent	nVent	469145-000	3BTV2-CT	Zone 1	SGS20ATEX0048X	1724001647-EL-DD-00004	II 2 GD Ex 60079-30-1 eb IIC T6 Gb	-	N/A	True	N/A	True	
EHT-1007-A	Self-regulating heat cable	LOWER DECK	1724001647	nVent	nVent	469145-000	3BTV2-CT	Zone 1	SGS20ATEX0048X	1724001647-EL-DD-00004	II 2 GD Ex 60079-30-1 eb IIC T6 Gb	-	N/A	True	N/A	True	
EHT-2002-A	Self-regulating heat cable	UPPER DECK	1724001647	nVent	nVent	469145-000	3BTV2-CT	Zone 1	SGS20ATEX0048X	1724001647-EL-DD-00004	II 2 GD Ex 60079-30-1 eb IIC T6 Gb	-	N/A	True	N/A	True	
EJB-200F2-01	Top Obstruction Lights Junction Box	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990082	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	HAZARDOUS-AREA_8 HAZARDOUS-AREA_3
EJB-200F2-02	Intermediate obstruction lights junction box	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990083	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	HAZARDOUS-AREA_4
EJB-200N1-02-L1-01	Normal Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990045	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-02-L1-02	Normal Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990044	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-02-L1-03	Normal Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990043	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	HAZARDOUS-AREA_3
EJB-200N1-02-L1-05	Normal Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990058	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-02-L1-06	Normal Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990057	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-02-L1-07	Normal Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990059	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-02-L1-08	Normal Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990060	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-02-L1-09	Normal Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990061	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-02-L1-10	Normal Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990047	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-02-L1-11	Normal Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990056	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-02-L1-12	Normal Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990055	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-02-L1-13	Normal Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990054	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-02-L1-14	Normal Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990053	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-02-L1-15	Normal Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990052	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-02-L1-16	Normal Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990051	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-02-L1-17	Normal Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990050	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-02-L1-18	Normal Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990049	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-02-L1-19	Normal Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990048	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-02-L1-20	Normal Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990072	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-03-L2-01	Normal Lighting JB	LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990003	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-03-L2-02	Normal Lighting JB	LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990004	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-03-L2-03	Normal Lighting JB	LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990002	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-03-L2-04	Normal Lighting JB	LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990001	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-03-L2-05	Normal Lighting JB	LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990012	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-03-L2-06	Normal Lighting JB	LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990011	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-03-L2-07	Normal Lighting JB	LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990010	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-03-L2-08	Normal Lighting JB	LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990009	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-03-L2-09	Normal Lighting JB	LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990008	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-03-L2-10	Normal Lighting JB	LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990007	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-03-L2-11	Normal Lighting JB	LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990006	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-03-L2-12	Normal Lighting JB	LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990005	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-03-L2-13	Normal Lighting JB	LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990014	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-03-L2-14	Normal Lighting JB	LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990013	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-04-L3-01	Stair Normal Lighting JB	LOWER DECK STAIRS	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990032	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-04-L3-02	Stair Normal Lighting JB	LOWER DECK STAIRS	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990033	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-08-L1-01	Emergency Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990064	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-08-L1-03	Emergency Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990062	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	HAZARDOUS-AREA_3
EJB-200N1-08-L1-04	Emergency Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990065	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-08-L1-05	Emergency Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990077	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-08-L1-06	Emergency Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990078	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	

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[1] # EU – TYPE EXAMINATION CERTIFICATE

[2] Equipment or Protective Systems Intended for use in Potentially Explosive Atmospheres Directive 2014/34/EU.

[3] EU-Type Examination Certificate Number: **FIDI 21 ATEX 0090X** Issue: **1**

[4] Product: **Junction boxes, local control stations and local control panels**

Type: **AQ-***P / AQ-***AL / AR-***P / AR-***AL**
AQ-*P-HT / AQ-***AL-HT / AR-***P-HT / AR-***AL-HT**
SB-* / ST-***
EFE-* / EFXE-*** AL / EFXE-***SB / EFXE-***ST**
EFE-*-HT / EFXE-***AL-HT**

[5] Manufacturer: **Technor Italsmea S.p.A.**

[6] Address: **Via Italia 33, 20060 Gessate (MI), Italy**

[7] This product and any acceptable variation thereto is specified in the schedule to this certificate and documents therein referred to.

[8] FIDITAS Ltd., Notified Body number 2829 in accordance with Article 17 of Directive 2014/34/EU of the European Parliament and of the Council, dated 26 February 2014, certifies that this product has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of products intended for use in potentially explosive atmospheres given in Annex II of the Directive.

The examination and test results are recorded in confidential Report No: **FIDI 21 CR 075**

[9] Compliance with the Essential Health and Safety Requirements has been assured by compliance with:

EN IEC 60079-0:2018	**EN 60079-1:2014**	**EN IEC 60079-7:2015 / A1:2018**
EN 60079-11:2012	**EN 60079-18:2015/A1:2017**	**EN 60079-31:2014**

except in respect of those requirements listed at item 18 of the Schedule.

[10] If the sign 'X' is placed after the certificate number, it indicates that the product is subject to Specific Conditions of Use specified in the schedule to this certificate.

[11] This EU-Type Examination Certificate relates only to the design, examination and test of the specified product in accordance with Annex III. Further requirements of the Directive apply to the manufacturing process and supply of this products. These are not covered by this certificate.

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Phone: +385 1 5578565; info@fiditas.com ; www.fiditas.com

This certificate may only be reproduced in its entirety, without any change, schedule included

[12] The marking of the product shall include the following:



II 1 G	**Ex ia IIC/IIB T6...T4 Ga**(2) or
II 2(1) G or **II 2(2) G**	**Ex db eb ia/ib mb [**(3)**] IIC/IIB T6...T4 Gb**(1) or
II 2 G	**Ex eb IIC/IIB T6...T4 Gb**(1) or
II 2 D	**Ex tb IIIC T85°C...T135°C Db**

(1) Others type of protection additional to 'eb' depending to the components actually mounted.

(2) In case of enclosures containing 'eb' terminals and/or 'ia Ga' already certified components (with compatible marking) only.

(3) Associated equipment protection depending on the components actually mounted (see lists): e.g. [ia/ib/ia Ga/ia IIIC Da] and/or [ia IIIC Da] or [ia/ib/ia Ga/ia IIIC Da] and/or [ia/ib/ia Ga] [ia IIIC Da]

Our ref.: 21.CRT.400

Date: 23. 12.2021.

Fiditas d.o.o. ZAGREB

FIDITAS Ltd.
Certification department
Approved:

Marino Kelava, M.E.Eng.

Fiditas Ltd. Karlovačka cesta 197, 10250 Zagreb-Lučko, Croatia
Phone: +385 1 5578565; info@fiditas.com ; www.fiditas.com

[13] **SCHEDULE**

[14] **EU - TYPE EXAMINATION CERTIFICATE No.:** **FIDI 21 ATEX 0090X**

[15] **Description of product**

Junction boxes, local control stations and local control panels are made of 'eb' and 'tb' enclosures in stainless steel, aluminium alloy or glass fiber reinforced polyester resin, of various dimensions, which shall house 'eb' and/or 'ia/ib' terminals and/or Ex components or Ex equipment made in different type of Ex protection. All Ex terminals, Ex components and Ex equipment are covered by their own ATEX certificates.

The terminals and components are be used according to data available in related component certificates, in relevant temperature range, voltage and current limitations. The terminals must be fitted in accordance with EN IEC 60079-0 and EN IEC 60079-7 with regards to creepage and clearance distances, and according to related safety instructions.

The cover is fixed to the body with screw, between body and cover a gasket guarantee the protection degree IP66 (IP66/67 depending on models). The cover of stainless-steel enclosure can be also fixed the body with looking devices, between body and cover a gasket guarantee the protection degree IP66. The IP degree of junction boxes, local control stations and local control panels depend on the components actually mounted. The walls and the bottom of the boxes can be drilled and taped with maximum size and maximum number of holes as specified in the manufacturer documents.

The cable glands or plugs, with separate ATEX certificate, made in type of protection 'eb' and/or 'tb' with appropriate IP protection are mounted according to related manufacturer's installation instructions. Each enclosure is provided with internal earthing certified terminal or earthing screw or bolt. Metal enclosures are provided by external earthing screw or bolt. Metal and polyester enclosures can be provided by passing through earthing terminals.

All enclosures can be provided by:
- Externally installed accessories as specified in manufacturer documents,
- Drain breath device type ECR3, included in this certificate,
- Internal/external earthing plate.

Model identification

Junction boxes

A(1)-(2) (3) (4) (5) (6)	(1) –	**Q**: Square size **R**: Rectangular size
	(2) (3) (4)	dimension, in cm
	(5)	Material **P**: Glass fiber reinforced polyester resin **AL**: Aluminium Alloy
	(6)	None: up to internal temperature of 105°C **HT**: up to internal temperature of 130°C
SB- (2) (3) (4)	(2) (3) (4)	dimension, in cm
ST- (2) (3) (4)	(2) (3) (4)	dimension, in cm

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Panel boards

EFE- (2) (3) (4) (6)	(2) (3) (4)	dimension, in cm
	(6)	None: up to internal temperature of 105°C **HT**: up to internal temperature of 130°C
EFXE- (2) (3) (4) (5) (6)	(2) (3) (4)	dimension, in cm
		Material
	(5)	**SB** or **ST**: stainless steel **AL**: Aluminium Alloy
	(6)	None: up to internal temperature of 105°C **HT**: up to internal temperature of 130°C

Technical data:

Electrical data:	According to Ex component to actually installed
Ambient temperature:	-50°C ÷ +95°C Other possible ranges are with: - min temperature: -50°C to -20 °C - max temperature of +40 °C to +95 °C
Mechanical protection:	IP66/IP67 depending on models IP66 without swing handle element IP55 with swing handle element

Temperature class and/or maximum surface temperature of any junction box or control panel depend on ambient temperature and internal power dissipation. The values that must be observed are given in relevant tables in this certificate.

For commercial reasons model name listed in the tables below can be modified as follows: first (2) and second (3) pair of digits can be reversed.

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Model sizes

Polyester High Temperature		Aluminium High Temperature	
AQ-080806P-HT	EFE-080806-HT	AQ-080806AL-HT	EFXE-080806AL-HT
AQ-080808P-HT	EFE-080808-HT	AR-081306AL-HT	EFXE-081306AL-HT
AR-081106P-HT	EFE-081106-HT	AR-081806AL-HT	EFXE-081806AL-HT
AR-081108P-HT	EFE-081108-HT	AR-082505AL-HT	EFXE-082505AL-HT
AR-081606P-HT	EFE-081606-HT	AQ-101008AL-HT	EFXE-101008AL-HT
AR-081608P-HT	EFE-081608-HT	AR-101608AL-HT	EFXE-101608AL-HT
AR-081906P-HT	EFE-081906-HT	AR-102008AL-HT	EFXE-102008AL-HT
AR-081908P-HT	EFE-081908-HT	AQ-121208AL-HT	EFXE-121208AL-HT
AR-082306P-HT	EFE-082306-HT	AQ-121209AL-HT	EFXE-121209AL-HT
AR-082308P-HT	EFE-082308-HT	AR-122208AL-HT	EFXE-122208AL-HT
AQ-121209P-HT	EFE-121209-HT	AR-122209AL-HT	EFXE-122209AL-HT
AR-122209P-HT	EFE-122209-HT	AR-123608AL-HT	EFXE-123608AL-HT
AQ-161609P-HT	EFE-161609-HT	AQ-141409AL-HT	EFXE-141409AL-HT
AR-162609P-HT	EFE-162609-HT	AR-142009AL-HT	EFXE-142009AL-HT
AR-163609P-HT	EFE-163609-HT	AQ-161609AL-HT	EFXE-161609AL-HT
AR-165609P-HT	EFE-165609-HT	AR-162609AL-HT	EFXE-162609AL-HT
AQ-202017P-HT	EFE-202017-HT	AR-163609AL-HT	EFXE-163609AL-HT
AR-203017P-HT	EFE-203017-HT	AR-165609AL-HT	EFXE-165609AL-HT
AQ-252612P-HT	EFE-252612-HT	AQ-181810AL-HT	EFXE-181810AL-HT
AQ-252616P-HT	EFE-252616-HT	AR-182810AL-HT	EFXE-182810AL-HT
AR-254012P-HT	EFE-254012-HT	AR-102311AL-HT	EFXE-102311AL-HT
AR-254016P-HT	EFE-254016-HT	AR-202311AL-HT	EFXE-202311AL-HT
AR-256012P-HT	EFE-256012-HT	AR-202318AL-HT	EFXE-202318AL-HT
AR-304020P-HT	EFE-304020-HT	AR-232811AL-HT	EFXE-232811AL-HT
AQ-363609P-HT	EFE-363609-HT	AR-233311AL-HT	EFXE-233311AL-HT
AR-406025P-HT	EFE-406025-HT	AR-233318AL-HT	EFXE-233318AL-HT
AQ-414012P-HT	EFE-414012-HT	AR-234011AL-HT	EFXE-234011AL-HT
AQ-414020P-HT	EFE-414020-HT	AR-234023AL-HT	EFXE-234023AL-HT
		AR-236011AL-HT	EFXE-236011AL-HT
		AR-314011AL-HT	EFXE-314011AL-HT
		AR-314014AL-HT	EFXE-314014AL-HT
		AR-314018AL-HT	EFXE-314018AL-HT
		AR-314023AL-HT	EFXE-314023AL-HT
		AR-316011AL-HT	EFXE-316011AL-HT
		AR-316018AL-HT	EFXE-316018AL-HT
		AQ-606020AL-HT	EFXE-606020AL-HT

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Polyester		Aluminium		Stainless steel	
AQ-080806P	EFE-080806	AQ-080806AL	EFXE-080806AL	SB-101210	EFXE-101210SB
AQ-080808P	EFE-080808	AR-081306AL	EFXE-081306AL	SB-151510	EFXE-151510SB
AR-081106P	EFE-081106	AR-081806AL	EFXE-081806AL	SB-142013	EFXE-142013SB
AR-081606P	EFE-081606	AR-081808AL	EFXE-081808AL	SB-202010	EFXE-202010SB
AR-081906P	EFE-081906	AR-082505AL	EFXE-082505AL	SB-202016	EFXE-202016SB
AQ-121209P	EFE-121209	AR-082508AL	EFXE-082508AL	SB-202713	EFXE-202713SB
AR-122209P	EFE-122209	AQ-101008AL	EFXE-101008AL	SB-272713	EFXE-272713SB
AQ-161609P	EFE-161609	AR-101508AL	EFXE-101508AL	SB-203016	EFXE-203016SB
AR-162609P	EFE-162609	AR-101608AL	EFXE-101608AL	SB-273513	EFXE-273513SB
AR-163609P	EFE-163609	AR-102008AL	EFXE-102008AL	SB-282816	EFXE-282816SB
AQ-252612P	EFE-252612	AQ-121208AL	EFXE-121208AL	SB-204016	EFXE-204016SB
AQ-252616P	EFE-252616	AR-122209AL	EFXE-122209AL	SB-353516	EFXE-353516SB
AR-254012P	EFE-254012	AQ-141409AL	EFXE-141409AL	SB-282827	EFXE-282827SB
AR-254016P	EFE-254016	AR-142009AL	EFXE-142009AL	SB-355016	EFXE-355016SB
AR-256012P	EFE-256012	AQ-161609AL	EFXE-161609AL	SB-383816	EFXE-383816SB
AQ-414012P	EFE-414012	AR-162410AL	EFXE-162410AL	SB-384516	EFXE-384516SB
		AR-162609AL	EFXE-162609AL	SB-385716	EFXE-385716SB
		AQ-181810AL	EFXE-181810AL	SB-505016	EFXE-505016SB
		AR-182810AL	EFXE-182810AL	SB-383827	EFXE-383827SB
		AR-202311AL	EFXE-202311AL	SB-575716	EFXE-575716SB
		AR-202318AL	EFXE-202318AL	SB-577620	EFXE-577620SB
		AR-232811AL	EFXE-232811AL	SB-575730	EFXE-575730SB
		AR-233312AL	EFXE-233312AL	SB-769520	EFXE-769520SB
		AR-233318AL	EFXE-233318AL	SB-1258040	EFXE-1258040SB

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Enclosure types (Stainless steel)	
ST-101210	EFXE-101210ST
ST-151510	EFXE-151510ST
ST-142013	EFXE-142013ST
ST-202010	EFXE-202010ST
ST-202016	EFXE-202016ST
ST-202713	EFXE-202713ST
ST-272713	EFXE-272713ST
ST-203016	EFXE-203016ST
ST-273513	EFXE-273513ST
ST-282816	EFXE-282816ST
ST-204016	EFXE-204016ST
ST-353516	EFXE-353516ST
ST-282827	EFXE-282827ST
ST-355016	EFXE-355016ST
ST-383816	EFXE-383816ST
ST-384516	EFXE-384516ST
ST-385716	EFXE-385716ST
ST-505016	EFXE-505016ST
ST-383827	EFXE-383827ST
ST-575716	EFXE-575716ST
ST-577620	EFXE-577620ST
ST-575730	EFXE-575730ST
ST-769520	EFXE-769520ST
ST-1258040	EFXE-1258040ST

Note 2 For stainless steel enclosures: dimensions (2) and (3) can be decreased or increased up to 20%, dimensions (4) can be increased up to 500 mm. Model name changes consequently.

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Power dissipation – HT glass fiber reinforced polyester resin enclosures

Enclosure types (polyester)		Maximum power dissipation (W) – Tamb. up to **40**°C							
		INTERNAL TEMP.60°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)	INTERNAL TEMP.127°C (T4/T135°C)
AQ-080806P-HT	EFE-080806-HT	3,5	5,2	7,0	7,8	9,6	10,4	11,3	15,2
AQ-080808P-HT	EFE-080808-HT	4,6	6,8	9,1	10,2	12,5	13,7	14,8	19,8
AR-081106P-HT	EFE-081106-HT	4,3	6,4	8,5	9,6	11,8	12,8	13,9	18,6
AR-081108P-HT	EFE-081108-HT	5,6	8,4	11,2	12,6	15,3	16,7	18,1	24,2
AR-081606P-HT	EFE-081606-HT	5,8	8,7	11,6	13,0	15,9	17,4	18,8	25.2
AR-081608P-HT	EFE-081608-HT	6,8	10,2	13,7	15,4	18,8	20,5	22,2	29,7
AR-081906P-HT	EFE-081906-HT	6,4	9,6	12,8	14,4	17,6	19,2	20,8	27,8
AR-081908P-HT	EFE-081908-HT	7,5	11,3	15,1	17,0	20,7	22,6	24,5	32,7
AR-082306P-HT	EFE-082306-HT	7,2	10,8	14,4	16,2	19,8	21,6	23,4	31,3
AR-082308P-HT	EFE-082308-HT	8,5	12,7	16,9	19,0	23,3	25,4	27,5	36,7
AQ-121209P-HT	EFE-121209-HT	8,0	12,0	15,9	17,9	21,9	23,9	25,9	34,7
AR-122209P-HT	EFE-122209-HT	10,8	16,2	21,6	24,3	29,7	32,4	35,1	47,0
AQ-161609P-HT	EFE-161609-HT	10,4	15,6	20,8	23,4	28,6	31,2	33,8	45,2
AR-162609P-HT	EFE-162609-HT	13,4	20,1	26,8	30,2	36,9	40,2	43,6	58,3
AR-163609P-HT	EFE-163609-HT	16,2	24,3	32,4	36,5	44,6	48,6	52,7	70,5
AR-165609P-HT	EFE-165609-HT	21,4	32,0	42,7	48,1	58,7	64,1	69,4	92,9
AQ-202017P-HT	EFE-202017-HT	18,0	26,9	35,9	40,4	49,4	53,9	58,4	78,1
AR-203017P-HT	EFE-203017-HT	20,9	31,3	41,7	47,0	57,4	62,6	67,8	90,8
AQ-252612P-HT	EFE-252612-HT	18,8	28,2	37,6	42,4	51,8	56,5	61,2	81,9
AQ-252616P-HT	EFE-252616-HT	20,8	31,1	41,5	46,7	57,1	62,3	67,5	90,3
AR-254012P-HT	EFE-254012-HT	22,8	34,2	45,7	51,4	62,8	68,5	74,2	99,3
AR-254016P-HT	EFE-254016-HT	26,2	39,3	52,4	58,9	72,0	78,6	85,1	113,9
AR-256012P-HT	EFE-256012-HT	29,0	43,6	58,1	65,3	79,9	87,1	94,4	126,3
AR-304020P-HT	EFE-304020-HT	32,3	48,5	64,7	72,7	88,9	97,0	105,1	140,7
AQ-363609P-HT	EFE-363609-HT	23,0	34,6	46,1	51,8	63,4	69,1	74,9	100,2
AR-406025P-HT	EFE-406025-HT	50,3	75,5	100,7	113,3	138,4	151,0	163,6	218,9
AQ-414012P-HT	EFE-414012-HT	29,1	43,7	58,2	65,5	80,1	87,3	94,6	126,6
AQ-414020P-HT	EFE-414020-HT	36,6	55,0	73,3	82,4	100,8	109,9	119,1	159,4

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Enclosure types (polyester)		Maximum power dissipation (W) – Tamb. up to **50**°C							
		INTERNAL TEMP.60°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)	INTERNAL TEMP.127°C (T4/T135°C)
AQ-080806P-HT	EFE-080806-HT	1,7	3,5	5,2	6,1	7,8	8,7	9,6	13,4
AQ-080808P-HT	EFE-080808-HT	2,3	4,6	6,8	8,0	10,2	11,4	12,5	17,5
AR-081106P-HT	EFE-081106-HT	2,1	4,3	6,4	7,5	9,6	10,7	11,8	16,5
AR-081108P-HT	EFE-081108-HT	2,8	5,6	8,4	9,8	12,6	13,9	15,3	21.5
AR-081606P-HT	EFE-081606-HT	2,9	5,8	8,7	10,1	13,0	14,5	15,9	22,3
AR-081608P-HT	EFE-081608-HT	3,4	6,8	10,2	11,9	15,4	17,1	18,8	26,3
AR-081906P-HT	EFE-081906-HT	3,2	6,4	9,6	11,2	14,4	16,0	17,6	24,6
AR-081908P-HT	EFE-081908-HT	3,8	7,5	11,3	13,2	17,0	18,8	20,7	29,0
AR-082306P-HT	EFE-082306-HT	3,6	7,2	10,8	12,6	16,2	18,0	19,8	27,7
AR-082308P-HT	EFE-082308-HT	4,2	8,5	12,7	14,8	19,0	21,1	23,3	32,5
AQ-121209P-HT	EFE-121209-HT	4,0	8,0	12,0	14,0	17,9	19,9	21,9	30,7
AR-122209P-HT	EFE-122209-HT	5,4	10,8	16,2	18,9	24,3	27,0	29,7	41,6
AQ-161609P-HT	EFE-161609-HT	5,2	10,4	15,6	18,2	23,4	26,0	28,6	40,0
AR-162609P-HT	EFE-162609-HT	6,7	13,4	20,1	23,5	30,2	33,5	36,9	51,6
AR-163609P-HT	EFE-163609-HT	8,1	16,2	24,3	28,4	36,5	40,5	44,6	62,3
AR-165609P-HT	EFE-165609-HT	10,7	21,4	32,0	37,4	48,1	53,4	58,7	82,2
AQ-202017P-HT	EFE-202017-HT	9,0	18,0	26,9	31,4	40,4	44,9	49,4	69,1
AR-203017P-HT	EFE-203017-HT	10,4	20,9	31,3	36,5	47,0	52,2	57,4	80,4
AQ-252612P-HT	EFE-252612-HT	9,4	18,8	28,2	32,9	42,4	47,1	51,8	72,5
AQ-252616P-HT	EFE-252616-HT	10,4	20,8	31,1	36,3	46,7	51,9	57,1	79,9
AR-254012P-HT	EFE-254012-HT	11,4	22,8	34,2	39,9	51,4	57,1	62,8	87,9
AR-254016P-HT	EFE-254016-HT	13,1	26,2	39,3	45,8	58,9	65,5	72,0	100,8
AR-256012P-HT	EFE-256012-HT	14,5	29,0	43,6	50,8	65,3	72,6	79,9	111,8
AR-304020P-HT	EFE-304020-HT	16,2	32,3	48,5	56,6	72,7	80,8	88,9	124,4
AQ-363609P-HT	EFE-363609-HT	11,5	23,0	34,6	40,3	51,8	57,6	63,4	88,7
AR-406025P-HT	EFE-406025-HT	25,2	50,3	75,5	88,1	113,3	125,8	138,4	193,8
AQ-414012P-HT	EFE-414012-HT	14,6	29,1	43,7	51,0	65,5	72,8	80,1	112,1
AQ-414020P-HT	EFE-414020-HT	18,3	36,6	55,0	64,1	82,4	91,6	100,8	141,1

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Enclosure types (polyester)		Maximum power dissipation (W) – Tamb. up to **55**°C							
		INTERNAL TEMP.65°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)	INTERNAL TEMP.127°C (T4/T135°C)
AQ-080806P-HT	EFE-080806-HT	1,7	2,6	4,4	5,2	7,0	7,8	8,7	12,5
AQ-080808P-HT	EFE-080808-HT	2,3	3,4	5,7	6,8	9,1	10,2	11,4	16,2
AR-081106P-HT	EFE-081106-HT	2,1	3,2	5,3	6,4	8,5	9,6	10,7	15,2
AR-081108P-HT	EFE-081108-HT	2,8	4,2	7,0	8,4	11,2	12,6	13,9	19,8
AR-081606P-HT	EFE-081606-HT	2,9	4,3	7,2	8,7	11,6	13,0	14,5	20,6
AR-081608P-HT	EFE-081608-HT	3,4	5,1	8,5	10,2	13,7	15,4	17,1	24,3
AR-081906P-HT	EFE-081906-HT	3,2	4,8	8,0	9,6	12,8	14,4	16,0	22,8
AR-081908P-HT	EFE-081908-HT	3,8	5,7	9,4	11,3	15,1	17,0	18,8	26,8
AR-082306P-HT	EFE-082306-HT	3,6	5,4	9,0	10,8	14,4	16,2	18,0	25,6
AR-082308P-HT	EFE-082308-HT	4,2	6,3	10,6	12,7	16,9	19,0	21,1	30,0
AQ-121209P-HT	EFE-121209-HT	4,0	6,0	10,0	12,0	15,9	17,9	19,9	28,3
AR-122209P-HT	EFE-122209-HT	5,4	8,1	13,5	16,2	21,6	24,3	27,0	38,3
AQ-161609P-HT	EFE-161609-HT	5,2	7,8	13,0	15,6	20,8	23,4	26,0	36,9
AR-162609P-HT	EFE-162609-HT	6,7	10,1	16,8	20,1	26,8	30,2	33,5	47,6
AR-163609P-HT	EFE-163609-HT	8,1	12,2	20,3	24,3	32,4	36,5	40,5	57,5
AR-165609P-HT	EFE-165609-HT	10,7	16,0	26,7	32,0	42,7	48,1	53,4	75,8
AQ-202017P-HT	EFE-202017-HT	9,0	13,5	22,4	26,9	35,9	40,4	44,9	63,7
AR-203017P-HT	EFE-203017-HT	10,4	15,7	26,1	31,3	41,7	47,0	52,2	74,0
AQ-252612P-HT	EFE-252612-HT	9,4	14,1	23,5	28,2	37,6	42,4	47,1	66,8
AQ-252616P-HT	EFE-252616-HT	10,4	15,6	26,0	31,1	41,5	46,7	51,9	73,7
AR-254012P-HT	EFE-254012-HT	11,4	17,1	28,5	34,2	45,7	51,4	57,1	81,0
AR-254016P-HT	EFE-254016-HT	13,1	19,6	32,7	39,3	52,4	58,9	65,5	92,9
AR-256012P-HT	EFE-256012-HT	14,5	21,8	36,3	43,6	58,1	65,3	72,6	103,0
AR-304020P-HT	EFE-304020-HT	16,2	24,2	40,4	48,5	64,7	72,7	80,8	114,7
AQ-363609P-HT	EFE-363609-HT	11,5	17,3	28,8	34,6	46,1	51,8	57,6	81,8
AR-406025P-HT	EFE-406025-HT	25,2	37,8	62,9	75,5	100,7	113,3	125,8	178,6
AQ-414012P-HT	EFE-414012-HT	14,6	21,8	36,4	43,7	58,2	65,5	72,8	103,0
AQ-414020P-HT	EFE-414020-HT	18,3	27,5	45,8	55,0	73,3	82,4	91,6	130,0

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Enclosure types (polyester)		Maximum power dissipation (W) – Tamb. up to **60**°C						
		INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)	INTERNAL TEMP.127°C (T4/T135°C)
AQ-080806P-HT	EFE-080806-HT	1,7	3,5	4,4	6,1	7,0	7,8	11,7
AQ-080808P-HT	EFE-080808-HT	2,3	4,6	5,7	8,0	9,1	10,2	15,2
AR-081106P-HT	EFE-081106-HT	2,1	4,3	5,3	7,5	8,5	9,6	14,3
AR-081108P-HT	EFE-081108-HT	2,8	5,6	7,0	9,8	11,2	12,6	18,7
AR-081606P-HT	EFE-081606-HT	2,9	5,8	7,2	10,1	11,6	13,0	19,4
AR-081608P-HT	EFE-081608-HT	3,4	6,8	8,5	11,9	13,7	15,4	22,9
AR-081906P-HT	EFE-081906-HT	3,2	6,4	8,0	11,2	12,8	14,4	21,4
AR-081908P-HT	EFE-081908-HT	3,8	7,5	9,4	13,2	15,1	17,0	25,3
AR-082306P-HT	EFE-082306-HT	3,6	7,2	9,0	12,6	14,4	16,2	24,1
AR-082308P-HT	EFE-082308-HT	4,2	8,5	10,6	14,8	16,9	19,0	28,3
AQ-121209P-HT	EFE-121209-HT	4,0	8,0	10,0	14,0	15,9	17,9	26,7
AR-122209P-HT	EFE-122209-HT	5,4	10,8	13,5	18,9	21,6	24,3	36,2
AQ-161609P-HT	EFE-161609-HT	5,2	10,4	13,0	18,2	20,8	23,4	34,8
AR-162609P-HT	EFE-162609-HT	6,7	13,4	16,8	23,5	26,8	30,2	44,9
AR-163609P-HT	EFE-163609-HT	8,1	16,2	20,3	28,4	32,4	36,5	54,2
AR-165609P-HT	EFE-165609-HT	10,7	21,4	26,7	37,4	42,7	48,1	71,5
AQ-202017P-HT	EFE-202017-HT	9,0	18,0	22,4	31,4	35,9	40,4	60,1
AR-203017P-HT	EFE-203017-HT	10,4	20,9	26,1	36,5	41,7	47,0	69,9
AQ-252612P-HT	EFE-252612-HT	9,4	18,8	23,5	32,9	37,6	42,4	63,0
AQ-252616P-HT	EFE-252616-HT	10,4	20,8	26,0	36,3	41,5	46,7	69,5
AR-254012P-HT	EFE-254012-HT	11,4	22,8	28,5	39,9	45,7	51,4	76,5
AR-254016P-HT	EFE-254016-HT	13,1	26,2	32,7	45,8	52,4	58,9	87,7
AR-256012P-HT	EFE-256012-HT	14,5	29,0	36,3	50,8	58,1	65,3	97,2
AR-304020P-HT	EFE-304020-HT	16,2	32,3	40,4	56,6	64,7	72,7	108,3
AQ-363609P-HT	EFE-363609-HT	11,5	23,0	28,8	40,3	46,1	51,8	77,1
AR-406025P-HT	EFE-406025-HT	25,2	50,3	62,9	88,1	100,7	113,3	168,7
AQ-414012P-HT	EFE-414012-HT	14,6	29,1	36,4	51,0	58,2	65,5	97,5
AQ-414020P-HT	EFE-414020-HT	18,3	36,6	45,8	64,1	73,3	82,4	122,7

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Enclosure types (polyester)		Maximum power dissipation (W) Tamb. up to **95**°C		
		INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)	INTERNAL TEMP.127°C (T4/T135°C)
AQ-080806P-HT	EFE-080806-HT	0,9	1,7	5,6
AQ-080808P-HT	EFE-080808-HT	1,1	2,3	7,3
AR-081106P-HT	EFE-081106-HT	1,1	2,1	6,5
AR-081108P-HT	EFE-081108-HT	1,4	2,8	9,0
AR-081606P-HT	EFE-081606-HT	1,4	2,9	9,2
AR-081608P-HT	EFE-081608-HT	1,7	3,4	10,9
AR-081906P-HT	EFE-081906-HT	1,6	3,2	10,2
AR-081908P-HT	EFE-081908-HT	1,9	3,8	12,1
AR-082306P-HT	EFE-082306-HT	1,8	3,6	11,5
AR-082308P-HT	EFE-082308-HT	2,1	4,2	13,5
AQ-121209P-HT	EFE-121209-HT	2,0	4,0	12,8
AR-122209P-HT	EFE-122209-HT	2,7	5,4	17,3
AQ-161609P-HT	EFE-161609-HT	2,6	5,2	16,6
AR-162609P-HT	EFE-162609-HT	3,4	6,7	21,5
AR-163609P-HT	EFE-163609-HT	4,1	8,1	26,0
AR-165609P-HT	EFE-165609-HT	5,3	10,7	34,2
AQ-202017P-HT	EFE-202017-HT	4,5	9,0	28,7
AR-203017P-HT	EFE-203017-HT	5,2	10,4	33,4
AQ-252612P-HT	EFE-252612-HT	4,7	9,4	30,1
AQ-252616P-HT	EFE-252616-HT	5,2	10,4	33,2
AR-254012P-HT	EFE-254012-HT	5,7	11,4	36,5
AR-254016P-HT	EFE-254016-HT	6,5	13,1	41,9
AR-256012P-HT	EFE-256012-HT	7,3	14,5	46,4
AR-304020P-HT	EFE-304020-HT	8,1	16,2	51,8
AQ-363609P-HT	EFE-363609-HT	5,8	11,5	36,8
AR-406025P-HT	EFE-406025-HT	12,6	25,2	80,6
AQ-414012P-HT	EFE-414012-HT	7,3	14,6	46,6
AQ-414020P-HT	EFE-414020-HT	9,2	18,3	58,6

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Power dissipation – HT aluminum alloy enclosures

Enclosure types (aluminium)		Maximum power dissipation (W) – Tamb. up to **40**°C							
		INTERNAL TEMP.60°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)	INTERNAL TEMP.130°C (T4/T135°C)
AQ-080806AL-HT	EFXE-080806AL-HT	5,2	7,8	10,4	11,7	14,3	15,6	16,9	23,4
AR-081306AL-HT	EFXE-081306AL-HT	7,0	10,6	14,1	15,9	19,4	21,2	23,0	31,8
AR-081806AL-HT	EFXE-081806AL-HT	8,9	13,3	17,8	20,0	24,5	26,7	28,9	40,0
AR-082505AL-HT	EFXE-082505AL-HT	10,9	16,4	21,9	24,7	30,1	32,9	35,6	49,4
AQ-101008AL-HT	EFXE-101008AL-HT	8,7	13,0	17,4	19,6	23,9	26,1	28,3	39,2
AR-101608AL-HT	EFXE-101608AL-HT	11,5	17,3	23,1	26,0	31,8	34,7	37,6	52,0
AR-102008AL-HT	EFXE-102008AL-HT	13,4	20,1	26,8	30,2	36,9	40,3	43,6	60,4
AQ-121208AL-HT	EFXE-121208AL-HT	10,8	16,2	21,6	24,3	29,7	32,4	35,1	48,6
AQ-121209AL-HT	EFXE-121209AL-HT	11,6	17,5	23,3	26,2	32,1	35,0	37,9	52,5
AR-122208AL-HT	EFXE-122208AL-HT	15,6	23,5	31,3	35,3	43,1	47,0	50,9	70,6
AR-122209AL-HT	EFXE-122209AL-HT	16,8	25,3	33,7	37,9	46,3	50,6	54,8	75,9
AR-123608AL-HT	EFXE-123608AL-HT	22,3	33,5	44,7	50,3	61,5	67,1	72,7	100,7
AQ-141409AL-HT	EFXE-141409AL-HT	13,7	20,6	27,5	31,0	37,9	41,3	44,8	62,0
AR-142009AL-HT	EFXE-142009AL-HT	17,1	25,7	34,2	38,5	47,1	51,4	55,7	77,1
AQ-161609AL-HT	EFXE-161609AL-HT	16,1	24,1	32,2	36,2	44,2	48,3	52,3	72,4
AR-162609AL-HT	EFXE-162609AL-HT	21,9	32,8	43,8	49,3	60,2	65,7	71,2	98,6
AR-163609AL-HT	EFXE-163609AL-HT	27,5	41,3	55,1	62,0	75,7	82,6	89,5	124,0
AR-165609AL-HT	EFXE-165609AL-HT	38,4	57,7	76,9	86,6	105,8	115,4	125,0	173,2
AQ-181810AL-HT	EFXE-181810AL-HT	19,7	29,6	39,5	44,4	54,3	59,2	64,2	88,8
AR-182810AL-HT	EFXE-182810AL-HT	26,1	39,1	52,2	58,7	71,8	78,3	84,8	117,5
AR-102311AL-HT	EFXE-102311AL-HT	18,2	27,3	36,5	41,0	50,1	54,7	59,3	82,1
AR-202311AL-HT	EFXE-202311AL-HT	26,1	39,1	52,2	58,7	71,7	78,3	84,8	117,4
AR-202318AL-HT	EFXE-202318AL-HT	35,9	53,9	71,8	80,8	98,8	107,8	116,8	161,7
AR-232811AL-HT	EFXE-232811AL-HT	31,6	47,5	63,3	71,3	87,1	95,0	103,0	142,6
AR-233311AL-HT	EFXE-233311AL-HT	35,3	52,9	70,6	79,4	97,0	105,9	114,7	158,8
AR-233318AL-HT	EFXE-233318AL-HT	47,5	71,3	95,1	107,0	130,8	142,7	154,6	214,1
AR-234011AL-HT	EFXE-234011AL-HT	40,2	60,4	80,5	90,6	110,7	120,8	130,9	181,2
AR-234023AL-HT	EFXE-234023AL-HT	62,2	93,3	124,5	140,0	171,2	186,7	202,3	280,1
AR-236011AL-HT	EFXE-236011AL-HT	54,1	81,2	108,3	121,9	148,9	162,5	176,0	243,8
AR-314011AL-HT	EFXE-314011AL-HT	48,6	72,9	97,2	109,3	133,6	145,8	157,9	218,7
AR-314014AL-HT	EFXE-314014AL-HT	54,9	82,4	109,9	123,7	151,2	164,9	178,7	247,4
AR-314018AL-HT	EFXE-314018AL-HT	63,8	95,7	127,6	143,5	175,4	191,4	207,3	287,1
AR-314023AL-HT	EFXE-314023AL-HT	73,5	110,3	147,1	165,5	202,3	220,7	239,1	331,0
AR-316011AL-HT	EFXE-316011AL-HT	64,0	96,0	128,1	144,1	176,1	192,1	208,1	288,2
AR-316018AL-HT	EFXE-316018AL-HT	82,7	124,1	165,5	186,2	227,6	248,3	268,9	372,4
AQ-606020AL-HT	EFXE-606020AL-HT	129,1	193,7	258,3	290,5	355,1	387,4	419,7	581,1

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Enclosure types (aluminium)		Maximum power dissipation (W) – Tamb. up to **50**°C							
		INTERNAL TEMP.60°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)	INTERNAL TEMP.130°C (T4/T135°C)
AQ-080806AL-HT	EFXE-080806AL-HT	2,6	5,2	7,8	9,1	11,7	13,0	14,3	20,8
AR-081306AL-HT	EFXE-081306AL-HT	3,5	7,0	10,6	12,3	15,9	17,7	19,4	28,3
AR-081806AL-HT	EFXE-081806AL-HT	4,4	8,9	13,3	15,5	20,0	22,2	24,5	35,6
AR-082505AL-HT	EFXE-082505AL-HT	5,4	10,9	16,4	19,2	24,7	27,4	30,1	43,9
AQ-101008AL-HT	EFXE-101008AL-HT	4,3	8,7	13,0	15,2	19,6	21,7	23,9	34,8
AR-101608AL-HT	EFXE-101608AL-HT	5,7	11,5	17,3	20,2	26,0	28,9	31,8	46,2
AR-102008AL-HT	EFXE-102008AL-HT	6,7	13,4	20,1	23,5	30,2	33,5	36,9	53,7
AQ-121208AL-HT	EFXE-121208AL-HT	5,4	10,8	16,2	18,9	24,3	27,0	29,7	43,2
AQ-121209AL-HT	EFXE-121209AL-HT	5,8	11,6	17,5	20,4	26,2	29,2	32,1	46,7
AR-122208AL-HT	EFXE-122208AL-HT	7,8	15,6	23,5	27,4	35,3	39,2	43,1	62,7
AR-122209AL-HT	EFXE-122209AL-HT	8,4	16,8	25,3	29,5	37,9	42,1	46,3	67,4
AR-123608AL-HT	EFXE-123608AL-HT	11,1	22,3	33,5	39,1	50,3	55,9	61,5	89,5
AQ-141409AL-HT	EFXE-141409AL-HT	6,8	13,7	20,6	24,1	31,0	34,4	37,9	55,1
AR-142009AL-HT	EFXE-142009AL-HT	8,5	17,1	25,7	30,0	38,5	42,8	47,1	68,5
AQ-161609AL-HT	EFXE-161609AL-HT	8,0	16,1	24,1	28,1	36,2	40,2	44,2	64,4
AR-162609AL-HT	EFXE-162609AL-HT	10,9	21,9	32,8	38,3	49,3	54,8	60,2	87,6
AR-163609AL-HT	EFXE-163609AL-HT	13,7	27,5	41,3	48,2	62,0	68,9	75,7	110,2
AR-165609AL-HT	EFXE-165609AL-HT	19,2	38,4	57,7	67,3	86,6	96,2	105,8	153,9
AQ-181810AL-HT	EFXE-181810AL-HT	9,8	19,7	29,6	34,5	44,4	49,3	54,3	79,0
AR-182810AL-HT	EFXE-182810AL-HT	13,0	26,1	39,1	45,7	58,7	65,2	71,8	104,4
AR-102311AL-HT	EFXE-102311AL-HT	9,1	18,2	27,3	31,9	41,0	45,6	50,1	73,0
AR-202311AL-HT	EFXE-202311AL-HT	13,0	26,1	39,1	45,6	58,7	65,2	71,7	104,4
AR-202318AL-HT	EFXE-202318AL-HT	17,9	35,9	53,9	62,8	80,8	89,8	98,8	143,7
AR-232811AL-HT	EFXE-232811AL-HT	15,8	31,6	47,5	55,4	71,3	79,2	87,1	126,7
AR-233311AL-HT	EFXE-233311AL-HT	17,6	35,3	52,9	61,7	79,4	88,2	97,0	141,2
AR-233318AL-HT	EFXE-233318AL-HT	23,7	47,5	71,3	83,2	107,0	118,9	130,8	190,3
AR-234011AL-HT	EFXE-234011AL-HT	20,1	40,2	60,4	70,5	90,6	100,7	110,7	161,1
AR-234023AL-HT	EFXE-234023AL-HT	31,1	62,2	93,3	108,9	140,0	155,6	171,2	249,0
AR-236011AL-HT	EFXE-236011AL-HT	27,0	54,1	81,2	94,8	121,9	135,4	148,9	216,7
AR-314011AL-HT	EFXE-314011AL-HT	24,3	48,6	72,9	85,0	109,3	121,5	133,6	194,4
AR-314014AL-HT	EFXE-314014AL-HT	27,4	54,9	82,4	96,2	123,7	137,4	151,2	219,9
AR-314018AL-HT	EFXE-314018AL-HT	31,9	63,8	95,7	111,6	143,5	159,5	175,4	255,2
AR-314023AL-HT	EFXE-314023AL-HT	36,7	73,5	110,3	128,7	165,5	183,9	202,3	294,2
AR-316011AL-HT	EFXE-316011AL-HT	32,0	64,0	96,0	112,0	144,1	160,1	176,1	256,2
AR-316018AL-HT	EFXE-316018AL-HT	41,3	82,7	124,1	144,8	186,2	206,9	227,6	331,0
AQ-606020AL-HT	EFXE-606020AL-HT	64,5	129,1	193,7	226,0	290,5	322,8	355,1	516,6

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Enclosure types (aluminium)		Maximum power dissipation (W) – Tamb. up to **55**°C							
		INTERNAL TEMP.65°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)	INTERNAL TEMP.130°C (T4/T135°C)
AQ-080806AL-HT	EFXE-080806AL-HT	2,6	3,9	6,5	7,8	10,4	11,7	13,0	19,5
AR-081306AL-HT	EFXE-081306AL-HT	3,5	5,3	8,8	10,6	14,1	15,9	17,7	26,5
AR-081806AL-HT	EFXE-081806AL-HT	4,4	6,6	11,1	13,3	17,8	20,0	22,2	33,4
AR-082505AL-HT	EFXE-082505AL-HT	5,4	8,2	13,7	16,4	21,9	24,7	27,4	41,1
AQ-101008AL-HT	EFXE-101008AL-HT	4,3	6,5	10,8	13,0	17,4	19,6	21,7	32,6
AR-101608AL-HT	EFXE-101608AL-HT	5,7	8,6	14,4	17,3	23,1	26,0	28,9	43,3
AR-102008AL-HT	EFXE-102008AL-HT	6,7	10,0	16,7	20,1	26,8	30,2	33,5	50,3
AQ-121208AL-HT	EFXE-121208AL-HT	5,4	8,1	13,5	16,2	21,6	24,3	27,0	40,5
AQ-121209AL-HT	EFXE-121209AL-HT	5,8	8,7	14,6	17,5	23,3	26,2	29,2	43,8
AR-122208AL-HT	EFXE-122208AL-HT	7,8	11,7	19,6	23,5	31,3	35,3	39,2	58,8
AR-122209AL-HT	EFXE-122209AL-HT	8,4	12,6	21,0	25,3	33,7	37,9	42,1	63,2
AR-123608AL-HT	EFXE-123608AL-HT	11,1	16,7	27,9	33,5	44,7	50,3	55,9	83,9
AQ-141409AL-HT	EFXE-141409AL-HT	6,8	10,3	17,2	20,6	27,5	31,0	34,4	51,7
AR-142009AL-HT	EFXE-142009AL-HT	8,5	12,8	21,4	25,7	34,2	38,5	42,8	64,3
AQ-161609AL-HT	EFXE-161609AL-HT	8,0	12,0	20,1	24,1	32,2	36,2	40,2	60,4
AR-162609AL-HT	EFXE-162609AL-HT	10,9	16,4	27,4	32,8	43,8	49,3	54,8	82,2
AR-163609AL-HT	EFXE-163609AL-HT	13,7	20,6	34,4	41,3	55,1	62,0	68,9	103,3
AR-165609AL-HT	EFXE-165609AL-HT	19,2	28,8	48,1	57,7	76,9	86,6	96,2	144,3
AQ-181810AL-HT	EFXE-181810AL-HT	9,8	14,8	24,6	29,6	39,5	44,4	49,3	74,0
AR-182810AL-HT	EFXE-182810AL-HT	13,0	19,5	32,6	39,1	52,2	58,7	65,2	97,9
AR-102311AL-HT	EFXE-102311AL-HT	9,1	13,6	22,8	27,3	36,5	41,0	45,6	68,4
AR-202311AL-HT	EFXE-202311AL-HT	13,0	19,5	32,6	39,1	52,2	58,7	65,2	97,9
AR-202318AL-HT	EFXE-202318AL-HT	17,9	26,9	44,9	53,9	71,8	80,8	89,8	134,7
AR-232811AL-HT	EFXE-232811AL-HT	15,8	23,7	39,6	47,5	63,3	71,3	79,2	118,8
AR-233311AL-HT	EFXE-233311AL-HT	17,6	26,4	44,1	52,9	70,6	79,4	88,2	132,3
AR-233318AL-HT	EFXE-233318AL-HT	23,7	35,6	59,4	71,3	95,1	107,0	118,9	178,4
AR-234011AL-HT	EFXE-234011AL-HT	20,1	30,2	50,3	60,4	80,5	90,6	100,7	151,0
AR-234023AL-HT	EFXE-234023AL-HT	31,1	46,6	77,8	93,3	124,5	140,0	155,6	233,4
AR-236011AL-HT	EFXE-236011AL-HT	27,0	40,6	67,7	81,2	108,3	121,9	135,4	203,1
AR-314011AL-HT	EFXE-314011AL-HT	24,3	36,4	60,7	72,9	97,2	109,3	121,5	182,3
AR-314014AL-HT	EFXE-314014AL-HT	27,4	41,2	68,7	82,4	109,9	123,7	137,4	206,2
AR-314018AL-HT	EFXE-314018AL-HT	31,9	47,8	79,7	95,7	127,6	143,5	159,5	239,2
AR-314023AL-HT	EFXE-314023AL-HT	36,7	55,1	91,9	110,3	147,1	165,5	183,9	275,8
AR-316011AL-HT	EFXE-316011AL-HT	32,0	48,0	80,0	96,0	128,1	144,1	160,1	240,1
AR-316018AL-HT	EFXE-316018AL-HT	41,3	62,0	103,4	124,1	165,5	186,2	206,9	310,3
AQ-606020AL-HT	EFXE-606020AL-HT	64,5	96,8	161,4	193,7	258,3	290,5	322,8	484,3

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Enclosure types (aluminium)		Maximum power dissipation (W) – Tamb. up to **60**°C						
		INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)	INTERNAL TEMP.130°C (T4/T135°C)
AQ-080806AL-HT	EFXE-080806AL-HT	2,6	5,2	6,5	9,1	10,4	11,7	18,2
AR-081306AL-HT	EFXE-081306AL-HT	3,5	7,0	8,8	12,3	14,1	15,9	24,7
AR-081806AL-HT	EFXE-081806AL-HT	4,4	8,9	11,1	15,5	17,8	20,0	31,1
AR-082505AL-HT	EFXE-082505AL-HT	5,4	10,9	13,7	19,2	21,9	24,7	38,4
AQ-101008AL-HT	EFXE-101008AL-HT	4,3	8,7	10,8	15,2	17,4	19,6	30,4
AR-101608AL-HT	EFXE-101608AL-HT	5,7	11,5	14,4	20,2	23,1	26,0	40,5
AR-102008AL-HT	EFXE-102008AL-HT	6,7	13,4	16,7	23,5	26,8	30,2	47,0
AQ-121208AL-HT	EFXE-121208AL-HT	5,4	10,8	13,5	18,9	21,6	24,3	37,8
AQ-121209AL-HT	EFXE-121209AL-HT	5,8	11,6	14,6	20,4	23,3	26,2	40,8
AR-122208AL-HT	EFXE-122208AL-HT	7,8	15,6	19,6	27,4	31,3	35,3	54,9
AR-122209AL-HT	EFXE-122209AL-HT	8,4	16,8	21,0	29,5	33,7	37,9	59,0
AR-123608AL-HT	EFXE-123608AL-HT	11,1	22,3	27,9	39,1	44,7	50,3	78,3
AQ-141409AL-HT	EFXE-141409AL-HT	6,8	13,7	17,2	24,1	27,5	31,0	48,2
AR-142009AL-HT	EFXE-142009AL-HT	8,5	17,1	21,4	30,0	34,2	38,5	60,0
AQ-161609AL-HT	EFXE-161609AL-HT	8,0	16,1	20,1	28,1	32,2	36,2	56,3
AR-162609AL-HT	EFXE-162609AL-HT	10,9	21,9	27,4	38,3	43,8	49,3	76,7
AR-163609AL-HT	EFXE-163609AL-HT	13,7	27,5	34,4	48,2	55,1	62,0	96,4
AR-165609AL-HT	EFXE-165609AL-HT	19,2	38,4	48,1	67,3	76,9	86,6	134,7
AQ-181810AL-HT	EFXE-181810AL-HT	9,8	19,7	24,6	34,5	39,5	44,4	69,1
AR-182810AL-HT	EFXE-182810AL-HT	13,0	26,1	32,6	45,7	52,2	58,7	91,4
AR-102311AL-HT	EFXE-102311AL-HT	9,1	18,2	22,8	31,9	36,5	41,0	63,8
AR-202311AL-HT	EFXE-202311AL-HT	13,0	26,1	32,6	45,6	52,2	58,7	91,3
AR-202318AL-HT	EFXE-202318AL-HT	17,9	35,9	44,9	62,8	71,8	80,8	125,7
AR-232811AL-HT	EFXE-232811AL-HT	15,8	31,6	39,6	55,4	63,3	71,3	110,9
AR-233311AL-HT	EFXE-233311AL-HT	17,6	35,3	44,1	61,7	70,6	79,4	123,5
AR-233318AL-HT	EFXE-233318AL-HT	23,7	47,5	59,4	83,2	95,1	107,0	166,5
AR-234011AL-HT	EFXE-234011AL-HT	20,1	40,2	50,3	70,5	80,5	90,6	141,0
AR-234023AL-HT	EFXE-234023AL-HT	31,1	62,2	77,8	108,9	124,5	140,0	217,9
AR-236011AL-HT	EFXE-236011AL-HT	27,0	54,1	67,7	94,8	108,3	121,9	189,6
AR-314011AL-HT	EFXE-314011AL-HT	24,3	48,6	60,7	85,0	97,2	109,3	170,1
AR-314014AL-HT	EFXE-314014AL-HT	27,4	54,9	68,7	96,2	109,9	123,7	192,4
AR-314018AL-HT	EFXE-314018AL-HT	31,9	63,8	79,7	111,6	127,6	143,5	223,3
AR-314023AL-HT	EFXE-314023AL-HT	36,7	73,5	91,9	128,7	147,1	165,5	257,4
AR-316011AL-HT	EFXE-316011AL-HT	32,0	64,0	80,0	112,0	128,1	144,1	224,1
AR-316018AL-HT	EFXE-316018AL-HT	41,3	82,7	103,4	144,8	165,5	186,2	289,6
AQ-606020AL-HT	EFXE-606020AL-HT	64,5	129,1	161,4	226,0	258,3	290,5	452,0

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Enclosure types (aluminium)		Maximum power dissipation (W) Tamb. up to **95**°C		
		INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)	INTERNAL TEMP.130°C (T4/T135°C)
AQ-080806AL-HT	EFXE-080806AL-HT	1,3	2,6	9,1
AR-081306AL-HT	EFXE-081306AL-HT	1,7	3,5	12,3
AR-081806AL-HT	EFXE-081806AL-HT	2,2	4,4	15,5
AR-082505AL-HT	EFXE-082505AL-HT	2,7	5,4	19,2
AQ-101008AL-HT	EFXE-101008AL-HT	2,1	4,3	15,2
AR-101608AL-HT	EFXE-101608AL-HT	2,8	5,7	20,2
AR-102008AL-HT	EFXE-102008AL-HT	3,3	6,7	23,5
AQ-121208AL-HT	EFXE-121208AL-HT	2,7	5,4	18,9
AQ-121209AL-HT	EFXE-121209AL-HT	2,9	5,8	20,4
AR-122208AL-HT	EFXE-122208AL-HT	3,9	7,8	27,4
AR-122209AL-HT	EFXE-122209AL-HT	4,2	8,4	29,5
AR-123608AL-HT	EFXE-123608AL-HT	5,5	11,1	39,1
AQ-141409AL-HT	EFXE-141409AL-HT	3,4	6,8	24,1
AR-142009AL-HT	EFXE-142009AL-HT	4,2	8,5	30,0
AQ-161609AL-HT	EFXE-161609AL-HT	4,0	8,0	28,1
AR-162609AL-HT	EFXE-162609AL-HT	5,4	10,9	38,3
AR-163609AL-HT	EFXE-163609AL-HT	6,8	13,7	48,2
AR-165609AL-HT	EFXE-165609AL-HT	9,6	19,2	67,3
AQ-181810AL-HT	EFXE-181810AL-HT	4,9	9,8	34,5
AR-182810AL-HT	EFXE-182810AL-HT	6,5	13,0	45,7
AR-102311AL-HT	EFXE-102311AL-HT	4,5	9,1	31,9
AR-202311AL-HT	EFXE-202311AL-HT	6,5	13,0	45,6
AR-202318AL-HT	EFXE-202318AL-HT	8,9	17,9	62,8
AR-232811AL-HT	EFXE-232811AL-HT	7,9	15,8	55,4
AR-233311AL-HT	EFXE-233311AL-HT	8,8	17,6	61,7
AR-233318AL-HT	EFXE-233318AL-HT	11,8	23,7	83,2
AR-234011AL-HT	EFXE-234011AL-HT	10,0	20,1	70,5
AR-234023AL-HT	EFXE-234023AL-HT	15,5	31,1	108,9
AR-236011AL-HT	EFXE-236011AL-HT	13,5	27,0	94,8
AR-314011AL-HT	EFXE-314011AL-HT	12,1	24,3	85,0
AR-314014AL-HT	EFXE-314014AL-HT	13,7	27,4	96,2
AR-314018AL-HT	EFXE-314018AL-HT	15,9	31,9	111,6
AR-314023AL-HT	EFXE-314023AL-HT	18,3	36,7	128,7
AR-316011AL-HT	EFXE-316011AL-HT	16,0	32,0	112,0
AR-316018AL-HT	EFXE-316018AL-HT	20,6	41,3	144,8
AQ-606020AL-HT	EFXE-606020AL-HT	32,2	64,5	226,0

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Power dissipation – Glass fiber reinforced polyester resin enclosures

Enclosure types (polyester)		Maximum power dissipation (W) – Tamb. up to **40**°C						
		INTERNAL TEMP.60°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
AQ-080806P	EFE-080806	3,4	5,2	6,9	7,8	9,5	10,4	11,3
AQ-080808P	EFE-080808	4,5	6,8	9,1	10,2	12,5	13,6	14,7
AR-081106P	EFE-081106	4,2	6,4	8,5	9,6	11,7	12,8	13,8
AR-081606P	EFE-081606	5,7	8,6	11,5	13,0	15,9	17,3	18,8
AR-081906P	EFE-081906	6,4	9,6	12,8	14,4	17,6	19,2	20,8
AQ-121209P	EFE-121209	7,9	11,9	15,9	17,9	21,9	23,9	25,9
AR-122209P	EFE-122209	10,8	16,2	21,6	24,3	29,7	32,4	35,1
AQ-161609P	EFE-161609	10,3	15,5	20,7	23,3	28,5	31,1	33,7
AR-162609P	EFE-162609	13,4	20,1	26,8	30,1	36,8	40,2	43,5
AR-163609P	EFE-163609	16,2	24,3	32,4	36,4	44,5	48,6	52,6
AQ-252612P	EFE-252612	18,8	28,2	37,6	42,3	51,7	56,4	61,1
AQ-252616P	EFE-252616	21,7	32,6	43,5	49,0	59,9	65,3	70,8
AR-254012P	EFE-254012	23,9	35,9	47,9	53,9	65,9	71,8	77,8
AR-254016P	EFE-254016	27,4	41,2	54,9	61,8	75,6	82,4	89,3
AR-256012P	EFE-256012	29,0	43,5	58,0	65,3	79,8	87,1	94,3
AQ-414012P	EFE-414012	29,1	43,6	58,2	65,5	80,0	87,3	94,6
AQ-414016P	EFE-414016	32,9	49,4	65,9	74,1	90,6	98,8	107,0

Enclosure types (polyester)		Maximum power dissipation (W) – Tamb. up to **50**°C						
		INTERNAL TEMP.60°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
AQ-080806P	EFE-080806	1,7	3,4	5,2	6,0	7,8	8,7	9,5
AQ-080808P	EFE-080808	2,2	4,5	6,8	7,9	10,2	11,3	12,5
AR-081106P	EFE-081106	2,1	4,2	6,4	7,4	9,6	10,6	11,7
AR-081606P	EFE-081606	2,8	5,7	8,6	10,1	13,0	14,4	15,9
AR-081906P	EFE-081906	3,2	6,4	9,6	11,2	14,4	16,0	17,6
AQ-121209P	EFE-121209	3,9	7,9	11,9	13,9	17,9	19,9	21,9
AR-122209P	EFE-122209	5,4	10,8	16,2	18,9	24,3	27,0	29,7
AQ-161609P	EFE-161609	5,1	10,3	15,5	18,1	23,3	25,9	28,5
AR-162609P	EFE-162609	6,7	13,4	20,1	23,4	30,1	33,5	36,8
AR-163609P	EFE-163609	8,1	16,2	24,3	28,3	36,4	40,5	44,5
AQ-252612P	EFE-252612	9,4	18,8	28,2	32,9	42,3	47,0	51,7
AQ-252616P	EFE-252616	10,8	21,7	32,6	38,1	49,0	54,4	59,9
AR-254012P	EFE-254012	11,9	23,9	35,9	41,9	53,9	59,9	65,9
AR-254016P	EFE-254016	13,7	27,4	41,2	48,1	61,8	68,7	75,6
AR-256012P	EFE-256012	14,5	29,0	43,5	50,8	65,3	72,6	79,8
AQ-414012P	EFE-414012	14,5	29,1	43,6	50,9	65,5	72,7	80,0
AQ-414016P	EFE-414016	16,4	32,9	49,4	57,6	74,1	82,3	90,6

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Enclosure types (polyester)		Maximum power dissipation (W) – Tamb. up to **55**°C						
		INTERNAL TEMP.65°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
AQ-080806P	EFE-080806	1,7	2,6	4,3	5,2	6,9	7,8	8,7
AQ-080808P	EFE-080808	2,2	3,4	5,6	6,8	9,1	10,2	11,3
AR-081106P	EFE-081106	2,1	3,2	5,3	6,4	8,5	9,6	10,6
AR-081606P	EFE-081606	2,8	4,3	7,2	8,6	11,5	13,0	14,4
AR-081906P	EFE-081906	3,2	4,8	8,0	9,6	12,8	14,4	16,0
AQ-121209P	EFE-121209	3,9	5,9	9,9	11,9	15,9	17,9	19,9
AR-122209P	EFE-122209	5,4	8,1	13,5	16,2	21,6	24,3	27,0
AQ-161609P	EFE-161609	5,1	7,7	12,9	15,5	20,7	23,3	25,9
AR-162609P	EFE-162609	6,7	10,0	16,7	20,1	26,8	30,1	33,5
AR-163609P	EFE-163609	8,1	12,1	20,2	24,3	32,4	36,4	40,5
AQ-252612P	EFE-252612	9,4	14,1	23,5	28,2	37,6	42,3	47,0
AQ-252616P	EFE-252616	10,8	16,3	27,2	32,6	43,5	49,0	54,4
AR-254012P	EFE-254012	11,9	17,9	29,9	35,9	47,9	53,9	59,9
AR-254016P	EFE-254016	13,7	20,6	34,3	41,2	54,9	61,8	68,7
AR-256012P	EFE-256012	14,5	21,7	36,3	43,5	58,0	65,3	72,6
AQ-414012P	EFE-414012	14,5	21,8	36,3	43,6	58,2	65,5	72,7
AQ-414016P	EFE-414016	16,4	24,7	41,1	49,4	65,9	74,1	82,3

Enclosure types (polyester)		Maximum power dissipation (W) – Tamb. up to **60**°C					
		INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
AQ-080806P	EFE-080806	1,7	3,4	4,3	6,0	6,9	7,8
AQ-080808P	EFE-080808	2,2	4,5	5,6	7,9	9,1	10,2
AR-081106P	EFE-081106	2,1	4,2	5,3	7,4	8,5	9,6
AR-081606P	EFE-081606	2,8	5,7	7,2	10,1	11,5	13,0
AR-081906P	EFE-081906	3,2	6,4	8,0	11,2	12,8	14,4
AQ-121209P	EFE-121209	3,9	7,9	9,9	13,9	15,9	17,9
AR-122209P	EFE-122209	5,4	10,8	13,5	18,9	21,6	24,3
AQ-161609P	EFE-161609	5,1	10,3	12,9	18,1	20,7	23,3
AR-162609P	EFE-162609	6,7	13,4	16,7	23,4	26,8	30,1
AR-163609P	EFE-163609	8,1	16,2	20,2	28,3	32,4	36,4
AQ-252612P	EFE-252612	9,4	18,8	23,5	32,9	37,6	42,3
AQ-252616P	EFE-252616	10,8	21,7	27,2	38,1	43,5	49,0
AR-254012P	EFE-254012	11,9	23,9	29,9	41,9	47,9	53,9
AR-254016P	EFE-254016	13,7	27,4	34,3	48,1	54,9	61,8
AR-256012P	EFE-256012	14,5	29,0	36,3	50,8	58,0	65,3
AQ-414012P	EFE-414012	14,5	29,1	36,3	50,9	58,2	65,5
AQ-414016P	EFE-414016	16,4	32,9	41,1	57,6	65,9	74,1

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Enclosure types (polyester)		Maximum power dissipation (W) – Tamb. up to **95**°C	
		INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
AQ-080806P	EFE-080806	0,8	1,7
AQ-080808P	EFE-080808	1,1	2,2
AR-081106P	EFE-081106	1,0	2,1
AR-081606P	EFE-081606	1,4	2,8
AR-081906P	EFE-081906	1,6	3,2
AQ-121209P	EFE-121209	1,9	3,9
AR-122209P	EFE-122209	2,7	5,4
AQ-161609P	EFE-161609	2,5	5,1
AR-162609P	EFE-162609	3,3	6,7
AR-163609P	EFE-163609	4,0	8,1
AQ-252612P	EFE-252612	4,7	9,4
AQ-252616P	EFE-252616	5,4	10,8
AR-254012P	EFE-254012	5,9	11,9
AR-254016P	EFE-254016	6,8	13,7
AR-256012P	EFE-256012	7,2	14,5
AQ-414012P	EFE-414012	7,2	14,5
AQ-414016P	EFE-414016	8,2	16,4

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Power dissipation – Aluminum alloy enclosures

Enclosure types (aluminium)		Maximum power dissipation (W) – Tamb. up to **40**°C						
		INTERNAL TEMP.60°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
AQ-080806AL	EFXE-080806AL	5,2	7,8	10,4	11,7	14,3	15,6	16,9
AR-081306AL	EFXE-081306AL	7,0	10,6	14,1	15,9	19,4	21,2	23,0
AR-081806AL	EFXE-081806AL	8,9	13,3	17,8	20,0	24,5	26,7	28,9
AR-081808AL	EFXE-081808AL	11,0	16,5	22,1	24,8	30,4	33,1	35,9
AR-082505AL	EFXE-082505AL	10,7	16,1	21,4	24,1	29,5	32,2	34,8
AR-082508AL	EFXE-082508AL	14,2	21,4	28,5	32,1	39,2	42,8	46,4
AQ-101008AL	EFXE-101008AL	8,7	13,0	17,4	19,6	23,9	26,1	28,3
AR-101508AL	EFXE-101508AL	11,1	16,6	22,2	24,9	30,5	33,3	36,0
AR-101608AL	EFXE-101608AL	11,5	17,3	23,1	26,0	31,8	34,7	37,6
AR-102008AL	EFXE-102008AL	13,4	20,1	26,8	30,2	36,9	40,3	43,6
AQ-121208AL	EFXE-121208AL	10,8	16,2	21,6	24,3	29,7	32,4	35,1
AR-122209AL	EFXE-122209AL	16,8	25,3	33,7	37,9	46,3	50,6	54,8
AQ-141409AL	EFXE-141409AL	13,7	20,6	27,5	31,0	37,9	41,3	44,8
AR-142009AL	EFXE-142009AL	17,1	25,7	34,2	38,5	47,1	51,4	55,7
AQ-161609AL	EFXE-161609AL	17,2	25,8	34,4	38,7	47,3	51,6	55,9
AR-162410AL	EFXE-162410AL	22,1	33,1	44,2	49,7	60,8	66,3	71,8
AR-162609AL	EFXE-162609AL	21,9	32,8	43,8	49,3	60,2	65,7	71,2
AQ-181810AL	EFXE-181810AL	19,7	29,6	39,5	44,4	54,3	59,2	64,2
AR-182810AL	EFXE-182810AL	26,1	39,1	52,2	58,7	71,8	78,3	84,8
AR-202311AL	EFXE-202311AL	25,8	38,7	51,6	58,0	71,0	77,4	83,9
AR-202318AL	EFXE-202318AL	35,5	53,3	71,1	80,0	97,8	106,7	115,6
AR-232811AL	EFXE-232811AL	31,6	47,5	63,3	71,3	87,1	95,0	103,0
AR-233312AL	EFXE-233312AL	37,0	55,6	74,1	83,4	101,9	111,2	120,5
AR-233318AL	EFXE-233318AL	47,5	71,3	95,1	107,0	130,8	142,7	154,6

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Enclosure types (aluminium)		Maximum power dissipation (W) – Tamb. up to **50**°C						
		INTERNAL TEMP.60°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
AQ-080806AL	EFXE-080806AL	2,6	5,2	7,8	9,1	11,7	13,0	14,3
AR-081306AL	EFXE-081306AL	3,5	7,0	10,6	12,3	15,9	17,7	19,4
AR-081806AL	EFXE-081806AL	4,4	8,9	13,3	15,5	20,0	22,2	24,5
AR-081808AL	EFXE-081808AL	5,5	11,0	16,5	19,3	24,8	27,6	30,4
AR-082505AL	EFXE-082505AL	5,3	10,7	16,1	18,7	24,1	26,8	29,5
AR-082508AL	EFXE-082508AL	7,1	14,2	21,4	24,9	32,1	35,7	39,2
AQ-101008AL	EFXE-101008AL	4,3	8,7	13,0	15,2	19,6	21,7	23,9
AR-101508AL	EFXE-101508AL	5,5	11,1	16,6	19,4	24,9	27,7	30,5
AR-101608AL	EFXE-101608AL	5,7	11,5	17,3	20,2	26,0	28,9	31,8
AR-102008AL	EFXE-102008AL	6,7	13,4	20,1	23,5	30,2	33,5	36,9
AQ-121208AL	EFXE-121208AL	5,4	10,8	16,2	18,9	24,3	27,0	29,7
AR-122209AL	EFXE-122209AL	8,4	16,8	25,3	29,5	37,9	42,1	46,3
AQ-141409AL	EFXE-141409AL	6,8	13,7	20,6	24,1	31,0	34,4	37,9
AR-142009AL	EFXE-142009AL	8,5	17,1	25,7	30,0	38,5	42,8	47,1
AQ-161609AL	EFXE-161609AL	8,6	17,2	25,8	30,1	38,7	43,0	47,3
AR-162410AL	EFXE-162410AL	11,0	22,1	33,1	38,7	49,7	55,3	60,8
AR-162609AL	EFXE-162609AL	10,9	21,9	32,8	38,3	49,3	54,8	60,2
AQ-181810AL	EFXE-181810AL	9,8	19,7	29,6	34,5	44,4	49,3	54,3
AR-182810AL	EFXE-182810AL	13,0	26,1	39,1	45,7	58,7	65,2	71,8
AR-202311AL	EFXE-202311AL	12,9	25,8	38,7	45,1	58,0	64,5	71,0
AR-202318AL	EFXE-202318AL	17,7	35,5	53,3	62,2	80,0	88,9	97,8
AR-232811AL	EFXE-232811AL	15,8	31,6	47,5	55,4	71,3	79,2	87,1
AR-233312AL	EFXE-233312AL	18,5	37,0	55,6	64,8	83,4	92,7	101,9
AR-233318AL	EFXE-233318AL	23,7	47,5	71,3	83,2	107,0	118,9	130,8

Enclosure types (aluminium)		Maximum power dissipation (W) – Tamb. up to **55**°C						
		INTERNAL TEMP.65°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
AQ-080806AL	EFXE-080806AL	2,6	3,9	6,5	7,8	10,4	11,7	13,0
AR-081306AL	EFXE-081306AL	3,5	5,3	8,8	10,6	14,1	15,9	17,7
AR-081806AL	EFXE-081806AL	4,4	6,6	11,1	13,3	17,8	20,0	22,2
AR-081808AL	EFXE-081808AL	5,5	8,2	13,8	16,5	22,1	24,8	27,6
AR-082505AL	EFXE-082505AL	5,3	8,0	13,4	16,1	21,4	24,1	26,8
AR-082508AL	EFXE-082508AL	7,1	10,7	17,8	21,4	28,5	32,1	35,7
AQ-101008AL	EFXE-101008AL	4,3	6,5	10,8	13,0	17,4	19,6	21,7
AR-101508AL	EFXE-101508AL	5,5	8,3	13,8	16,6	22,2	24,9	27,7
AR-101608AL	EFXE-101608AL	5,7	8,6	14,4	17,3	23,1	26,0	28,9
AR-102008AL	EFXE-102008AL	6,7	10,0	16,7	20,1	26,8	30,2	33,5
AQ-121208AL	EFXE-121208AL	5,4	8,1	13,5	16,2	21,6	24,3	27,0
AR-122209AL	EFXE-122209AL	8,4	12,6	21,0	25,3	33,7	37,9	42,1
AQ-141409AL	EFXE-141409AL	6,8	10,3	17,2	20,6	27,5	31,0	34,4
AR-142009AL	EFXE-142009AL	8,5	12,8	21,4	25,7	34,2	38,5	42,8
AQ-161609AL	EFXE-161609AL	8,6	12,9	21,5	25,8	34,4	38,7	43,0
AR-162410AL	EFXE-162410AL	11,0	16,5	27,6	33,1	44,2	49,7	55,3
AR-162609AL	EFXE-162609AL	10,9	16,4	27,4	32,8	43,8	49,3	54,8
AQ-181810AL	EFXE-181810AL	9,8	14,8	24,6	29,6	39,5	44,4	49,3
AR-182810AL	EFXE-182810AL	13,0	19,5	32,6	39,1	52,2	58,7	65,2
AR-202311AL	EFXE-202311AL	12,9	19,3	32,2	38,7	51,6	58,0	64,5
AR-202318AL	EFXE-202318AL	17,7	26,6	44,4	53,3	71,1	80,0	88,9
AR-232811AL	EFXE-232811AL	15,8	23,7	39,6	47,5	63,3	71,3	79,2
AR-233312AL	EFXE-233312AL	18,5	27,8	46,3	55,6	74,1	83,4	92,7
AR-233318AL	EFXE-233318AL	23,7	35,6	59,4	71,3	95,1	107,0	118,9

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Enclosure types (aluminium)		Maximum power dissipation (W) – Tamb. up to **60**°C					
		INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
AQ-080806AL	EFXE-080806AL	2,6	5,2	6,5	9,1	10,4	11,7
AR-081306AL	EFXE-081306AL	3,5	7,0	8,8	12,3	14,1	15,9
AR-081806AL	EFXE-081806AL	4,4	8,9	11,1	15,5	17,8	20,0
AR-081808AL	EFXE-081808AL	5,5	11,0	13,8	19,3	22,1	24,8
AR-082505AL	EFXE-082505AL	5,3	10,7	13,4	18,7	21,4	24,1
AR-082508AL	EFXE-082508AL	7,1	14,2	17,8	24,9	28,5	32,1
AQ-101008AL	EFXE-101008AL	4,3	8,7	10,8	15,2	17,4	19,6
AR-101508AL	EFXE-101508AL	5,5	11,1	13,8	19,4	22,2	24,9
AR-101608AL	EFXE-101608AL	5,7	11,5	14,4	20,2	23,1	26,0
AR-102008AL	EFXE-102008AL	6,7	13,4	16,7	23,5	26,8	30,2
AQ-121208AL	EFXE-121208AL	5,4	10,8	13,5	18,9	21,6	24,3
AR-122209AL	EFXE-122209AL	8,4	16,8	21,0	29,5	33,7	37,9
AQ-141409AL	EFXE-141409AL	6,8	13,7	17,2	24,1	27,5	31,0
AR-142009AL	EFXE-142009AL	8,5	17,1	21,4	30,0	34,2	38,5
AQ-161609AL	EFXE-161609AL	8,6	17,2	21,5	30,1	34,4	38,7
AR-162410AL	EFXE-162410AL	11,0	22,1	27,6	38,7	44,2	49,7
AR-162609AL	EFXE-162609AL	10,9	21,9	27,4	38,3	43,8	49,3
AQ-181810AL	EFXE-181810AL	9,8	19,7	24,6	34,5	39,5	44,4
AR-182810AL	EFXE-182810AL	13,0	26,1	32,6	45,7	52,2	58,7
AR-202311AL	EFXE-202311AL	12,9	25,8	32,2	45,1	51,6	58,0
AR-202318AL	EFXE-202318AL	17,7	35,5	44,4	62,2	71,1	80,0
AR-232811AL	EFXE-232811AL	15,8	31,6	39,6	55,4	63,3	71,3
AR-233312AL	EFXE-233312AL	18,5	37,0	46,3	64,8	74,1	83,4
AR-233318AL	EFXE-233318AL	23,7	47,5	59,4	83,2	95,1	107,0

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Enclosure types (aluminium)		Maximum power dissipation (W) – Tamb. up to **95**°C	
		INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
AQ-080806AL	EFXE-080806AL	1,3	2,6
AR-081306AL	EFXE-081306AL	1,7	3,5
AR-081806AL	EFXE-081806AL	2,2	4,4
AR-081808AL	EFXE-081808AL	2,7	5,5
AR-082505AL	EFXE-082505AL	2,6	5,3
AR-082508AL	EFXE-082508AL	3,5	7,1
AQ-101008AL	EFXE-101008AL	2,1	4,3
AR-101508AL	EFXE-101508AL	2,7	5,5
AR-101608AL	EFXE-101608AL	2,8	5,7
AR-102008AL	EFXE-102008AL	3,3	6,7
AQ-121208AL	EFXE-121208AL	2,7	5,4
AR-122209AL	EFXE-122209AL	4,2	8,4
AQ-141409AL	EFXE-141409AL	3,4	6,8
AR-142009AL	EFXE-142009AL	4,2	8,5
AQ-161609AL	EFXE-161609AL	4,3	8,6
AR-162410AL	EFXE-162410AL	5,5	11,0
AR-162609AL	EFXE-162609AL	5,4	10,9
AQ-181810AL	EFXE-181810AL	4,9	9,8
AR-182810AL	EFXE-182810AL	6,5	13,0
AR-202311AL	EFXE-202311AL	6,4	12,9
AR-202318AL	EFXE-202318AL	8,8	17,7
AR-232811AL	EFXE-232811AL	7,9	15,8
AR-233312AL	EFXE-233312AL	9,2	18,5
AR-233318AL	EFXE-233318AL	11,8	23,7

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Power dissipation – Stainless steel enclosures SB series

Enclosure types (stainless steel)		Maximum power dissipation (W) – Tamb. up to **40**°C						
		INTERNAL TEMP.60°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
SB-101210	EFXE-101210SB	5,5	8,3	11,1	12,5	15,3	16,7	18,1
SB-151510	EFXE-151510SB	8,0	12,0	16,0	18,0	22,0	24,0	26,1
SB-142013	EFXE-142013SB	10,4	15,7	20,9	23,5	28,8	31,4	34,0
SB-202010	EFXE-202010SB	10,7	16,1	21,4	24,1	29,5	32,2	34,8
SB-202016	EFXE-202016SB	13,9	20,8	27,8	31,3	38,3	41,7	45,2
SB-202713	EFXE-202713SB	14,4	21,6	28,9	32,5	39,7	43,3	46,9
SB-272713	EFXE-272713SB	16,7	25,1	33,5	37,7	46,0	50,2	54,4
SB-203016	EFXE-203016SB	17,1	25,7	34,3	38,6	47,2	51,4	55,7
SB-273513	EFXE-273513SB	19,2	28,9	38,5	43,3	53,0	57,8	62,6
SB-282816	EFXE-282816SB	19,3	29,0	38,7	43,6	53,3	58,1	63,0
SB-204016	EFXE-204016SB	20,2	30,3	40,4	45,5	55,6	60,6	65,7
SB-353516	EFXE-353516SB	24,4	36,6	48,8	54,9	67,1	73,2	79,3
SB-282827	EFXE-282827SB	26,2	39,3	52,5	59,0	72,2	78,7	85,3
SB-355016	EFXE-355016SB	29,7	44,5	59,4	66,8	81,7	89,1	96,6
SB-383816	EFXE-383816SB	26,6	39,9	53,2	59,8	73,1	79,8	86,5
SB-384516	EFXE-384516SB	29,1	43,7	58,3	65,6	80,2	87,5	94,8
SB-385716	EFXE-385716SB	33,4	50,1	66,8	75,2	91,9	100,3	108,7
SB-505016	EFXE-505016SB	35,8	53,8	71,7	80,7	98,6	107,6	116,6
SB-383827	EFXE-383827SB	35,1	52,7	70,2	79,0	96,6	105,4	114,2
SB-575716	EFXE-575716SB	41,5	62,3	83,1	93,5	114,3	124,7	135,1
SB-577620	EFXE-577620SB	53,9	80,9	107,9	121,3	148,3	161,8	175,3
SB-575730	EFXE-575730SB	55,8	83,7	111,6	125,6	153,5	167,5	181,4
SB-769520	EFXE-769520SB	72,2	108,3	144,4	162,4	198,5	216,6	234,6
SB-1258040	EFXE-1258040SB	72,2	108,3	144,4	162,4	198,5	216,6	234,6

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Enclosure types (Stainless steel)		Maximum power dissipation (W) – Tamb. up to **50**°C						
		INTERNAL TEMP.60°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
SB-101210	EFXE-101210SB	2,7	5,5	8,3	9,7	12,5	13,9	15,3
SB-151510	EFXE-151510SB	4,0	8,0	12,0	14,0	18,0	20,0	22,0
SB-142013	EFXE-142013SB	5,2	10,4	15,7	18,3	23,5	26,2	28,8
SB-202010	EFXE-202010SB	5,3	10,7	16,1	18,7	24,1	26,8	29,5
SB-202016	EFXE-202016SB	6,9	13,9	20,8	24,3	31,3	34,8	38,3
SB-202713	EFXE-202713SB	7,2	14,4	21,6	25,2	32,5	36,1	39,7
SB-272713	EFXE-272713SB	8,3	16,7	25,1	29,3	37,7	41,8	46,0
SB-203016	EFXE-203016SB	8,5	17,1	25,7	30,0	38,6	42,9	47,2
SB-273513	EFXE-273513SB	9,6	19,2	28,9	33,7	43,3	48,2	53,0
SB-282816	EFXE-282816SB	9,6	19,3	29,0	33,9	43,6	48,4	53,3
SB-204016	EFXE-204016SB	10,1	20,2	30,3	35,4	45,5	50,5	55,6
SB-353516	EFXE-353516SB	12,2	24,4	36,6	42,7	54,9	61,0	67,1
SB-282827	EFXE-282827SB	13,1	26,2	39,3	45,9	59,0	65,6	72,2
SB-355016	EFXE-355016SB	14,8	29,7	44,5	52,0	66,8	74,3	81,7
SB-383816	EFXE-383816SB	13,3	26,6	39,9	46,5	59,8	66,5	73,1
SB-384516	EFXE-384516SB	14,5	29,1	43,7	51,0	65,6	72,9	80,2
SB-385716	EFXE-385716SB	16,7	33,4	50,1	58,5	75,2	83,6	91,9
SB-505016	EFXE-505016SB	17,9	35,8	53,8	62,7	80,7	89,7	98,6
SB-383827	EFXE-383827SB	17,5	35,1	52,7	61,4	79,0	87,8	96,6
SB-575716	EFXE-575716SB	20,7	41,5	62,3	72,7	93,5	103,9	114,3
SB-577620	EFXE-577620SB	26,9	53,9	80,9	94,4	121,3	134,8	148,3
SB-575730	EFXE-575730SB	27,9	55,8	83,7	97,7	125,6	139,5	153,5
SB-769520	EFXE-769520SB	36,1	72,2	108,3	126,3	162,4	180,5	198,5
SB-1258040	EFXE-1258040SB	36,1	72,2	108,3	126,3	162,4	180,5	198,5

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Enclosure types (Stainless steel)		Maximum power dissipation (W) – Tamb. up to **55**°C						
		INTERNAL TEMP.65°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
SB-101210	EFXE-101210SB	2,7	4,1	6,9	8,3	11,1	12,5	13,9
SB-151510	EFXE-151510SB	4,0	6,0	10,0	12,0	16,0	18,0	20,0
SB-142013	EFXE-142013SB	5,2	7,8	13,1	15,7	20,9	23,5	26,2
SB-202010	EFXE-202010SB	5,3	8,0	13,4	16,1	21,4	24,1	26,8
SB-202016	EFXE-202016SB	6,9	10,4	17,4	20,8	27,8	31,3	34,8
SB-202713	EFXE-202713SB	7,2	10,8	18,0	21,6	28,9	32,5	36,1
SB-272713	EFXE-272713SB	8,3	12,5	20,9	25,1	33,5	37,7	41,8
SB-203016	EFXE-203016SB	8,5	12,8	21,4	25,7	34,3	38,6	42,9
SB-273513	EFXE-273513SB	9,6	14,4	24,1	28,9	38,5	43,3	48,2
SB-282816	EFXE-282816SB	9,6	14,5	24,2	29,0	38,7	43,6	48,4
SB-204016	EFXE-204016SB	10,1	15,1	25,2	30,3	40,4	45,5	50,5
SB-353516	EFXE-353516SB	12,2	18,3	30,5	36,6	48,8	54,9	61,0
SB-282827	EFXE-282827SB	13,1	19,6	32,8	39,3	52,5	59,0	65,6
SB-355016	EFXE-355016SB	14,8	22,2	37,1	44,5	59,4	66,8	74,3
SB-383816	EFXE-383816SB	13,3	19,9	33,2	39,9	53,2	59,8	66,5
SB-384516	EFXE-384516SB	14,5	21,8	36,4	43,7	58,3	65,6	72,9
SB-385716	EFXE-385716SB	16,7	25,0	41,8	50,1	66,8	75,2	83,6
SB-505016	EFXE-505016SB	17,9	26,9	44,8	53,8	71,7	80,7	89,7
SB-383827	EFXE-383827SB	17,5	26,3	43,9	52,7	70,2	79,0	87,8
SB-575716	EFXE-575716SB	20,7	31,1	51,9	62,3	83,1	93,5	103,9
SB-577620	EFXE-577620SB	26,9	40,4	67,4	80,9	107,9	121,3	134,8
SB-575730	EFXE-575730SB	27,9	41,8	69,7	83,7	111,6	125,6	139,5
SB-769520	EFXE-769520SB	36,1	54,1	90,2	108,3	144,4	162,4	180,5
SB-1258040	EFXE-1258040SB	36,1	54,1	90,2	108,3	144,4	162,4	180,5

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Enclosure types (Stainless steel)		Maximum power dissipation (W) – Tamb. up to **60**°C					
		INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
SB-101210	EFXE-101210SB	2,7	5,5	6,9	9,7	11,1	12,5
SB-151510	EFXE-151510SB	4,0	8,0	10,0	14,0	16,0	18,0
SB-142013	EFXE-142013SB	5,2	10,4	13,1	18,3	20,9	23,5
SB-202010	EFXE-202010SB	5,3	10,7	13,4	18,7	21,4	24,1
SB-202016	EFXE-202016SB	6,9	13,9	17,4	24,3	27,8	31,3
SB-202713	EFXE-202713SB	7,2	14,4	18,0	25,2	28,9	32,5
SB-272713	EFXE-272713SB	8,3	16,7	20,9	29,3	33,5	37,7
SB-203016	EFXE-203016SB	8,5	17,1	21,4	30,0	34,3	38,6
SB-273513	EFXE-273513SB	9,6	19,2	24,1	33,7	38,5	43,3
SB-282816	EFXE-282816SB	9,6	19,3	24,2	33,9	38,7	43,6
SB-204016	EFXE-204016SB	10,1	20,2	25,2	35,4	40,4	45,5
SB-353516	EFXE-353516SB	12,2	24,4	30,5	42,7	48,8	54,9
SB-282827	EFXE-282827SB	13,1	26,2	32,8	45,9	52,5	59,0
SB-355016	EFXE-355016SB	14,8	29,7	37,1	52,0	59,4	66,8
SB-383816	EFXE-383816SB	13,3	26,6	33,2	46,5	53,2	59,8
SB-384516	EFXE-384516SB	14,5	29,1	36,4	51,0	58,3	65,6
SB-385716	EFXE-385716SB	16,7	33,4	41,8	58,5	66,8	75,2
SB-505016	EFXE-505016SB	17,9	35,8	44,8	62,7	71,7	80,7
SB-383827	EFXE-383827SB	17,5	35,1	43,9	61,4	70,2	79,0
SB-575716	EFXE-575716SB	20,7	41,5	51,9	72,7	83,1	93,5
SB-577620	EFXE-577620SB	26,9	53,9	67,4	94,4	107,9	121,3
SB-575730	EFXE-575730SB	27,9	55,8	69,7	97,7	111,6	125,6
SB-769520	EFXE-769520SB	36,1	72,2	90,2	126,3	144,4	162,4
SB-1258040	EFXE-1258040SB	36,1	72,2	90,2	126,3	144,4	162,4

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Enclosure types (Stainless steel)		Maximum power dissipation (W) – Tamb. up to **95**°C	
		INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
SB-101210	EFXE-101210SB	1,3	2,7
SB-151510	EFXE-151510SB	2,0	4,0
SB-142013	EFXE-142013SB	2,6	5,2
SB-202010	EFXE-202010SB	2,6	5,3
SB-202016	EFXE-202016SB	3,4	6,9
SB-202713	EFXE-202713SB	3,6	7,2
SB-272713	EFXE-272713SB	4,1	8,3
SB-203016	EFXE-203016SB	4,2	8,5
SB-273513	EFXE-273513SB	4,8	9,6
SB-282816	EFXE-282816SB	4,8	9,6
SB-204016	EFXE-204016SB	5,0	10,1
SB-353516	EFXE-353516SB	6,1	12,2
SB-282827	EFXE-282827SB	6,5	13,1
SB-355016	EFXE-355016SB	7,4	14,8
SB-383816	EFXE-383816SB	6,6	13,3
SB-384516	EFXE-384516SB	7,2	14,5
SB-385716	EFXE-385716SB	8,3	16,7
SB-505016	EFXE-505016SB	8,9	17,9
SB-383827	EFXE-383827SB	8,7	17,5
SB-575716	EFXE-575716SB	10,3	20,7
SB-577620	EFXE-577620SB	13,4	26,9
SB-575730	EFXE-575730SB	13,9	27,9
SB-769520	EFXE-769520SB	18,0	36,1
SB-1258040	EFXE-1258040SB	18,0	36,1

Power dissipation – Stainless steel enclosures ST series

Enclosure types (Stainless steel)		Maximum power dissipation (W) – Tamb. up to **40**°C						
		INTERNAL TEMP.60°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
ST-101210	EFXE-101210ST	5,5	8,3	11,1	12,5	15,3	16,7	18,1
ST-151510	EFXE-151510ST	8,0	12,0	16,0	18,0	22,0	24,0	26,1
ST-142013	EFXE-142013ST	10,4	15,7	20,9	23,5	28,8	31,4	34,0
ST-202010	EFXE-202010ST	10,7	16,1	21,4	24,1	29,5	32,2	34,8
ST-202016	EFXE-202016ST	13,9	20,8	27,8	31,3	38,3	41,7	45,2
ST-202713	EFXE-202713ST	14,4	21,6	28,9	32,5	39,7	43,3	46,9
ST-272713	EFXE-272713ST	16,7	25,1	33,5	37,7	46,0	50,2	54,4
ST-203016	EFXE-203016ST	17,1	25,7	34,3	38,6	47,2	51,4	55,7
ST-273513	EFXE-273513ST	19,2	28,9	38,5	43,3	53,0	57,8	62,6
ST-282816	EFXE-282816ST	19,3	29,0	38,7	43,6	53,3	58,1	63,0
ST-204016	EFXE-204016ST	20,2	30,3	40,4	45,5	55,6	60,6	65,7
ST-353516	EFXE-353516ST	24,4	36,6	48,8	54,9	67,1	73,2	79,3
ST-282827	EFXE-282827ST	26,2	39,3	52,5	59,0	72,2	78,7	85,3
ST-355016	EFXE-355016ST	29,7	44,5	59,4	66,8	81,7	89,1	96,6
ST-383816	EFXE-383816ST	26,6	39,9	53,2	59,8	73,1	79,8	86,5
ST-384516	EFXE-384516ST	29,1	43,7	58,3	65,6	80,2	87,5	94,8
ST-385716	EFXE-385716ST	33,4	50,1	66,8	75,2	91,9	100,3	108,7
ST-505016	EFXE-505016ST	35,8	53,8	71,7	80,7	98,6	107,6	116,6
ST-383827	EFXE-383827ST	35,1	52,7	70,2	79,0	96,6	105,4	114,2
ST-575716	EFXE-575716ST	41,5	62,3	83,1	93,5	114,3	124,7	135,1
ST-577620	EFXE-577620ST	53,9	80,9	107,9	121,3	148,3	161,8	175,3
ST-575730	EFXE-575730ST	55,8	83,7	111,6	125,6	153,5	167,5	181,4
ST-769520	EFXE-769520ST	72,2	108,3	144,4	162,4	198,5	216,6	234,6
ST-1258040	EFXE-1258040ST	72,2	108,3	144,4	162,4	198,5	216,6	234,6

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Enclosure types (Stainless steel)		Maximum power dissipation (W) – Tamb. up to **50**°C						
		INTERNAL TEMP.60°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
ST-101210	EFXE-101210ST	2,7	5,5	8,3	9,7	12,5	13,9	15,3
ST-151510	EFXE-151510ST	4,0	8,0	12,0	14,0	18,0	20,0	22,0
ST-142013	EFXE-142013ST	5,2	10,4	15,7	18,3	23,5	26,2	28,8
ST-202010	EFXE-202010ST	5,3	10,7	16,1	18,7	24,1	26,8	29,5
ST-202016	EFXE-202016ST	6,9	13,9	20,8	24,3	31,3	34,8	38,3
ST-202713	EFXE-202713ST	7,2	14,4	21,6	25,2	32,5	36,1	39,7
ST-272713	EFXE-272713ST	8,3	16,7	25,1	29,3	37,7	41,8	46,0
ST-203016	EFXE-203016ST	8,5	17,1	25,7	30,0	38,6	42,9	47,2
ST-273513	EFXE-273513ST	9,6	19,2	28,9	33,7	43,3	48,2	53,0
ST-282816	EFXE-282816ST	9,6	19,3	29,0	33,9	43,6	48,4	53,3
ST-204016	EFXE-204016ST	10,1	20,2	30,3	35,4	45,5	50,5	55,6
ST-353516	EFXE-353516ST	12,2	24,4	36,6	42,7	54,9	61,0	67,1
ST-282827	EFXE-282827ST	13,1	26,2	39,3	45,9	59,0	65,6	72,2
ST-355016	EFXE-355016ST	14,8	29,7	44,5	52,0	66,8	74,3	81,7
ST-383816	EFXE-383816ST	13,3	26,6	39,9	46,5	59,8	66,5	73,1
ST-384516	EFXE-384516ST	14,5	29,1	43,7	51,0	65,6	72,9	80,2
ST-385716	EFXE-385716ST	16,7	33,4	50,1	58,5	75,2	83,6	91,9
ST-505016	EFXE-505016ST	17,9	35,8	53,8	62,7	80,7	89,7	98,6
ST-383827	EFXE-383827ST	17,5	35,1	52,7	61,4	79,0	87,8	96,6
ST-575716	EFXE-575716ST	20,7	41,5	62,3	72,7	93,5	103,9	114,3
ST-577620	EFXE-577620ST	26,9	53,9	80,9	94,4	121,3	134,8	148,3
ST-575730	EFXE-575730ST	27,9	55,8	83,7	97,7	125,6	139,5	153,5
ST-769520	EFXE-769520ST	36,1	72,2	108,3	126,3	162,4	180,5	198,5
ST-1258040	EFXE-1258040ST	36,1	72,2	108,3	126,3	162,4	180,5	198,5

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Enclosure types (Stainless steel)		Maximum power dissipation (W) – Tamb. up to **55**°C						
		INTERNAL TEMP.65°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
ST-101210	EFXE-101210ST	2,7	4,1	6,9	8,3	11,1	12,5	13,9
ST-151510	EFXE-151510ST	4,0	6,0	10,0	12,0	16,0	18,0	20,0
ST-142013	EFXE-142013ST	5,2	7,8	13,1	15,7	20,9	23,5	26,2
ST-202010	EFXE-202010ST	5,3	8,0	13,4	16,1	21,4	24,1	26,8
ST-202016	EFXE-202016ST	6,9	10,4	17,4	20,8	27,8	31,3	34,8
ST-202713	EFXE-202713ST	7,2	10,8	18,0	21,6	28,9	32,5	36,1
ST-272713	EFXE-272713ST	8,3	12,5	20,9	25,1	33,5	37,7	41,8
ST-203016	EFXE-203016ST	8,5	12,8	21,4	25,7	34,3	38,6	42,9
ST-273513	EFXE-273513ST	9,6	14,4	24,1	28,9	38,5	43,3	48,2
ST-282816	EFXE-282816ST	9,6	14,5	24,2	29,0	38,7	43,6	48,4
ST-204016	EFXE-204016ST	10,1	15,1	25,2	30,3	40,4	45,5	50,5
ST-353516	EFXE-353516ST	12,2	18,3	30,5	36,6	48,8	54,9	61,0
ST-282827	EFXE-282827ST	13,1	19,6	32,8	39,3	52,5	59,0	65,6
ST-355016	EFXE-355016ST	14,8	22,2	37,1	44,5	59,4	66,8	74,3
ST-383816	EFXE-383816ST	13,3	19,9	33,2	39,9	53,2	59,8	66,5
ST-384516	EFXE-384516ST	14,5	21,8	36,4	43,7	58,3	65,6	72,9
ST-385716	EFXE-385716ST	16,7	25,0	41,8	50,1	66,8	75,2	83,6
ST-505016	EFXE-505016ST	17,9	26,9	44,8	53,8	71,7	80,7	89,7
ST-383827	EFXE-383827ST	17,5	26,3	43,9	52,7	70,2	79,0	87,8
ST-575716	EFXE-575716ST	20,7	31,1	51,9	62,3	83,1	93,5	103,9
ST-577620	EFXE-577620ST	26,9	40,4	67,4	80,9	107,9	121,3	134,8
ST-575730	EFXE-575730ST	27,9	41,8	69,7	83,7	111,6	125,6	139,5
ST-769520	EFXE-769520ST	36,1	54,1	90,2	108,3	144,4	162,4	180,5
ST-1258040	EFXE-1258040ST	36,1	54,1	90,2	108,3	144,4	162,4	180,5

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Enclosure types (Stainless steel)		Maximum power dissipation (W) – Tamb. up to **60**°C					
		INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
ST-101210	EFXE-101210ST	2,7	5,5	6,9	9,7	11,1	12,5
ST-151510	EFXE-151510ST	4,0	8,0	10,0	14,0	16,0	18,0
ST-142013	EFXE-142013ST	5,2	10,4	13,1	18,3	20,9	23,5
ST-202010	EFXE-202010ST	5,3	10,7	13,4	18,7	21,4	24,1
ST-202016	EFXE-202016ST	6,9	13,9	17,4	24,3	27,8	31,3
ST-202713	EFXE-202713ST	7,2	14,4	18,0	25,2	28,9	32,5
ST-272713	EFXE-272713ST	8,3	16,7	20,9	29,3	33,5	37,7
ST-203016	EFXE-203016ST	8,5	17,1	21,4	30,0	34,3	38,6
ST-273513	EFXE-273513ST	9,6	19,2	24,1	33,7	38,5	43,3
ST-282816	EFXE-282816ST	9,6	19,3	24,2	33,9	38,7	43,6
ST-204016	EFXE-204016ST	10,1	20,2	25,2	35,4	40,4	45,5
ST-353516	EFXE-353516ST	12,2	24,4	30,5	42,7	48,8	54,9
ST-282827	EFXE-282827ST	13,1	26,2	32,8	45,9	52,5	59,0
ST-355016	EFXE-355016ST	14,8	29,7	37,1	52,0	59,4	66,8
ST-383816	EFXE-383816ST	13,3	26,6	33,2	46,5	53,2	59,8
ST-384516	EFXE-384516ST	14,5	29,1	36,4	51,0	58,3	65,6
ST-385716	EFXE-385716ST	16,7	33,4	41,8	58,5	66,8	75,2
ST-505016	EFXE-505016ST	17,9	35,8	44,8	62,7	71,7	80,7
ST-383827	EFXE-383827ST	17,5	35,1	43,9	61,4	70,2	79,0
ST-575716	EFXE-575716ST	20,7	41,5	51,9	72,7	83,1	93,5
ST-577620	EFXE-577620ST	26,9	53,9	67,4	94,4	107,9	121,3
ST-575730	EFXE-575730ST	27,9	55,8	69,7	97,7	111,6	125,6
ST-769520	EFXE-769520ST	36,1	72,2	90,2	126,3	144,4	162,4
ST-1258040	EFXE-1258040ST	36,1	72,2	90,2	126,3	144,4	162,4

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Enclosure types (Stainless steel)		Maximum power dissipation (W) – Tamb. up to **95**°C	
		INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
ST-101210	EFXE-101210ST	1,3	2,7
ST-151510	EFXE-151510ST	2,0	4,0
ST-142013	EFXE-142013ST	2,6	5,2
ST-202010	EFXE-202010ST	2,6	5,3
ST-202016	EFXE-202016ST	3,4	6,9
ST-202713	EFXE-202713ST	3,6	7,2
ST-272713	EFXE-272713ST	4,1	8,3
ST-203016	EFXE-203016ST	4,2	8,5
ST-273513	EFXE-273513ST	4,8	9,6
ST-282816	EFXE-282816ST	4,8	9,6
ST-204016	EFXE-204016ST	5,0	10,1
ST-353516	EFXE-353516ST	6,1	12,2
ST-282827	EFXE-282827ST	6,5	13,1
ST-355016	EFXE-355016ST	7,4	14,8
ST-383816	EFXE-383816ST	6,6	13,3
ST-384516	EFXE-384516ST	7,2	14,5
ST-385716	EFXE-385716ST	8,3	16,7
ST-505016	EFXE-505016ST	8,9	17,9
ST-383827	EFXE-383827ST	8,7	17,5
ST-575716	EFXE-575716ST	10,3	20,7
ST-577620	EFXE-577620ST	13,4	26,9
ST-575730	EFXE-575730ST	13,9	27,9
ST-769520	EFXE-769520ST	18,0	36,1
ST-1258040	EFXE-1258040ST	18,0	36,1

Maximum Power Dissipation calculation

The values specified in the tables as per clause 2.1.1 may be modified within the maximum admitted Tamb and maximum admitted internal temperature as follows.

$$Pdiss\ (W) = \frac{Tmax - Tamb}{Rth}$$

$Rth = A \times (\text{enclosure surface in } mm^2 \text{ except enclosure bottom})^B$

Legend:
Rth – Thermal resistance [K/W].
Tmax – Maximum allowed temperature inside enclosure.
Tamb – Ambient temperature of enclosure
A and B - coefficients determined for each series o enclosure. Exact values are given in manufacturer's documentation.

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[16] Confidential Report No. FIDI 21 CR 075

[16.1] Routine testing

Junction boxes, local control stations and local control panels fitted with wiring, shall be subject to a routine dielectric strength test according to the clause 7.1 of IEC 60079-7.

[17] Specific Conditions of Use

- Enclosures marked with warning label: "WARNING – POTENTIAL ELECTROSTATIC CHARGING HAZARD – SEE INSTRUCTIONS" must be cleaned only by damp cloth or antistatic products.
- Apparatus equipped with drain / venting valve Technor Italsmea model ECR3:
  - the valve cannot be open when an explosive dust atmosphere is present.
  - The valve can be open when an explosive gas atmosphere is present: when open, the equipment reaches the protection degree IP44.
  - When the valve is left in open position, it should be protected from light exposure.
- On the intrinsic safety terminals, the user must only connect devices with compatible intrinsic safety parameters according to EN 60079-14.

[18] Essential Health and Safety Requirements

Covered by the conformity with harmonized standards listed under item 9.

[19] Drawings and Documents

Title:	Drawing No.:	Rev. level:	Date:
Technical note	TN2111	0	17.11.2021
Instruction for use	TN2111 Annex A	0	08.11.2021
Apparatus list	TN2111 Annex B	0	17.11.2021
Drawings:			
Cable entries, plug, adaptors coupling systems	AC2111, sheet 1	0	10.11.2021
Example of operator arrangements for AQ-AR-EFE	AC2111, sheet 2	0	10.11.2021
Example of operator arrangements for SB-ST-EFEXE	AC2111, sheet 3	0	10.11.2021
Example terminals and earth bus bar	AC2111, sheet 4	0	10.11.2021
Drain / breath device type ECR3	AC2111, sheet 5	0	10.11.2021
Marking label SB..., ST..., AQ..., AR...	AC2111, sheet 6	0	10.11.2021
Marking label SB..., ST..., AQ..., AR...	AC2111, sheet 7	0	10.11.2021

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[1] **SUPPLEMENTARY EU – TYPE EXAMINATION CERTIFICATE**

[2] Equipment or Protective Systems Intended for use in Potentially Explosive Atmospheres Directive 2014/34/EU.

[3] Supplementary EU-Type Examination Certificate Number: **FIDI 21 ATEX 0090X/1**

[4] Product: **Junction boxes, local control stations and local control panels**

Type: **AQ-***P / AQ-***AL / AR-***P / AR-***AL**
AQ-*P-HT / AQ-***AL-HT / AR-***P-HT / AR-***AL-HT**
SB-* / ST-***
EFE-* / EFXE-*** AL/ EFXE-***SB / EFXE-***ST**
EFE-*-HT / EFXE-***AL-HT**

[5] Manufacturer: **Technor Italsmea S.p.A.**

[6] Address: **Via Italia 33, 20060 Gessate (MI), Italy**

[7] This supplementary certificate extends EU – Type Examination Certificate to apply to product designed and constructed in accordance with the specification set out in the Schedule of the said certificate but having any variations specified in the Schedule to this certificate and the documents therein referred to.

[8] FIDITAS Ltd., Notified Body number 2829 in accordance with Article 17 of Directive 2014/34/EU of the European Parliament and of the Council, dated 26 February 2014, certifies that this product has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of products intended for use in potentially explosive atmospheres given in Annex II of the Directive.

[9] The examination and test results are recorded in confidential Report No: **FIDI 23 CR 019**

[10] The marking of the product shall include the following:

II 1 G	**Ex ia IIC/IIB T6...T4 Ga**(2) or
II 2(1) G or **II 2(2) G**	**Ex db eb ia/ib mb [**(3)**] IIC/IIB T6...T4 Gb**(1) or
II 2 G	**Ex eb IIC/IIB T6...T4 Gb**(1) or
II 2 D	**Ex tb IIIC T85°C...T135°C Db**

(1) Others type of protection additional to 'eb' depending to the components actually mounted.

(2) In case of enclosures containing 'eb' terminals and/or 'ia Ga' already certified components (with compatible marking) only.

(3) Associated equipment protection depending on the components actually mounted (see lists): e.g. [ia/ib/ia Ga/ia IIIC Da] and/or [ia IIIC Da] or [ia/ib/ia Ga/ia IIIC Da] and/or [ia/ib/ia Ga] [ia IIIC Da]

FIDITAS Ltd.
Certification department
Approved:

Marino Kelava, M.E.Eng.

Our ref.: 23.CRT.071

Date: 19.04.2023

Fiditas d.o.o. ZAGREB

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[11] **SCHEDULE**

[12] **SUPPLEMENTARY EU - TYPE EXAMINATION CERTIFICATE No.: FIDI 21 ATEX 0090X /1**

[13] Description of the variation to the Product

New Ex products added:

- Surge voltage protection unit type: PLUGTRAB PT2 or PT4 – PHOENIX CONTACT; II 1G> Ex ia IIC T4...T6 Ga; KEMA 00 ATEX 1099X;
- SITRANS TH230/420, type: 7NG0317, 0310; 0410 TR320/TR420 7NG0327; 7NG0320; TYPE 7NG0420; Siemens AG; II 1G Ex ia IIC T6...T4 Ga; II 2(1)G Ex ib [ia Ga] IIC T6...T4 Gb; DEKRA 17 ATEX 0116X
- Enhanced Model 644 Temperature Transmitter, ROSEMOUNT INCORPORATED, II 1G Ex ia IIC T6...T4 Ga; DEKRA 21ATEX0003X,
- Temperature Transmitter type: 5434D; 5431D; 6431D; 5435D; 5437D; 5437D; 5437B; 6437D, II 1G Ex ia IIC T6...T4 Ga; II 2(1)G Ex ib [ia Ga] IIC T6...T4 Gb; DEKRA 16 ATEX 0047X,
- Controls Units and / or Junction Boxes Type: GUB..., TECHNOR ITALSMEA; II 2G Ex db (*) IIC T(*) Gb; INERIS 22 ATEX 0008X
- Cable Transit Device type: CF 8 Ex, CF 32 Ex, CF 16 Ex, C RS T...Ex, RS..B Ex, SF...Ex, SFX...B Ex, B...B Ex, R...B Ex and RO...B; ROXTEC INTERNATIONAL AB, II 2G Ex e IIC Gb, II 2D Ex tb IIC Db; NEMKO 12 ATEX 1278X
- Cable Transit Device type: HD 16 Ex, HD 24 Ex, HD 32 Ex and HDLC Ex, ROXTEC INTERNATIONAL AB, II 2G Ex eb IIC Gb, II 2D Ex tb IIIC Db, PRESAFE 15 ATEX 6419X
- Control stations and junction boxes type: CP..., TECHNOR ITALSMEA, II 2G Ex db IIC T6 or T5 or T4 Gb or II 2(1)G Ex db [ia Ga] IIC T6 Gb(***) or II 2(2)G Ex db [ib] IIC T6 Gb (***); INERIS 03 ATEX 0009X
- Industrial plug and socket type: DXN1, MARECHAL ELECTRIC, II 2G Ex db eb IIC T5 or T6; II 2D Ex tb IIIC T90°C/T70°C; LCIE 99 ATEX6027X
- Industrial plug and socket type: DXN3, MARECHAL ELECTRIC; II 2G Ex db eb IIC T5 or T6; II 2D Ex tb IIIC T90°C/T70°C; LCIE 05 ATEX 6149X
- Industrial plug and socket type: DXN6, MARECHAL ELECTRIC, II 2G Ex db eb IIC T5 or T6; II 2D Ex tb IIIC T90°C/T70°C; LCIE 05 ATEX 6150X
- Industrial plug and socket type: PXN12C, MARECHAL ELECTRIC, II 2G Ex eb IIC T*; II 2G Ex ia or ib IIC T*; II 2D Ex tb IIIC T* Db; LCIE 07 ATEX 6070X
- Industrial plug and socket type: DXN25C, MARECHAL ELECTRIC; II 2G Ex eb IIC T*; II 2G Ex ia or ib IIC T6; II2D Ex tb IIIC T*; LCIE 09ATEX3050X
- Industrial plug and socket type: DXN37C, MARECHAL ELECTRIC; II 2G Ex eb IIC T*; II 2G Ex ia or ib IIC T6; II2D Ex tb IIIC T*; LCIE 07ATEX6071X
- Industrial plug and socket type: SPeX, MARECHAL ELECTRIC, II 2G Ex eb IIC T*; II2D Ex tb IIIC T* Db; LCIE 07ATEX6073X
- Industrial plug and socket type: DXA1, MARECHAL ELECTRIC, II 2G Ex db eb IIC T* Gb; II 2D Ex tb IIC T*°C Db; LCIE 15ATEX 3033X
- Industrial plug and socket type: PNCX, MARECHAL ELECTRIC, II 2G Ex IIC T6 Gb; II 2D Ex tb IIIC T72°C Db; LCIE 16ATEX3001X
- Terminal type: WDU 240, WEIDMULLER, II 2G Ex eb IIC Gb; KEMA 01 ATEX 2186U.

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[14] Confidential Report No. FIDI 23 CR 019

[14.1] Routine testing

No change to specified in the initial certificate.

[15] Specific Conditions of Use

Addditional to those specified the initial certificate:

- Manufacturer must obey relevant specific condition of use of Ex equipment and/or schedule of limitation of Ex components installed in/on the product and forward to the end user if relevant for the installation and use.

[16] Essential Health and Safety Requirements

Compliance with the Essential Health and Safety Requirements is not affected by this variation.

[17] Drawings and Documents

Title:	Drawing No.:	Rev. level:	Date:
Technical note	TN2111	1	20.01.2023
Instruction for use	TN2111 Annex A	1	20.01.2023
Apparatus list	TN2111 Annex B	1	20.01.2023

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CROSSWIND

ROSETTI MARINO

Project CROSSWIND

STATUS INDEX DETAIL

Filtered on subsystem: 83-40 & process: MC & discipline : Y

ATEX	83-40 Normal Lighting Upper Deck						
ITEM		TASK					
Code	Description	Location	Code	Form	Progress	Date	Certificate
EJB-200N1-02-L1-01	Normal Lighting Upper Deck - Circuit No. 1	ONSHORE	C10001281	CJX01	100	2025-01-23	RFC 1
EJB-200N1-02-L1-02	JB - NORMAL LIGHTING	ONSHORE	C10001652	CJX01	100	2025-01-27	RFC 1
EJB-200N1-02-L1-03	JB - NORMAL LIGHTING	ONSHORE	C10001653	CJX01	100	2025-01-18	RFC 1
EJB-200N1-02-L1-05	JB - NORMAL LIGHTING	ONSHORE	C10001626	CJX01	100	2025-01-18	RFC 1
EJB-200N1-02-L1-06	JB - NORMAL LIGHTING	ONSHORE	C10001627	CJX01	100	2025-01-18	RFC 1
EJB-200N1-02-L1-07	JB - NORMAL LIGHTING	ONSHORE	C10001628	CJX01	100	2025-01-18	RFC 1
EJB-200N1-02-L1-08	JB - NORMAL LIGHTING	ONSHORE	C10001629	CJX01	100	2025-01-17	RFC 1
EJB-200N1-02-L1-09	JB - NORMAL LIGHTING	ONSHORE	C10001632	CJX01	100	2025-01-18	RFC 1
EJB-200N1-02-L1-11	JB - NORMAL LIGHTING	ONSHORE	C10001631	CJX01	100	2024-12-31	RFC 1
EJB-200N1-02-L1-12	JB - NORMAL LIGHTING	ONSHORE	C10001633	CJX01	100	2025-01-02	RFC 1
EJB-200N1-02-L1-13	JB - NORMAL LIGHTING	ONSHORE	C10001634	CJX01	100	2025-01-18	RFC 1
EJB-200N1-02-L1-15	JB - NORMAL LIGHTING	ONSHORE	C10001257	CJX01	100	2025-01-22	RFC 1
EJB-200N1-02-L1-16	JB - NORMAL LIGHTING	ONSHORE	C10001258	CJX01	100	2025-01-18	RFC 1
EJB-200N1-02-L1-17	JB - NORMAL LIGHTING	ONSHORE	C10001635	CJX01	100	2025-01-07	RFC 1
EJB-200N1-02-L1-18	JB - NORMAL LIGHTING	ONSHORE	C10001636	CJX01	100	2025-01-07	RFC 1
EJB-200N1-02-L1-19	JB - NORMAL LIGHTING	ONSHORE	C10001637	CJX01	100	2025-01-09	RFC 1
ELF-200N1-02-L1-01	NORMAL LIGHT	ONSHORE	C10001337	CJX01	100	2025-01-14	RFC 1
ELF-200N1-02-L1-04	NORMAL LIGHT	ONSHORE	C10001357	CJX01	100	2025-01-14	RFC 1
ELF-200N1-02-L1-05	NORMAL LIGHT	ONSHORE	C10001665	CJX01	100	2025-01-14	RFC 1
ELF-200N1-02-L1-06	NORMAL LIGHT	ONSHORE	C10001664	CJX01	100	2025-01-16	RFC 1
ELF-200N1-02-L1-07	NORMAL LIGHT	ONSHORE	C10001663	CJX01	100	2025-01-15	RFC 1
ELF-200N1-02-L1-08	NORMAL LIGHT	ONSHORE	C10001662	CJX01	100	2025-01-16	RFC 1
ELF-200N1-02-L1-09	NORMAL LIGHT	ONSHORE	C10001661	CJX01	100	2025-01-22	RFC 1
ELF-200N1-02-L1-10	NORMAL LIGHT	ONSHORE	C10001660	CJX01	100	2025-01-15	RFC 1
ELF-200N1-02-L1-11	NORMAL LIGHT	ONSHORE	C10001666	CJX01	100	2025-01-13	RFC 1
ELF-200N1-02-L1-12	NORMAL LIGHT	ONSHORE	C10001667	CJX01	100	2025-01-16	RFC 1
ELF-200N1-02-L1-13	NORMAL LIGHT	ONSHORE	C10001668	CJX01	100	2025-01-13	RFC 1
ELF-200N1-02-L1-17	NORMAL LIGHT	ONSHORE	C10001672	CJX01	100	2024-12-14	RFC 1
ELF-200N1-02-L1-18	NORMAL LIGHT	ONSHORE	C10001673	CJX01	100	2024-12-14	RFC 1

CROSSWIND

ROSETTI MARINO

Project CROSSWIND

STATUS INDEX DETAIL

Filtered on subsystem: 83-40 & process: MC & discipline : Y

ATEX	83-40 Normal Lighting Upper Deck						
ITEM		TASK					
Code	Description	Location	Code	Form	Progress	Date	Certificate
ELF-200N1-02-L1-19	NORMAL LIGHT	ONSHORE	C10001674	CJX01	100	2024-12-14	RFC 1
ELF-200N1-02-L1-23	EMERGENCY LIGHT	ONSHORE	C10001697	CJX01	100	2024-12-12	RFC 1
ELF-200N1-02-L1-24	NORMAL LIGHT	ONSHORE	C10001675	CJX01	100	2024-12-14	RFC 1
ELF-200N1-02-L1-25	NORMAL LIGHT	ONSHORE	C10001676	CJX01	100	2024-12-14	RFC 1

ITEM	Tag	EJB-200N1-02-L1-15	: JB - NORMAL LIGHTING	Dwg	123A90-DDL-EL-DL-20118
	S/Sys	83-40	: Normal Lighting Upper Deck	Module	UD
TASK	code	C10001257	Location: Onshore Activities	User	Rosetti Marino Quality Control
FORM	Process	MC	Activity: CCK / Discipline: ATEX / Form: CJX01		Hazardous Area Equipment Detailed Inspection

Schedule Ref. #				**Area Code**					
Area Class Drawing	123A90-DDL-SAF-DL-30022			**Serial No.**		24P00297990027			
Manufacturer	TECHNOR ITALSMEA			**Model**		AQ-252612P			
Cert No.	FIDI 21 ATEX 0090X-FIDI 21.0015X			**Equipment Ambient Temp.**		-20 to +40 °C			
Area Classification	HAZARDOUS	**Zone**	2	**Gas group**	II C	**Temp class**	T1		
Equipment Protection Type	Ex eb	**EPL**	Gb	**Gas group**	II C	**Temp class**	T6	**IP Rating**	IP66

Detailed Note:

1) Inspection shall only be performed by competent personnel

2) All fields are to be completed. Any non-applicable field shall state “NA”. Comments are required for ‘Failure’ column ONLY.

3) An Inspection Sheet should be completed for EACH individual item of Equipment.

	General Equipment	Detailed	OK/NA/PL	Comments
1	Equipment is appropriate to the EPL / Zone requirements of the area	x	OK	
2	Equipment group is correct	x	OK	
3	Equipment temperature class is correct	x	OK	
4	Degree of IP protection of equipment is appropriate for the level of protection	x	OK	
5	Equipment circuit identification is correct	x	OK	
6	Equipment circuit identification is available	x	OK	
7	Enclosure glass parts and glass-to-metal sealing gaskets and / or compounds are satisfactory	x	NA	
8	There is no damage or unauthorized modifications	x	OK	
9	There is no evidence of unauthorized modifications	x	OK	
10	Bolts, cable entry devices (direct and indirect) & blanking elements are of the correct type, are complete & tight		NA	
	Physical check	x	OK	
11	Threaded covers on enclosures are of the correct type, are tight and secured		NA	
	Physical check	x	NA	
12	Joint surfaces are clean and undamaged and gaskets, if any, are satisfactory and positioned correctly	x	OK	
13	Condition of enclosure gaskets is satisfactory	x	OK	
14	There is no evidence or ingress of water or dust in the enclosure in accordance with the IP rating	x	OK	
15	Electrical connections are tight	x	OK	
16	Bridging links do not reduce creepage / clearance and are allowed	x	NA	
17	Unused terminals are tightened	x	OK	
18	Encapsulated components are undamaged	x	NA	
19	Flameproof components are undamaged	x	NA	
20	Fluorescent lamps are not indicating EOL effects (only for Ex “e” – Ex “n” – Ex “t”)	x	NA	
21	HID lamps are not indicating EOL effects	x	NA	
22	Lamp type, rating, pin configuration and position are correct	x	NA	
23	Breathing and drainage devices are satisfactory	x	OK	
24	Type of cable is appropriate	x	OK	
25	There is no obvious damage to the cables	x	OK	
26	Cable glands are the correct type and installed correctly	x	OK	
27	Sealing of trunking, ducts, pipes and or conduits is satisfactory	x	NA	
28	Stopping boxes and cable boxes are corrected filled	x	OK	

ITEM	Tag	EJB-200N1-02-L1-15	: JB - NORMAL LIGHTING			Dwg	123A90-DDL-EL-DL-20118
	S/Sys	83-40	: Normal Lighting Upper Deck			Module	UD
TASK	code	C10001257		Location	Onshore Activities	User	Rosetti Marino Quality Control
FORM	Process	MC	Activity CCK	Discipline	ATEX	Form	CJX01 Hazardous Area Equipment Detailed Inspection

29	Integrity of conduit system and interface with mixed system maintained	x	NA	
30	Earthing connections, including any supplementary earthing bonding connections are satisfactory (for example connections are tight and conductors are of sufficient cross-section		OK	
	Physical check	x	OK	
31	Automated electric protective devices operate within permitted limits	x	NA	
32	Special conditions (if applicable) have been complied with.	x	NA	
33	All cable cores are uniquely labeled	x	OK	See PL
34	Cable cores not in use are correctly terminated	x	NA	
35	Equipment is adequately protected against corrosion, weather, vibration and other adverse factors	x	OK	
36	No undue accumulation of dust and dirt	x	OK	
37	All equipment housings are clean and dry	x	OK	
38	All moving parts are free and have no mechanical damage	x	NA	
	Applicable for Installation of Heating Systems			
39	Temperature sensors function according to manufacturer's documents (only applicable for Ex-d e Ex-e)	x	NA	
40	Safety cut off devices function according to manufacturer's documents (only applicable for Ex-d e Ex-e)	x	NA	
41	The setting of the safety cut off is sealed (only applicable for Ex-d e Ex-e)	x	NA	
42	Reset of a heating system safety cut off possible with tool only(only applicable for Ex-d e Ex-e)	x	NA	
43	Auto-reset is not possible (only applicable for Ex-d e Ex-e)	x	NA	
44	Reset of a safety cut off under fault conditions is prevented (only applicable for Ex-d e Ex-e)	x	NA	
45	Safety cut off independent from control system (only applicable for Ex-d e Ex-e)	x	NA	
46	Level switch is installed and correctly set, if required (only applicable for Ex-d e Ex-e)	x	NA	
47	Flow switch is installed and correctly set, if required (only applicable for Ex-d e Ex-e)	x	NA	
	Extra Ex d checks			
48	Obstructions adjacent to flame proof flanged joints are in accordance with IEC 60079-14	x	NA	
49	Ex d conduits seals are fitted to all conduits and satisfactorily sealed	x	NA	
50	Cable glands are of the correct type and installed correctly	x	NA	
51	Adaptors, reducers, stop ends, etc. are all certified Ex d	x	NA	
52	Flame path are clean and undamaged	x	NA	
53	Flange gap dimensions are within tolerances	x	NA	
54	Motor fans have sufficient clearance to the enclosure and/or covers, cooling systems are undamaged, motor foundations have no indentations or cracks	x	NA	
55	The ventilation airflow is not impeded	x	NA	
56	Insulation resistance (IR) of the motor windings is satisfactory	x	NA	
57	Fault loop impedance (TN systems) or earthing resistance (IT systems) is satisfactory	x	NA	
58	Variable voltage/frequency installation complies with documentation	x	NA	
	Extra Ex e checks			
59	All Equipment is Ex e certified (including components within enclosure)	x	OK	
60	Power conductors are not bunched together causing possible hot spots	x	OK	
61	Motor fans have sufficient clearance to the enclosure and/or covers, cooling systems are undamaged, motor foundations have no indentations or cracks	x	NA	
62	Insulation resistance (IR) of the motor windings is satisfactory	x	NA	
63	Fault loop impedance (TN systems) or earthing resistance (IT systems) is satisfactory	x	NA	
64	The ventilation airflow is not impeded	x	NA	
65	Motor protection devices operate within the permitted tE or tA time limits.	x	NA	
66	Variable voltage/frequency installation complies with documentation	x	NA	

ROSETTI MARINO PROVERLIS CROSSWIND

ITEM	Tag	EJB-200N1-02-L1-15	: JB - NORMAL LIGHTING			Dwg	123A90-DDL-EL-DL-20118
	S/Sys	83-40	: Normal Lighting Upper Deck			Module	UD
TASK	code	C10001257		Location	Onshore Activities	User	Rosetti Marino Quality Control
FORM	Process	MC	Activity CCK	Discipline	ATEX	Form	CJX01
							Hazardous Area Equipment Detailed Inspection

Extra Ex n (nR, nL) checks				
67	All Terminals are Ex n certified (if required on certificate)	x	NA	
68	Hermetically sealed and enclosed break devices are undamaged	x	NA	
69	Restricted breathing properties satisfactory (conduct vacuum test)	x	NA	
70	Test port, if fitted, is functional (type “nR” only)	x	NA	
71	Breathing operation is satisfactory (type “nR” only)	x	NA	
72	Motor fans have sufficient clearance to the enclosure and/or covers, cooling systems are	x	NA	
73	The ventilation airflow is not impeded	x	NA	
74	Insulation resistance (IR) of the motor windings is satisfactory	x	NA	
75	Motor protection devices operate within the permitted tE or tA time limits.	x	NA	
76	Variable voltage/frequency installation complies with documentation	x	NA	
Extra Ex p checks				
77	Pressurization gas is correct type	x	NA	
78	Actual pressure is within maximum and minimum settings for equipment	x	NA	
79	Timers set as per certification documentation	x	NA	
80	Alarms and trip functions operate correctly as per certification documentation	x	NA	
81	Fault loop impedance (TN systems) or earthing resistance (IT systems) is satisfactory	x	NA	
82	Automatic electrical protective devices operate within permitted limits	x	NA	
83	Automatic electrical protective devices are set correctly	x	NA	
84	Protective gas inlet temperature is below maximum specified	x	NA	
85	Ducts, pipes and enclosures are in good condition	x	NA	
86	Protective gas is substantially free from contaminants	x	NA	
87	Protective gas pressure and/or flow is adequate	x	NA	
88	Pressure and/or flow indicators, alarms and interlocks function correctly	x	NA	
89	Conditions of spark and particle barriers of ducts for exhausting the gas in hazardous area are satisfactory	x	NA	
90	Specific conditions of use (if applicable) are complied with		NA	
Extra Ex i (Intrinsically Safe – IS) checks				
91	Equipment has adequate circuit identification for ‘IS’ Installation	x	NA	
92	Cables are installed in accordance with the documentation	x	NA	
93	Segregation is maintained between IS and non-IS Circuits	x	NA	
94	Cable screens are isolated at one end (field side)	x	NA	
95	Cable screens are earthed in accordance with the documentation	x	NA	
96	Safety barrier units, relays and other energy limiting devices are of the approved type, installed in	x	NA	
97	Equipment installed is the one specified in the documentation	x	NA	
98	Ambient temperature range of the apparatus is correct for the installation	x	NA	
99	Service temperature range of the apparatus is correct for the installation	x	NA	
100	Installation is clearly labelled	x	NA	
101	Printed circuit boards are clean and undamaged	x	NA	
102	The maximum voltage Um of the associated apparatus is not exceeded	x	NA	
103	Point-to-point connections are all correct	x	NA	
104	Earth continuity is satisfactory (e.g. connections are tight, conductors are of sufficient cross-section)	x	NA	
105	Earth connections maintain the integrity of the type of protection	x	NA	
106	Intrinsically safe circuit earthing is satisfactory	x	NA	
107	Insulation resistance is satisfactory	x	NA	
108	Short-circuit protection of the power supply is in accordance with the documentation	x	NA	

	BARRIER:	**Manufacturer:**	NA	**Model:**	NA		
		Authority:	NA	**Cert No:**	NA	**Type:**	NA

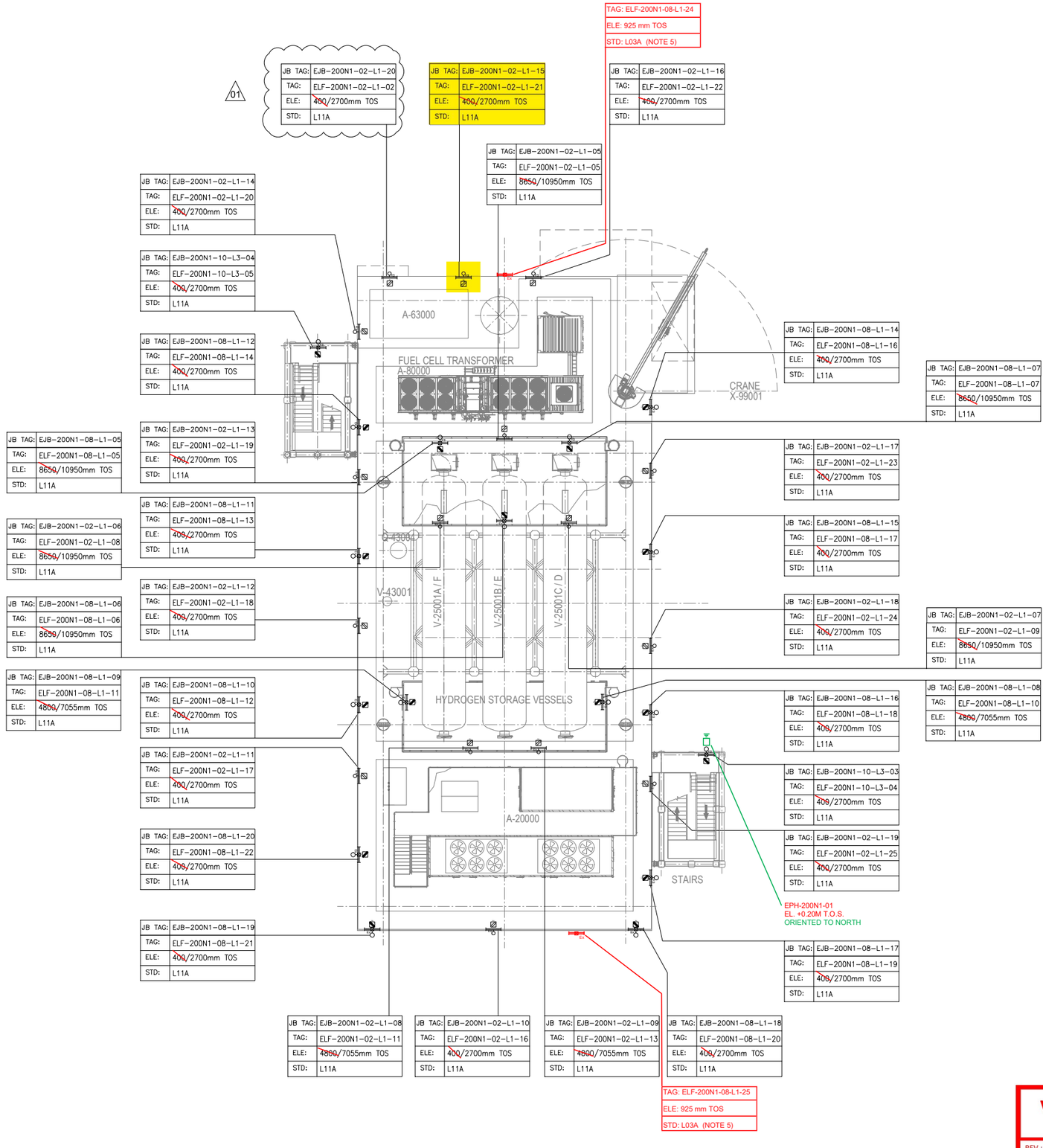
Remarks: Initial inspection should be detailed and carried out before equipment is brought into service as per IEC 60079-17

Please mark only one box as appropriate	
●	**Passed - Complete**
	Failed

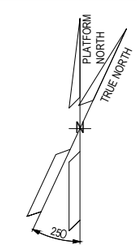
Page 3/3	Performed by	☐ WITNESS ☐ REVIEW	☐ WITNESS ☐ REVIEW
Company	ICS IMPIANTI	RM(ROSETTI MARINO)	
Name	Francesco Zucca	Andrea Andreani	
Date	2024-12-28	2025-01-22	
Signature	PROVERLIS Digitaly signed by Francesco Zucca 2024-12-28T07:31:43.525Z	PROVERLIS Digitaly signed by Andrea Andreani 2025-01-22T17:31:07.146Z	

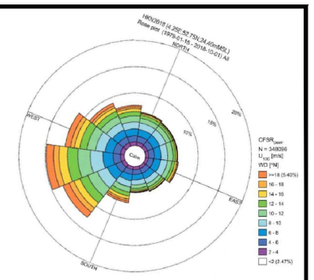
DRAWING NO. 123A90-DDL-EL-DL-20118

REV. 01



PLAN ON UPPER DECK
EL+30.310 T.O.S.





NOTES

1. ALL DIMENSIONS AND ELEVATIONS ARE GIVEN IN mm UNLESS OTHERWISE NOTED.
2. ELEVATIONS REFER TO T.O.S.
3. ELEVATION OF THE LAMPS ARE REFFERED TO THE BOTTOM OF THE LAMP.
4. FOR THE ELEVATION OF JB, REFER TO THE TYPICAL INSTALLATION.
5. FOR ELF-200N1-08-L1-24 AND ELF-200N1-08-L1-25 CONSTRUCTION DETAILS REFER TO DOC. 123A90-DDL-ST-DD-90076

LEGEND

- EMERGENCY LIGHTING JB
- 60W LED EMERGENCY LUMINARIES
- 60W LED EMERGENCY LUMINARIES FIXTURE POLE MOUNTED
- NORMAL LIGHTING JB
- 45W LED NORMAL LUMINARIES
- 45W LED NORMAL LUMINARIES FIXTURE POLE MOUNTED
- WELDING SOCKET WITH INTEGRATED JB
- SMALL POWER SOCKET WITH INTEGRATED JB
- TWILIGHT RELAY SENSOR

JB TAG:	JB-TAG
TAG:	TAG
ELE:	ELEVATION
STD:	STANDARD

REFERENCE DOCUMENTS

123A90-DDL-PP-DL-70070	PLOT PLAN - LOWER & UPPER DECK
123A90-DDL-EL-DL-20100	ELECTRICAL EQUIPMENT LAYOUT - TOP DECK
123A90-DDL-EL-DD-20091	ELECTRICAL TYPICAL INSTALLATION DETAILS - LIGHTING SYSTEM
123A90-DDL-EL-DD-20092	ELECTRICAL TYPICAL INSTALLATION DETAILS - POWER SYSTEM & CABLE INSTALLATION
123A90-DDL-EL-RE-20153	LIGHTING CALCULATION STUDY REPORT
123A90-DDL-ST-DD-90076	IDENTIFICATION PANELS ASSEMBLY AND DETAILS

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	02/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	28/05/24	ASR	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND

ROSETTI MARINO

VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DL-20118**

REV.:	DATE:	SIGNATURE:
1_G	09/01/25	V.Ramponi

ROSETTI MARINO SpA

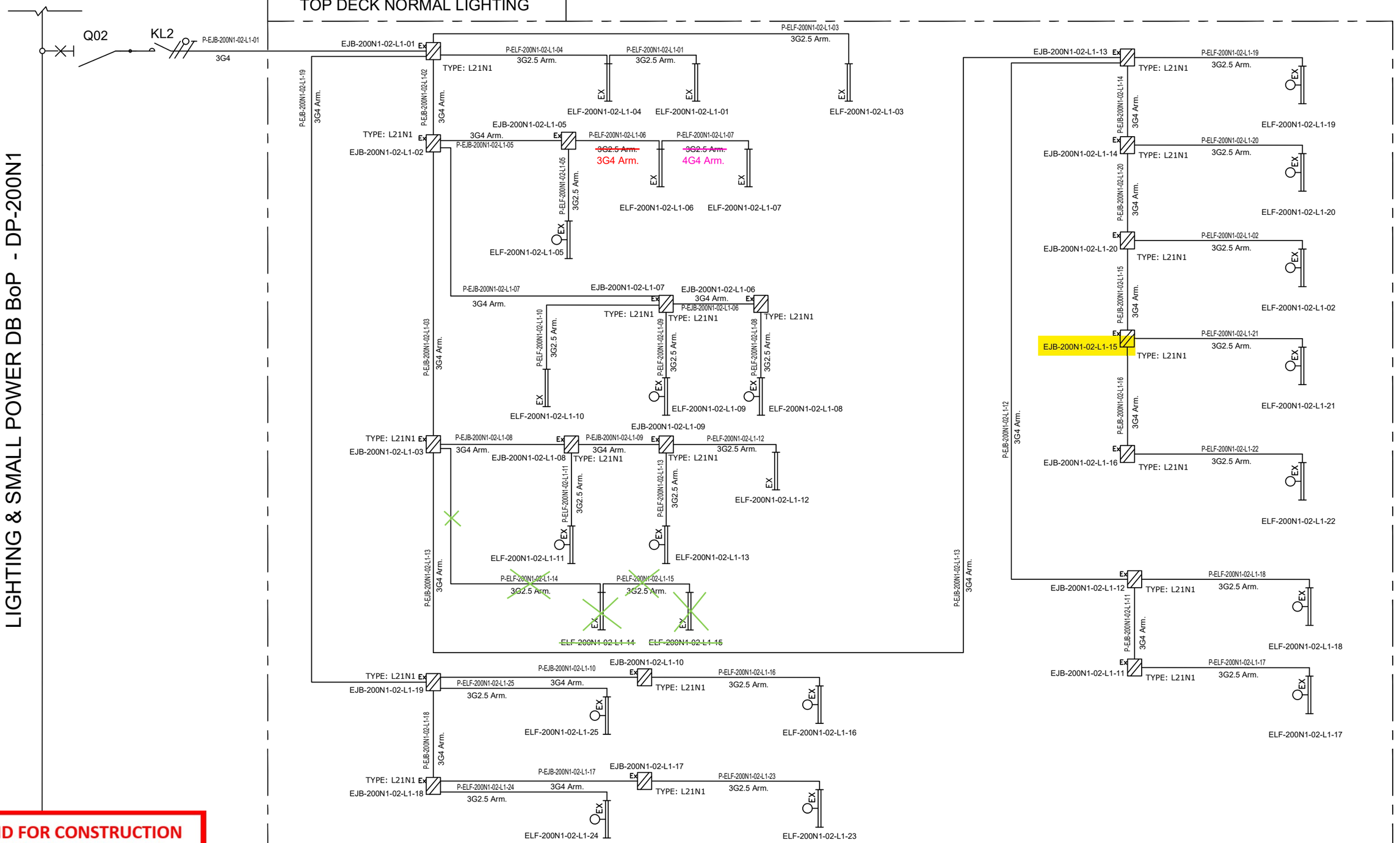
TITLE : BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET LAYOUT – TOP DECK

CONTRACT NO./TITLE CW-1-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK			SCALE 1:150
DRAWN ASR	CHECKED FMA/AMA	APPROVED FPA/DLO	DATE 01/08/24
A1	DRAWING NO. 123A90-DDL-EL-DL-20118	SHEET 1of2	REV. 01

File Name : 123A90-DDL-EL-DL-20118

LIGHTING & SMALL POWER DB BoP - DP-200N1

TOP DECK NORMAL LIGHTING



VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DG-20125**

REV.:	DATE:	SIGNATURE:
2_G	16/01/25	G.Randi

ROSETTI MARINO SpA

CROSSWIND

ROSETTI MARINO

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	08/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	01/07/24	ASR	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

TITLE : BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET CIRCUIT DIAGRAM
TOP DECK–NORMAL LIGHTING

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE : NTS

A3

DRAWING NO. 123A90–DDL–EL–DG–20125

SHEET 010

REV. 01

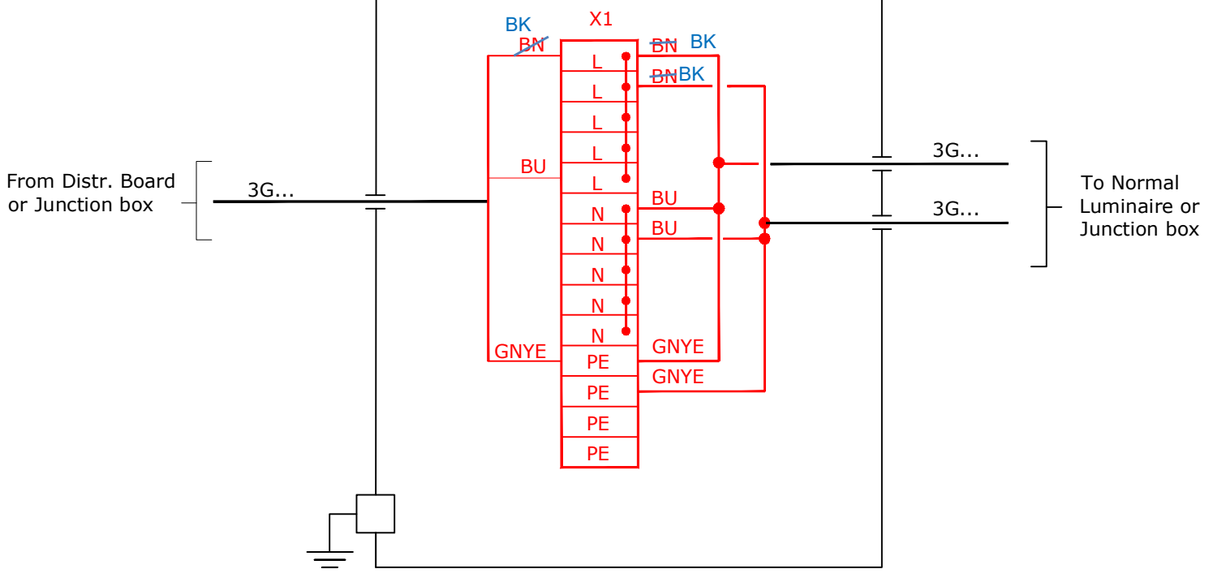
F.to UNI A3: 420mmx297mm

File Name : 123A90–DDL–EL–DG–20125

TYPE : L21N1 & L21N2

ITEM: NORMAL LIGHTING JUNCTION BOX

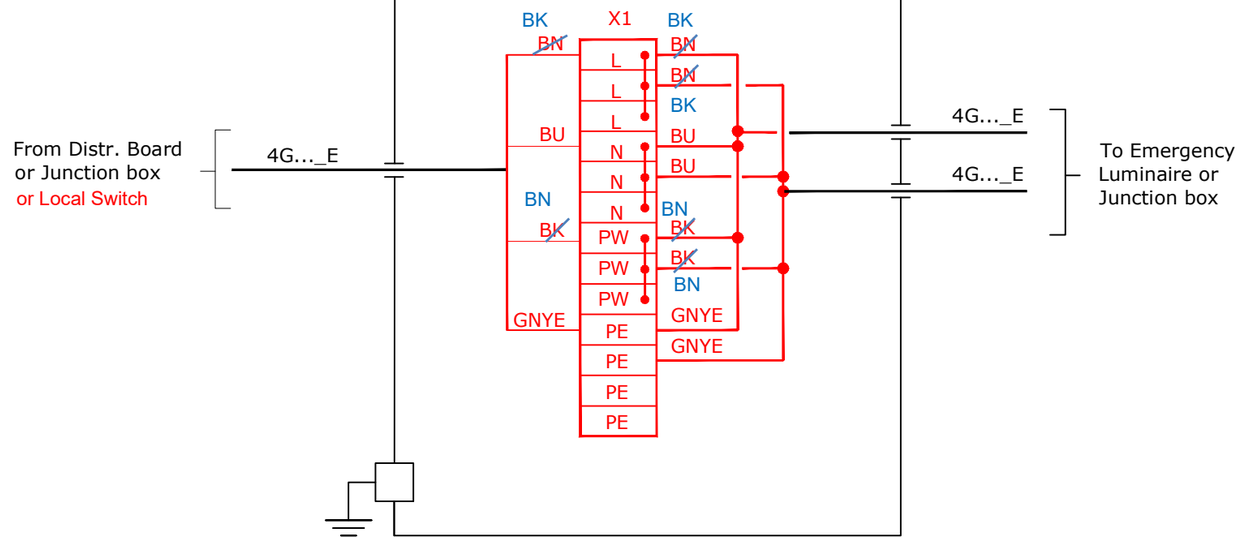
TAG : Typical



TYPE : L21E1 & L21E2

ITEM: EMERGENCY LIGHTING JUNCTION BOX

TAG : Typical



VALID FOR CONSTRUCTION

FDL DWG: **123A90-FDL-EL-DG-20125**

REV.:	DATE:	SIGNATURE:
2_G	16/01/25	G.Randi

ROSETTI MARINO SpA

CROSSWIND

ROSETTI MARINO

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	08/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)

TITLE : BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET CIRCUIT DIAGRAM
TYPICAL JB INTERCONNECTING DIAGRAM

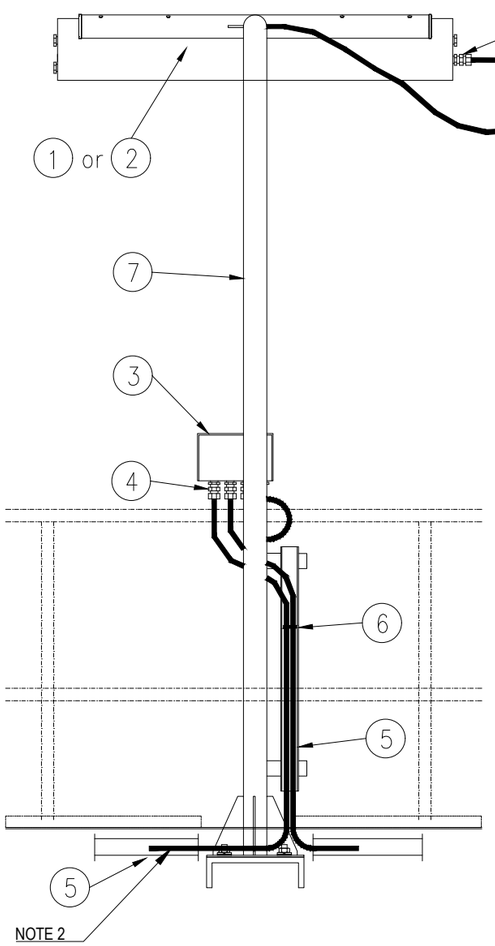
CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK | SCALE : NTS

A3	DRAWING NO.	SHEET	REV.
	123A90-DDL-EL-DG-20125	016	01

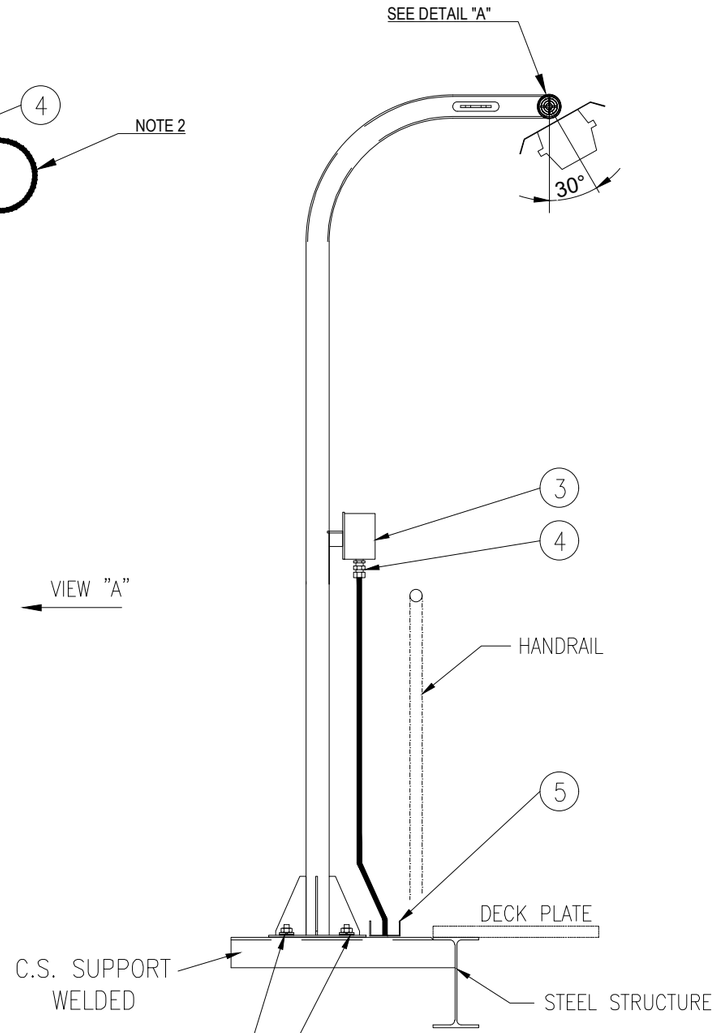
F.to UNI A3: 420mmx297mm

File Name : 123A90-DDL-EL-DG-20125

L11A

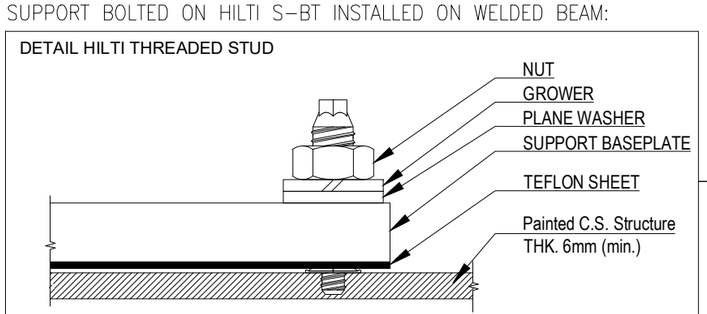


VIEW "A"

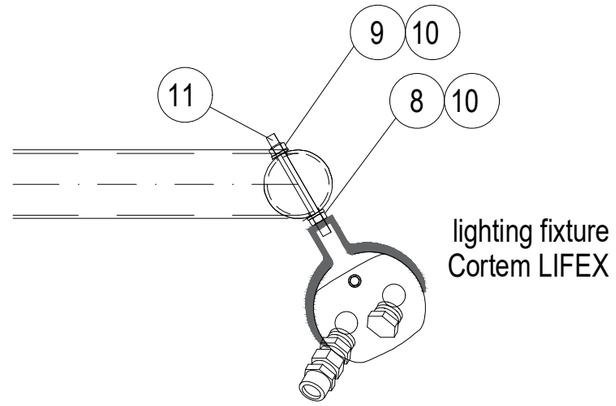


VIEW "A"

SUPPORT BOLTED ON HILTI S-BT INSTALLED ON WELDED BEAM:



POS.	DESCRIPTION	MATERIAL	SIZE	Q.TY	NOTE
1	42W LED LUMINARIES	ALUMINIUM ALLOY		1	
2	45W LED LUMINARIES C/W BATTERY	ALUMINIUM ALLOY		1	
3	JUNCTION BOX (Ex)	GRP		1	NOTE 1
4	CABLE GLAND ~~C/W EARTH TAG,~~ WASHERS, LOCKNUT AND WEATHERPROOF WASHERS	BRASS NICKEL PLATED		AS REQ.	
5	CABLE TRAY	AISI 316L			
6	STAINLESS STEEL NYLON COATED CABLE TIE	SS NYLON COATED			
7	POLE SUPPORT FOR LAMP	AISI 316L	2"		
8	NUT	AISI 316L	M8		
9	SELF.LOCKING NUT	AISI 316L	M8		
10	LARGE PLANE WASHER (24mm DIAM.)	AISI 316L	M8		
11	THREADED ROD M8x100	AISI 316L	M8		



DETAIL "A"

VALID FOR CONSTRUCTION

REV.:	DATE:	SIGNATURE:
2_B	12/12/24	C.Pilato

ROSETTI MARINO SpA

NOTES:

1) FOR LAMPS IN HAZARDOUS AREA, USE ARMOURED CABLE, DOUBLE SEAL CABLE GLAND AND EX JUNCTION BOX.

2) ALWAYS ENSURE CABLE LENGTH IS >3m

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	30/09/24	GRA	AMA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	04/07/24	NLK	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	21/11/23	SPS	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

02

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL TYPICAL INSTALLATION DETAILS-LIGHTING SYSTEM
LIGHTING FIXTURE MOUNTED ON POLE

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE : NTS

A3

DRAWING NO. 123A90-DDL-EL-DD-20091

SHEET 014

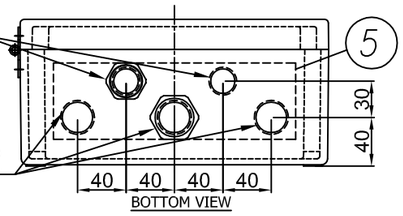
REV. 02

F.to UNI A3: 420mmx297mm

File Name : 123A90-DDL-EL-DD-20091 REV.02.DWG

(10)(4) N°2 PASSING HOLES Ø20.2
C/W N°1 BNK PLUG M20 +
N°1 DUSTPROOF PVC PLUG

(3)(3) N°3 PASSING HOLES Ø25.2
C/W N°1 BNK PLUG M25 +
N°2 DUSTPROOF PVC PLUG



BOTTOM VIEW

(8) I2400722-B015I00029809

TECHNOR ITALSMEA
A COMPANY OF MARECHAL ELECTRIC
Via Italia 33 - 20060 Cassano (MI) ITALY

CE 0080 Ex II 2G II 2D
FIDI 21ATEX 0090X
IECEx FIDI 21.0015X
Year of construction:

MADE IN ITALY

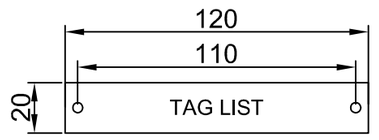
TYPE: AQ-252612P
230VAC 50Hz 20A
Max Dis. P. 6W

Ex eb IIC T6 Gb
Ex tb IIIC T85°C Db
IP66
T.amb. -20/+40°C
Serial Nr.

WARNINGS : DO NOT OPEN WHEN ENERGIZED

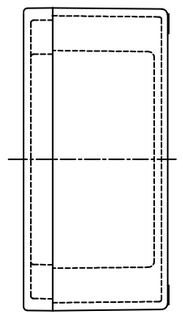
A002MAX

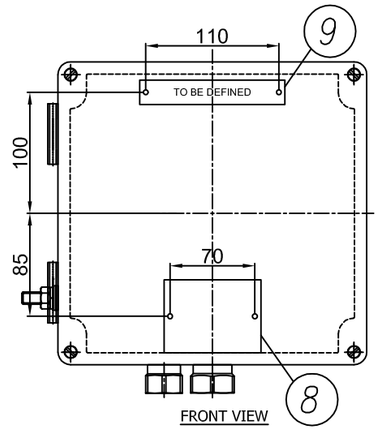
(9) PLATE DETAIL



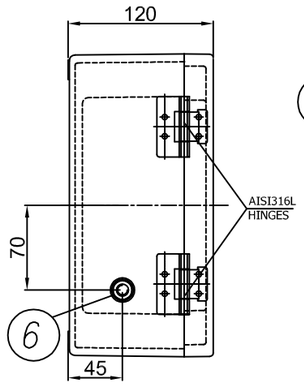
MATERIAL: LAMINATED PLASTIC
BACKGROUND: WHITE
LETTERS: BLACK

(7) Terminals numbered: NOTE 1

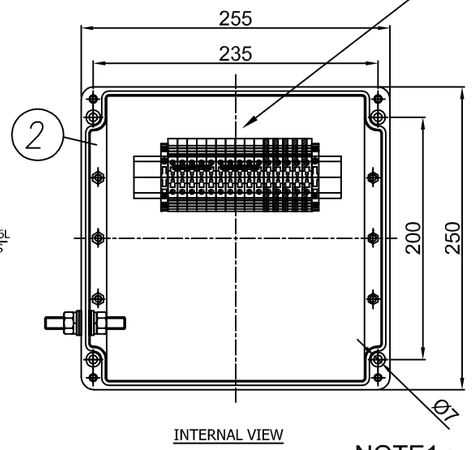

RIGHT VIEW



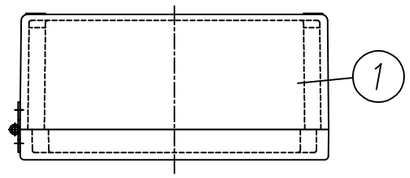
FRONT VIEW



LEFT VIEW



INTERNAL VIEW



TOP VIEW

NOTE1 :
- JB for Normal Lighting have terminals bridge: L-L-L-L-L, N-N-N-N-N, PE-PE-PE-PE-PE - JB for Emergency Lighting have terminals bridge: L-L-L, N-N-N, PW-PW-PW, PE-PE-PE-PE-PE

ITEM	DESCRIPTION	Pcs Q.TY	NOTE/MAT.	CODE	MANUFACTURER
11	DUSTPROOF PVC PLUG Ø25	2	–	.	TECHNOR ITALSMEA
10	DUSTPROOF PVC PLUG Ø20	1	–	.	TECHNOR ITALSMEA
9	LAMINATED PLASTIC TAG 120X20	1	–	.	TECHNOR ITALSMEA
8	AISI316L CERTIFICATE PLATE 80X60	1	–	.	TECHNOR ITALSMEA
7	BEIGE TERMINAL BLOCK SIZE 6 SQMM EARTH TERMINAL BLOCK SIZE 6 SQMM	10 5	WDU–6 WPE–6	.	WEIDMULLER
6	AISI316L INT/EXT EARTH BOLT M10	1	BTP–10	.	TECHNOR ITALSMEA
5	BRASS CONTINUITY PLATE THK. 0.8 MM	1	–	.	TECHNOR ITALSMEA
4	NICKEL PLATED BRASS PLUG M20	1	T20	.	TECHNOR ITALSMEA
3	NICKEL PLATED BRASS PLUG M25	1	T25	.	TECHNOR ITALSMEA
2	INTERNAL MOUNTING PLATE	1	PS–2526	.	TECHNOR ITALSMEA
1	GRP ENCLOSURE	1	AQ–252612P	.	TECHNOR ITALSMEA

-UNPAINTED (BLACK NATURAL)
Q.TY 92, ITEM 20: 2JBXXGPEE, ELEJB02

Explosion Proof
Electrical Equipment
Materiali Elettrici Antideflagranti
TECHNOR ITALSMEA
A COMPANY OF MARECHAL ELECTRIC

CROSSWIND

ROSETTI MARINO

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
05	20/12/24	FB	OB	OB	ACCEPTED FOR CONSTRUCTION (AFC)
04	26/11/24	FB	OB	OB	ACCEPTED FOR CONSTRUCTION (AFC)
03	25/10/24	FB	OB	OB	ACCEPTED FOR CONSTRUCTION (AFC)
02	12/09/24	FB	OB	OB	ACCEPTED FOR CONSTRUCTION (AFC)
01	03/09/24	FB	OB	OB	ACCEPTED FOR CONSTRUCTION (AFC)
00	30/07/24	FB	OB	OB	ISSUE FOR REVIEW (IFR)

TITLE : BASE LOAD POWER HUB (BLPH)

Junction Box for Normal & Emergency Lighting

CONTRACT NO./TITLE CW–I–WP4–2023–05/HOLLANDSE KUST NOORD WIND PARK | SCALE : NTS

A3 | DRAWING NO. 1724001481–EL–DA–00003 | SHEET 004 | REV. 05

F.to UNI A3: 420mmx297mm

File Name : 1724001481–EL–DA–00003 Rev. 01

ENCLOSURE N°	TAG LIST	NORMAL LIGHTING	EMERGENCY LIGHTING
1	EJB-200N1-03-L2-04	X	
2	EJB-200N1-03-L2-03	X	
3	EJB-200N1-03-L2-01	X	
4	EJB-200N1-03-L2-02	X	
5	EJB-200N1-03-L2-12	X	
6	EJB-200N1-03-L2-11	X	
7	EJB-200N1-03-L2-10	X	
8	EJB-200N1-03-L2-09	X	
9	EJB-200N1-03-L2-08	X	
10	EJB-200N1-03-L2-07	X	
11	EJB-200N1-03-L2-06	X	
12	EJB-200N1-03-L2-05	X	
13	EJB-200N1-03-L2-14	X	
14	EJB-200N1-03-L2-13		X
15	EJB-200N1-09-L2-17		X
16	EJB-200N1-09-L2-01		X
17	EJB-200N1-09-L2-04		X
18	SPARE (TO BE PROVIDED BLANK)		X
19	EJB-200N1-09-L2-02		X
20	EJB-200N1-09-L2-15		X
21	EJB-200N1-09-L2-14		X
22	EJB-200N1-09-L2-13		X
23	EJB-200N1-09-L2-12		X
24	EJB-200N1-09-L2-11		X
25	EJB-200N1-09-L2-10		X
26	EJB-200N1-09-L2-09		X
27	EJB-200N1-09-L2-08		X
28	EJB-200N1-09-L2-07		X
29	EJB-200N1-09-L2-06		X
30	EJB-200N1-09-L2-05		X
31	EJB-200N1-09-L2-16	X	
32	EJB-200N1-04-L3-01	X	
33	EJB-200N1-04-L3-02	X	
34	EJB-200N1-10-L3-05		X
35	EJB-200N1-10-L3-06		X
36	EJB-200N1-10-L3-07		X
37	EJB-200N1-10-L3-08		X
38	EJB-200N1-10-L3-09		X
39	EJB-200N1-10-L3-02		X
40	EJB-200N1-10-L3-01		X
41	EJB-200N1-10-L3-03		X
42	EJB-200N1-10-L3-04		X
43	EJB-200N1-02-L1-03	X	
44	EJB-200N1-02-L1-02	X	
45	EJB-200N1-02-L1-01	X	
46	SPARE (TO BE PROVIDED BLANK)	X	
47	EJB-200N1-02-L1-10	X	
48	EJB-200N1-02-L1-19	X	
49	EJB-200N1-02-L1-18	X	

ENCLOSURE N°	TAG LIST	NORMAL LIGHTING	EMERGENCY LIGHTING
50	EJB-200N1-02-L1-17	X	
51	EJB-200N1-02-L1-16	X	
52	EJB-200N1-02-L1-15	X	
53	EJB-200N1-02-L1-14	X	
54	EJB-200N1-02-L1-13	X	
55	EJB-200N1-02-L1-12	X	
56	EJB-200N1-02-L1-11	X	
57	EJB-200N1-02-L1-06	X	
58	EJB-200N1-02-L1-05	X	
59	EJB-200N1-02-L1-07	X	
60	EJB-200N1-02-L1-08	X	
61	EJB-200N1-02-L1-09	X	
62	EJB-200N1-08-L1-03		X
63	SPARE (TO BE PROVIDED BLANK)		X
64	EJB-200N1-08-L1-01		X
65	EJB-200N1-08-L1-04		X
66	EJB-200N1-08-L1-19		X
67	EJB-200N1-08-L1-18		X
68	EJB-200N1-08-L1-17		X
69	EJB-200N1-08-L1-16		X
70	EJB-200N1-08-L1-15		X
71	EJB-200N1-08-L1-14		X
72	EJB-200N1-02-L1-20	X	
73	EJB-200N1-08-L1-12		X
74	EJB-200N1-08-L1-11		X
75	EJB-200N1-08-L1-10		X
76	EJB-200N1-08-L1-20		X
77	EJB-200N1-08-L1-05		X
78	EJB-200N1-08-L1-06		X
79	EJB-200N1-08-L1-07		X
80	EJB-200N1-08-L1-09		X
81	EJB-200N1-08-L1-08		X
82	EJB-200F2-01	X	
83	EJB-200F2-02	X	
84	SPARE (TO BE PROVIDED BLANK)	X	
85	SPARE (TO BE PROVIDED BLANK)	X	
86	SPARE (TO BE PROVIDED BLANK)	X	
87	SPARE (TO BE PROVIDED BLANK)	X	
88	SPARE (TO BE PROVIDED BLANK)	X	
89	SPARE (TO BE PROVIDED BLANK)		X
90	SPARE (TO BE PROVIDED BLANK)		X
91	SPARE (TO BE PROVIDED BLANK)		X
92	SPARE (TO BE PROVIDED BLANK)		X

Q.TY 92, ITEM 20: 2JBXXGPEE, ELEJB02

Explosion Proof
Electrical Equipment
Materiali Elettrici Antideflagranti

TECHNOR ITALSMEA
A COMPANY OF MARECHAL ELECTRIC

CROSSWIND

ROSETTI MARINO

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
05	20/12/24	FB	OB	OB	ACCEPTED FOR CONSTRUCTION (AFC)
04	26/11/24	FB	OB	OB	ACCEPTED FOR CONSTRUCTION (AFC)
03	25/10/24	FB	OB	OB	ACCEPTED FOR CONSTRUCTION (AFC)
02	12/09/24	FB	OB	OB	ACCEPTED FOR CONSTRUCTION (AFC)
01	03/09/24	FB	OB	OB	ACCEPTED FOR CONSTRUCTION (AFC)
00	30/07/24	FB	OB	OB	ISSUE FOR REVIEW (IFR)

TITLE : BASE LOAD POWER HUB (BLPH)

Junction Box for Normal & Emergency Lighting–Tag List

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE : NTS

A3

DRAWING NO. 1724001481-EL-DA-00003

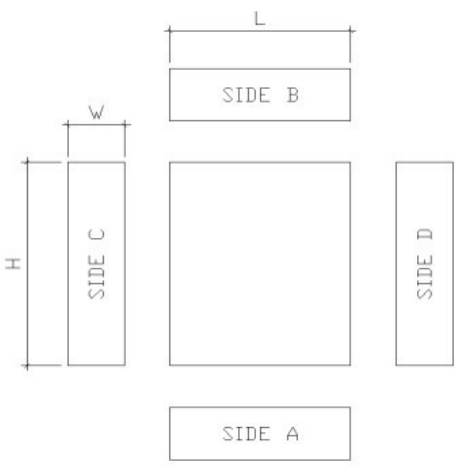
SHEET 005

REV. 05

F.to UNI A3: 420mmx297mm

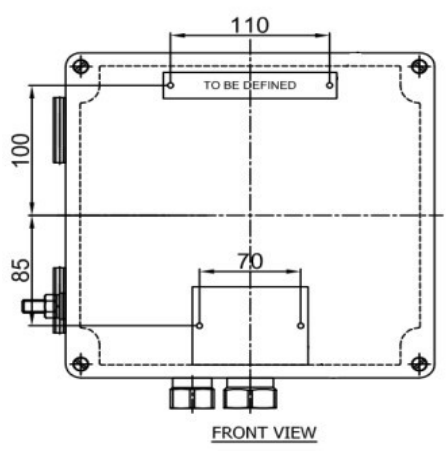
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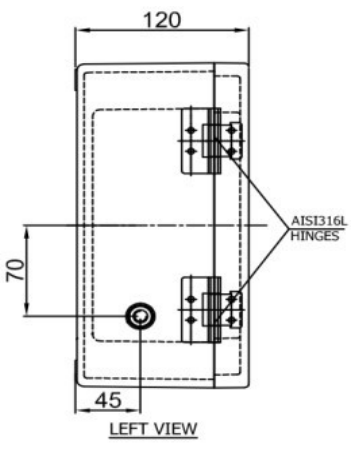
Row	Data Sheet for Control Stations, Junction Boxes and Sockets				Rev.
1	Junction Box for Normal & Emergency Lighting (Exdb)				
2	Item	Required	Manufacturer Proposal	Comments	
3	Model Number	by Vendor	AQ-252612P		01
4	Serial Number	by Vendor	B011041010004		01
5	Quantity	43+5(spare)		(39+9 spare)	01
6	Appkication	Lighting pole JB/Lighting JB			00
7	**Installation area**				
8	Indoor/Outdoor	Outdoor			00
9	Safe Area/Hazardous Area	Hazardous area			00
10	Zone 1/Zone 2	Zone-1			00
11	Temp. Class	Zone 1 Gas Group IIC (or) IIB + H2, T1	Ex eb IIC, T6 Gb		01
12	**Electrical input data**				
13	Voltage	230 V ac	230 V ac		01
14	Number of Phases	1ph + N + PE			00
15	**Material**				
16	Body	GRP	GRP		01
17	Execution	Ex eb	Ex eb		00
18	Protection Degree	IP56	IP 66		01
19	**Accessories**				
20	Hinged Cover	Required	AISI316L Hinges		01
21	Gasket	Required			00
22	Removable Gland Plates	Required	Brass Continuity plate 0.8mm thick		01
23	Internal Mounting Plate	Thickness 3mm threaded		connected to Internal ground bar	00
24	Internal Ground Bar	Required		connected to earth stud	00
25	Earth Stud	Required			00
26	Drainage Valve	Required			00
27	Pad lockable Cover	Required			00
28	Identification Label	Trafolite/ Stainless Steel	Laminated Plastic	for all label	01
29	**Side 'A'**				
30	Hubs Qty.	5	5		01
31	Size	No.3 M25, No.2 M20	No.3 Ø 25.2 mm, No.2 Ø 20.2 mm		01
32	Thread	ISO-M			00
33	Plug	No. 1 M20, No.1 M25	No. 1 Ø 20.2 mm, No.1 Ø 25.2 mm	nickel-plated brass	01
34	**Side 'B'**				
35	Hubs Qty.	Not Required			00
36	Size	NA			00
37	Thread	NA			00
38	**Side 'C'**				
39	Hubs Qty.	Not Required			00
40	Size	NA			00
41	Thread	NA			00
42	**Side 'D'**				
43	Hubs Qty.	Not Required			00
44	Size	NA			00
45	Thread	NA			00
46	**Terminals**				
47	Size [mm^2]	Suitable for 6 Sq.mm & 2.5 Sq.mm Cable	M25 & M20	suitable with wire-end ferrules DIN 46228	01
48	Qty.	n°5 for Ph // n°5 for N // n°5 for PE	n°5 for Ph // n°5 for N // n°5 for PE	Ex - jumpered	01
49	**Bonding Cable (yellow/Green)**				
50	Size [mm^2]	by vendor		6 mm^2	01
51	Qty.	Min. 0.15m			00
52	**Dimension**				
53	Height 'H' [mm]	by vendor	120 mm		01
54	Width 'W' [mm]	by vendor	250 mm		01
55	Length 'L' [mm]	by vendor	255 mm		01
56	Weight [Kg]	by vendor	2.65 Kg		01
57	JB Code (*)	Remarks			
58					



NOTES:

(*) Filled by Vendor





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Tag Number	Tag Description	Location	P.O.	Vendor	Manufacturer	Serial Number	Model Type Catalogue Number	Installation Zone	ATEX Certificate Number	Reference Document	ATEX Certification Marking	Notes / Comments	Skid / Package	Electrical Equip.	Barrier Calculation Ref.	Special Conditions of Safe Use Applicable	3D Location
CB-200F4B	AC UPS F&G - Battery Isolator-B	CONTAINER B-300 (LOWER DECK)	1724000372	3W Power	Cortem Spa		EJBC	Zone 1	EPT 20 ATEX 4075X	1724000372-EL-DG-00011	II 2GDEx db IIC T6 Gb Ex tb IIIC T 85°C Db	-	N/A	True	N/A	False	
EAT-200N1-01	Trace Heating - Remote Ambient Thermostat	LOWER DECK	1724001647	nVent	nVent	1244-022663	ETS-05-A2-E-A	Zone 1	Baseefa 13ATEX0137	1724001647-EL-DD-00004	II 2(1)G Ex eb ia mb [ia Ga] IIC T5 Gb - 40ºC ≤ Ta ≤ +60ºC II 2D Ex tb IIIC T100ºC Db	-	N/A	True	N/A	False	
EHT-1001-A	Self-regulating heat cable	LOWER DECK	1724001647	nVent	nVent	469145-000	3BTV2-CT	Zone 1	SGS20ATEX0048X	1724001647-EL-DD-00004	II 2 GD Ex 60079-30-1 eb IIC T6 Gb	-	N/A	True	N/A	True	
EHT-1002-A	Self-regulating heat cable	LOWER DECK	1724001647	nVent	nVent	469145-000	3BTV2-CT	Zone 1	SGS20ATEX0048X	1724001647-EL-DD-00004	II 2 GD Ex 60079-30-1 eb IIC T6 Gb	-	N/A	True	N/A	True	
EHT-1003-A	Self-regulating heat cable	LOWER DECK	1724001647	nVent	nVent	469145-000	3BTV2-CT	Zone 1	SGS20ATEX0048X	1724001647-EL-DD-00004	II 2 GD Ex 60079-30-1 eb IIC T6 Gb	-	N/A	True	N/A	True	
EHT-1004-A	Self-regulating heat cable	UPPER DECK	1724001647	nVent	nVent	469145-000	3BTV2-CT	Zone 1	SGS20ATEX0048X	1724001647-EL-DD-00004	II 2 GD Ex 60079-30-1 eb IIC T6 Gb	-	N/A	True	N/A	True	
EHT-1004-B	Self-regulating heat cable	UPPER DECK	1724001647	nVent	nVent	469145-000	3BTV2-CT	Zone 1	SGS20ATEX0048X	1724001647-EL-DD-00004	II 2 GD Ex 60079-30-1 eb IIC T6 Gb	-	N/A	True	N/A	True	
EHT-1005-A	Self-regulating heat cable	UPPER DECK	1724001647	nVent	nVent	469145-000	3BTV2-CT	Zone 1	SGS20ATEX0048X	1724001647-EL-DD-00004	II 2 GD Ex 60079-30-1 eb IIC T6 Gb	-	N/A	True	N/A	True	
EHT-1006-A	Self-regulating heat cable	UPPER DECK	1724001647	nVent	nVent	469145-000	3BTV2-CT	Zone 1	SGS20ATEX0048X	1724001647-EL-DD-00004	II 2 GD Ex 60079-30-1 eb IIC T6 Gb	-	N/A	True	N/A	True	
EHT-1007-A	Self-regulating heat cable	LOWER DECK	1724001647	nVent	nVent	469145-000	3BTV2-CT	Zone 1	SGS20ATEX0048X	1724001647-EL-DD-00004	II 2 GD Ex 60079-30-1 eb IIC T6 Gb	-	N/A	True	N/A	True	
EHT-2002-A	Self-regulating heat cable	UPPER DECK	1724001647	nVent	nVent	469145-000	3BTV2-CT	Zone 1	SGS20ATEX0048X	1724001647-EL-DD-00004	II 2 GD Ex 60079-30-1 eb IIC T6 Gb	-	N/A	True	N/A	True	
EJB-200F2-01	Top Obstruction Lights Junction Box	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990082	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	HAZARDOUS-AREA_8 HAZARDOUS-AREA_3
EJB-200F2-02	Intermediate obstruction lights junction box	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990083	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	HAZARDOUS-AREA_4
EJB-200N1-02-L1-01	Normal Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990045	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-02-L1-02	Normal Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990044	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-02-L1-03	Normal Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990043	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	HAZARDOUS-AREA_3
EJB-200N1-02-L1-05	Normal Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990058	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-02-L1-06	Normal Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990057	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-02-L1-07	Normal Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990059	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-02-L1-08	Normal Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990060	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-02-L1-09	Normal Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990061	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-02-L1-10	Normal Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990047	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-02-L1-11	Normal Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990056	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-02-L1-12	Normal Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990055	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-02-L1-13	Normal Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990054	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-02-L1-14	Normal Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990053	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-02-L1-15	Normal Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990052	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-02-L1-16	Normal Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990051	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-02-L1-17	Normal Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990050	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-02-L1-18	Normal Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990049	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-02-L1-19	Normal Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990048	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-02-L1-20	Normal Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990072	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-03-L2-01	Normal Lighting JB	LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990003	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-03-L2-02	Normal Lighting JB	LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990004	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-03-L2-03	Normal Lighting JB	LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990002	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-03-L2-04	Normal Lighting JB	LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990001	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-03-L2-05	Normal Lighting JB	LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990012	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-03-L2-06	Normal Lighting JB	LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990011	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-03-L2-07	Normal Lighting JB	LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990010	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-03-L2-08	Normal Lighting JB	LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990009	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-03-L2-09	Normal Lighting JB	LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990008	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-03-L2-10	Normal Lighting JB	LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990007	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-03-L2-11	Normal Lighting JB	LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990006	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-03-L2-12	Normal Lighting JB	LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990005	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-03-L2-13	Normal Lighting JB	LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990014	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-03-L2-14	Normal Lighting JB	LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990013	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-04-L3-01	Stair Normal Lighting JB	LOWER DECK STAIRS	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990032	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-04-L3-02	Stair Normal Lighting JB	LOWER DECK STAIRS	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990033	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-08-L1-01	Emergency Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990064	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-08-L1-03	Emergency Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990062	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	HAZARDOUS-AREA_3
EJB-200N1-08-L1-04	Emergency Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990065	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-08-L1-05	Emergency Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990077	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-08-L1-06	Emergency Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990078	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	

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[1] # EU – TYPE EXAMINATION CERTIFICATE

[2] Equipment or Protective Systems Intended for use in Potentially Explosive Atmospheres Directive 2014/34/EU.

[3] EU-Type Examination Certificate Number: **FIDI 21 ATEX 0090X** Issue: **1**

[4] Product: **Junction boxes, local control stations and local control panels**

Type: **AQ-***P / AQ-***AL / AR-***P / AR-***AL**
AQ-*P-HT / AQ-***AL-HT / AR-***P-HT / AR-***AL-HT**
SB-* / ST-***
EFE-* / EFXE-*** AL / EFXE-***SB / EFXE-***ST**
EFE-*-HT / EFXE-***AL-HT**

[5] Manufacturer: **Technor Italsmea S.p.A.**

[6] Address: **Via Italia 33, 20060 Gessate (MI), Italy**

[7] This product and any acceptable variation thereto is specified in the schedule to this certificate and documents therein referred to.

[8] FIDITAS Ltd., Notified Body number 2829 in accordance with Article 17 of Directive 2014/34/EU of the European Parliament and of the Council, dated 26 February 2014, certifies that this product has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of products intended for use in potentially explosive atmospheres given in Annex II of the Directive.

The examination and test results are recorded in confidential Report No: **FIDI 21 CR 075**

[9] Compliance with the Essential Health and Safety Requirements has been assured by compliance with:

EN IEC 60079-0:2018	**EN 60079-1:2014**	**EN IEC 60079-7:2015 / A1:2018**
EN 60079-11:2012	**EN 60079-18:2015/A1:2017**	**EN 60079-31:2014**

except in respect of those requirements listed at item 18 of the Schedule.

[10] If the sign 'X' is placed after the certificate number, it indicates that the product is subject to Specific Conditions of Use specified in the schedule to this certificate.

[11] This EU-Type Examination Certificate relates only to the design, examination and test of the specified product in accordance with Annex III. Further requirements of the Directive apply to the manufacturing process and supply of this products. These are not covered by this certificate.

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This certificate may only be reproduced in its entirety, without any change, schedule included

[12] The marking of the product shall include the following:



II 1 G	**Ex ia IIC/IIB T6...T4 Ga**(2) or
II 2(1) G or **II 2(2) G**	**Ex db eb ia/ib mb [**(3)**] IIC/IIB T6...T4 Gb**(1) or
II 2 G	**Ex eb IIC/IIB T6...T4 Gb**(1) or
II 2 D	**Ex tb IIIC T85°C...T135°C Db**

(1) Others type of protection additional to 'eb' depending to the components actually mounted.

(2) In case of enclosures containing 'eb' terminals and/or 'ia Ga' already certified components (with compatible marking) only.

(3) Associated equipment protection depending on the components actually mounted (see lists): e.g. [ia/ib/ia Ga/ia IIIC Da] and/or [ia IIIC Da] or [ia/ib/ia Ga/ia IIIC Da] and/or [ia/ib/ia Ga] [ia IIIC Da]

Our ref.: 21.CRT.400

Date: 23. 12.2021.

Fiditas d.o.o. ZAGREB

FIDITAS Ltd.
Certification department
Approved:

Marino Kelava, M.E.Eng.

Fiditas Ltd. Karlovačka cesta 197, 10250 Zagreb-Lučko, Croatia
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[13] **SCHEDULE**

[14] **EU - TYPE EXAMINATION CERTIFICATE No.:** **FIDI 21 ATEX 0090X**

[15] **Description of product**

Junction boxes, local control stations and local control panels are made of 'eb' and 'tb' enclosures in stainless steel, aluminium alloy or glass fiber reinforced polyester resin, of various dimensions, which shall house 'eb' and/or 'ia/ib' terminals and/or Ex components or Ex equipment made in different type of Ex protection. All Ex terminals, Ex components and Ex equipment are covered by their own ATEX certificates.

The terminals and components are be used according to data available in related component certificates, in relevant temperature range, voltage and current limitations. The terminals must be fitted in accordance with EN IEC 60079-0 and EN IEC 60079-7 with regards to creepage and clearance distances, and according to related safety instructions.

The cover is fixed to the body with screw, between body and cover a gasket guarantee the protection degree IP66 (IP66/67 depending on models). The cover of stainless-steel enclosure can be also fixed the body with looking devices, between body and cover a gasket guarantee the protection degree IP66. The IP degree of junction boxes, local control stations and local control panels depend on the components actually mounted. The walls and the bottom of the boxes can be drilled and taped with maximum size and maximum number of holes as specified in the manufacturer documents.

The cable glands or plugs, with separate ATEX certificate, made in type of protection 'eb' and/or 'tb' with appropriate IP protection are mounted according to related manufacturer's installation instructions. Each enclosure is provided with internal earthing certified terminal or earthing screw or bolt. Metal enclosures are provided by external earthing screw or bolt. Metal and polyester enclosures can be provided by passing through earthing terminals.

All enclosures can be provided by:
- Externally installed accessories as specified in manufacturer documents,
- Drain breath device type ECR3, included in this certificate,
- Internal/external earthing plate.

Model identification

Junction boxes

A(1)-(2) (3) (4) (5) (6)	(1) –	**Q**: Square size **R**: Rectangular size
	(2) (3) (4)	dimension, in cm
	(5)	Material **P**: Glass fiber reinforced polyester resin **AL**: Aluminium Alloy
	(6)	None: up to internal temperature of 105°C **HT**: up to internal temperature of 130°C
SB- (2) (3) (4)	(2) (3) (4)	dimension, in cm
ST- (2) (3) (4)	(2) (3) (4)	dimension, in cm

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Panel boards

EFE- (2) (3) (4) (6)	(2) (3) (4)	dimension, in cm
	(6)	None: up to internal temperature of 105°C **HT**: up to internal temperature of 130°C
EFXE- (2) (3) (4) (5) (6)	(2) (3) (4)	dimension, in cm
		Material
	(5)	**SB** or **ST**: stainless steel **AL**: Aluminium Alloy
	(6)	None: up to internal temperature of 105°C **HT**: up to internal temperature of 130°C

Technical data:

Electrical data:	According to Ex component to actually installed
Ambient temperature:	-50°C ÷ +95°C Other possible ranges are with: - min temperature: -50°C to -20 °C - max temperature of +40 °C to +95 °C
Mechanical protection:	IP66/IP67 depending on models IP66 without swing handle element IP55 with swing handle element

Temperature class and/or maximum surface temperature of any junction box or control panel depend on ambient temperature and internal power dissipation. The values that must be observed are given in relevant tables in this certificate.

For commercial reasons model name listed in the tables below can be modified as follows: first (2) and second (3) pair of digits can be reversed.

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Model sizes

Polyester High Temperature		Aluminium High Temperature	
AQ-080806P-HT	EFE-080806-HT	AQ-080806AL-HT	EFXE-080806AL-HT
AQ-080808P-HT	EFE-080808-HT	AR-081306AL-HT	EFXE-081306AL-HT
AR-081106P-HT	EFE-081106-HT	AR-081806AL-HT	EFXE-081806AL-HT
AR-081108P-HT	EFE-081108-HT	AR-082505AL-HT	EFXE-082505AL-HT
AR-081606P-HT	EFE-081606-HT	AQ-101008AL-HT	EFXE-101008AL-HT
AR-081608P-HT	EFE-081608-HT	AR-101608AL-HT	EFXE-101608AL-HT
AR-081906P-HT	EFE-081906-HT	AR-102008AL-HT	EFXE-102008AL-HT
AR-081908P-HT	EFE-081908-HT	AQ-121208AL-HT	EFXE-121208AL-HT
AR-082306P-HT	EFE-082306-HT	AQ-121209AL-HT	EFXE-121209AL-HT
AR-082308P-HT	EFE-082308-HT	AR-122208AL-HT	EFXE-122208AL-HT
AQ-121209P-HT	EFE-121209-HT	AR-122209AL-HT	EFXE-122209AL-HT
AR-122209P-HT	EFE-122209-HT	AR-123608AL-HT	EFXE-123608AL-HT
AQ-161609P-HT	EFE-161609-HT	AQ-141409AL-HT	EFXE-141409AL-HT
AR-162609P-HT	EFE-162609-HT	AR-142009AL-HT	EFXE-142009AL-HT
AR-163609P-HT	EFE-163609-HT	AQ-161609AL-HT	EFXE-161609AL-HT
AR-165609P-HT	EFE-165609-HT	AR-162609AL-HT	EFXE-162609AL-HT
AQ-202017P-HT	EFE-202017-HT	AR-163609AL-HT	EFXE-163609AL-HT
AR-203017P-HT	EFE-203017-HT	AR-165609AL-HT	EFXE-165609AL-HT
AQ-252612P-HT	EFE-252612-HT	AQ-181810AL-HT	EFXE-181810AL-HT
AQ-252616P-HT	EFE-252616-HT	AR-182810AL-HT	EFXE-182810AL-HT
AR-254012P-HT	EFE-254012-HT	AR-102311AL-HT	EFXE-102311AL-HT
AR-254016P-HT	EFE-254016-HT	AR-202311AL-HT	EFXE-202311AL-HT
AR-256012P-HT	EFE-256012-HT	AR-202318AL-HT	EFXE-202318AL-HT
AR-304020P-HT	EFE-304020-HT	AR-232811AL-HT	EFXE-232811AL-HT
AQ-363609P-HT	EFE-363609-HT	AR-233311AL-HT	EFXE-233311AL-HT
AR-406025P-HT	EFE-406025-HT	AR-233318AL-HT	EFXE-233318AL-HT
AQ-414012P-HT	EFE-414012-HT	AR-234011AL-HT	EFXE-234011AL-HT
AQ-414020P-HT	EFE-414020-HT	AR-234023AL-HT	EFXE-234023AL-HT
		AR-236011AL-HT	EFXE-236011AL-HT
		AR-314011AL-HT	EFXE-314011AL-HT
		AR-314014AL-HT	EFXE-314014AL-HT
		AR-314018AL-HT	EFXE-314018AL-HT
		AR-314023AL-HT	EFXE-314023AL-HT
		AR-316011AL-HT	EFXE-316011AL-HT
		AR-316018AL-HT	EFXE-316018AL-HT
		AQ-606020AL-HT	EFXE-606020AL-HT

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Polyester		Aluminium		Stainless steel	
AQ-080806P	EFE-080806	AQ-080806AL	EFXE-080806AL	SB-101210	EFXE-101210SB
AQ-080808P	EFE-080808	AR-081306AL	EFXE-081306AL	SB-151510	EFXE-151510SB
AR-081106P	EFE-081106	AR-081806AL	EFXE-081806AL	SB-142013	EFXE-142013SB
AR-081606P	EFE-081606	AR-081808AL	EFXE-081808AL	SB-202010	EFXE-202010SB
AR-081906P	EFE-081906	AR-082505AL	EFXE-082505AL	SB-202016	EFXE-202016SB
AQ-121209P	EFE-121209	AR-082508AL	EFXE-082508AL	SB-202713	EFXE-202713SB
AR-122209P	EFE-122209	AQ-101008AL	EFXE-101008AL	SB-272713	EFXE-272713SB
AQ-161609P	EFE-161609	AR-101508AL	EFXE-101508AL	SB-203016	EFXE-203016SB
AR-162609P	EFE-162609	AR-101608AL	EFXE-101608AL	SB-273513	EFXE-273513SB
AR-163609P	EFE-163609	AR-102008AL	EFXE-102008AL	SB-282816	EFXE-282816SB
AQ-252612P	EFE-252612	AQ-121208AL	EFXE-121208AL	SB-204016	EFXE-204016SB
AQ-252616P	EFE-252616	AR-122209AL	EFXE-122209AL	SB-353516	EFXE-353516SB
AR-254012P	EFE-254012	AQ-141409AL	EFXE-141409AL	SB-282827	EFXE-282827SB
AR-254016P	EFE-254016	AR-142009AL	EFXE-142009AL	SB-355016	EFXE-355016SB
AR-256012P	EFE-256012	AQ-161609AL	EFXE-161609AL	SB-383816	EFXE-383816SB
AQ-414012P	EFE-414012	AR-162410AL	EFXE-162410AL	SB-384516	EFXE-384516SB
		AR-162609AL	EFXE-162609AL	SB-385716	EFXE-385716SB
		AQ-181810AL	EFXE-181810AL	SB-505016	EFXE-505016SB
		AR-182810AL	EFXE-182810AL	SB-383827	EFXE-383827SB
		AR-202311AL	EFXE-202311AL	SB-575716	EFXE-575716SB
		AR-202318AL	EFXE-202318AL	SB-577620	EFXE-577620SB
		AR-232811AL	EFXE-232811AL	SB-575730	EFXE-575730SB
		AR-233312AL	EFXE-233312AL	SB-769520	EFXE-769520SB
		AR-233318AL	EFXE-233318AL	SB-1258040	EFXE-1258040SB

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Enclosure types (Stainless steel)	
ST-101210	EFXE-101210ST
ST-151510	EFXE-151510ST
ST-142013	EFXE-142013ST
ST-202010	EFXE-202010ST
ST-202016	EFXE-202016ST
ST-202713	EFXE-202713ST
ST-272713	EFXE-272713ST
ST-203016	EFXE-203016ST
ST-273513	EFXE-273513ST
ST-282816	EFXE-282816ST
ST-204016	EFXE-204016ST
ST-353516	EFXE-353516ST
ST-282827	EFXE-282827ST
ST-355016	EFXE-355016ST
ST-383816	EFXE-383816ST
ST-384516	EFXE-384516ST
ST-385716	EFXE-385716ST
ST-505016	EFXE-505016ST
ST-383827	EFXE-383827ST
ST-575716	EFXE-575716ST
ST-577620	EFXE-577620ST
ST-575730	EFXE-575730ST
ST-769520	EFXE-769520ST
ST-1258040	EFXE-1258040ST

Note 2 For stainless steel enclosures: dimensions (2) and (3) can be decreased or increased up to 20%, dimensions (4) can be increased up to 500 mm. Model name changes consequently.

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Power dissipation – HT glass fiber reinforced polyester resin enclosures

Enclosure types (polyester)		Maximum power dissipation (W) – Tamb. up to **40**°C							
		INTERNAL TEMP.60°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)	INTERNAL TEMP.127°C (T4/T135°C)
AQ-080806P-HT	EFE-080806-HT	3,5	5,2	7,0	7,8	9,6	10,4	11,3	15,2
AQ-080808P-HT	EFE-080808-HT	4,6	6,8	9,1	10,2	12,5	13,7	14,8	19,8
AR-081106P-HT	EFE-081106-HT	4,3	6,4	8,5	9,6	11,8	12,8	13,9	18,6
AR-081108P-HT	EFE-081108-HT	5,6	8,4	11,2	12,6	15,3	16,7	18,1	24,2
AR-081606P-HT	EFE-081606-HT	5,8	8,7	11,6	13,0	15,9	17,4	18,8	25.2
AR-081608P-HT	EFE-081608-HT	6,8	10,2	13,7	15,4	18,8	20,5	22,2	29,7
AR-081906P-HT	EFE-081906-HT	6,4	9,6	12,8	14,4	17,6	19,2	20,8	27,8
AR-081908P-HT	EFE-081908-HT	7,5	11,3	15,1	17,0	20,7	22,6	24,5	32,7
AR-082306P-HT	EFE-082306-HT	7,2	10,8	14,4	16,2	19,8	21,6	23,4	31,3
AR-082308P-HT	EFE-082308-HT	8,5	12,7	16,9	19,0	23,3	25,4	27,5	36,7
AQ-121209P-HT	EFE-121209-HT	8,0	12,0	15,9	17,9	21,9	23,9	25,9	34,7
AR-122209P-HT	EFE-122209-HT	10,8	16,2	21,6	24,3	29,7	32,4	35,1	47,0
AQ-161609P-HT	EFE-161609-HT	10,4	15,6	20,8	23,4	28,6	31,2	33,8	45,2
AR-162609P-HT	EFE-162609-HT	13,4	20,1	26,8	30,2	36,9	40,2	43,6	58,3
AR-163609P-HT	EFE-163609-HT	16,2	24,3	32,4	36,5	44,6	48,6	52,7	70,5
AR-165609P-HT	EFE-165609-HT	21,4	32,0	42,7	48,1	58,7	64,1	69,4	92,9
AQ-202017P-HT	EFE-202017-HT	18,0	26,9	35,9	40,4	49,4	53,9	58,4	78,1
AR-203017P-HT	EFE-203017-HT	20,9	31,3	41,7	47,0	57,4	62,6	67,8	90,8
AQ-252612P-HT	EFE-252612-HT	18,8	28,2	37,6	42,4	51,8	56,5	61,2	81,9
AQ-252616P-HT	EFE-252616-HT	20,8	31,1	41,5	46,7	57,1	62,3	67,5	90,3
AR-254012P-HT	EFE-254012-HT	22,8	34,2	45,7	51,4	62,8	68,5	74,2	99,3
AR-254016P-HT	EFE-254016-HT	26,2	39,3	52,4	58,9	72,0	78,6	85,1	113,9
AR-256012P-HT	EFE-256012-HT	29,0	43,6	58,1	65,3	79,9	87,1	94,4	126,3
AR-304020P-HT	EFE-304020-HT	32,3	48,5	64,7	72,7	88,9	97,0	105,1	140,7
AQ-363609P-HT	EFE-363609-HT	23,0	34,6	46,1	51,8	63,4	69,1	74,9	100,2
AR-406025P-HT	EFE-406025-HT	50,3	75,5	100,7	113,3	138,4	151,0	163,6	218,9
AQ-414012P-HT	EFE-414012-HT	29,1	43,7	58,2	65,5	80,1	87,3	94,6	126,6
AQ-414020P-HT	EFE-414020-HT	36,6	55,0	73,3	82,4	100,8	109,9	119,1	159,4

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Enclosure types (polyester)		Maximum power dissipation (W) – Tamb. up to **50**°C							
		INTERNAL TEMP.60°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)	INTERNAL TEMP.127°C (T4/T135°C)
AQ-080806P-HT	EFE-080806-HT	1,7	3,5	5,2	6,1	7,8	8,7	9,6	13,4
AQ-080808P-HT	EFE-080808-HT	2,3	4,6	6,8	8,0	10,2	11,4	12,5	17,5
AR-081106P-HT	EFE-081106-HT	2,1	4,3	6,4	7,5	9,6	10,7	11,8	16,5
AR-081108P-HT	EFE-081108-HT	2,8	5,6	8,4	9,8	12,6	13,9	15,3	21.5
AR-081606P-HT	EFE-081606-HT	2,9	5,8	8,7	10,1	13,0	14,5	15,9	22,3
AR-081608P-HT	EFE-081608-HT	3,4	6,8	10,2	11,9	15,4	17,1	18,8	26,3
AR-081906P-HT	EFE-081906-HT	3,2	6,4	9,6	11,2	14,4	16,0	17,6	24,6
AR-081908P-HT	EFE-081908-HT	3,8	7,5	11,3	13,2	17,0	18,8	20,7	29,0
AR-082306P-HT	EFE-082306-HT	3,6	7,2	10,8	12,6	16,2	18,0	19,8	27,7
AR-082308P-HT	EFE-082308-HT	4,2	8,5	12,7	14,8	19,0	21,1	23,3	32,5
AQ-121209P-HT	EFE-121209-HT	4,0	8,0	12,0	14,0	17,9	19,9	21,9	30,7
AR-122209P-HT	EFE-122209-HT	5,4	10,8	16,2	18,9	24,3	27,0	29,7	41,6
AQ-161609P-HT	EFE-161609-HT	5,2	10,4	15,6	18,2	23,4	26,0	28,6	40,0
AR-162609P-HT	EFE-162609-HT	6,7	13,4	20,1	23,5	30,2	33,5	36,9	51,6
AR-163609P-HT	EFE-163609-HT	8,1	16,2	24,3	28,4	36,5	40,5	44,6	62,3
AR-165609P-HT	EFE-165609-HT	10,7	21,4	32,0	37,4	48,1	53,4	58,7	82,2
AQ-202017P-HT	EFE-202017-HT	9,0	18,0	26,9	31,4	40,4	44,9	49,4	69,1
AR-203017P-HT	EFE-203017-HT	10,4	20,9	31,3	36,5	47,0	52,2	57,4	80,4
AQ-252612P-HT	EFE-252612-HT	9,4	18,8	28,2	32,9	42,4	47,1	51,8	72,5
AQ-252616P-HT	EFE-252616-HT	10,4	20,8	31,1	36,3	46,7	51,9	57,1	79,9
AR-254012P-HT	EFE-254012-HT	11,4	22,8	34,2	39,9	51,4	57,1	62,8	87,9
AR-254016P-HT	EFE-254016-HT	13,1	26,2	39,3	45,8	58,9	65,5	72,0	100,8
AR-256012P-HT	EFE-256012-HT	14,5	29,0	43,6	50,8	65,3	72,6	79,9	111,8
AR-304020P-HT	EFE-304020-HT	16,2	32,3	48,5	56,6	72,7	80,8	88,9	124,4
AQ-363609P-HT	EFE-363609-HT	11,5	23,0	34,6	40,3	51,8	57,6	63,4	88,7
AR-406025P-HT	EFE-406025-HT	25,2	50,3	75,5	88,1	113,3	125,8	138,4	193,8
AQ-414012P-HT	EFE-414012-HT	14,6	29,1	43,7	51,0	65,5	72,8	80,1	112,1
AQ-414020P-HT	EFE-414020-HT	18,3	36,6	55,0	64,1	82,4	91,6	100,8	141,1

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Enclosure types (polyester)		Maximum power dissipation (W) – Tamb. up to **55**°C							
		INTERNAL TEMP.65°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)	INTERNAL TEMP.127°C (T4/T135°C)
AQ-080806P-HT	EFE-080806-HT	1,7	2,6	4,4	5,2	7,0	7,8	8,7	12,5
AQ-080808P-HT	EFE-080808-HT	2,3	3,4	5,7	6,8	9,1	10,2	11,4	16,2
AR-081106P-HT	EFE-081106-HT	2,1	3,2	5,3	6,4	8,5	9,6	10,7	15,2
AR-081108P-HT	EFE-081108-HT	2,8	4,2	7,0	8,4	11,2	12,6	13,9	19,8
AR-081606P-HT	EFE-081606-HT	2,9	4,3	7,2	8,7	11,6	13,0	14,5	20,6
AR-081608P-HT	EFE-081608-HT	3,4	5,1	8,5	10,2	13,7	15,4	17,1	24,3
AR-081906P-HT	EFE-081906-HT	3,2	4,8	8,0	9,6	12,8	14,4	16,0	22,8
AR-081908P-HT	EFE-081908-HT	3,8	5,7	9,4	11,3	15,1	17,0	18,8	26,8
AR-082306P-HT	EFE-082306-HT	3,6	5,4	9,0	10,8	14,4	16,2	18,0	25,6
AR-082308P-HT	EFE-082308-HT	4,2	6,3	10,6	12,7	16,9	19,0	21,1	30,0
AQ-121209P-HT	EFE-121209-HT	4,0	6,0	10,0	12,0	15,9	17,9	19,9	28,3
AR-122209P-HT	EFE-122209-HT	5,4	8,1	13,5	16,2	21,6	24,3	27,0	38,3
AQ-161609P-HT	EFE-161609-HT	5,2	7,8	13,0	15,6	20,8	23,4	26,0	36,9
AR-162609P-HT	EFE-162609-HT	6,7	10,1	16,8	20,1	26,8	30,2	33,5	47,6
AR-163609P-HT	EFE-163609-HT	8,1	12,2	20,3	24,3	32,4	36,5	40,5	57,5
AR-165609P-HT	EFE-165609-HT	10,7	16,0	26,7	32,0	42,7	48,1	53,4	75,8
AQ-202017P-HT	EFE-202017-HT	9,0	13,5	22,4	26,9	35,9	40,4	44,9	63,7
AR-203017P-HT	EFE-203017-HT	10,4	15,7	26,1	31,3	41,7	47,0	52,2	74,0
AQ-252612P-HT	EFE-252612-HT	9,4	14,1	23,5	28,2	37,6	42,4	47,1	66,8
AQ-252616P-HT	EFE-252616-HT	10,4	15,6	26,0	31,1	41,5	46,7	51,9	73,7
AR-254012P-HT	EFE-254012-HT	11,4	17,1	28,5	34,2	45,7	51,4	57,1	81,0
AR-254016P-HT	EFE-254016-HT	13,1	19,6	32,7	39,3	52,4	58,9	65,5	92,9
AR-256012P-HT	EFE-256012-HT	14,5	21,8	36,3	43,6	58,1	65,3	72,6	103,0
AR-304020P-HT	EFE-304020-HT	16,2	24,2	40,4	48,5	64,7	72,7	80,8	114,7
AQ-363609P-HT	EFE-363609-HT	11,5	17,3	28,8	34,6	46,1	51,8	57,6	81,8
AR-406025P-HT	EFE-406025-HT	25,2	37,8	62,9	75,5	100,7	113,3	125,8	178,6
AQ-414012P-HT	EFE-414012-HT	14,6	21,8	36,4	43,7	58,2	65,5	72,8	103,0
AQ-414020P-HT	EFE-414020-HT	18,3	27,5	45,8	55,0	73,3	82,4	91,6	130,0

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Enclosure types (polyester)		Maximum power dissipation (W) – Tamb. up to **60**°C						
		INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)	INTERNAL TEMP.127°C (T4/T135°C)
AQ-080806P-HT	EFE-080806-HT	1,7	3,5	4,4	6,1	7,0	7,8	11,7
AQ-080808P-HT	EFE-080808-HT	2,3	4,6	5,7	8,0	9,1	10,2	15,2
AR-081106P-HT	EFE-081106-HT	2,1	4,3	5,3	7,5	8,5	9,6	14,3
AR-081108P-HT	EFE-081108-HT	2,8	5,6	7,0	9,8	11,2	12,6	18,7
AR-081606P-HT	EFE-081606-HT	2,9	5,8	7,2	10,1	11,6	13,0	19,4
AR-081608P-HT	EFE-081608-HT	3,4	6,8	8,5	11,9	13,7	15,4	22,9
AR-081906P-HT	EFE-081906-HT	3,2	6,4	8,0	11,2	12,8	14,4	21,4
AR-081908P-HT	EFE-081908-HT	3,8	7,5	9,4	13,2	15,1	17,0	25,3
AR-082306P-HT	EFE-082306-HT	3,6	7,2	9,0	12,6	14,4	16,2	24,1
AR-082308P-HT	EFE-082308-HT	4,2	8,5	10,6	14,8	16,9	19,0	28,3
AQ-121209P-HT	EFE-121209-HT	4,0	8,0	10,0	14,0	15,9	17,9	26,7
AR-122209P-HT	EFE-122209-HT	5,4	10,8	13,5	18,9	21,6	24,3	36,2
AQ-161609P-HT	EFE-161609-HT	5,2	10,4	13,0	18,2	20,8	23,4	34,8
AR-162609P-HT	EFE-162609-HT	6,7	13,4	16,8	23,5	26,8	30,2	44,9
AR-163609P-HT	EFE-163609-HT	8,1	16,2	20,3	28,4	32,4	36,5	54,2
AR-165609P-HT	EFE-165609-HT	10,7	21,4	26,7	37,4	42,7	48,1	71,5
AQ-202017P-HT	EFE-202017-HT	9,0	18,0	22,4	31,4	35,9	40,4	60,1
AR-203017P-HT	EFE-203017-HT	10,4	20,9	26,1	36,5	41,7	47,0	69,9
AQ-252612P-HT	EFE-252612-HT	9,4	18,8	23,5	32,9	37,6	42,4	63,0
AQ-252616P-HT	EFE-252616-HT	10,4	20,8	26,0	36,3	41,5	46,7	69,5
AR-254012P-HT	EFE-254012-HT	11,4	22,8	28,5	39,9	45,7	51,4	76,5
AR-254016P-HT	EFE-254016-HT	13,1	26,2	32,7	45,8	52,4	58,9	87,7
AR-256012P-HT	EFE-256012-HT	14,5	29,0	36,3	50,8	58,1	65,3	97,2
AR-304020P-HT	EFE-304020-HT	16,2	32,3	40,4	56,6	64,7	72,7	108,3
AQ-363609P-HT	EFE-363609-HT	11,5	23,0	28,8	40,3	46,1	51,8	77,1
AR-406025P-HT	EFE-406025-HT	25,2	50,3	62,9	88,1	100,7	113,3	168,7
AQ-414012P-HT	EFE-414012-HT	14,6	29,1	36,4	51,0	58,2	65,5	97,5
AQ-414020P-HT	EFE-414020-HT	18,3	36,6	45,8	64,1	73,3	82,4	122,7

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Enclosure types (polyester)		Maximum power dissipation (W) Tamb. up to **95**°C		
		INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)	INTERNAL TEMP.127°C (T4/T135°C)
AQ-080806P-HT	EFE-080806-HT	0,9	1,7	5,6
AQ-080808P-HT	EFE-080808-HT	1,1	2,3	7,3
AR-081106P-HT	EFE-081106-HT	1,1	2,1	6,5
AR-081108P-HT	EFE-081108-HT	1,4	2,8	9,0
AR-081606P-HT	EFE-081606-HT	1,4	2,9	9,2
AR-081608P-HT	EFE-081608-HT	1,7	3,4	10,9
AR-081906P-HT	EFE-081906-HT	1,6	3,2	10,2
AR-081908P-HT	EFE-081908-HT	1,9	3,8	12,1
AR-082306P-HT	EFE-082306-HT	1,8	3,6	11,5
AR-082308P-HT	EFE-082308-HT	2,1	4,2	13,5
AQ-121209P-HT	EFE-121209-HT	2,0	4,0	12,8
AR-122209P-HT	EFE-122209-HT	2,7	5,4	17,3
AQ-161609P-HT	EFE-161609-HT	2,6	5,2	16,6
AR-162609P-HT	EFE-162609-HT	3,4	6,7	21,5
AR-163609P-HT	EFE-163609-HT	4,1	8,1	26,0
AR-165609P-HT	EFE-165609-HT	5,3	10,7	34,2
AQ-202017P-HT	EFE-202017-HT	4,5	9,0	28,7
AR-203017P-HT	EFE-203017-HT	5,2	10,4	33,4
AQ-252612P-HT	EFE-252612-HT	4,7	9,4	30,1
AQ-252616P-HT	EFE-252616-HT	5,2	10,4	33,2
AR-254012P-HT	EFE-254012-HT	5,7	11,4	36,5
AR-254016P-HT	EFE-254016-HT	6,5	13,1	41,9
AR-256012P-HT	EFE-256012-HT	7,3	14,5	46,4
AR-304020P-HT	EFE-304020-HT	8,1	16,2	51,8
AQ-363609P-HT	EFE-363609-HT	5,8	11,5	36,8
AR-406025P-HT	EFE-406025-HT	12,6	25,2	80,6
AQ-414012P-HT	EFE-414012-HT	7,3	14,6	46,6
AQ-414020P-HT	EFE-414020-HT	9,2	18,3	58,6

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Power dissipation – HT aluminum alloy enclosures

Enclosure types (aluminium)		Maximum power dissipation (W) – Tamb. up to **40**°C							
		INTERNAL TEMP.60°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)	INTERNAL TEMP.130°C (T4/T135°C)
AQ-080806AL-HT	EFXE-080806AL-HT	5,2	7,8	10,4	11,7	14,3	15,6	16,9	23,4
AR-081306AL-HT	EFXE-081306AL-HT	7,0	10,6	14,1	15,9	19,4	21,2	23,0	31,8
AR-081806AL-HT	EFXE-081806AL-HT	8,9	13,3	17,8	20,0	24,5	26,7	28,9	40,0
AR-082505AL-HT	EFXE-082505AL-HT	10,9	16,4	21,9	24,7	30,1	32,9	35,6	49,4
AQ-101008AL-HT	EFXE-101008AL-HT	8,7	13,0	17,4	19,6	23,9	26,1	28,3	39,2
AR-101608AL-HT	EFXE-101608AL-HT	11,5	17,3	23,1	26,0	31,8	34,7	37,6	52,0
AR-102008AL-HT	EFXE-102008AL-HT	13,4	20,1	26,8	30,2	36,9	40,3	43,6	60,4
AQ-121208AL-HT	EFXE-121208AL-HT	10,8	16,2	21,6	24,3	29,7	32,4	35,1	48,6
AQ-121209AL-HT	EFXE-121209AL-HT	11,6	17,5	23,3	26,2	32,1	35,0	37,9	52,5
AR-122208AL-HT	EFXE-122208AL-HT	15,6	23,5	31,3	35,3	43,1	47,0	50,9	70,6
AR-122209AL-HT	EFXE-122209AL-HT	16,8	25,3	33,7	37,9	46,3	50,6	54,8	75,9
AR-123608AL-HT	EFXE-123608AL-HT	22,3	33,5	44,7	50,3	61,5	67,1	72,7	100,7
AQ-141409AL-HT	EFXE-141409AL-HT	13,7	20,6	27,5	31,0	37,9	41,3	44,8	62,0
AR-142009AL-HT	EFXE-142009AL-HT	17,1	25,7	34,2	38,5	47,1	51,4	55,7	77,1
AQ-161609AL-HT	EFXE-161609AL-HT	16,1	24,1	32,2	36,2	44,2	48,3	52,3	72,4
AR-162609AL-HT	EFXE-162609AL-HT	21,9	32,8	43,8	49,3	60,2	65,7	71,2	98,6
AR-163609AL-HT	EFXE-163609AL-HT	27,5	41,3	55,1	62,0	75,7	82,6	89,5	124,0
AR-165609AL-HT	EFXE-165609AL-HT	38,4	57,7	76,9	86,6	105,8	115,4	125,0	173,2
AQ-181810AL-HT	EFXE-181810AL-HT	19,7	29,6	39,5	44,4	54,3	59,2	64,2	88,8
AR-182810AL-HT	EFXE-182810AL-HT	26,1	39,1	52,2	58,7	71,8	78,3	84,8	117,5
AR-102311AL-HT	EFXE-102311AL-HT	18,2	27,3	36,5	41,0	50,1	54,7	59,3	82,1
AR-202311AL-HT	EFXE-202311AL-HT	26,1	39,1	52,2	58,7	71,7	78,3	84,8	117,4
AR-202318AL-HT	EFXE-202318AL-HT	35,9	53,9	71,8	80,8	98,8	107,8	116,8	161,7
AR-232811AL-HT	EFXE-232811AL-HT	31,6	47,5	63,3	71,3	87,1	95,0	103,0	142,6
AR-233311AL-HT	EFXE-233311AL-HT	35,3	52,9	70,6	79,4	97,0	105,9	114,7	158,8
AR-233318AL-HT	EFXE-233318AL-HT	47,5	71,3	95,1	107,0	130,8	142,7	154,6	214,1
AR-234011AL-HT	EFXE-234011AL-HT	40,2	60,4	80,5	90,6	110,7	120,8	130,9	181,2
AR-234023AL-HT	EFXE-234023AL-HT	62,2	93,3	124,5	140,0	171,2	186,7	202,3	280,1
AR-236011AL-HT	EFXE-236011AL-HT	54,1	81,2	108,3	121,9	148,9	162,5	176,0	243,8
AR-314011AL-HT	EFXE-314011AL-HT	48,6	72,9	97,2	109,3	133,6	145,8	157,9	218,7
AR-314014AL-HT	EFXE-314014AL-HT	54,9	82,4	109,9	123,7	151,2	164,9	178,7	247,4
AR-314018AL-HT	EFXE-314018AL-HT	63,8	95,7	127,6	143,5	175,4	191,4	207,3	287,1
AR-314023AL-HT	EFXE-314023AL-HT	73,5	110,3	147,1	165,5	202,3	220,7	239,1	331,0
AR-316011AL-HT	EFXE-316011AL-HT	64,0	96,0	128,1	144,1	176,1	192,1	208,1	288,2
AR-316018AL-HT	EFXE-316018AL-HT	82,7	124,1	165,5	186,2	227,6	248,3	268,9	372,4
AQ-606020AL-HT	EFXE-606020AL-HT	129,1	193,7	258,3	290,5	355,1	387,4	419,7	581,1

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Enclosure types (aluminium)		Maximum power dissipation (W) – Tamb. up to **50**°C							
		INTERNAL TEMP.60°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)	INTERNAL TEMP.130°C (T4/T135°C)
AQ-080806AL-HT	EFXE-080806AL-HT	2,6	5,2	7,8	9,1	11,7	13,0	14,3	20,8
AR-081306AL-HT	EFXE-081306AL-HT	3,5	7,0	10,6	12,3	15,9	17,7	19,4	28,3
AR-081806AL-HT	EFXE-081806AL-HT	4,4	8,9	13,3	15,5	20,0	22,2	24,5	35,6
AR-082505AL-HT	EFXE-082505AL-HT	5,4	10,9	16,4	19,2	24,7	27,4	30,1	43,9
AQ-101008AL-HT	EFXE-101008AL-HT	4,3	8,7	13,0	15,2	19,6	21,7	23,9	34,8
AR-101608AL-HT	EFXE-101608AL-HT	5,7	11,5	17,3	20,2	26,0	28,9	31,8	46,2
AR-102008AL-HT	EFXE-102008AL-HT	6,7	13,4	20,1	23,5	30,2	33,5	36,9	53,7
AQ-121208AL-HT	EFXE-121208AL-HT	5,4	10,8	16,2	18,9	24,3	27,0	29,7	43,2
AQ-121209AL-HT	EFXE-121209AL-HT	5,8	11,6	17,5	20,4	26,2	29,2	32,1	46,7
AR-122208AL-HT	EFXE-122208AL-HT	7,8	15,6	23,5	27,4	35,3	39,2	43,1	62,7
AR-122209AL-HT	EFXE-122209AL-HT	8,4	16,8	25,3	29,5	37,9	42,1	46,3	67,4
AR-123608AL-HT	EFXE-123608AL-HT	11,1	22,3	33,5	39,1	50,3	55,9	61,5	89,5
AQ-141409AL-HT	EFXE-141409AL-HT	6,8	13,7	20,6	24,1	31,0	34,4	37,9	55,1
AR-142009AL-HT	EFXE-142009AL-HT	8,5	17,1	25,7	30,0	38,5	42,8	47,1	68,5
AQ-161609AL-HT	EFXE-161609AL-HT	8,0	16,1	24,1	28,1	36,2	40,2	44,2	64,4
AR-162609AL-HT	EFXE-162609AL-HT	10,9	21,9	32,8	38,3	49,3	54,8	60,2	87,6
AR-163609AL-HT	EFXE-163609AL-HT	13,7	27,5	41,3	48,2	62,0	68,9	75,7	110,2
AR-165609AL-HT	EFXE-165609AL-HT	19,2	38,4	57,7	67,3	86,6	96,2	105,8	153,9
AQ-181810AL-HT	EFXE-181810AL-HT	9,8	19,7	29,6	34,5	44,4	49,3	54,3	79,0
AR-182810AL-HT	EFXE-182810AL-HT	13,0	26,1	39,1	45,7	58,7	65,2	71,8	104,4
AR-102311AL-HT	EFXE-102311AL-HT	9,1	18,2	27,3	31,9	41,0	45,6	50,1	73,0
AR-202311AL-HT	EFXE-202311AL-HT	13,0	26,1	39,1	45,6	58,7	65,2	71,7	104,4
AR-202318AL-HT	EFXE-202318AL-HT	17,9	35,9	53,9	62,8	80,8	89,8	98,8	143,7
AR-232811AL-HT	EFXE-232811AL-HT	15,8	31,6	47,5	55,4	71,3	79,2	87,1	126,7
AR-233311AL-HT	EFXE-233311AL-HT	17,6	35,3	52,9	61,7	79,4	88,2	97,0	141,2
AR-233318AL-HT	EFXE-233318AL-HT	23,7	47,5	71,3	83,2	107,0	118,9	130,8	190,3
AR-234011AL-HT	EFXE-234011AL-HT	20,1	40,2	60,4	70,5	90,6	100,7	110,7	161,1
AR-234023AL-HT	EFXE-234023AL-HT	31,1	62,2	93,3	108,9	140,0	155,6	171,2	249,0
AR-236011AL-HT	EFXE-236011AL-HT	27,0	54,1	81,2	94,8	121,9	135,4	148,9	216,7
AR-314011AL-HT	EFXE-314011AL-HT	24,3	48,6	72,9	85,0	109,3	121,5	133,6	194,4
AR-314014AL-HT	EFXE-314014AL-HT	27,4	54,9	82,4	96,2	123,7	137,4	151,2	219,9
AR-314018AL-HT	EFXE-314018AL-HT	31,9	63,8	95,7	111,6	143,5	159,5	175,4	255,2
AR-314023AL-HT	EFXE-314023AL-HT	36,7	73,5	110,3	128,7	165,5	183,9	202,3	294,2
AR-316011AL-HT	EFXE-316011AL-HT	32,0	64,0	96,0	112,0	144,1	160,1	176,1	256,2
AR-316018AL-HT	EFXE-316018AL-HT	41,3	82,7	124,1	144,8	186,2	206,9	227,6	331,0
AQ-606020AL-HT	EFXE-606020AL-HT	64,5	129,1	193,7	226,0	290,5	322,8	355,1	516,6

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Enclosure types (aluminium)		Maximum power dissipation (W) – Tamb. up to **55**°C							
		INTERNAL TEMP.65°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)	INTERNAL TEMP.130°C (T4/T135°C)
AQ-080806AL-HT	EFXE-080806AL-HT	2,6	3,9	6,5	7,8	10,4	11,7	13,0	19,5
AR-081306AL-HT	EFXE-081306AL-HT	3,5	5,3	8,8	10,6	14,1	15,9	17,7	26,5
AR-081806AL-HT	EFXE-081806AL-HT	4,4	6,6	11,1	13,3	17,8	20,0	22,2	33,4
AR-082505AL-HT	EFXE-082505AL-HT	5,4	8,2	13,7	16,4	21,9	24,7	27,4	41,1
AQ-101008AL-HT	EFXE-101008AL-HT	4,3	6,5	10,8	13,0	17,4	19,6	21,7	32,6
AR-101608AL-HT	EFXE-101608AL-HT	5,7	8,6	14,4	17,3	23,1	26,0	28,9	43,3
AR-102008AL-HT	EFXE-102008AL-HT	6,7	10,0	16,7	20,1	26,8	30,2	33,5	50,3
AQ-121208AL-HT	EFXE-121208AL-HT	5,4	8,1	13,5	16,2	21,6	24,3	27,0	40,5
AQ-121209AL-HT	EFXE-121209AL-HT	5,8	8,7	14,6	17,5	23,3	26,2	29,2	43,8
AR-122208AL-HT	EFXE-122208AL-HT	7,8	11,7	19,6	23,5	31,3	35,3	39,2	58,8
AR-122209AL-HT	EFXE-122209AL-HT	8,4	12,6	21,0	25,3	33,7	37,9	42,1	63,2
AR-123608AL-HT	EFXE-123608AL-HT	11,1	16,7	27,9	33,5	44,7	50,3	55,9	83,9
AQ-141409AL-HT	EFXE-141409AL-HT	6,8	10,3	17,2	20,6	27,5	31,0	34,4	51,7
AR-142009AL-HT	EFXE-142009AL-HT	8,5	12,8	21,4	25,7	34,2	38,5	42,8	64,3
AQ-161609AL-HT	EFXE-161609AL-HT	8,0	12,0	20,1	24,1	32,2	36,2	40,2	60,4
AR-162609AL-HT	EFXE-162609AL-HT	10,9	16,4	27,4	32,8	43,8	49,3	54,8	82,2
AR-163609AL-HT	EFXE-163609AL-HT	13,7	20,6	34,4	41,3	55,1	62,0	68,9	103,3
AR-165609AL-HT	EFXE-165609AL-HT	19,2	28,8	48,1	57,7	76,9	86,6	96,2	144,3
AQ-181810AL-HT	EFXE-181810AL-HT	9,8	14,8	24,6	29,6	39,5	44,4	49,3	74,0
AR-182810AL-HT	EFXE-182810AL-HT	13,0	19,5	32,6	39,1	52,2	58,7	65,2	97,9
AR-102311AL-HT	EFXE-102311AL-HT	9,1	13,6	22,8	27,3	36,5	41,0	45,6	68,4
AR-202311AL-HT	EFXE-202311AL-HT	13,0	19,5	32,6	39,1	52,2	58,7	65,2	97,9
AR-202318AL-HT	EFXE-202318AL-HT	17,9	26,9	44,9	53,9	71,8	80,8	89,8	134,7
AR-232811AL-HT	EFXE-232811AL-HT	15,8	23,7	39,6	47,5	63,3	71,3	79,2	118,8
AR-233311AL-HT	EFXE-233311AL-HT	17,6	26,4	44,1	52,9	70,6	79,4	88,2	132,3
AR-233318AL-HT	EFXE-233318AL-HT	23,7	35,6	59,4	71,3	95,1	107,0	118,9	178,4
AR-234011AL-HT	EFXE-234011AL-HT	20,1	30,2	50,3	60,4	80,5	90,6	100,7	151,0
AR-234023AL-HT	EFXE-234023AL-HT	31,1	46,6	77,8	93,3	124,5	140,0	155,6	233,4
AR-236011AL-HT	EFXE-236011AL-HT	27,0	40,6	67,7	81,2	108,3	121,9	135,4	203,1
AR-314011AL-HT	EFXE-314011AL-HT	24,3	36,4	60,7	72,9	97,2	109,3	121,5	182,3
AR-314014AL-HT	EFXE-314014AL-HT	27,4	41,2	68,7	82,4	109,9	123,7	137,4	206,2
AR-314018AL-HT	EFXE-314018AL-HT	31,9	47,8	79,7	95,7	127,6	143,5	159,5	239,2
AR-314023AL-HT	EFXE-314023AL-HT	36,7	55,1	91,9	110,3	147,1	165,5	183,9	275,8
AR-316011AL-HT	EFXE-316011AL-HT	32,0	48,0	80,0	96,0	128,1	144,1	160,1	240,1
AR-316018AL-HT	EFXE-316018AL-HT	41,3	62,0	103,4	124,1	165,5	186,2	206,9	310,3
AQ-606020AL-HT	EFXE-606020AL-HT	64,5	96,8	161,4	193,7	258,3	290,5	322,8	484,3

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Enclosure types (aluminium)		Maximum power dissipation (W) – Tamb. up to **60**°C						
		INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)	INTERNAL TEMP.130°C (T4/T135°C)
AQ-080806AL-HT	EFXE-080806AL-HT	2,6	5,2	6,5	9,1	10,4	11,7	18,2
AR-081306AL-HT	EFXE-081306AL-HT	3,5	7,0	8,8	12,3	14,1	15,9	24,7
AR-081806AL-HT	EFXE-081806AL-HT	4,4	8,9	11,1	15,5	17,8	20,0	31,1
AR-082505AL-HT	EFXE-082505AL-HT	5,4	10,9	13,7	19,2	21,9	24,7	38,4
AQ-101008AL-HT	EFXE-101008AL-HT	4,3	8,7	10,8	15,2	17,4	19,6	30,4
AR-101608AL-HT	EFXE-101608AL-HT	5,7	11,5	14,4	20,2	23,1	26,0	40,5
AR-102008AL-HT	EFXE-102008AL-HT	6,7	13,4	16,7	23,5	26,8	30,2	47,0
AQ-121208AL-HT	EFXE-121208AL-HT	5,4	10,8	13,5	18,9	21,6	24,3	37,8
AQ-121209AL-HT	EFXE-121209AL-HT	5,8	11,6	14,6	20,4	23,3	26,2	40,8
AR-122208AL-HT	EFXE-122208AL-HT	7,8	15,6	19,6	27,4	31,3	35,3	54,9
AR-122209AL-HT	EFXE-122209AL-HT	8,4	16,8	21,0	29,5	33,7	37,9	59,0
AR-123608AL-HT	EFXE-123608AL-HT	11,1	22,3	27,9	39,1	44,7	50,3	78,3
AQ-141409AL-HT	EFXE-141409AL-HT	6,8	13,7	17,2	24,1	27,5	31,0	48,2
AR-142009AL-HT	EFXE-142009AL-HT	8,5	17,1	21,4	30,0	34,2	38,5	60,0
AQ-161609AL-HT	EFXE-161609AL-HT	8,0	16,1	20,1	28,1	32,2	36,2	56,3
AR-162609AL-HT	EFXE-162609AL-HT	10,9	21,9	27,4	38,3	43,8	49,3	76,7
AR-163609AL-HT	EFXE-163609AL-HT	13,7	27,5	34,4	48,2	55,1	62,0	96,4
AR-165609AL-HT	EFXE-165609AL-HT	19,2	38,4	48,1	67,3	76,9	86,6	134,7
AQ-181810AL-HT	EFXE-181810AL-HT	9,8	19,7	24,6	34,5	39,5	44,4	69,1
AR-182810AL-HT	EFXE-182810AL-HT	13,0	26,1	32,6	45,7	52,2	58,7	91,4
AR-102311AL-HT	EFXE-102311AL-HT	9,1	18,2	22,8	31,9	36,5	41,0	63,8
AR-202311AL-HT	EFXE-202311AL-HT	13,0	26,1	32,6	45,6	52,2	58,7	91,3
AR-202318AL-HT	EFXE-202318AL-HT	17,9	35,9	44,9	62,8	71,8	80,8	125,7
AR-232811AL-HT	EFXE-232811AL-HT	15,8	31,6	39,6	55,4	63,3	71,3	110,9
AR-233311AL-HT	EFXE-233311AL-HT	17,6	35,3	44,1	61,7	70,6	79,4	123,5
AR-233318AL-HT	EFXE-233318AL-HT	23,7	47,5	59,4	83,2	95,1	107,0	166,5
AR-234011AL-HT	EFXE-234011AL-HT	20,1	40,2	50,3	70,5	80,5	90,6	141,0
AR-234023AL-HT	EFXE-234023AL-HT	31,1	62,2	77,8	108,9	124,5	140,0	217,9
AR-236011AL-HT	EFXE-236011AL-HT	27,0	54,1	67,7	94,8	108,3	121,9	189,6
AR-314011AL-HT	EFXE-314011AL-HT	24,3	48,6	60,7	85,0	97,2	109,3	170,1
AR-314014AL-HT	EFXE-314014AL-HT	27,4	54,9	68,7	96,2	109,9	123,7	192,4
AR-314018AL-HT	EFXE-314018AL-HT	31,9	63,8	79,7	111,6	127,6	143,5	223,3
AR-314023AL-HT	EFXE-314023AL-HT	36,7	73,5	91,9	128,7	147,1	165,5	257,4
AR-316011AL-HT	EFXE-316011AL-HT	32,0	64,0	80,0	112,0	128,1	144,1	224,1
AR-316018AL-HT	EFXE-316018AL-HT	41,3	82,7	103,4	144,8	165,5	186,2	289,6
AQ-606020AL-HT	EFXE-606020AL-HT	64,5	129,1	161,4	226,0	258,3	290,5	452,0

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Enclosure types (aluminium)		Maximum power dissipation (W) Tamb. up to **95**°C		
		INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)	INTERNAL TEMP.130°C (T4/T135°C)
AQ-080806AL-HT	EFXE-080806AL-HT	1,3	2,6	9,1
AR-081306AL-HT	EFXE-081306AL-HT	1,7	3,5	12,3
AR-081806AL-HT	EFXE-081806AL-HT	2,2	4,4	15,5
AR-082505AL-HT	EFXE-082505AL-HT	2,7	5,4	19,2
AQ-101008AL-HT	EFXE-101008AL-HT	2,1	4,3	15,2
AR-101608AL-HT	EFXE-101608AL-HT	2,8	5,7	20,2
AR-102008AL-HT	EFXE-102008AL-HT	3,3	6,7	23,5
AQ-121208AL-HT	EFXE-121208AL-HT	2,7	5,4	18,9
AQ-121209AL-HT	EFXE-121209AL-HT	2,9	5,8	20,4
AR-122208AL-HT	EFXE-122208AL-HT	3,9	7,8	27,4
AR-122209AL-HT	EFXE-122209AL-HT	4,2	8,4	29,5
AR-123608AL-HT	EFXE-123608AL-HT	5,5	11,1	39,1
AQ-141409AL-HT	EFXE-141409AL-HT	3,4	6,8	24,1
AR-142009AL-HT	EFXE-142009AL-HT	4,2	8,5	30,0
AQ-161609AL-HT	EFXE-161609AL-HT	4,0	8,0	28,1
AR-162609AL-HT	EFXE-162609AL-HT	5,4	10,9	38,3
AR-163609AL-HT	EFXE-163609AL-HT	6,8	13,7	48,2
AR-165609AL-HT	EFXE-165609AL-HT	9,6	19,2	67,3
AQ-181810AL-HT	EFXE-181810AL-HT	4,9	9,8	34,5
AR-182810AL-HT	EFXE-182810AL-HT	6,5	13,0	45,7
AR-102311AL-HT	EFXE-102311AL-HT	4,5	9,1	31,9
AR-202311AL-HT	EFXE-202311AL-HT	6,5	13,0	45,6
AR-202318AL-HT	EFXE-202318AL-HT	8,9	17,9	62,8
AR-232811AL-HT	EFXE-232811AL-HT	7,9	15,8	55,4
AR-233311AL-HT	EFXE-233311AL-HT	8,8	17,6	61,7
AR-233318AL-HT	EFXE-233318AL-HT	11,8	23,7	83,2
AR-234011AL-HT	EFXE-234011AL-HT	10,0	20,1	70,5
AR-234023AL-HT	EFXE-234023AL-HT	15,5	31,1	108,9
AR-236011AL-HT	EFXE-236011AL-HT	13,5	27,0	94,8
AR-314011AL-HT	EFXE-314011AL-HT	12,1	24,3	85,0
AR-314014AL-HT	EFXE-314014AL-HT	13,7	27,4	96,2
AR-314018AL-HT	EFXE-314018AL-HT	15,9	31,9	111,6
AR-314023AL-HT	EFXE-314023AL-HT	18,3	36,7	128,7
AR-316011AL-HT	EFXE-316011AL-HT	16,0	32,0	112,0
AR-316018AL-HT	EFXE-316018AL-HT	20,6	41,3	144,8
AQ-606020AL-HT	EFXE-606020AL-HT	32,2	64,5	226,0

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Power dissipation – Glass fiber reinforced polyester resin enclosures

Enclosure types (polyester)		Maximum power dissipation (W) – Tamb. up to **40**°C						
		INTERNAL TEMP.60°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
AQ-080806P	EFE-080806	3,4	5,2	6,9	7,8	9,5	10,4	11,3
AQ-080808P	EFE-080808	4,5	6,8	9,1	10,2	12,5	13,6	14,7
AR-081106P	EFE-081106	4,2	6,4	8,5	9,6	11,7	12,8	13,8
AR-081606P	EFE-081606	5,7	8,6	11,5	13,0	15,9	17,3	18,8
AR-081906P	EFE-081906	6,4	9,6	12,8	14,4	17,6	19,2	20,8
AQ-121209P	EFE-121209	7,9	11,9	15,9	17,9	21,9	23,9	25,9
AR-122209P	EFE-122209	10,8	16,2	21,6	24,3	29,7	32,4	35,1
AQ-161609P	EFE-161609	10,3	15,5	20,7	23,3	28,5	31,1	33,7
AR-162609P	EFE-162609	13,4	20,1	26,8	30,1	36,8	40,2	43,5
AR-163609P	EFE-163609	16,2	24,3	32,4	36,4	44,5	48,6	52,6
AQ-252612P	EFE-252612	18,8	28,2	37,6	42,3	51,7	56,4	61,1
AQ-252616P	EFE-252616	21,7	32,6	43,5	49,0	59,9	65,3	70,8
AR-254012P	EFE-254012	23,9	35,9	47,9	53,9	65,9	71,8	77,8
AR-254016P	EFE-254016	27,4	41,2	54,9	61,8	75,6	82,4	89,3
AR-256012P	EFE-256012	29,0	43,5	58,0	65,3	79,8	87,1	94,3
AQ-414012P	EFE-414012	29,1	43,6	58,2	65,5	80,0	87,3	94,6
AQ-414016P	EFE-414016	32,9	49,4	65,9	74,1	90,6	98,8	107,0

Enclosure types (polyester)		Maximum power dissipation (W) – Tamb. up to **50**°C						
		INTERNAL TEMP.60°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
AQ-080806P	EFE-080806	1,7	3,4	5,2	6,0	7,8	8,7	9,5
AQ-080808P	EFE-080808	2,2	4,5	6,8	7,9	10,2	11,3	12,5
AR-081106P	EFE-081106	2,1	4,2	6,4	7,4	9,6	10,6	11,7
AR-081606P	EFE-081606	2,8	5,7	8,6	10,1	13,0	14,4	15,9
AR-081906P	EFE-081906	3,2	6,4	9,6	11,2	14,4	16,0	17,6
AQ-121209P	EFE-121209	3,9	7,9	11,9	13,9	17,9	19,9	21,9
AR-122209P	EFE-122209	5,4	10,8	16,2	18,9	24,3	27,0	29,7
AQ-161609P	EFE-161609	5,1	10,3	15,5	18,1	23,3	25,9	28,5
AR-162609P	EFE-162609	6,7	13,4	20,1	23,4	30,1	33,5	36,8
AR-163609P	EFE-163609	8,1	16,2	24,3	28,3	36,4	40,5	44,5
AQ-252612P	EFE-252612	9,4	18,8	28,2	32,9	42,3	47,0	51,7
AQ-252616P	EFE-252616	10,8	21,7	32,6	38,1	49,0	54,4	59,9
AR-254012P	EFE-254012	11,9	23,9	35,9	41,9	53,9	59,9	65,9
AR-254016P	EFE-254016	13,7	27,4	41,2	48,1	61,8	68,7	75,6
AR-256012P	EFE-256012	14,5	29,0	43,5	50,8	65,3	72,6	79,8
AQ-414012P	EFE-414012	14,5	29,1	43,6	50,9	65,5	72,7	80,0
AQ-414016P	EFE-414016	16,4	32,9	49,4	57,6	74,1	82,3	90,6

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Enclosure types (polyester)		Maximum power dissipation (W) – Tamb. up to **55**°C						
		INTERNAL TEMP.65°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
AQ-080806P	EFE-080806	1,7	2,6	4,3	5,2	6,9	7,8	8,7
AQ-080808P	EFE-080808	2,2	3,4	5,6	6,8	9,1	10,2	11,3
AR-081106P	EFE-081106	2,1	3,2	5,3	6,4	8,5	9,6	10,6
AR-081606P	EFE-081606	2,8	4,3	7,2	8,6	11,5	13,0	14,4
AR-081906P	EFE-081906	3,2	4,8	8,0	9,6	12,8	14,4	16,0
AQ-121209P	EFE-121209	3,9	5,9	9,9	11,9	15,9	17,9	19,9
AR-122209P	EFE-122209	5,4	8,1	13,5	16,2	21,6	24,3	27,0
AQ-161609P	EFE-161609	5,1	7,7	12,9	15,5	20,7	23,3	25,9
AR-162609P	EFE-162609	6,7	10,0	16,7	20,1	26,8	30,1	33,5
AR-163609P	EFE-163609	8,1	12,1	20,2	24,3	32,4	36,4	40,5
AQ-252612P	EFE-252612	9,4	14,1	23,5	28,2	37,6	42,3	47,0
AQ-252616P	EFE-252616	10,8	16,3	27,2	32,6	43,5	49,0	54,4
AR-254012P	EFE-254012	11,9	17,9	29,9	35,9	47,9	53,9	59,9
AR-254016P	EFE-254016	13,7	20,6	34,3	41,2	54,9	61,8	68,7
AR-256012P	EFE-256012	14,5	21,7	36,3	43,5	58,0	65,3	72,6
AQ-414012P	EFE-414012	14,5	21,8	36,3	43,6	58,2	65,5	72,7
AQ-414016P	EFE-414016	16,4	24,7	41,1	49,4	65,9	74,1	82,3

Enclosure types (polyester)		Maximum power dissipation (W) – Tamb. up to **60**°C					
		INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
AQ-080806P	EFE-080806	1,7	3,4	4,3	6,0	6,9	7,8
AQ-080808P	EFE-080808	2,2	4,5	5,6	7,9	9,1	10,2
AR-081106P	EFE-081106	2,1	4,2	5,3	7,4	8,5	9,6
AR-081606P	EFE-081606	2,8	5,7	7,2	10,1	11,5	13,0
AR-081906P	EFE-081906	3,2	6,4	8,0	11,2	12,8	14,4
AQ-121209P	EFE-121209	3,9	7,9	9,9	13,9	15,9	17,9
AR-122209P	EFE-122209	5,4	10,8	13,5	18,9	21,6	24,3
AQ-161609P	EFE-161609	5,1	10,3	12,9	18,1	20,7	23,3
AR-162609P	EFE-162609	6,7	13,4	16,7	23,4	26,8	30,1
AR-163609P	EFE-163609	8,1	16,2	20,2	28,3	32,4	36,4
AQ-252612P	EFE-252612	9,4	18,8	23,5	32,9	37,6	42,3
AQ-252616P	EFE-252616	10,8	21,7	27,2	38,1	43,5	49,0
AR-254012P	EFE-254012	11,9	23,9	29,9	41,9	47,9	53,9
AR-254016P	EFE-254016	13,7	27,4	34,3	48,1	54,9	61,8
AR-256012P	EFE-256012	14,5	29,0	36,3	50,8	58,0	65,3
AQ-414012P	EFE-414012	14,5	29,1	36,3	50,9	58,2	65,5
AQ-414016P	EFE-414016	16,4	32,9	41,1	57,6	65,9	74,1

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Enclosure types (polyester)		Maximum power dissipation (W) – Tamb. up to **95**°C	
		INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
AQ-080806P	EFE-080806	0,8	1,7
AQ-080808P	EFE-080808	1,1	2,2
AR-081106P	EFE-081106	1,0	2,1
AR-081606P	EFE-081606	1,4	2,8
AR-081906P	EFE-081906	1,6	3,2
AQ-121209P	EFE-121209	1,9	3,9
AR-122209P	EFE-122209	2,7	5,4
AQ-161609P	EFE-161609	2,5	5,1
AR-162609P	EFE-162609	3,3	6,7
AR-163609P	EFE-163609	4,0	8,1
AQ-252612P	EFE-252612	4,7	9,4
AQ-252616P	EFE-252616	5,4	10,8
AR-254012P	EFE-254012	5,9	11,9
AR-254016P	EFE-254016	6,8	13,7
AR-256012P	EFE-256012	7,2	14,5
AQ-414012P	EFE-414012	7,2	14,5
AQ-414016P	EFE-414016	8,2	16,4

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Power dissipation – Aluminum alloy enclosures

Enclosure types (aluminium)		Maximum power dissipation (W) – Tamb. up to **40**°C						
		INTERNAL TEMP.60°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
AQ-080806AL	EFXE-080806AL	5,2	7,8	10,4	11,7	14,3	15,6	16,9
AR-081306AL	EFXE-081306AL	7,0	10,6	14,1	15,9	19,4	21,2	23,0
AR-081806AL	EFXE-081806AL	8,9	13,3	17,8	20,0	24,5	26,7	28,9
AR-081808AL	EFXE-081808AL	11,0	16,5	22,1	24,8	30,4	33,1	35,9
AR-082505AL	EFXE-082505AL	10,7	16,1	21,4	24,1	29,5	32,2	34,8
AR-082508AL	EFXE-082508AL	14,2	21,4	28,5	32,1	39,2	42,8	46,4
AQ-101008AL	EFXE-101008AL	8,7	13,0	17,4	19,6	23,9	26,1	28,3
AR-101508AL	EFXE-101508AL	11,1	16,6	22,2	24,9	30,5	33,3	36,0
AR-101608AL	EFXE-101608AL	11,5	17,3	23,1	26,0	31,8	34,7	37,6
AR-102008AL	EFXE-102008AL	13,4	20,1	26,8	30,2	36,9	40,3	43,6
AQ-121208AL	EFXE-121208AL	10,8	16,2	21,6	24,3	29,7	32,4	35,1
AR-122209AL	EFXE-122209AL	16,8	25,3	33,7	37,9	46,3	50,6	54,8
AQ-141409AL	EFXE-141409AL	13,7	20,6	27,5	31,0	37,9	41,3	44,8
AR-142009AL	EFXE-142009AL	17,1	25,7	34,2	38,5	47,1	51,4	55,7
AQ-161609AL	EFXE-161609AL	17,2	25,8	34,4	38,7	47,3	51,6	55,9
AR-162410AL	EFXE-162410AL	22,1	33,1	44,2	49,7	60,8	66,3	71,8
AR-162609AL	EFXE-162609AL	21,9	32,8	43,8	49,3	60,2	65,7	71,2
AQ-181810AL	EFXE-181810AL	19,7	29,6	39,5	44,4	54,3	59,2	64,2
AR-182810AL	EFXE-182810AL	26,1	39,1	52,2	58,7	71,8	78,3	84,8
AR-202311AL	EFXE-202311AL	25,8	38,7	51,6	58,0	71,0	77,4	83,9
AR-202318AL	EFXE-202318AL	35,5	53,3	71,1	80,0	97,8	106,7	115,6
AR-232811AL	EFXE-232811AL	31,6	47,5	63,3	71,3	87,1	95,0	103,0
AR-233312AL	EFXE-233312AL	37,0	55,6	74,1	83,4	101,9	111,2	120,5
AR-233318AL	EFXE-233318AL	47,5	71,3	95,1	107,0	130,8	142,7	154,6

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Enclosure types (aluminium)		Maximum power dissipation (W) – Tamb. up to **50**°C						
		INTERNAL TEMP.60°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
AQ-080806AL	EFXE-080806AL	2,6	5,2	7,8	9,1	11,7	13,0	14,3
AR-081306AL	EFXE-081306AL	3,5	7,0	10,6	12,3	15,9	17,7	19,4
AR-081806AL	EFXE-081806AL	4,4	8,9	13,3	15,5	20,0	22,2	24,5
AR-081808AL	EFXE-081808AL	5,5	11,0	16,5	19,3	24,8	27,6	30,4
AR-082505AL	EFXE-082505AL	5,3	10,7	16,1	18,7	24,1	26,8	29,5
AR-082508AL	EFXE-082508AL	7,1	14,2	21,4	24,9	32,1	35,7	39,2
AQ-101008AL	EFXE-101008AL	4,3	8,7	13,0	15,2	19,6	21,7	23,9
AR-101508AL	EFXE-101508AL	5,5	11,1	16,6	19,4	24,9	27,7	30,5
AR-101608AL	EFXE-101608AL	5,7	11,5	17,3	20,2	26,0	28,9	31,8
AR-102008AL	EFXE-102008AL	6,7	13,4	20,1	23,5	30,2	33,5	36,9
AQ-121208AL	EFXE-121208AL	5,4	10,8	16,2	18,9	24,3	27,0	29,7
AR-122209AL	EFXE-122209AL	8,4	16,8	25,3	29,5	37,9	42,1	46,3
AQ-141409AL	EFXE-141409AL	6,8	13,7	20,6	24,1	31,0	34,4	37,9
AR-142009AL	EFXE-142009AL	8,5	17,1	25,7	30,0	38,5	42,8	47,1
AQ-161609AL	EFXE-161609AL	8,6	17,2	25,8	30,1	38,7	43,0	47,3
AR-162410AL	EFXE-162410AL	11,0	22,1	33,1	38,7	49,7	55,3	60,8
AR-162609AL	EFXE-162609AL	10,9	21,9	32,8	38,3	49,3	54,8	60,2
AQ-181810AL	EFXE-181810AL	9,8	19,7	29,6	34,5	44,4	49,3	54,3
AR-182810AL	EFXE-182810AL	13,0	26,1	39,1	45,7	58,7	65,2	71,8
AR-202311AL	EFXE-202311AL	12,9	25,8	38,7	45,1	58,0	64,5	71,0
AR-202318AL	EFXE-202318AL	17,7	35,5	53,3	62,2	80,0	88,9	97,8
AR-232811AL	EFXE-232811AL	15,8	31,6	47,5	55,4	71,3	79,2	87,1
AR-233312AL	EFXE-233312AL	18,5	37,0	55,6	64,8	83,4	92,7	101,9
AR-233318AL	EFXE-233318AL	23,7	47,5	71,3	83,2	107,0	118,9	130,8

Enclosure types (aluminium)		Maximum power dissipation (W) – Tamb. up to **55**°C						
		INTERNAL TEMP.65°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
AQ-080806AL	EFXE-080806AL	2,6	3,9	6,5	7,8	10,4	11,7	13,0
AR-081306AL	EFXE-081306AL	3,5	5,3	8,8	10,6	14,1	15,9	17,7
AR-081806AL	EFXE-081806AL	4,4	6,6	11,1	13,3	17,8	20,0	22,2
AR-081808AL	EFXE-081808AL	5,5	8,2	13,8	16,5	22,1	24,8	27,6
AR-082505AL	EFXE-082505AL	5,3	8,0	13,4	16,1	21,4	24,1	26,8
AR-082508AL	EFXE-082508AL	7,1	10,7	17,8	21,4	28,5	32,1	35,7
AQ-101008AL	EFXE-101008AL	4,3	6,5	10,8	13,0	17,4	19,6	21,7
AR-101508AL	EFXE-101508AL	5,5	8,3	13,8	16,6	22,2	24,9	27,7
AR-101608AL	EFXE-101608AL	5,7	8,6	14,4	17,3	23,1	26,0	28,9
AR-102008AL	EFXE-102008AL	6,7	10,0	16,7	20,1	26,8	30,2	33,5
AQ-121208AL	EFXE-121208AL	5,4	8,1	13,5	16,2	21,6	24,3	27,0
AR-122209AL	EFXE-122209AL	8,4	12,6	21,0	25,3	33,7	37,9	42,1
AQ-141409AL	EFXE-141409AL	6,8	10,3	17,2	20,6	27,5	31,0	34,4
AR-142009AL	EFXE-142009AL	8,5	12,8	21,4	25,7	34,2	38,5	42,8
AQ-161609AL	EFXE-161609AL	8,6	12,9	21,5	25,8	34,4	38,7	43,0
AR-162410AL	EFXE-162410AL	11,0	16,5	27,6	33,1	44,2	49,7	55,3
AR-162609AL	EFXE-162609AL	10,9	16,4	27,4	32,8	43,8	49,3	54,8
AQ-181810AL	EFXE-181810AL	9,8	14,8	24,6	29,6	39,5	44,4	49,3
AR-182810AL	EFXE-182810AL	13,0	19,5	32,6	39,1	52,2	58,7	65,2
AR-202311AL	EFXE-202311AL	12,9	19,3	32,2	38,7	51,6	58,0	64,5
AR-202318AL	EFXE-202318AL	17,7	26,6	44,4	53,3	71,1	80,0	88,9
AR-232811AL	EFXE-232811AL	15,8	23,7	39,6	47,5	63,3	71,3	79,2
AR-233312AL	EFXE-233312AL	18,5	27,8	46,3	55,6	74,1	83,4	92,7
AR-233318AL	EFXE-233318AL	23,7	35,6	59,4	71,3	95,1	107,0	118,9

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Enclosure types (aluminium)		Maximum power dissipation (W) – Tamb. up to **60**°C					
		INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
AQ-080806AL	EFXE-080806AL	2,6	5,2	6,5	9,1	10,4	11,7
AR-081306AL	EFXE-081306AL	3,5	7,0	8,8	12,3	14,1	15,9
AR-081806AL	EFXE-081806AL	4,4	8,9	11,1	15,5	17,8	20,0
AR-081808AL	EFXE-081808AL	5,5	11,0	13,8	19,3	22,1	24,8
AR-082505AL	EFXE-082505AL	5,3	10,7	13,4	18,7	21,4	24,1
AR-082508AL	EFXE-082508AL	7,1	14,2	17,8	24,9	28,5	32,1
AQ-101008AL	EFXE-101008AL	4,3	8,7	10,8	15,2	17,4	19,6
AR-101508AL	EFXE-101508AL	5,5	11,1	13,8	19,4	22,2	24,9
AR-101608AL	EFXE-101608AL	5,7	11,5	14,4	20,2	23,1	26,0
AR-102008AL	EFXE-102008AL	6,7	13,4	16,7	23,5	26,8	30,2
AQ-121208AL	EFXE-121208AL	5,4	10,8	13,5	18,9	21,6	24,3
AR-122209AL	EFXE-122209AL	8,4	16,8	21,0	29,5	33,7	37,9
AQ-141409AL	EFXE-141409AL	6,8	13,7	17,2	24,1	27,5	31,0
AR-142009AL	EFXE-142009AL	8,5	17,1	21,4	30,0	34,2	38,5
AQ-161609AL	EFXE-161609AL	8,6	17,2	21,5	30,1	34,4	38,7
AR-162410AL	EFXE-162410AL	11,0	22,1	27,6	38,7	44,2	49,7
AR-162609AL	EFXE-162609AL	10,9	21,9	27,4	38,3	43,8	49,3
AQ-181810AL	EFXE-181810AL	9,8	19,7	24,6	34,5	39,5	44,4
AR-182810AL	EFXE-182810AL	13,0	26,1	32,6	45,7	52,2	58,7
AR-202311AL	EFXE-202311AL	12,9	25,8	32,2	45,1	51,6	58,0
AR-202318AL	EFXE-202318AL	17,7	35,5	44,4	62,2	71,1	80,0
AR-232811AL	EFXE-232811AL	15,8	31,6	39,6	55,4	63,3	71,3
AR-233312AL	EFXE-233312AL	18,5	37,0	46,3	64,8	74,1	83,4
AR-233318AL	EFXE-233318AL	23,7	47,5	59,4	83,2	95,1	107,0

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Enclosure types (aluminium)		Maximum power dissipation (W) – Tamb. up to **95**°C	
		INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
AQ-080806AL	EFXE-080806AL	1,3	2,6
AR-081306AL	EFXE-081306AL	1,7	3,5
AR-081806AL	EFXE-081806AL	2,2	4,4
AR-081808AL	EFXE-081808AL	2,7	5,5
AR-082505AL	EFXE-082505AL	2,6	5,3
AR-082508AL	EFXE-082508AL	3,5	7,1
AQ-101008AL	EFXE-101008AL	2,1	4,3
AR-101508AL	EFXE-101508AL	2,7	5,5
AR-101608AL	EFXE-101608AL	2,8	5,7
AR-102008AL	EFXE-102008AL	3,3	6,7
AQ-121208AL	EFXE-121208AL	2,7	5,4
AR-122209AL	EFXE-122209AL	4,2	8,4
AQ-141409AL	EFXE-141409AL	3,4	6,8
AR-142009AL	EFXE-142009AL	4,2	8,5
AQ-161609AL	EFXE-161609AL	4,3	8,6
AR-162410AL	EFXE-162410AL	5,5	11,0
AR-162609AL	EFXE-162609AL	5,4	10,9
AQ-181810AL	EFXE-181810AL	4,9	9,8
AR-182810AL	EFXE-182810AL	6,5	13,0
AR-202311AL	EFXE-202311AL	6,4	12,9
AR-202318AL	EFXE-202318AL	8,8	17,7
AR-232811AL	EFXE-232811AL	7,9	15,8
AR-233312AL	EFXE-233312AL	9,2	18,5
AR-233318AL	EFXE-233318AL	11,8	23,7

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Power dissipation – Stainless steel enclosures SB series

Enclosure types (stainless steel)		Maximum power dissipation (W) – Tamb. up to **40**°C						
		INTERNAL TEMP.60°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
SB-101210	EFXE-101210SB	5,5	8,3	11,1	12,5	15,3	16,7	18,1
SB-151510	EFXE-151510SB	8,0	12,0	16,0	18,0	22,0	24,0	26,1
SB-142013	EFXE-142013SB	10,4	15,7	20,9	23,5	28,8	31,4	34,0
SB-202010	EFXE-202010SB	10,7	16,1	21,4	24,1	29,5	32,2	34,8
SB-202016	EFXE-202016SB	13,9	20,8	27,8	31,3	38,3	41,7	45,2
SB-202713	EFXE-202713SB	14,4	21,6	28,9	32,5	39,7	43,3	46,9
SB-272713	EFXE-272713SB	16,7	25,1	33,5	37,7	46,0	50,2	54,4
SB-203016	EFXE-203016SB	17,1	25,7	34,3	38,6	47,2	51,4	55,7
SB-273513	EFXE-273513SB	19,2	28,9	38,5	43,3	53,0	57,8	62,6
SB-282816	EFXE-282816SB	19,3	29,0	38,7	43,6	53,3	58,1	63,0
SB-204016	EFXE-204016SB	20,2	30,3	40,4	45,5	55,6	60,6	65,7
SB-353516	EFXE-353516SB	24,4	36,6	48,8	54,9	67,1	73,2	79,3
SB-282827	EFXE-282827SB	26,2	39,3	52,5	59,0	72,2	78,7	85,3
SB-355016	EFXE-355016SB	29,7	44,5	59,4	66,8	81,7	89,1	96,6
SB-383816	EFXE-383816SB	26,6	39,9	53,2	59,8	73,1	79,8	86,5
SB-384516	EFXE-384516SB	29,1	43,7	58,3	65,6	80,2	87,5	94,8
SB-385716	EFXE-385716SB	33,4	50,1	66,8	75,2	91,9	100,3	108,7
SB-505016	EFXE-505016SB	35,8	53,8	71,7	80,7	98,6	107,6	116,6
SB-383827	EFXE-383827SB	35,1	52,7	70,2	79,0	96,6	105,4	114,2
SB-575716	EFXE-575716SB	41,5	62,3	83,1	93,5	114,3	124,7	135,1
SB-577620	EFXE-577620SB	53,9	80,9	107,9	121,3	148,3	161,8	175,3
SB-575730	EFXE-575730SB	55,8	83,7	111,6	125,6	153,5	167,5	181,4
SB-769520	EFXE-769520SB	72,2	108,3	144,4	162,4	198,5	216,6	234,6
SB-1258040	EFXE-1258040SB	72,2	108,3	144,4	162,4	198,5	216,6	234,6

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Enclosure types (Stainless steel)		Maximum power dissipation (W) – Tamb. up to **50**°C						
		INTERNAL TEMP.60°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
SB-101210	EFXE-101210SB	2,7	5,5	8,3	9,7	12,5	13,9	15,3
SB-151510	EFXE-151510SB	4,0	8,0	12,0	14,0	18,0	20,0	22,0
SB-142013	EFXE-142013SB	5,2	10,4	15,7	18,3	23,5	26,2	28,8
SB-202010	EFXE-202010SB	5,3	10,7	16,1	18,7	24,1	26,8	29,5
SB-202016	EFXE-202016SB	6,9	13,9	20,8	24,3	31,3	34,8	38,3
SB-202713	EFXE-202713SB	7,2	14,4	21,6	25,2	32,5	36,1	39,7
SB-272713	EFXE-272713SB	8,3	16,7	25,1	29,3	37,7	41,8	46,0
SB-203016	EFXE-203016SB	8,5	17,1	25,7	30,0	38,6	42,9	47,2
SB-273513	EFXE-273513SB	9,6	19,2	28,9	33,7	43,3	48,2	53,0
SB-282816	EFXE-282816SB	9,6	19,3	29,0	33,9	43,6	48,4	53,3
SB-204016	EFXE-204016SB	10,1	20,2	30,3	35,4	45,5	50,5	55,6
SB-353516	EFXE-353516SB	12,2	24,4	36,6	42,7	54,9	61,0	67,1
SB-282827	EFXE-282827SB	13,1	26,2	39,3	45,9	59,0	65,6	72,2
SB-355016	EFXE-355016SB	14,8	29,7	44,5	52,0	66,8	74,3	81,7
SB-383816	EFXE-383816SB	13,3	26,6	39,9	46,5	59,8	66,5	73,1
SB-384516	EFXE-384516SB	14,5	29,1	43,7	51,0	65,6	72,9	80,2
SB-385716	EFXE-385716SB	16,7	33,4	50,1	58,5	75,2	83,6	91,9
SB-505016	EFXE-505016SB	17,9	35,8	53,8	62,7	80,7	89,7	98,6
SB-383827	EFXE-383827SB	17,5	35,1	52,7	61,4	79,0	87,8	96,6
SB-575716	EFXE-575716SB	20,7	41,5	62,3	72,7	93,5	103,9	114,3
SB-577620	EFXE-577620SB	26,9	53,9	80,9	94,4	121,3	134,8	148,3
SB-575730	EFXE-575730SB	27,9	55,8	83,7	97,7	125,6	139,5	153,5
SB-769520	EFXE-769520SB	36,1	72,2	108,3	126,3	162,4	180,5	198,5
SB-1258040	EFXE-1258040SB	36,1	72,2	108,3	126,3	162,4	180,5	198,5

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Enclosure types (Stainless steel)		Maximum power dissipation (W) – Tamb. up to **55**°C						
		INTERNAL TEMP.65°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
SB-101210	EFXE-101210SB	2,7	4,1	6,9	8,3	11,1	12,5	13,9
SB-151510	EFXE-151510SB	4,0	6,0	10,0	12,0	16,0	18,0	20,0
SB-142013	EFXE-142013SB	5,2	7,8	13,1	15,7	20,9	23,5	26,2
SB-202010	EFXE-202010SB	5,3	8,0	13,4	16,1	21,4	24,1	26,8
SB-202016	EFXE-202016SB	6,9	10,4	17,4	20,8	27,8	31,3	34,8
SB-202713	EFXE-202713SB	7,2	10,8	18,0	21,6	28,9	32,5	36,1
SB-272713	EFXE-272713SB	8,3	12,5	20,9	25,1	33,5	37,7	41,8
SB-203016	EFXE-203016SB	8,5	12,8	21,4	25,7	34,3	38,6	42,9
SB-273513	EFXE-273513SB	9,6	14,4	24,1	28,9	38,5	43,3	48,2
SB-282816	EFXE-282816SB	9,6	14,5	24,2	29,0	38,7	43,6	48,4
SB-204016	EFXE-204016SB	10,1	15,1	25,2	30,3	40,4	45,5	50,5
SB-353516	EFXE-353516SB	12,2	18,3	30,5	36,6	48,8	54,9	61,0
SB-282827	EFXE-282827SB	13,1	19,6	32,8	39,3	52,5	59,0	65,6
SB-355016	EFXE-355016SB	14,8	22,2	37,1	44,5	59,4	66,8	74,3
SB-383816	EFXE-383816SB	13,3	19,9	33,2	39,9	53,2	59,8	66,5
SB-384516	EFXE-384516SB	14,5	21,8	36,4	43,7	58,3	65,6	72,9
SB-385716	EFXE-385716SB	16,7	25,0	41,8	50,1	66,8	75,2	83,6
SB-505016	EFXE-505016SB	17,9	26,9	44,8	53,8	71,7	80,7	89,7
SB-383827	EFXE-383827SB	17,5	26,3	43,9	52,7	70,2	79,0	87,8
SB-575716	EFXE-575716SB	20,7	31,1	51,9	62,3	83,1	93,5	103,9
SB-577620	EFXE-577620SB	26,9	40,4	67,4	80,9	107,9	121,3	134,8
SB-575730	EFXE-575730SB	27,9	41,8	69,7	83,7	111,6	125,6	139,5
SB-769520	EFXE-769520SB	36,1	54,1	90,2	108,3	144,4	162,4	180,5
SB-1258040	EFXE-1258040SB	36,1	54,1	90,2	108,3	144,4	162,4	180,5

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Enclosure types (Stainless steel)		Maximum power dissipation (W) – Tamb. up to **60**°C					
		INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
SB-101210	EFXE-101210SB	2,7	5,5	6,9	9,7	11,1	12,5
SB-151510	EFXE-151510SB	4,0	8,0	10,0	14,0	16,0	18,0
SB-142013	EFXE-142013SB	5,2	10,4	13,1	18,3	20,9	23,5
SB-202010	EFXE-202010SB	5,3	10,7	13,4	18,7	21,4	24,1
SB-202016	EFXE-202016SB	6,9	13,9	17,4	24,3	27,8	31,3
SB-202713	EFXE-202713SB	7,2	14,4	18,0	25,2	28,9	32,5
SB-272713	EFXE-272713SB	8,3	16,7	20,9	29,3	33,5	37,7
SB-203016	EFXE-203016SB	8,5	17,1	21,4	30,0	34,3	38,6
SB-273513	EFXE-273513SB	9,6	19,2	24,1	33,7	38,5	43,3
SB-282816	EFXE-282816SB	9,6	19,3	24,2	33,9	38,7	43,6
SB-204016	EFXE-204016SB	10,1	20,2	25,2	35,4	40,4	45,5
SB-353516	EFXE-353516SB	12,2	24,4	30,5	42,7	48,8	54,9
SB-282827	EFXE-282827SB	13,1	26,2	32,8	45,9	52,5	59,0
SB-355016	EFXE-355016SB	14,8	29,7	37,1	52,0	59,4	66,8
SB-383816	EFXE-383816SB	13,3	26,6	33,2	46,5	53,2	59,8
SB-384516	EFXE-384516SB	14,5	29,1	36,4	51,0	58,3	65,6
SB-385716	EFXE-385716SB	16,7	33,4	41,8	58,5	66,8	75,2
SB-505016	EFXE-505016SB	17,9	35,8	44,8	62,7	71,7	80,7
SB-383827	EFXE-383827SB	17,5	35,1	43,9	61,4	70,2	79,0
SB-575716	EFXE-575716SB	20,7	41,5	51,9	72,7	83,1	93,5
SB-577620	EFXE-577620SB	26,9	53,9	67,4	94,4	107,9	121,3
SB-575730	EFXE-575730SB	27,9	55,8	69,7	97,7	111,6	125,6
SB-769520	EFXE-769520SB	36,1	72,2	90,2	126,3	144,4	162,4
SB-1258040	EFXE-1258040SB	36,1	72,2	90,2	126,3	144,4	162,4

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Enclosure types (Stainless steel)		Maximum power dissipation (W) – Tamb. up to **95**°C	
		INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
SB-101210	EFXE-101210SB	1,3	2,7
SB-151510	EFXE-151510SB	2,0	4,0
SB-142013	EFXE-142013SB	2,6	5,2
SB-202010	EFXE-202010SB	2,6	5,3
SB-202016	EFXE-202016SB	3,4	6,9
SB-202713	EFXE-202713SB	3,6	7,2
SB-272713	EFXE-272713SB	4,1	8,3
SB-203016	EFXE-203016SB	4,2	8,5
SB-273513	EFXE-273513SB	4,8	9,6
SB-282816	EFXE-282816SB	4,8	9,6
SB-204016	EFXE-204016SB	5,0	10,1
SB-353516	EFXE-353516SB	6,1	12,2
SB-282827	EFXE-282827SB	6,5	13,1
SB-355016	EFXE-355016SB	7,4	14,8
SB-383816	EFXE-383816SB	6,6	13,3
SB-384516	EFXE-384516SB	7,2	14,5
SB-385716	EFXE-385716SB	8,3	16,7
SB-505016	EFXE-505016SB	8,9	17,9
SB-383827	EFXE-383827SB	8,7	17,5
SB-575716	EFXE-575716SB	10,3	20,7
SB-577620	EFXE-577620SB	13,4	26,9
SB-575730	EFXE-575730SB	13,9	27,9
SB-769520	EFXE-769520SB	18,0	36,1
SB-1258040	EFXE-1258040SB	18,0	36,1

Power dissipation – Stainless steel enclosures ST series

Enclosure types (Stainless steel)		Maximum power dissipation (W) – Tamb. up to **40**°C						
		INTERNAL TEMP.60°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
ST-101210	EFXE-101210ST	5,5	8,3	11,1	12,5	15,3	16,7	18,1
ST-151510	EFXE-151510ST	8,0	12,0	16,0	18,0	22,0	24,0	26,1
ST-142013	EFXE-142013ST	10,4	15,7	20,9	23,5	28,8	31,4	34,0
ST-202010	EFXE-202010ST	10,7	16,1	21,4	24,1	29,5	32,2	34,8
ST-202016	EFXE-202016ST	13,9	20,8	27,8	31,3	38,3	41,7	45,2
ST-202713	EFXE-202713ST	14,4	21,6	28,9	32,5	39,7	43,3	46,9
ST-272713	EFXE-272713ST	16,7	25,1	33,5	37,7	46,0	50,2	54,4
ST-203016	EFXE-203016ST	17,1	25,7	34,3	38,6	47,2	51,4	55,7
ST-273513	EFXE-273513ST	19,2	28,9	38,5	43,3	53,0	57,8	62,6
ST-282816	EFXE-282816ST	19,3	29,0	38,7	43,6	53,3	58,1	63,0
ST-204016	EFXE-204016ST	20,2	30,3	40,4	45,5	55,6	60,6	65,7
ST-353516	EFXE-353516ST	24,4	36,6	48,8	54,9	67,1	73,2	79,3
ST-282827	EFXE-282827ST	26,2	39,3	52,5	59,0	72,2	78,7	85,3
ST-355016	EFXE-355016ST	29,7	44,5	59,4	66,8	81,7	89,1	96,6
ST-383816	EFXE-383816ST	26,6	39,9	53,2	59,8	73,1	79,8	86,5
ST-384516	EFXE-384516ST	29,1	43,7	58,3	65,6	80,2	87,5	94,8
ST-385716	EFXE-385716ST	33,4	50,1	66,8	75,2	91,9	100,3	108,7
ST-505016	EFXE-505016ST	35,8	53,8	71,7	80,7	98,6	107,6	116,6
ST-383827	EFXE-383827ST	35,1	52,7	70,2	79,0	96,6	105,4	114,2
ST-575716	EFXE-575716ST	41,5	62,3	83,1	93,5	114,3	124,7	135,1
ST-577620	EFXE-577620ST	53,9	80,9	107,9	121,3	148,3	161,8	175,3
ST-575730	EFXE-575730ST	55,8	83,7	111,6	125,6	153,5	167,5	181,4
ST-769520	EFXE-769520ST	72,2	108,3	144,4	162,4	198,5	216,6	234,6
ST-1258040	EFXE-1258040ST	72,2	108,3	144,4	162,4	198,5	216,6	234,6

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Enclosure types (Stainless steel)		Maximum power dissipation (W) – Tamb. up to **50**°C						
		INTERNAL TEMP.60°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
ST-101210	EFXE-101210ST	2,7	5,5	8,3	9,7	12,5	13,9	15,3
ST-151510	EFXE-151510ST	4,0	8,0	12,0	14,0	18,0	20,0	22,0
ST-142013	EFXE-142013ST	5,2	10,4	15,7	18,3	23,5	26,2	28,8
ST-202010	EFXE-202010ST	5,3	10,7	16,1	18,7	24,1	26,8	29,5
ST-202016	EFXE-202016ST	6,9	13,9	20,8	24,3	31,3	34,8	38,3
ST-202713	EFXE-202713ST	7,2	14,4	21,6	25,2	32,5	36,1	39,7
ST-272713	EFXE-272713ST	8,3	16,7	25,1	29,3	37,7	41,8	46,0
ST-203016	EFXE-203016ST	8,5	17,1	25,7	30,0	38,6	42,9	47,2
ST-273513	EFXE-273513ST	9,6	19,2	28,9	33,7	43,3	48,2	53,0
ST-282816	EFXE-282816ST	9,6	19,3	29,0	33,9	43,6	48,4	53,3
ST-204016	EFXE-204016ST	10,1	20,2	30,3	35,4	45,5	50,5	55,6
ST-353516	EFXE-353516ST	12,2	24,4	36,6	42,7	54,9	61,0	67,1
ST-282827	EFXE-282827ST	13,1	26,2	39,3	45,9	59,0	65,6	72,2
ST-355016	EFXE-355016ST	14,8	29,7	44,5	52,0	66,8	74,3	81,7
ST-383816	EFXE-383816ST	13,3	26,6	39,9	46,5	59,8	66,5	73,1
ST-384516	EFXE-384516ST	14,5	29,1	43,7	51,0	65,6	72,9	80,2
ST-385716	EFXE-385716ST	16,7	33,4	50,1	58,5	75,2	83,6	91,9
ST-505016	EFXE-505016ST	17,9	35,8	53,8	62,7	80,7	89,7	98,6
ST-383827	EFXE-383827ST	17,5	35,1	52,7	61,4	79,0	87,8	96,6
ST-575716	EFXE-575716ST	20,7	41,5	62,3	72,7	93,5	103,9	114,3
ST-577620	EFXE-577620ST	26,9	53,9	80,9	94,4	121,3	134,8	148,3
ST-575730	EFXE-575730ST	27,9	55,8	83,7	97,7	125,6	139,5	153,5
ST-769520	EFXE-769520ST	36,1	72,2	108,3	126,3	162,4	180,5	198,5
ST-1258040	EFXE-1258040ST	36,1	72,2	108,3	126,3	162,4	180,5	198,5

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Enclosure types (Stainless steel)		Maximum power dissipation (W) – Tamb. up to **55**°C						
		INTERNAL TEMP.65°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
ST-101210	EFXE-101210ST	2,7	4,1	6,9	8,3	11,1	12,5	13,9
ST-151510	EFXE-151510ST	4,0	6,0	10,0	12,0	16,0	18,0	20,0
ST-142013	EFXE-142013ST	5,2	7,8	13,1	15,7	20,9	23,5	26,2
ST-202010	EFXE-202010ST	5,3	8,0	13,4	16,1	21,4	24,1	26,8
ST-202016	EFXE-202016ST	6,9	10,4	17,4	20,8	27,8	31,3	34,8
ST-202713	EFXE-202713ST	7,2	10,8	18,0	21,6	28,9	32,5	36,1
ST-272713	EFXE-272713ST	8,3	12,5	20,9	25,1	33,5	37,7	41,8
ST-203016	EFXE-203016ST	8,5	12,8	21,4	25,7	34,3	38,6	42,9
ST-273513	EFXE-273513ST	9,6	14,4	24,1	28,9	38,5	43,3	48,2
ST-282816	EFXE-282816ST	9,6	14,5	24,2	29,0	38,7	43,6	48,4
ST-204016	EFXE-204016ST	10,1	15,1	25,2	30,3	40,4	45,5	50,5
ST-353516	EFXE-353516ST	12,2	18,3	30,5	36,6	48,8	54,9	61,0
ST-282827	EFXE-282827ST	13,1	19,6	32,8	39,3	52,5	59,0	65,6
ST-355016	EFXE-355016ST	14,8	22,2	37,1	44,5	59,4	66,8	74,3
ST-383816	EFXE-383816ST	13,3	19,9	33,2	39,9	53,2	59,8	66,5
ST-384516	EFXE-384516ST	14,5	21,8	36,4	43,7	58,3	65,6	72,9
ST-385716	EFXE-385716ST	16,7	25,0	41,8	50,1	66,8	75,2	83,6
ST-505016	EFXE-505016ST	17,9	26,9	44,8	53,8	71,7	80,7	89,7
ST-383827	EFXE-383827ST	17,5	26,3	43,9	52,7	70,2	79,0	87,8
ST-575716	EFXE-575716ST	20,7	31,1	51,9	62,3	83,1	93,5	103,9
ST-577620	EFXE-577620ST	26,9	40,4	67,4	80,9	107,9	121,3	134,8
ST-575730	EFXE-575730ST	27,9	41,8	69,7	83,7	111,6	125,6	139,5
ST-769520	EFXE-769520ST	36,1	54,1	90,2	108,3	144,4	162,4	180,5
ST-1258040	EFXE-1258040ST	36,1	54,1	90,2	108,3	144,4	162,4	180,5

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Enclosure types (Stainless steel)		Maximum power dissipation (W) – Tamb. up to **60**°C					
		INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
ST-101210	EFXE-101210ST	2,7	5,5	6,9	9,7	11,1	12,5
ST-151510	EFXE-151510ST	4,0	8,0	10,0	14,0	16,0	18,0
ST-142013	EFXE-142013ST	5,2	10,4	13,1	18,3	20,9	23,5
ST-202010	EFXE-202010ST	5,3	10,7	13,4	18,7	21,4	24,1
ST-202016	EFXE-202016ST	6,9	13,9	17,4	24,3	27,8	31,3
ST-202713	EFXE-202713ST	7,2	14,4	18,0	25,2	28,9	32,5
ST-272713	EFXE-272713ST	8,3	16,7	20,9	29,3	33,5	37,7
ST-203016	EFXE-203016ST	8,5	17,1	21,4	30,0	34,3	38,6
ST-273513	EFXE-273513ST	9,6	19,2	24,1	33,7	38,5	43,3
ST-282816	EFXE-282816ST	9,6	19,3	24,2	33,9	38,7	43,6
ST-204016	EFXE-204016ST	10,1	20,2	25,2	35,4	40,4	45,5
ST-353516	EFXE-353516ST	12,2	24,4	30,5	42,7	48,8	54,9
ST-282827	EFXE-282827ST	13,1	26,2	32,8	45,9	52,5	59,0
ST-355016	EFXE-355016ST	14,8	29,7	37,1	52,0	59,4	66,8
ST-383816	EFXE-383816ST	13,3	26,6	33,2	46,5	53,2	59,8
ST-384516	EFXE-384516ST	14,5	29,1	36,4	51,0	58,3	65,6
ST-385716	EFXE-385716ST	16,7	33,4	41,8	58,5	66,8	75,2
ST-505016	EFXE-505016ST	17,9	35,8	44,8	62,7	71,7	80,7
ST-383827	EFXE-383827ST	17,5	35,1	43,9	61,4	70,2	79,0
ST-575716	EFXE-575716ST	20,7	41,5	51,9	72,7	83,1	93,5
ST-577620	EFXE-577620ST	26,9	53,9	67,4	94,4	107,9	121,3
ST-575730	EFXE-575730ST	27,9	55,8	69,7	97,7	111,6	125,6
ST-769520	EFXE-769520ST	36,1	72,2	90,2	126,3	144,4	162,4
ST-1258040	EFXE-1258040ST	36,1	72,2	90,2	126,3	144,4	162,4

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Enclosure types (Stainless steel)		Maximum power dissipation (W) – Tamb. up to **95**°C	
		INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
ST-101210	EFXE-101210ST	1,3	2,7
ST-151510	EFXE-151510ST	2,0	4,0
ST-142013	EFXE-142013ST	2,6	5,2
ST-202010	EFXE-202010ST	2,6	5,3
ST-202016	EFXE-202016ST	3,4	6,9
ST-202713	EFXE-202713ST	3,6	7,2
ST-272713	EFXE-272713ST	4,1	8,3
ST-203016	EFXE-203016ST	4,2	8,5
ST-273513	EFXE-273513ST	4,8	9,6
ST-282816	EFXE-282816ST	4,8	9,6
ST-204016	EFXE-204016ST	5,0	10,1
ST-353516	EFXE-353516ST	6,1	12,2
ST-282827	EFXE-282827ST	6,5	13,1
ST-355016	EFXE-355016ST	7,4	14,8
ST-383816	EFXE-383816ST	6,6	13,3
ST-384516	EFXE-384516ST	7,2	14,5
ST-385716	EFXE-385716ST	8,3	16,7
ST-505016	EFXE-505016ST	8,9	17,9
ST-383827	EFXE-383827ST	8,7	17,5
ST-575716	EFXE-575716ST	10,3	20,7
ST-577620	EFXE-577620ST	13,4	26,9
ST-575730	EFXE-575730ST	13,9	27,9
ST-769520	EFXE-769520ST	18,0	36,1
ST-1258040	EFXE-1258040ST	18,0	36,1

Maximum Power Dissipation calculation

The values specified in the tables as per clause 2.1.1 may be modified within the maximum admitted Tamb and maximum admitted internal temperature as follows.

$$Pdiss\ (W) = \frac{Tmax - Tamb}{Rth}$$

$Rth = A \times (\text{enclosure surface in } mm^2 \text{ except enclosure bottom})^B$

Legend:
Rth – Thermal resistance [K/W].
Tmax – Maximum allowed temperature inside enclosure.
Tamb – Ambient temperature of enclosure
A and B - coefficients determined for each series o enclosure. Exact values are given in manufacturer's documentation.

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[16] Confidential Report No. FIDI 21 CR 075

[16.1] Routine testing

Junction boxes, local control stations and local control panels fitted with wiring, shall be subject to a routine dielectric strength test according to the clause 7.1 of IEC 60079-7.

[17] Specific Conditions of Use

- Enclosures marked with warning label: "WARNING – POTENTIAL ELECTROSTATIC CHARGING HAZARD – SEE INSTRUCTIONS" must be cleaned only by damp cloth or antistatic products.
- Apparatus equipped with drain / venting valve Technor Italsmea model ECR3:
  - the valve cannot be open when an explosive dust atmosphere is present.
  - The valve can be open when an explosive gas atmosphere is present: when open, the equipment reaches the protection degree IP44.
  - When the valve is left in open position, it should be protected from light exposure.
- On the intrinsic safety terminals, the user must only connect devices with compatible intrinsic safety parameters according to EN 60079-14.

[18] Essential Health and Safety Requirements

Covered by the conformity with harmonized standards listed under item 9.

[19] Drawings and Documents

Title:	Drawing No.:	Rev. level:	Date:
Technical note	TN2111	0	17.11.2021
Instruction for use	TN2111 Annex A	0	08.11.2021
Apparatus list	TN2111 Annex B	0	17.11.2021
Drawings:			
Cable entries, plug, adaptors coupling systems	AC2111, sheet 1	0	10.11.2021
Example of operator arrangements for AQ-AR-EFE	AC2111, sheet 2	0	10.11.2021
Example of operator arrangements for SB-ST-EFEXE	AC2111, sheet 3	0	10.11.2021
Example terminals and earth bus bar	AC2111, sheet 4	0	10.11.2021
Drain / breath device type ECR3	AC2111, sheet 5	0	10.11.2021
Marking label SB..., ST..., AQ..., AR...	AC2111, sheet 6	0	10.11.2021
Marking label SB..., ST..., AQ..., AR...	AC2111, sheet 7	0	10.11.2021

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[1] **SUPPLEMENTARY EU – TYPE EXAMINATION CERTIFICATE**

[2] Equipment or Protective Systems Intended for use in Potentially Explosive Atmospheres Directive 2014/34/EU.

[3] Supplementary EU-Type Examination Certificate Number: **FIDI 21 ATEX 0090X/1**

[4] Product: **Junction boxes, local control stations and local control panels**

Type: **AQ-***P / AQ-***AL / AR-***P / AR-***AL**
AQ-*P-HT / AQ-***AL-HT / AR-***P-HT / AR-***AL-HT**
SB-* / ST-***
EFE-* / EFXE-*** AL/ EFXE-***SB / EFXE-***ST**
EFE-*-HT / EFXE-***AL-HT**

[5] Manufacturer: **Technor Italsmea S.p.A.**

[6] Address: **Via Italia 33, 20060 Gessate (MI), Italy**

[7] This supplementary certificate extends EU – Type Examination Certificate to apply to product designed and constructed in accordance with the specification set out in the Schedule of the said certificate but having any variations specified in the Schedule to this certificate and the documents therein referred to.

[8] FIDITAS Ltd., Notified Body number 2829 in accordance with Article 17 of Directive 2014/34/EU of the European Parliament and of the Council, dated 26 February 2014, certifies that this product has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of products intended for use in potentially explosive atmospheres given in Annex II of the Directive.

[9] The examination and test results are recorded in confidential Report No: **FIDI 23 CR 019**

[10] The marking of the product shall include the following:

II 1 G	**Ex ia IIC/IIB T6...T4 Ga**(2) or
II 2(1) G or **II 2(2) G**	**Ex db eb ia/ib mb [**(3)**] IIC/IIB T6...T4 Gb**(1) or
II 2 G	**Ex eb IIC/IIB T6...T4 Gb**(1) or
II 2 D	**Ex tb IIIC T85°C...T135°C Db**

(1) Others type of protection additional to 'eb' depending to the components actually mounted.

(2) In case of enclosures containing 'eb' terminals and/or 'ia Ga' already certified components (with compatible marking) only.

(3) Associated equipment protection depending on the components actually mounted (see lists): e.g. [ia/ib/ia Ga/ia IIIC Da] and/or [ia IIIC Da] or [ia/ib/ia Ga/ia IIIC Da] and/or [ia/ib/ia Ga] [ia IIIC Da]

FIDITAS Ltd.
Certification department
Approved:

Marino Kelava, M.E.Eng.

Our ref.: 23.CRT.071

Date: 19.04.2023

Fiditas d.o.o. ZAGREB

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[11] **SCHEDULE**

[12] **SUPPLEMENTARY EU - TYPE EXAMINATION CERTIFICATE No.: FIDI 21 ATEX 0090X /1**

[13] Description of the variation to the Product

New Ex products added:

- Surge voltage protection unit type: PLUGTRAB PT2 or PT4 – PHOENIX CONTACT; II 1G> Ex ia IIC T4...T6 Ga; KEMA 00 ATEX 1099X;
- SITRANS TH230/420, type: 7NG0317, 0310; 0410 TR320/TR420 7NG0327; 7NG0320; TYPE 7NG0420; Siemens AG; II 1G Ex ia IIC T6...T4 Ga; II 2(1)G Ex ib [ia Ga] IIC T6...T4 Gb; DEKRA 17 ATEX 0116X
- Enhanced Model 644 Temperature Transmitter, ROSEMOUNT INCORPORATED, II 1G Ex ia IIC T6...T4 Ga; DEKRA 21ATEX0003X,
- Temperature Transmitter type: 5434D; 5431D; 6431D; 5435D; 5437D; 5437D; 5437B; 6437D, II 1G Ex ia IIC T6...T4 Ga; II 2(1)G Ex ib [ia Ga] IIC T6...T4 Gb; DEKRA 16 ATEX 0047X,
- Controls Units and / or Junction Boxes Type: GUB..., TECHNOR ITALSMEA; II 2G Ex db (*) IIC T(*) Gb; INERIS 22 ATEX 0008X
- Cable Transit Device type: CF 8 Ex, CF 32 Ex, CF 16 Ex, C RS T...Ex, RS..B Ex, SF...Ex, SFX...B Ex, B...B Ex, R...B Ex and RO...B; ROXTEC INTERNATIONAL AB, II 2G Ex e IIC Gb, II 2D Ex tb IIC Db; NEMKO 12 ATEX 1278X
- Cable Transit Device type: HD 16 Ex, HD 24 Ex, HD 32 Ex and HDLC Ex, ROXTEC INTERNATIONAL AB, II 2G Ex eb IIC Gb, II 2D Ex tb IIIC Db, PRESAFE 15 ATEX 6419X
- Control stations and junction boxes type: CP..., TECHNOR ITALSMEA, II 2G Ex db IIC T6 or T5 or T4 Gb or II 2(1)G Ex db [ia Ga] IIC T6 Gb(***) or II 2(2)G Ex db [ib] IIC T6 Gb (***); INERIS 03 ATEX 0009X
- Industrial plug and socket type: DXN1, MARECHAL ELECTRIC, II 2G Ex db eb IIC T5 or T6; II 2D Ex tb IIIC T90°C/T70°C; LCIE 99 ATEX6027X
- Industrial plug and socket type: DXN3, MARECHAL ELECTRIC; II 2G Ex db eb IIC T5 or T6; II 2D Ex tb IIIC T90°C/T70°C; LCIE 05 ATEX 6149X
- Industrial plug and socket type: DXN6, MARECHAL ELECTRIC, II 2G Ex db eb IIC T5 or T6; II 2D Ex tb IIIC T90°C/T70°C; LCIE 05 ATEX 6150X
- Industrial plug and socket type: PXN12C, MARECHAL ELECTRIC, II 2G Ex eb IIC T*; II 2G Ex ia or ib IIC T*; II 2D Ex tb IIIC T* Db; LCIE 07 ATEX 6070X
- Industrial plug and socket type: DXN25C, MARECHAL ELECTRIC; II 2G Ex eb IIC T*; II 2G Ex ia or ib IIC T6; II2D Ex tb IIIC T*; LCIE 09ATEX3050X
- Industrial plug and socket type: DXN37C, MARECHAL ELECTRIC; II 2G Ex eb IIC T*; II 2G Ex ia or ib IIC T6; II2D Ex tb IIIC T*; LCIE 07ATEX6071X
- Industrial plug and socket type: SPeX, MARECHAL ELECTRIC, II 2G Ex eb IIC T*; II2D Ex tb IIIC T* Db; LCIE 07ATEX6073X
- Industrial plug and socket type: DXA1, MARECHAL ELECTRIC, II 2G Ex db eb IIC T* Gb; II 2D Ex tb IIC T*°C Db; LCIE 15ATEX 3033X
- Industrial plug and socket type: PNCX, MARECHAL ELECTRIC, II 2G Ex IIC T6 Gb; II 2D Ex tb IIIC T72°C Db; LCIE 16ATEX3001X
- Terminal type: WDU 240, WEIDMULLER, II 2G Ex eb IIC Gb; KEMA 01 ATEX 2186U.

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[14] Confidential Report No. FIDI 23 CR 019

[14.1] Routine testing

No change to specified in the initial certificate.

[15] Specific Conditions of Use

Addditional to those specified the initial certificate:

- Manufacturer must obey relevant specific condition of use of Ex equipment and/or schedule of limitation of Ex components installed in/on the product and forward to the end user if relevant for the installation and use.

[16] Essential Health and Safety Requirements

Compliance with the Essential Health and Safety Requirements is not affected by this variation.

[17] Drawings and Documents

Title:	Drawing No.:	Rev. level:	Date:
Technical note	TN2111	1	20.01.2023
Instruction for use	TN2111 Annex A	1	20.01.2023
Apparatus list	TN2111 Annex B	1	20.01.2023

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IECEx Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION
IEC Certification System for Explosive Atmospheres

for rules and details of the IECEx Scheme visit www.iecex.com

Certificate No.:	**IECEx FIDI 21.0015X**	Page 1 of 4	Certificate history: Issue 0 (2022-02-18)
Status:	**Current**	Issue No: 1	
Date of Issue:	2023-05-04		

Applicant: **Technor Italsmea S.p.A.**
Via Italia 33
20060 Gessate (MI)
Italy

Equipment: **Junction boxes, local control stations and local control panels**

Optional accessory: Model reference: AQ-***P / AQ-***AL / AR-***P / AR-***AL / AQ-***P-HT / AQ-***AL-HT / AR-***P-HT / AR-***AL-HT / SB-*** / ST-*** / EFE-*** / EFXE-*** AL/ EFXE-***SB / EFXE-***ST / EFE-***-HT / EFXE-***AL-HT

Type of Protection: **Flameproof enclosure 'db'; Intrinsic safety 'ia/ib'; Increased safety 'eb'; Encapsulation 'mb', Protection by enclosure 'tb'**

Marking: **Ex ia IIC/IIB T6...T4 Ga**(2) or

Ex db eb ia/ib mb [(3)] IIC/IIB T6...T4 Gb(1) or

Ex eb IIC/IIB T6...T4 Gb(1) or

Ex tb IIIC T85°C...T135°C Db

(1) Others type of protection additional to Ex e/eb depending to the components actually mounted.

(2) In case of enclosures containing Ex e/Ex eb terminals and/or Ex ia Ga already certified components (with compatible marking) only.

(3) Associated equipment protection depending on the components actually mounted (see lists): e.g. [ia/ib/ia Ga/ia IIIC Da] and/or [ia IIIC Da] or [ia/ib/ia Ga/ia IIIC Da] and/or [ia/ib/ia Ga] [ia IIIC Da]

Approved for issue on behalf of the IECEx Certification Body: **Marino Kelava**

Position: **Certification Signatory**

Signature:
(for printed version)

Date:
(for printed version)

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Croatia

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explosion safety solutions

IECEx Certificate of Conformity

Certificate No.: **IECEx FIDI 21.0015X**

Date of issue: 2023-05-04 Issue No: 1

Manufacturer: **Technor Italsmea S.p.A.**
Via Italia 33
20060 Gessate (MI)
Italy

Manufacturing locations:

This certificate is issued as verification that a sample(s), representative of production, was assessed and tested and found to comply with the IEC Standard list below and that the manufacturer's quality system, relating to the Ex products covered by this certificate, was assessed and found to comply with the IECEx Quality system requirements.This certificate is granted subject to the conditions as set out in IECEx Scheme Rules, IECEx 02 and Operational Documents as amended

STANDARDS :
The equipment and any acceptable variations to it specified in the schedule of this certificate and the identified documents, was found to comply with the following standards

IEC 60079-0:2017 Explosive atmospheres - Part 0: Equipment - General requirements
Edition:7.0

IEC 60079-1:2014-06 Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"
Edition:7.0

IEC 60079-11:2011 Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"
Edition:6.0

IEC 60079-18:2017 Explosive atmospheres - Part 18: Protection by encapsulation "m"
Edition:4.1

IEC 60079-31:2013 Explosive atmospheres - Part 31: Equipment dust ignition protection by enclosure "t"
Edition:2

IEC 60079-7:2017 Explosive atmospheres - Part 7: Equipment protection by increased safety "e"
Edition:5.1

This Certificate **does not** indicate compliance with safety and performance requirements other than those expressly included in the Standards listed above.

TEST & ASSESSMENT REPORTS:
A sample(s) of the equipment listed has successfully met the examination and test requirements as recorded in:

Test Reports:

HR/FIDI/ExTR21.0016/00 HR/FIDI/ExTR21.0016/01

Quality Assessment Report:

FR/INE/QAR08.0002/15

IECEx Certificate of Conformity

EQUIPMENT:
Equipment and systems covered by this Certificate are as follows:

Junction boxes, local control stations and local control panels series AQ-…..; AR-…..; SB…..; EFE-…..; EFXE-….. use certified enclosures of various sizes, manufactured by Technor Italsmea S.p.A., type: AQ-.... ; AR-....; SB-...; ST- …, certificate IECEx FIDI 21.0012U.

Enclosures coded …-HT are made in glass fiber reinforced polyester resin or in aluminum, and covered by IECEx component certificates: IECEx PTB 08.0003U, enclosure type: 26.****** and IECEx PTB 08.0003U, enclosure type: 25.******.

Enclosures may be equipped with certified Ex equipment or Ex components and Ex terminals listed in manufacturer's documentation. Certified Ex equipment or Ex components and Ex terminals must be used according to data available in related component or equipment certificates, in particular relevant temperature range, voltage and current limitations. The cable glands or plugs, with separate IECEx certificate, made in type of protection ‘eb’ and/or ‘tb’ with appropriate IP protection are mounted according to related manufacturer’s installation instructions. Each enclosure is provided with internal earthing certified terminal or earthing screw or bolt. Metal enclosures are provided by external earthing screw or bolt. Metal and polyester enclosures can be provided by passing through earthing terminals.

All enclosures can be provided by:
- Externally installed accessories as specified in manufacturer documents,
- Drain breath device type ECR3, included in this certificate,
- Internal/external earthing plate.

For other description see Annex.

SPECIFIC CONDITIONS OF USE: YES as shown below:

- Enclosures marked with warning label: “WARNING – POTENTIAL ELECTROSTATIC CHARGING HAZARD – SEE INSTRUCTIONS” must be cleaned only by damp cloth or antistatic products.
- Apparatus equipped with drain / venting valve Technor Italsmea model ECR3:
  - the valve cannot be open when an explosive dust atmosphere is present.
  - The valve can be open when an explosive gas atmosphere is present: when open, the equipment reaches the protection degree IP44.
  - When the valve is left in open position, it should be protected from light exposure.
- On the intrinsic safety terminals, the user must only connect devices with compatible intrinsic safety parameters according to IEC 60079-14.

IECEx Certificate of Conformity

DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)
New IECEx certified Ex products added in the Apparatus list according to list given in HR/FIDI/ ExTR 21.0016/01.

Annex:

IECEx FIDI 21.0015X Technor Equipment Annex1 issue1.pdf

Technical description (continued from original certificate)

Model identification

Junction boxes

A(1)-(2) (3) (4) (5) (6)	(1) –	**Q**: Square size **R**: Rectangular size
	(2) (3) (4)	dimension, in cm
	(5)	Material **P**: Glass fiber reinforced polyester resin **AL**: Aluminium Alloy
	(6)	None: up to internal temperature of 105°C **HT**: up to internal temperature of 130°C
SB- (2) (3) (4)	(2) (3) (4)	dimension, in cm
ST- (2) (3) (4)	(2) (3) (4)	dimension, in cm

Panel boards

EFE- (2) (3) (4) (6)	(2) (3) (4)	dimension, in cm
	(6)	None: up to internal temperature of 105°C **HT**: up to internal temperature of 130°C
EFXE- (2) (3) (4) (5) (6)	(2) (3) (4)	dimension, in cm
	(5)	Material **SB** or **ST**: stainless steel **AL**: Aluminium Alloy
	(6)	None: up to internal temperature of 105°C **HT**: up to internal temperature of 130°C

Technical data:

Electrical data:	According to Ex component to actually installed
Ambient temperature:	-50°C to +95°C Other possible ranges are with: - min temperature: -50°C to -20 °C - max temperature of +40 °C to +95 °C
Mechanical protection:	IP55, IP66 or IP67 depending on model

Temperature class and/or maximum surface temperature of any junction box or control panel depend on ambient temperature and internal power dissipation. The values that must be observed are given in relevant tables in this certificate.

For commercial reasons model name listed in the tables below can be modified as follows: first (2) and second (3) pair of digits can be reversed.

Models sizes

Polyester High Temperature		Aluminium High Temperature	
AQ-080806P-HT	EFE-080806-HT	AQ-080806AL-HT	EFXE-080806AL-HT
AQ-080808P-HT	EFE-080808-HT	AR-081306AL-HT	EFXE-081306AL-HT
AR-081106P-HT	EFE-081106-HT	AR-081806AL-HT	EFXE-081806AL-HT
AR-081108P-HT	EFE-081108-HT	AR-082505AL-HT	EFXE-082505AL-HT
AR-081606P-HT	EFE-081606-HT	AQ-101008AL-HT	EFXE-101008AL-HT
AR-081608P-HT	EFE-081608-HT	AR-101608AL-HT	EFXE-101608AL-HT
AR-081906P-HT	EFE-081906-HT	AR-102008AL-HT	EFXE-102008AL-HT
AR-081908P-HT	EFE-081908-HT	AQ-121208AL-HT	EFXE-121208AL-HT
AR-082306P-HT	EFE-082306-HT	AQ-121209AL-HT	EFXE-121209AL-HT
AR-082308P-HT	EFE-082308-HT	AR-122208AL-HT	EFXE-122208AL-HT
AQ-121209P-HT	EFE-121209-HT	AR-122209AL-HT	EFXE-122209AL-HT
AR-122209P-HT	EFE-122209-HT	AR-123608AL-HT	EFXE-123608AL-HT
AQ-161609P-HT	EFE-161609-HT	AQ-141409AL-HT	EFXE-141409AL-HT
AR-162609P-HT	EFE-162609-HT	AR-142009AL-HT	EFXE-142009AL-HT
AR-163609P-HT	EFE-163609-HT	AQ-161609AL-HT	EFXE-161609AL-HT
AR-165609P-HT	EFE-165609-HT	AR-162609AL-HT	EFXE-162609AL-HT
AQ-202017P-HT	EFE-202017-HT	AR-163609AL-HT	EFXE-163609AL-HT
AR-203017P-HT	EFE-203017-HT	AR-165609AL-HT	EFXE-165609AL-HT
AQ-252612P-HT	EFE-252612-HT	AQ-181810AL-HT	EFXE-181810AL-HT
AQ-252616P-HT	EFE-252616-HT	AR-182810AL-HT	EFXE-182810AL-HT
AR-254012P-HT	EFE-254012-HT	AR-102311AL-HT	EFXE-102311AL-HT
AR-254016P-HT	EFE-254016-HT	AR-202311AL-HT	EFXE-202311AL-HT
AR-256012P-HT	EFE-256012-HT	AR-202318AL-HT	EFXE-202318AL-HT
AR-304020P-HT	EFE-304020-HT	AR-232811AL-HT	EFXE-232811AL-HT
AQ-363609P-HT	EFE-363609-HT	AR-233311AL-HT	EFXE-233311AL-HT
AR-406025P-HT	EFE-406025-HT	AR-233318AL-HT	EFXE-233318AL-HT
AQ-414012P-HT	EFE-414012-HT	AR-234011AL-HT	EFXE-234011AL-HT
AQ-414020P-HT	EFE-414020-HT	AR-234023AL-HT	EFXE-234023AL-HT
		AR-236011AL-HT	EFXE-236011AL-HT
		AR-314011AL-HT	EFXE-314011AL-HT
		AR-314014AL-HT	EFXE-314014AL-HT
		AR-314018AL-HT	EFXE-314018AL-HT
		AR-314023AL-HT	EFXE-314023AL-HT
		AR-316011AL-HT	EFXE-316011AL-HT
		AR-316018AL-HT	EFXE-316018AL-HT
		AQ-606020AL-HT	EFXE-606020AL-HT

Polyester		Aluminium		Stainless steel	
AQ-080806P	EFE-080806	AQ-080806AL	EFXE-080806AL	SB-101210	EFXE-101210SB
AQ-080808P	EFE-080808	AR-081306AL	EFXE-081306AL	SB-151510	EFXE-151510SB
AR-081106P	EFE-081106	AR-081806AL	EFXE-081806AL	SB-142013	EFXE-142013SB
AR-081606P	EFE-081606	AR-081808AL	EFXE-081808AL	SB-202010	EFXE-202010SB
AR-081906P	EFE-081906	AR-082505AL	EFXE-082505AL	SB-202016	EFXE-202016SB
AQ-121209P	EFE-121209	AR-082508AL	EFXE-082508AL	SB-202713	EFXE-202713SB
AR-122209P	EFE-122209	AQ-101008AL	EFXE-101008AL	SB-272713	EFXE-272713SB
AQ-161609P	EFE-161609	AR-101508AL	EFXE-101508AL	SB-203016	EFXE-203016SB
AR-162609P	EFE-162609	AR-101608AL	EFXE-101608AL	SB-273513	EFXE-273513SB
AR-163609P	EFE-163609	AR-102008AL	EFXE-102008AL	SB-282816	EFXE-282816SB
AQ-252612P	EFE-252612	AQ-121208AL	EFXE-121208AL	SB-204016	EFXE-204016SB
AQ-252616P	EFE-252616	AR-122209AL	EFXE-122209AL	SB-353516	EFXE-353516SB
AR-254012P	EFE-254012	AQ-141409AL	EFXE-141409AL	SB-282827	EFXE-282827SB
AR-254016P	EFE-254016	AR-142009AL	EFXE-142009AL	SB-355016	EFXE-355016SB
AR-256012P	EFE-256012	AQ-161609AL	EFXE-161609AL	SB-383816	EFXE-383816SB
AQ-414012P	EFE-414012	AR-162410AL	EFXE-162410AL	SB-384516	EFXE-384516SB
		AR-162609AL	EFXE-162609AL	SB-385716	EFXE-385716SB
		AQ-181810AL	EFXE-181810AL	SB-505016	EFXE-505016SB
		AR-182810AL	EFXE-182810AL	SB-383827	EFXE-383827SB
		AR-202311AL	EFXE-202311AL	SB-575716	EFXE-575716SB
		AR-202318AL	EFXE-202318AL	SB-577620	EFXE-577620SB
		AR-232811AL	EFXE-232811AL	SB-575730	EFXE-575730SB
		AR-233312AL	EFXE-233312AL	SB-769520	EFXE-769520SB
		AR-233318AL	EFXE-233318AL	SB-1258040	EFXE-1258040SB

Enclosure types (Stainless steel)	
ST-101210	EFXE-101210ST
ST-151510	EFXE-151510ST
ST-142013	EFXE-142013ST
ST-202010	EFXE-202010ST
ST-202016	EFXE-202016ST
ST-202713	EFXE-202713ST
ST-272713	EFXE-272713ST
ST-203016	EFXE-203016ST
ST-273513	EFXE-273513ST
ST-282816	EFXE-282816ST
ST-204016	EFXE-204016ST
ST-353516	EFXE-353516ST
ST-282827	EFXE-282827ST
ST-355016	EFXE-355016ST
ST-383816	EFXE-383816ST
ST-384516	EFXE-384516ST
ST-385716	EFXE-385716ST
ST-505016	EFXE-505016ST
ST-383827	EFXE-383827ST
ST-575716	EFXE-575716ST
ST-577620	EFXE-577620ST
ST-575730	EFXE-575730ST
ST-769520	EFXE-769520ST
ST-1258040	EFXE-1258040ST

Note 2 For stainless steel enclosures: dimensions (2) and (3) can be decreased or increased up to 20%, dimensions (4) can be increased up to 500 mm. Model name changes consequently.

Power dissipation – HT glass fiber reinforced polyester resin enclosures

Enclosure types (polyester)		Maximum power dissipation (W) – Tamb. up to **40**°C							
		INTERNAL TEMP.60°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)	INTERNAL TEMP.127°C (T4/T135°C)
AQ-080806P-HT	EFE-080806-HT	3,5	5,2	7,0	7,8	9,6	10,4	11,3	15,2
AQ-080808P-HT	EFE-080808-HT	4,6	6,8	9,1	10,2	12,5	13,7	14,8	19,8
AR-081106P-HT	EFE-081106-HT	4,3	6,4	8,5	9,6	11,8	12,8	13,9	18,6
AR-081108P-HT	EFE-081108-HT	5,6	8,4	11,2	12,6	15,3	16,7	18,1	24,2
AR-081606P-HT	EFE-081606-HT	5,8	8,7	11,6	13,0	15,9	17,4	18,8	25.2
AR-081608P-HT	EFE-081608-HT	6,8	10,2	13,7	15,4	18,8	20,5	22,2	29,7
AR-081906P-HT	EFE-081906-HT	6,4	9,6	12,8	14,4	17,6	19,2	20,8	27,8
AR-081908P-HT	EFE-081908-HT	7,5	11,3	15,1	17,0	20,7	22,6	24,5	32,7
AR-082306P-HT	EFE-082306-HT	7,2	10,8	14,4	16,2	19,8	21,6	23,4	31,3
AR-082308P-HT	EFE-082308-HT	8,5	12,7	16,9	19,0	23,3	25,4	27,5	36,7
AQ-121209P-HT	EFE-121209-HT	8,0	12,0	15,9	17,9	21,9	23,9	25,9	34,7
AR-122209P-HT	EFE-122209-HT	10,8	16,2	21,6	24,3	29,7	32,4	35,1	47,0
AQ-161609P-HT	EFE-161609-HT	10,4	15,6	20,8	23,4	28,6	31,2	33,8	45,2
AR-162609P-HT	EFE-162609-HT	13,4	20,1	26,8	30,2	36,9	40,2	43,6	58,3
AR-163609P-HT	EFE-163609-HT	16,2	24,3	32,4	36,5	44,6	48,6	52,7	70,5
AR-165609P-HT	EFE-165609-HT	21,4	32,0	42,7	48,1	58,7	64,1	69,4	92,9
AQ-202017P-HT	EFE-202017-HT	18,0	26,9	35,9	40,4	49,4	53,9	58,4	78,1
AR-203017P-HT	EFE-203017-HT	20,9	31,3	41,7	47,0	57,4	62,6	67,8	90,8
AQ-252612P-HT	EFE-252612-HT	18,8	28,2	37,6	42,4	51,8	56,5	61,2	81,9
AQ-252616P-HT	EFE-252616-HT	20,8	31,1	41,5	46,7	57,1	62,3	67,5	90,3
AR-254012P-HT	EFE-254012-HT	22,8	34,2	45,7	51,4	62,8	68,5	74,2	99,3
AR-254016P-HT	EFE-254016-HT	26,2	39,3	52,4	58,9	72,0	78,6	85,1	113,9
AR-256012P-HT	EFE-256012-HT	29,0	43,6	58,1	65,3	79,9	87,1	94,4	126,3
AR-304020P-HT	EFE-304020-HT	32,3	48,5	64,7	72,7	88,9	97,0	105,1	140,7
AQ-363609P-HT	EFE-363609-HT	23,0	34,6	46,1	51,8	63,4	69,1	74,9	100,2
AR-406025P-HT	EFE-406025-HT	50,3	75,5	100,7	113,3	138,4	151,0	163,6	218,9
AQ-414012P-HT	EFE-414012-HT	29,1	43,7	58,2	65,5	80,1	87,3	94,6	126,6
AQ-414020P-HT	EFE-414020-HT	36,6	55,0	73,3	82,4	100,8	109,9	119,1	159,4

Enclosure types (polyester)		Maximum power dissipation (W) – Tamb. up to **50**°C							
		INTERNAL TEMP.60°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)	INTERNAL TEMP.127°C (T4/T135°C)
AQ-080806P-HT	EFE-080806-HT	1,7	3,5	5,2	6,1	7,8	8,7	9,6	13,4
AQ-080808P-HT	EFE-080808-HT	2,3	4,6	6,8	8,0	10,2	11,4	12,5	17,5
AR-081106P-HT	EFE-081106-HT	2,1	4,3	6,4	7,5	9,6	10,7	11,8	16,5
AR-081108P-HT	EFE-081108-HT	2,8	5,6	8,4	9,8	12,6	13,9	15,3	21.5
AR-081606P-HT	EFE-081606-HT	2,9	5,8	8,7	10,1	13,0	14,5	15,9	22,3
AR-081608P-HT	EFE-081608-HT	3,4	6,8	10,2	11,9	15,4	17,1	18,8	26,3
AR-081906P-HT	EFE-081906-HT	3,2	6,4	9,6	11,2	14,4	16,0	17,6	24,6
AR-081908P-HT	EFE-081908-HT	3,8	7,5	11,3	13,2	17,0	18,8	20,7	29,0
AR-082306P-HT	EFE-082306-HT	3,6	7,2	10,8	12,6	16,2	18,0	19,8	27,7
AR-082308P-HT	EFE-082308-HT	4,2	8,5	12,7	14,8	19,0	21,1	23,3	32,5
AQ-121209P-HT	EFE-121209-HT	4,0	8,0	12,0	14,0	17,9	19,9	21,9	30,7
AR-122209P-HT	EFE-122209-HT	5,4	10,8	16,2	18,9	24,3	27,0	29,7	41,6
AQ-161609P-HT	EFE-161609-HT	5,2	10,4	15,6	18,2	23,4	26,0	28,6	40,0
AR-162609P-HT	EFE-162609-HT	6,7	13,4	20,1	23,5	30,2	33,5	36,9	51,6
AR-163609P-HT	EFE-163609-HT	8,1	16,2	24,3	28,4	36,5	40,5	44,6	62,3
AR-165609P-HT	EFE-165609-HT	10,7	21,4	32,0	37,4	48,1	53,4	58,7	82,2
AQ-202017P-HT	EFE-202017-HT	9,0	18,0	26,9	31,4	40,4	44,9	49,4	69,1
AR-203017P-HT	EFE-203017-HT	10,4	20,9	31,3	36,5	47,0	52,2	57,4	80,4
AQ-252612P-HT	EFE-252612-HT	9,4	18,8	28,2	32,9	42,4	47,1	51,8	72,5
AQ-252616P-HT	EFE-252616-HT	10,4	20,8	31,1	36,3	46,7	51,9	57,1	79,9
AR-254012P-HT	EFE-254012-HT	11,4	22,8	34,2	39,9	51,4	57,1	62,8	87,9
AR-254016P-HT	EFE-254016-HT	13,1	26,2	39,3	45,8	58,9	65,5	72,0	100,8
AR-256012P-HT	EFE-256012-HT	14,5	29,0	43,6	50,8	65,3	72,6	79,9	111,8
AR-304020P-HT	EFE-304020-HT	16,2	32,3	48,5	56,6	72,7	80,8	88,9	124,4
AQ-363609P-HT	EFE-363609-HT	11,5	23,0	34,6	40,3	51,8	57,6	63,4	88,7
AR-406025P-HT	EFE-406025-HT	25,2	50,3	75,5	88,1	113,3	125,8	138,4	193,8
AQ-414012P-HT	EFE-414012-HT	14,6	29,1	43,7	51,0	65,5	72,8	80,1	112,1
AQ-414020P-HT	EFE-414020-HT	18,3	36,6	55,0	64,1	82,4	91,6	100,8	141,1

Enclosure types (polyester)		Maximum power dissipation (W) – Tamb. up to **55**°C							
		INTERNAL TEMP.65°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)	INTERNAL TEMP.127°C (T4/T135°C)
AQ-080806P-HT	EFE-080806-HT	1,7	2,6	4,4	5,2	7,0	7,8	8,7	12,5
AQ-080808P-HT	EFE-080808-HT	2,3	3,4	5,7	6,8	9,1	10,2	11,4	16,2
AR-081106P-HT	EFE-081106-HT	2,1	3,2	5,3	6,4	8,5	9,6	10,7	15,2
AR-081108P-HT	EFE-081108-HT	2,8	4,2	7,0	8,4	11,2	12,6	13,9	19,8
AR-081606P-HT	EFE-081606-HT	2,9	4,3	7,2	8,7	11,6	13,0	14,5	20,6
AR-081608P-HT	EFE-081608-HT	3,4	5,1	8,5	10,2	13,7	15,4	17,1	24,3
AR-081906P-HT	EFE-081906-HT	3,2	4,8	8,0	9,6	12,8	14,4	16,0	22,8
AR-081908P-HT	EFE-081908-HT	3,8	5,7	9,4	11,3	15,1	17,0	18,8	26,8
AR-082306P-HT	EFE-082306-HT	3,6	5,4	9,0	10,8	14,4	16,2	18,0	25,6
AR-082308P-HT	EFE-082308-HT	4,2	6,3	10,6	12,7	16,9	19,0	21,1	30,0
AQ-121209P-HT	EFE-121209-HT	4,0	6,0	10,0	12,0	15,9	17,9	19,9	28,3
AR-122209P-HT	EFE-122209-HT	5,4	8,1	13,5	16,2	21,6	24,3	27,0	38,3
AQ-161609P-HT	EFE-161609-HT	5,2	7,8	13,0	15,6	20,8	23,4	26,0	36,9
AR-162609P-HT	EFE-162609-HT	6,7	10,1	16,8	20,1	26,8	30,2	33,5	47,6
AR-163609P-HT	EFE-163609-HT	8,1	12,2	20,3	24,3	32,4	36,5	40,5	57,5
AR-165609P-HT	EFE-165609-HT	10,7	16,0	26,7	32,0	42,7	48,1	53,4	75,8
AQ-202017P-HT	EFE-202017-HT	9,0	13,5	22,4	26,9	35,9	40,4	44,9	63,7
AR-203017P-HT	EFE-203017-HT	10,4	15,7	26,1	31,3	41,7	47,0	52,2	74,0
AQ-252612P-HT	EFE-252612-HT	9,4	14,1	23,5	28,2	37,6	42,4	47,1	66,8
AQ-252616P-HT	EFE-252616-HT	10,4	15,6	26,0	31,1	41,5	46,7	51,9	73,7
AR-254012P-HT	EFE-254012-HT	11,4	17,1	28,5	34,2	45,7	51,4	57,1	81,0
AR-254016P-HT	EFE-254016-HT	13,1	19,6	32,7	39,3	52,4	58,9	65,5	92,9
AR-256012P-HT	EFE-256012-HT	14,5	21,8	36,3	43,6	58,1	65,3	72,6	103,0
AR-304020P-HT	EFE-304020-HT	16,2	24,2	40,4	48,5	64,7	72,7	80,8	114,7
AQ-363609P-HT	EFE-363609-HT	11,5	17,3	28,8	34,6	46,1	51,8	57,6	81,8
AR-406025P-HT	EFE-406025-HT	25,2	37,8	62,9	75,5	100,7	113,3	125,8	178,6
AQ-414012P-HT	EFE-414012-HT	14,6	21,8	36,4	43,7	58,2	65,5	72,8	103,0
AQ-414020P-HT	EFE-414020-HT	18,3	27,5	45,8	55,0	73,3	82,4	91,6	130,0

Enclosure types (polyester)		Maximum power dissipation (W) – Tamb. up to **60**°C						
		INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)	INTERNAL TEMP.127°C (T4/T135°C)
AQ-080806P-HT	EFE-080806-HT	1,7	3,5	4,4	6,1	7,0	7,8	11,7
AQ-080808P-HT	EFE-080808-HT	2,3	4,6	5,7	8,0	9,1	10,2	15,2
AR-081106P-HT	EFE-081106-HT	2,1	4,3	5,3	7,5	8,5	9,6	14,3
AR-081108P-HT	EFE-081108-HT	2,8	5,6	7,0	9,8	11,2	12,6	18,7
AR-081606P-HT	EFE-081606-HT	2,9	5,8	7,2	10,1	11,6	13,0	19,4
AR-081608P-HT	EFE-081608-HT	3,4	6,8	8,5	11,9	13,7	15,4	22,9
AR-081906P-HT	EFE-081906-HT	3,2	6,4	8,0	11,2	12,8	14,4	21,4
AR-081908P-HT	EFE-081908-HT	3,8	7,5	9,4	13,2	15,1	17,0	25,3
AR-082306P-HT	EFE-082306-HT	3,6	7,2	9,0	12,6	14,4	16,2	24,1
AR-082308P-HT	EFE-082308-HT	4,2	8,5	10,6	14,8	16,9	19,0	28,3
AQ-121209P-HT	EFE-121209-HT	4,0	8,0	10,0	14,0	15,9	17,9	26,7
AR-122209P-HT	EFE-122209-HT	5,4	10,8	13,5	18,9	21,6	24,3	36,2
AQ-161609P-HT	EFE-161609-HT	5,2	10,4	13,0	18,2	20,8	23,4	34,8
AR-162609P-HT	EFE-162609-HT	6,7	13,4	16,8	23,5	26,8	30,2	44,9
AR-163609P-HT	EFE-163609-HT	8,1	16,2	20,3	28,4	32,4	36,5	54,2
AR-165609P-HT	EFE-165609-HT	10,7	21,4	26,7	37,4	42,7	48,1	71,5
AQ-202017P-HT	EFE-202017-HT	9,0	18,0	22,4	31,4	35,9	40,4	60,1
AR-203017P-HT	EFE-203017-HT	10,4	20,9	26,1	36,5	41,7	47,0	69,9
AQ-252612P-HT	EFE-252612-HT	9,4	18,8	23,5	32,9	37,6	42,4	63,0
AQ-252616P-HT	EFE-252616-HT	10,4	20,8	26,0	36,3	41,5	46,7	69,5
AR-254012P-HT	EFE-254012-HT	11,4	22,8	28,5	39,9	45,7	51,4	76,5
AR-254016P-HT	EFE-254016-HT	13,1	26,2	32,7	45,8	52,4	58,9	87,7
AR-256012P-HT	EFE-256012-HT	14,5	29,0	36,3	50,8	58,1	65,3	97,2
AR-304020P-HT	EFE-304020-HT	16,2	32,3	40,4	56,6	64,7	72,7	108,3
AQ-363609P-HT	EFE-363609-HT	11,5	23,0	28,8	40,3	46,1	51,8	77,1
AR-406025P-HT	EFE-406025-HT	25,2	50,3	62,9	88,1	100,7	113,3	168,7
AQ-414012P-HT	EFE-414012-HT	14,6	29,1	36,4	51,0	58,2	65,5	97,5
AQ-414020P-HT	EFE-414020-HT	18,3	36,6	45,8	64,1	73,3	82,4	122,7

Enclosure types (polyester)		Maximum power dissipation (W) Tamb. up to **95**°C		
		INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)	INTERNAL TEMP.127°C (T4/T135°C)
AQ-080806P-HT	EFE-080806-HT	0,9	1,7	5,6
AQ-080808P-HT	EFE-080808-HT	1,1	2,3	7,3
AR-081106P-HT	EFE-081106-HT	1,1	2,1	6,5
AR-081108P-HT	EFE-081108-HT	1,4	2,8	9,0
AR-081606P-HT	EFE-081606-HT	1,4	2,9	9,2
AR-081608P-HT	EFE-081608-HT	1,7	3,4	10,9
AR-081906P-HT	EFE-081906-HT	1,6	3,2	10,2
AR-081908P-HT	EFE-081908-HT	1,9	3,8	12,1
AR-082306P-HT	EFE-082306-HT	1,8	3,6	11,5
AR-082308P-HT	EFE-082308-HT	2,1	4,2	13,5
AQ-121209P-HT	EFE-121209-HT	2,0	4,0	12,8
AR-122209P-HT	EFE-122209-HT	2,7	5,4	17,3
AQ-161609P-HT	EFE-161609-HT	2,6	5,2	16,6
AR-162609P-HT	EFE-162609-HT	3,4	6,7	21,5
AR-163609P-HT	EFE-163609-HT	4,1	8,1	26,0
AR-165609P-HT	EFE-165609-HT	5,3	10,7	34,2
AQ-202017P-HT	EFE-202017-HT	4,5	9,0	28,7
AR-203017P-HT	EFE-203017-HT	5,2	10,4	33,4
AQ-252612P-HT	EFE-252612-HT	4,7	9,4	30,1
AQ-252616P-HT	EFE-252616-HT	5,2	10,4	33,2
AR-254012P-HT	EFE-254012-HT	5,7	11,4	36,5
AR-254016P-HT	EFE-254016-HT	6,5	13,1	41,9
AR-256012P-HT	EFE-256012-HT	7,3	14,5	46,4
AR-304020P-HT	EFE-304020-HT	8,1	16,2	51,8
AQ-363609P-HT	EFE-363609-HT	5,8	11,5	36,8
AR-406025P-HT	EFE-406025-HT	12,6	25,2	80,6
AQ-414012P-HT	EFE-414012-HT	7,3	14,6	46,6
AQ-414020P-HT	EFE-414020-HT	9,2	18,3	58,6

Power dissipation – HT aluminium alloy enclosures

Enclosure types (aluminium)		Maximum power dissipation (W) – Tamb. up to **40**°C							
		INTERNAL TEMP.60°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)	INTERNAL TEMP.130°C (T4/T135°C)
AQ-080806AL-HT	EFXE-080806AL-HT	5,2	7,8	10,4	11,7	14,3	15,6	16,9	23,4
AR-081306AL-HT	EFXE-081306AL-HT	7,0	10,6	14,1	15,9	19,4	21,2	23,0	31,8
AR-081806AL-HT	EFXE-081806AL-HT	8,9	13,3	17,8	20,0	24,5	26,7	28,9	40,0
AR-082505AL-HT	EFXE-082505AL-HT	10,9	16,4	21,9	24,7	30,1	32,9	35,6	49,4
AQ-101008AL-HT	EFXE-101008AL-HT	8,7	13,0	17,4	19,6	23,9	26,1	28,3	39,2
AR-101608AL-HT	EFXE-101608AL-HT	11,5	17,3	23,1	26,0	31,8	34,7	37,6	52,0
AR-102008AL-HT	EFXE-102008AL-HT	13,4	20,1	26,8	30,2	36,9	40,3	43,6	60,4
AQ-121208AL-HT	EFXE-121208AL-HT	10,8	16,2	21,6	24,3	29,7	32,4	35,1	48,6
AQ-121209AL-HT	EFXE-121209AL-HT	11,6	17,5	23,3	26,2	32,1	35,0	37,9	52,5
AR-122208AL-HT	EFXE-122208AL-HT	15,6	23,5	31,3	35,3	43,1	47,0	50,9	70,6
AR-122209AL-HT	EFXE-122209AL-HT	16,8	25,3	33,7	37,9	46,3	50,6	54,8	75,9
AR-123608AL-HT	EFXE-123608AL-HT	22,3	33,5	44,7	50,3	61,5	67,1	72,7	100,7
AQ-141409AL-HT	EFXE-141409AL-HT	13,7	20,6	27,5	31,0	37,9	41,3	44,8	62,0
AR-142009AL-HT	EFXE-142009AL-HT	17,1	25,7	34,2	38,5	47,1	51,4	55,7	77,1
AQ-161609AL-HT	EFXE-161609AL-HT	16,1	24,1	32,2	36,2	44,2	48,3	52,3	72,4
AR-162609AL-HT	EFXE-162609AL-HT	21,9	32,8	43,8	49,3	60,2	65,7	71,2	98,6
AR-163609AL-HT	EFXE-163609AL-HT	27,5	41,3	55,1	62,0	75,7	82,6	89,5	124,0
AR-165609AL-HT	EFXE-165609AL-HT	38,4	57,7	76,9	86,6	105,8	115,4	125,0	173,2
AQ-181810AL-HT	EFXE-181810AL-HT	19,7	29,6	39,5	44,4	54,3	59,2	64,2	88,8
AR-182810AL-HT	EFXE-182810AL-HT	26,1	39,1	52,2	58,7	71,8	78,3	84,8	117,5
AR-102311AL-HT	EFXE-102311AL-HT	18,2	27,3	36,5	41,0	50,1	54,7	59,3	82,1
AR-202311AL-HT	EFXE-202311AL-HT	26,1	39,1	52,2	58,7	71,7	78,3	84,8	117,4
AR-202318AL-HT	EFXE-202318AL-HT	35,9	53,9	71,8	80,8	98,8	107,8	116,8	161,7
AR-232811AL-HT	EFXE-232811AL-HT	31,6	47,5	63,3	71,3	87,1	95,0	103,0	142,6
AR-233311AL-HT	EFXE-233311AL-HT	35,3	52,9	70,6	79,4	97,0	105,9	114,7	158,8
AR-233318AL-HT	EFXE-233318AL-HT	47,5	71,3	95,1	107,0	130,8	142,7	154,6	214,1
AR-234011AL-HT	EFXE-234011AL-HT	40,2	60,4	80,5	90,6	110,7	120,8	130,9	181,2
AR-234023AL-HT	EFXE-234023AL-HT	62,2	93,3	124,5	140,0	171,2	186,7	202,3	280,1
AR-236011AL-HT	EFXE-236011AL-HT	54,1	81,2	108,3	121,9	148,9	162,5	176,0	243,8
AR-314011AL-HT	EFXE-314011AL-HT	48,6	72,9	97,2	109,3	133,6	145,8	157,9	218,7
AR-314014AL-HT	EFXE-314014AL-HT	54,9	82,4	109,9	123,7	151,2	164,9	178,7	247,4
AR-314018AL-HT	EFXE-314018AL-HT	63,8	95,7	127,6	143,5	175,4	191,4	207,3	287,1
AR-314023AL-HT	EFXE-314023AL-HT	73,5	110,3	147,1	165,5	202,3	220,7	239,1	331,0
AR-316011AL-HT	EFXE-316011AL-HT	64,0	96,0	128,1	144,1	176,1	192,1	208,1	288,2
AR-316018AL-HT	EFXE-316018AL-HT	82,7	124,1	165,5	186,2	227,6	248,3	268,9	372,4
AQ-606020AL-HT	EFXE-606020AL-HT	129,1	193,7	258,3	290,5	355,1	387,4	419,7	581,1

Enclosure types (aluminium)		Maximum power dissipation (W) – Tamb. up to **50**°C							
		INTERNAL TEMP.60°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)	INTERNAL TEMP.130°C (T4/T135°C)
AQ-080806AL-HT	EFXE-080806AL-HT	2,6	5,2	7,8	9,1	11,7	13,0	14,3	20,8
AR-081306AL-HT	EFXE-081306AL-HT	3,5	7,0	10,6	12,3	15,9	17,7	19,4	28,3
AR-081806AL-HT	EFXE-081806AL-HT	4,4	8,9	13,3	15,5	20,0	22,2	24,5	35,6
AR-082505AL-HT	EFXE-082505AL-HT	5,4	10,9	16,4	19,2	24,7	27,4	30,1	43,9
AQ-101008AL-HT	EFXE-101008AL-HT	4,3	8,7	13,0	15,2	19,6	21,7	23,9	34,8
AR-101608AL-HT	EFXE-101608AL-HT	5,7	11,5	17,3	20,2	26,0	28,9	31,8	46,2
AR-102008AL-HT	EFXE-102008AL-HT	6,7	13,4	20,1	23,5	30,2	33,5	36,9	53,7
AQ-121208AL-HT	EFXE-121208AL-HT	5,4	10,8	16,2	18,9	24,3	27,0	29,7	43,2
AQ-121209AL-HT	EFXE-121209AL-HT	5,8	11,6	17,5	20,4	26,2	29,2	32,1	46,7
AR-122208AL-HT	EFXE-122208AL-HT	7,8	15,6	23,5	27,4	35,3	39,2	43,1	62,7
AR-122209AL-HT	EFXE-122209AL-HT	8,4	16,8	25,3	29,5	37,9	42,1	46,3	67,4
AR-123608AL-HT	EFXE-123608AL-HT	11,1	22,3	33,5	39,1	50,3	55,9	61,5	89,5
AQ-141409AL-HT	EFXE-141409AL-HT	6,8	13,7	20,6	24,1	31,0	34,4	37,9	55,1
AR-142009AL-HT	EFXE-142009AL-HT	8,5	17,1	25,7	30,0	38,5	42,8	47,1	68,5
AQ-161609AL-HT	EFXE-161609AL-HT	8,0	16,1	24,1	28,1	36,2	40,2	44,2	64,4
AR-162609AL-HT	EFXE-162609AL-HT	10,9	21,9	32,8	38,3	49,3	54,8	60,2	87,6
AR-163609AL-HT	EFXE-163609AL-HT	13,7	27,5	41,3	48,2	62,0	68,9	75,7	110,2
AR-165609AL-HT	EFXE-165609AL-HT	19,2	38,4	57,7	67,3	86,6	96,2	105,8	153,9
AQ-181810AL-HT	EFXE-181810AL-HT	9,8	19,7	29,6	34,5	44,4	49,3	54,3	79,0
AR-182810AL-HT	EFXE-182810AL-HT	13,0	26,1	39,1	45,7	58,7	65,2	71,8	104,4
AR-102311AL-HT	EFXE-102311AL-HT	9,1	18,2	27,3	31,9	41,0	45,6	50,1	73,0
AR-202311AL-HT	EFXE-202311AL-HT	13,0	26,1	39,1	45,6	58,7	65,2	71,7	104,4
AR-202318AL-HT	EFXE-202318AL-HT	17,9	35,9	53,9	62,8	80,8	89,8	98,8	143,7
AR-232811AL-HT	EFXE-232811AL-HT	15,8	31,6	47,5	55,4	71,3	79,2	87,1	126,7
AR-233311AL-HT	EFXE-233311AL-HT	17,6	35,3	52,9	61,7	79,4	88,2	97,0	141,2
AR-233318AL-HT	EFXE-233318AL-HT	23,7	47,5	71,3	83,2	107,0	118,9	130,8	190,3
AR-234011AL-HT	EFXE-234011AL-HT	20,1	40,2	60,4	70,5	90,6	100,7	110,7	161,1
AR-234023AL-HT	EFXE-234023AL-HT	31,1	62,2	93,3	108,9	140,0	155,6	171,2	249,0
AR-236011AL-HT	EFXE-236011AL-HT	27,0	54,1	81,2	94,8	121,9	135,4	148,9	216,7
AR-314011AL-HT	EFXE-314011AL-HT	24,3	48,6	72,9	85,0	109,3	121,5	133,6	194,4
AR-314014AL-HT	EFXE-314014AL-HT	27,4	54,9	82,4	96,2	123,7	137,4	151,2	219,9
AR-314018AL-HT	EFXE-314018AL-HT	31,9	63,8	95,7	111,6	143,5	159,5	175,4	255,2
AR-314023AL-HT	EFXE-314023AL-HT	36,7	73,5	110,3	128,7	165,5	183,9	202,3	294,2
AR-316011AL-HT	EFXE-316011AL-HT	32,0	64,0	96,0	112,0	144,1	160,1	176,1	256,2
AR-316018AL-HT	EFXE-316018AL-HT	41,3	82,7	124,1	144,8	186,2	206,9	227,6	331,0
AQ-606020AL-HT	EFXE-606020AL-HT	64,5	129,1	193,7	226,0	290,5	322,8	355,1	516,6

Enclosure types (aluminium)		Maximum power dissipation (W) – Tamb. up to **55**°C							
		INTERNAL TEMP.65°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)	INTERNAL TEMP.130°C (T4/T135°C)
AQ-080806AL-HT	EFXE-080806AL-HT	2,6	3,9	6,5	7,8	10,4	11,7	13,0	19,5
AR-081306AL-HT	EFXE-081306AL-HT	3,5	5,3	8,8	10,6	14,1	15,9	17,7	26,5
AR-081806AL-HT	EFXE-081806AL-HT	4,4	6,6	11,1	13,3	17,8	20,0	22,2	33,4
AR-082505AL-HT	EFXE-082505AL-HT	5,4	8,2	13,7	16,4	21,9	24,7	27,4	41,1
AQ-101008AL-HT	EFXE-101008AL-HT	4,3	6,5	10,8	13,0	17,4	19,6	21,7	32,6
AR-101608AL-HT	EFXE-101608AL-HT	5,7	8,6	14,4	17,3	23,1	26,0	28,9	43,3
AR-102008AL-HT	EFXE-102008AL-HT	6,7	10,0	16,7	20,1	26,8	30,2	33,5	50,3
AQ-121208AL-HT	EFXE-121208AL-HT	5,4	8,1	13,5	16,2	21,6	24,3	27,0	40,5
AQ-121209AL-HT	EFXE-121209AL-HT	5,8	8,7	14,6	17,5	23,3	26,2	29,2	43,8
AR-122208AL-HT	EFXE-122208AL-HT	7,8	11,7	19,6	23,5	31,3	35,3	39,2	58,8
AR-122209AL-HT	EFXE-122209AL-HT	8,4	12,6	21,0	25,3	33,7	37,9	42,1	63,2
AR-123608AL-HT	EFXE-123608AL-HT	11,1	16,7	27,9	33,5	44,7	50,3	55,9	83,9
AQ-141409AL-HT	EFXE-141409AL-HT	6,8	10,3	17,2	20,6	27,5	31,0	34,4	51,7
AR-142009AL-HT	EFXE-142009AL-HT	8,5	12,8	21,4	25,7	34,2	38,5	42,8	64,3
AQ-161609AL-HT	EFXE-161609AL-HT	8,0	12,0	20,1	24,1	32,2	36,2	40,2	60,4
AR-162609AL-HT	EFXE-162609AL-HT	10,9	16,4	27,4	32,8	43,8	49,3	54,8	82,2
AR-163609AL-HT	EFXE-163609AL-HT	13,7	20,6	34,4	41,3	55,1	62,0	68,9	103,3
AR-165609AL-HT	EFXE-165609AL-HT	19,2	28,8	48,1	57,7	76,9	86,6	96,2	144,3
AQ-181810AL-HT	EFXE-181810AL-HT	9,8	14,8	24,6	29,6	39,5	44,4	49,3	74,0
AR-182810AL-HT	EFXE-182810AL-HT	13,0	19,5	32,6	39,1	52,2	58,7	65,2	97,9
AR-102311AL-HT	EFXE-102311AL-HT	9,1	13,6	22,8	27,3	36,5	41,0	45,6	68,4
AR-202311AL-HT	EFXE-202311AL-HT	13,0	19,5	32,6	39,1	52,2	58,7	65,2	97,9
AR-202318AL-HT	EFXE-202318AL-HT	17,9	26,9	44,9	53,9	71,8	80,8	89,8	134,7
AR-232811AL-HT	EFXE-232811AL-HT	15,8	23,7	39,6	47,5	63,3	71,3	79,2	118,8
AR-233311AL-HT	EFXE-233311AL-HT	17,6	26,4	44,1	52,9	70,6	79,4	88,2	132,3
AR-233318AL-HT	EFXE-233318AL-HT	23,7	35,6	59,4	71,3	95,1	107,0	118,9	178,4
AR-234011AL-HT	EFXE-234011AL-HT	20,1	30,2	50,3	60,4	80,5	90,6	100,7	151,0
AR-234023AL-HT	EFXE-234023AL-HT	31,1	46,6	77,8	93,3	124,5	140,0	155,6	233,4
AR-236011AL-HT	EFXE-236011AL-HT	27,0	40,6	67,7	81,2	108,3	121,9	135,4	203,1
AR-314011AL-HT	EFXE-314011AL-HT	24,3	36,4	60,7	72,9	97,2	109,3	121,5	182,3
AR-314014AL-HT	EFXE-314014AL-HT	27,4	41,2	68,7	82,4	109,9	123,7	137,4	206,2
AR-314018AL-HT	EFXE-314018AL-HT	31,9	47,8	79,7	95,7	127,6	143,5	159,5	239,2
AR-314023AL-HT	EFXE-314023AL-HT	36,7	55,1	91,9	110,3	147,1	165,5	183,9	275,8
AR-316011AL-HT	EFXE-316011AL-HT	32,0	48,0	80,0	96,0	128,1	144,1	160,1	240,1
AR-316018AL-HT	EFXE-316018AL-HT	41,3	62,0	103,4	124,1	165,5	186,2	206,9	310,3
AQ-606020AL-HT	EFXE-606020AL-HT	64,5	96,8	161,4	193,7	258,3	290,5	322,8	484,3

Enclosure types (aluminium)		Maximum power dissipation (W) – Tamb. up to **60**°C						
		INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)	INTERNAL TEMP.130°C (T4/T135°C)
AQ-080806AL-HT	EFXE-080806AL-HT	2,6	5,2	6,5	9,1	10,4	11,7	18,2
AR-081306AL-HT	EFXE-081306AL-HT	3,5	7,0	8,8	12,3	14,1	15,9	24,7
AR-081806AL-HT	EFXE-081806AL-HT	4,4	8,9	11,1	15,5	17,8	20,0	31,1
AR-082505AL-HT	EFXE-082505AL-HT	5,4	10,9	13,7	19,2	21,9	24,7	38,4
AQ-101008AL-HT	EFXE-101008AL-HT	4,3	8,7	10,8	15,2	17,4	19,6	30,4
AR-101608AL-HT	EFXE-101608AL-HT	5,7	11,5	14,4	20,2	23,1	26,0	40,5
AR-102008AL-HT	EFXE-102008AL-HT	6,7	13,4	16,7	23,5	26,8	30,2	47,0
AQ-121208AL-HT	EFXE-121208AL-HT	5,4	10,8	13,5	18,9	21,6	24,3	37,8
AQ-121209AL-HT	EFXE-121209AL-HT	5,8	11,6	14,6	20,4	23,3	26,2	40,8
AR-122208AL-HT	EFXE-122208AL-HT	7,8	15,6	19,6	27,4	31,3	35,3	54,9
AR-122209AL-HT	EFXE-122209AL-HT	8,4	16,8	21,0	29,5	33,7	37,9	59,0
AR-123608AL-HT	EFXE-123608AL-HT	11,1	22,3	27,9	39,1	44,7	50,3	78,3
AQ-141409AL-HT	EFXE-141409AL-HT	6,8	13,7	17,2	24,1	27,5	31,0	48,2
AR-142009AL-HT	EFXE-142009AL-HT	8,5	17,1	21,4	30,0	34,2	38,5	60,0
AQ-161609AL-HT	EFXE-161609AL-HT	8,0	16,1	20,1	28,1	32,2	36,2	56,3
AR-162609AL-HT	EFXE-162609AL-HT	10,9	21,9	27,4	38,3	43,8	49,3	76,7
AR-163609AL-HT	EFXE-163609AL-HT	13,7	27,5	34,4	48,2	55,1	62,0	96,4
AR-165609AL-HT	EFXE-165609AL-HT	19,2	38,4	48,1	67,3	76,9	86,6	134,7
AQ-181810AL-HT	EFXE-181810AL-HT	9,8	19,7	24,6	34,5	39,5	44,4	69,1
AR-182810AL-HT	EFXE-182810AL-HT	13,0	26,1	32,6	45,7	52,2	58,7	91,4
AR-102311AL-HT	EFXE-102311AL-HT	9,1	18,2	22,8	31,9	36,5	41,0	63,8
AR-202311AL-HT	EFXE-202311AL-HT	13,0	26,1	32,6	45,6	52,2	58,7	91,3
AR-202318AL-HT	EFXE-202318AL-HT	17,9	35,9	44,9	62,8	71,8	80,8	125,7
AR-232811AL-HT	EFXE-232811AL-HT	15,8	31,6	39,6	55,4	63,3	71,3	110,9
AR-233311AL-HT	EFXE-233311AL-HT	17,6	35,3	44,1	61,7	70,6	79,4	123,5
AR-233318AL-HT	EFXE-233318AL-HT	23,7	47,5	59,4	83,2	95,1	107,0	166,5
AR-234011AL-HT	EFXE-234011AL-HT	20,1	40,2	50,3	70,5	80,5	90,6	141,0
AR-234023AL-HT	EFXE-234023AL-HT	31,1	62,2	77,8	108,9	124,5	140,0	217,9
AR-236011AL-HT	EFXE-236011AL-HT	27,0	54,1	67,7	94,8	108,3	121,9	189,6
AR-314011AL-HT	EFXE-314011AL-HT	24,3	48,6	60,7	85,0	97,2	109,3	170,1
AR-314014AL-HT	EFXE-314014AL-HT	27,4	54,9	68,7	96,2	109,9	123,7	192,4
AR-314018AL-HT	EFXE-314018AL-HT	31,9	63,8	79,7	111,6	127,6	143,5	223,3
AR-314023AL-HT	EFXE-314023AL-HT	36,7	73,5	91,9	128,7	147,1	165,5	257,4
AR-316011AL-HT	EFXE-316011AL-HT	32,0	64,0	80,0	112,0	128,1	144,1	224,1
AR-316018AL-HT	EFXE-316018AL-HT	41,3	82,7	103,4	144,8	165,5	186,2	289,6
AQ-606020AL-HT	EFXE-606020AL-HT	64,5	129,1	161,4	226,0	258,3	290,5	452,0

Enclosure types (aluminium)		Maximum power dissipation (W) Tamb. up to **95**°C		
		INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)	INTERNAL TEMP.130°C (T4/T135°C)
AQ-080806AL-HT	EFXE-080806AL-HT	1,3	2,6	9,1
AR-081306AL-HT	EFXE-081306AL-HT	1,7	3,5	12,3
AR-081806AL-HT	EFXE-081806AL-HT	2,2	4,4	15,5
AR-082505AL-HT	EFXE-082505AL-HT	2,7	5,4	19,2
AQ-101008AL-HT	EFXE-101008AL-HT	2,1	4,3	15,2
AR-101608AL-HT	EFXE-101608AL-HT	2,8	5,7	20,2
AR-102008AL-HT	EFXE-102008AL-HT	3,3	6,7	23,5
AQ-121208AL-HT	EFXE-121208AL-HT	2,7	5,4	18,9
AQ-121209AL-HT	EFXE-121209AL-HT	2,9	5,8	20,4
AR-122208AL-HT	EFXE-122208AL-HT	3,9	7,8	27,4
AR-122209AL-HT	EFXE-122209AL-HT	4,2	8,4	29,5
AR-123608AL-HT	EFXE-123608AL-HT	5,5	11,1	39,1
AQ-141409AL-HT	EFXE-141409AL-HT	3,4	6,8	24,1
AR-142009AL-HT	EFXE-142009AL-HT	4,2	8,5	30,0
AQ-161609AL-HT	EFXE-161609AL-HT	4,0	8,0	28,1
AR-162609AL-HT	EFXE-162609AL-HT	5,4	10,9	38,3
AR-163609AL-HT	EFXE-163609AL-HT	6,8	13,7	48,2
AR-165609AL-HT	EFXE-165609AL-HT	9,6	19,2	67,3
AQ-181810AL-HT	EFXE-181810AL-HT	4,9	9,8	34,5
AR-182810AL-HT	EFXE-182810AL-HT	6,5	13,0	45,7
AR-102311AL-HT	EFXE-102311AL-HT	4,5	9,1	31,9
AR-202311AL-HT	EFXE-202311AL-HT	6,5	13,0	45,6
AR-202318AL-HT	EFXE-202318AL-HT	8,9	17,9	62,8
AR-232811AL-HT	EFXE-232811AL-HT	7,9	15,8	55,4
AR-233311AL-HT	EFXE-233311AL-HT	8,8	17,6	61,7
AR-233318AL-HT	EFXE-233318AL-HT	11,8	23,7	83,2
AR-234011AL-HT	EFXE-234011AL-HT	10,0	20,1	70,5
AR-234023AL-HT	EFXE-234023AL-HT	15,5	31,1	108,9
AR-236011AL-HT	EFXE-236011AL-HT	13,5	27,0	94,8
AR-314011AL-HT	EFXE-314011AL-HT	12,1	24,3	85,0
AR-314014AL-HT	EFXE-314014AL-HT	13,7	27,4	96,2
AR-314018AL-HT	EFXE-314018AL-HT	15,9	31,9	111,6
AR-314023AL-HT	EFXE-314023AL-HT	18,3	36,7	128,7
AR-316011AL-HT	EFXE-316011AL-HT	16,0	32,0	112,0
AR-316018AL-HT	EFXE-316018AL-HT	20,6	41,3	144,8
AQ-606020AL-HT	EFXE-606020AL-HT	32,2	64,5	226,0

Power dissipation – Glass fiber reinforced polyester resin enclosures

Enclosure types (polyester)		Maximum power dissipation (W) – Tamb. up to **40**°C						
		INTERNAL TEMP.60°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
AQ-080806P	EFE-080806	3,4	5,2	6,9	7,8	9,5	10,4	11,3
AQ-080808P	EFE-080808	4,5	6,8	9,1	10,2	12,5	13,6	14,7
AR-081106P	EFE-081106	4,2	6,4	8,5	9,6	11,7	12,8	13,8
AR-081606P	EFE-081606	5,7	8,6	11,5	13,0	15,9	17,3	18,8
AR-081906P	EFE-081906	6,4	9,6	12,8	14,4	17,6	19,2	20,8
AQ-121209P	EFE-121209	7,9	11,9	15,9	17,9	21,9	23,9	25,9
AR-122209P	EFE-122209	10,8	16,2	21,6	24,3	29,7	32,4	35,1
AQ-161609P	EFE-161609	10,3	15,5	20,7	23,3	28,5	31,1	33,7
AR-162609P	EFE-162609	13,4	20,1	26,8	30,1	36,8	40,2	43,5
AR-163609P	EFE-163609	16,2	24,3	32,4	36,4	44,5	48,6	52,6
AQ-252612P	EFE-252612	18,8	28,2	37,6	42,3	51,7	56,4	61,1
AQ-252616P	EFE-252616	21,7	32,6	43,5	49,0	59,9	65,3	70,8
AR-254012P	EFE-254012	23,9	35,9	47,9	53,9	65,9	71,8	77,8
AR-254016P	EFE-254016	27,4	41,2	54,9	61,8	75,6	82,4	89,3
AR-256012P	EFE-256012	29,0	43,5	58,0	65,3	79,8	87,1	94,3
AQ-414012P	EFE-414012	29,1	43,6	58,2	65,5	80,0	87,3	94,6
AQ-414016P	EFE-414016	32,9	49,4	65,9	74,1	90,6	98,8	107,0

Enclosure types (polyester)		Maximum power dissipation (W) – Tamb. up to **50**°C						
		INTERNAL TEMP.60°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
AQ-080806P	EFE-080806	1,7	3,4	5,2	6,0	7,8	8,7	9,5
AQ-080808P	EFE-080808	2,2	4,5	6,8	7,9	10,2	11,3	12,5
AR-081106P	EFE-081106	2,1	4,2	6,4	7,4	9,6	10,6	11,7
AR-081606P	EFE-081606	2,8	5,7	8,6	10,1	13,0	14,4	15,9
AR-081906P	EFE-081906	3,2	6,4	9,6	11,2	14,4	16,0	17,6
AQ-121209P	EFE-121209	3,9	7,9	11,9	13,9	17,9	19,9	21,9
AR-122209P	EFE-122209	5,4	10,8	16,2	18,9	24,3	27,0	29,7
AQ-161609P	EFE-161609	5,1	10,3	15,5	18,1	23,3	25,9	28,5
AR-162609P	EFE-162609	6,7	13,4	20,1	23,4	30,1	33,5	36,8
AR-163609P	EFE-163609	8,1	16,2	24,3	28,3	36,4	40,5	44,5
AQ-252612P	EFE-252612	9,4	18,8	28,2	32,9	42,3	47,0	51,7
AQ-252616P	EFE-252616	10,8	21,7	32,6	38,1	49,0	54,4	59,9
AR-254012P	EFE-254012	11,9	23,9	35,9	41,9	53,9	59,9	65,9
AR-254016P	EFE-254016	13,7	27,4	41,2	48,1	61,8	68,7	75,6
AR-256012P	EFE-256012	14,5	29,0	43,5	50,8	65,3	72,6	79,8
AQ-414012P	EFE-414012	14,5	29,1	43,6	50,9	65,5	72,7	80,0
AQ-414016P	EFE-414016	16,4	32,9	49,4	57,6	74,1	82,3	90,6

Enclosure types (polyester)		Maximum power dissipation (W) – Tamb. up to **55**°C						
		INTERNAL TEMP.65°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
AQ-080806P	EFE-080806	1,7	2,6	4,3	5,2	6,9	7,8	8,7
AQ-080808P	EFE-080808	2,2	3,4	5,6	6,8	9,1	10,2	11,3
AR-081106P	EFE-081106	2,1	3,2	5,3	6,4	8,5	9,6	10,6
AR-081606P	EFE-081606	2,8	4,3	7,2	8,6	11,5	13,0	14,4
AR-081906P	EFE-081906	3,2	4,8	8,0	9,6	12,8	14,4	16,0
AQ-121209P	EFE-121209	3,9	5,9	9,9	11,9	15,9	17,9	19,9
AR-122209P	EFE-122209	5,4	8,1	13,5	16,2	21,6	24,3	27,0
AQ-161609P	EFE-161609	5,1	7,7	12,9	15,5	20,7	23,3	25,9
AR-162609P	EFE-162609	6,7	10,0	16,7	20,1	26,8	30,1	33,5
AR-163609P	EFE-163609	8,1	12,1	20,2	24,3	32,4	36,4	40,5
AQ-252612P	EFE-252612	9,4	14,1	23,5	28,2	37,6	42,3	47,0
AQ-252616P	EFE-252616	10,8	16,3	27,2	32,6	43,5	49,0	54,4
AR-254012P	EFE-254012	11,9	17,9	29,9	35,9	47,9	53,9	59,9
AR-254016P	EFE-254016	13,7	20,6	34,3	41,2	54,9	61,8	68,7
AR-256012P	EFE-256012	14,5	21,7	36,3	43,5	58,0	65,3	72,6
AQ-414012P	EFE-414012	14,5	21,8	36,3	43,6	58,2	65,5	72,7
AQ-414016P	EFE-414016	16,4	24,7	41,1	49,4	65,9	74,1	82,3

Enclosure types (polyester)		Maximum power dissipation (W) – Tamb. up to **60**°C					
		INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
AQ-080806P	EFE-080806	1,7	3,4	4,3	6,0	6,9	7,8
AQ-080808P	EFE-080808	2,2	4,5	5,6	7,9	9,1	10,2
AR-081106P	EFE-081106	2,1	4,2	5,3	7,4	8,5	9,6
AR-081606P	EFE-081606	2,8	5,7	7,2	10,1	11,5	13,0
AR-081906P	EFE-081906	3,2	6,4	8,0	11,2	12,8	14,4
AQ-121209P	EFE-121209	3,9	7,9	9,9	13,9	15,9	17,9
AR-122209P	EFE-122209	5,4	10,8	13,5	18,9	21,6	24,3
AQ-161609P	EFE-161609	5,1	10,3	12,9	18,1	20,7	23,3
AR-162609P	EFE-162609	6,7	13,4	16,7	23,4	26,8	30,1
AR-163609P	EFE-163609	8,1	16,2	20,2	28,3	32,4	36,4
AQ-252612P	EFE-252612	9,4	18,8	23,5	32,9	37,6	42,3
AQ-252616P	EFE-252616	10,8	21,7	27,2	38,1	43,5	49,0
AR-254012P	EFE-254012	11,9	23,9	29,9	41,9	47,9	53,9
AR-254016P	EFE-254016	13,7	27,4	34,3	48,1	54,9	61,8
AR-256012P	EFE-256012	14,5	29,0	36,3	50,8	58,0	65,3
AQ-414012P	EFE-414012	14,5	29,1	36,3	50,9	58,2	65,5
AQ-414016P	EFE-414016	16,4	32,9	41,1	57,6	65,9	74,1

Enclosure types (polyester)		Maximum power dissipation (W) – Tamb. up to **95**°C	
		INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
AQ-080806P	EFE-080806	0,8	1,7
AQ-080808P	EFE-080808	1,1	2,2
AR-081106P	EFE-081106	1,0	2,1
AR-081606P	EFE-081606	1,4	2,8
AR-081906P	EFE-081906	1,6	3,2
AQ-121209P	EFE-121209	1,9	3,9
AR-122209P	EFE-122209	2,7	5,4
AQ-161609P	EFE-161609	2,5	5,1
AR-162609P	EFE-162609	3,3	6,7
AR-163609P	EFE-163609	4,0	8,1
AQ-252612P	EFE-252612	4,7	9,4
AQ-252616P	EFE-252616	5,4	10,8
AR-254012P	EFE-254012	5,9	11,9
AR-254016P	EFE-254016	6,8	13,7
AR-256012P	EFE-256012	7,2	14,5
AQ-414012P	EFE-414012	7,2	14,5
AQ-414016P	EFE-414016	8,2	16,4

Power dissipation – Aluminium alloy enclosures

Enclosure types (aluminium)		Maximum power dissipation (W) – Tamb. up to **40**°C						
		INTERNAL TEMP.60°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
AQ-080806AL	EFXE-080806AL	5,2	7,8	10,4	11,7	14,3	15,6	16,9
AR-081306AL	EFXE-081306AL	7,0	10,6	14,1	15,9	19,4	21,2	23,0
AR-081806AL	EFXE-081806AL	8,9	13,3	17,8	20,0	24,5	26,7	28,9
AR-081808AL	EFXE-081808AL	11,0	16,5	22,1	24,8	30,4	33,1	35,9
AR-082505AL	EFXE-082505AL	10,7	16,1	21,4	24,1	29,5	32,2	34,8
AR-082508AL	EFXE-082508AL	14,2	21,4	28,5	32,1	39,2	42,8	46,4
AQ-101008AL	EFXE-101008AL	8,7	13,0	17,4	19,6	23,9	26,1	28,3
AR-101508AL	EFXE-101508AL	11,1	16,6	22,2	24,9	30,5	33,3	36,0
AR-101608AL	EFXE-101608AL	11,5	17,3	23,1	26,0	31,8	34,7	37,6
AR-102008AL	EFXE-102008AL	13,4	20,1	26,8	30,2	36,9	40,3	43,6
AQ-121208AL	EFXE-121208AL	10,8	16,2	21,6	24,3	29,7	32,4	35,1
AR-122209AL	EFXE-122209AL	16,8	25,3	33,7	37,9	46,3	50,6	54,8
AQ-141409AL	EFXE-141409AL	13,7	20,6	27,5	31,0	37,9	41,3	44,8
AR-142009AL	EFXE-142009AL	17,1	25,7	34,2	38,5	47,1	51,4	55,7
AQ-161609AL	EFXE-161609AL	17,2	25,8	34,4	38,7	47,3	51,6	55,9
AR-162410AL	EFXE-162410AL	22,1	33,1	44,2	49,7	60,8	66,3	71,8
AR-162609AL	EFXE-162609AL	21,9	32,8	43,8	49,3	60,2	65,7	71,2
AQ-181810AL	EFXE-181810AL	19,7	29,6	39,5	44,4	54,3	59,2	64,2
AR-182810AL	EFXE-182810AL	26,1	39,1	52,2	58,7	71,8	78,3	84,8
AR-202311AL	EFXE-202311AL	25,8	38,7	51,6	58,0	71,0	77,4	83,9
AR-202318AL	EFXE-202318AL	35,5	53,3	71,1	80,0	97,8	106,7	115,6
AR-232811AL	EFXE-232811AL	31,6	47,5	63,3	71,3	87,1	95,0	103,0
AR-233312AL	EFXE-233312AL	37,0	55,6	74,1	83,4	101,9	111,2	120,5
AR-233318AL	EFXE-233318AL	47,5	71,3	95,1	107,0	130,8	142,7	154,6

Enclosure types (aluminium)		Maximum power dissipation (W) – Tamb. up to **50**°C						
		INTERNAL TEMP.60°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
AQ-080806AL	EFXE-080806AL	2,6	5,2	7,8	9,1	11,7	13,0	14,3
AR-081306AL	EFXE-081306AL	3,5	7,0	10,6	12,3	15,9	17,7	19,4
AR-081806AL	EFXE-081806AL	4,4	8,9	13,3	15,5	20,0	22,2	24,5
AR-081808AL	EFXE-081808AL	5,5	11,0	16,5	19,3	24,8	27,6	30,4
AR-082505AL	EFXE-082505AL	5,3	10,7	16,1	18,7	24,1	26,8	29,5
AR-082508AL	EFXE-082508AL	7,1	14,2	21,4	24,9	32,1	35,7	39,2
AQ-101008AL	EFXE-101008AL	4,3	8,7	13,0	15,2	19,6	21,7	23,9
AR-101508AL	EFXE-101508AL	5,5	11,1	16,6	19,4	24,9	27,7	30,5
AR-101608AL	EFXE-101608AL	5,7	11,5	17,3	20,2	26,0	28,9	31,8
AR-102008AL	EFXE-102008AL	6,7	13,4	20,1	23,5	30,2	33,5	36,9
AQ-121208AL	EFXE-121208AL	5,4	10,8	16,2	18,9	24,3	27,0	29,7
AR-122209AL	EFXE-122209AL	8,4	16,8	25,3	29,5	37,9	42,1	46,3
AQ-141409AL	EFXE-141409AL	6,8	13,7	20,6	24,1	31,0	34,4	37,9
AR-142009AL	EFXE-142009AL	8,5	17,1	25,7	30,0	38,5	42,8	47,1
AQ-161609AL	EFXE-161609AL	8,6	17,2	25,8	30,1	38,7	43,0	47,3
AR-162410AL	EFXE-162410AL	11,0	22,1	33,1	38,7	49,7	55,3	60,8
AR-162609AL	EFXE-162609AL	10,9	21,9	32,8	38,3	49,3	54,8	60,2
AQ-181810AL	EFXE-181810AL	9,8	19,7	29,6	34,5	44,4	49,3	54,3
AR-182810AL	EFXE-182810AL	13,0	26,1	39,1	45,7	58,7	65,2	71,8
AR-202311AL	EFXE-202311AL	12,9	25,8	38,7	45,1	58,0	64,5	71,0
AR-202318AL	EFXE-202318AL	17,7	35,5	53,3	62,2	80,0	88,9	97,8
AR-232811AL	EFXE-232811AL	15,8	31,6	47,5	55,4	71,3	79,2	87,1
AR-233312AL	EFXE-233312AL	18,5	37,0	55,6	64,8	83,4	92,7	101,9
AR-233318AL	EFXE-233318AL	23,7	47,5	71,3	83,2	107,0	118,9	130,8

Enclosure types (aluminium)		Maximum power dissipation (W) – Tamb. up to **55**°C						
		INTERNAL TEMP.65°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
AQ-080806AL	EFXE-080806AL	2,6	3,9	6,5	7,8	10,4	11,7	13,0
AR-081306AL	EFXE-081306AL	3,5	5,3	8,8	10,6	14,1	15,9	17,7
AR-081806AL	EFXE-081806AL	4,4	6,6	11,1	13,3	17,8	20,0	22,2
AR-081808AL	EFXE-081808AL	5,5	8,2	13,8	16,5	22,1	24,8	27,6
AR-082505AL	EFXE-082505AL	5,3	8,0	13,4	16,1	21,4	24,1	26,8
AR-082508AL	EFXE-082508AL	7,1	10,7	17,8	21,4	28,5	32,1	35,7
AQ-101008AL	EFXE-101008AL	4,3	6,5	10,8	13,0	17,4	19,6	21,7
AR-101508AL	EFXE-101508AL	5,5	8,3	13,8	16,6	22,2	24,9	27,7
AR-101608AL	EFXE-101608AL	5,7	8,6	14,4	17,3	23,1	26,0	28,9
AR-102008AL	EFXE-102008AL	6,7	10,0	16,7	20,1	26,8	30,2	33,5
AQ-121208AL	EFXE-121208AL	5,4	8,1	13,5	16,2	21,6	24,3	27,0
AR-122209AL	EFXE-122209AL	8,4	12,6	21,0	25,3	33,7	37,9	42,1
AQ-141409AL	EFXE-141409AL	6,8	10,3	17,2	20,6	27,5	31,0	34,4
AR-142009AL	EFXE-142009AL	8,5	12,8	21,4	25,7	34,2	38,5	42,8
AQ-161609AL	EFXE-161609AL	8,6	12,9	21,5	25,8	34,4	38,7	43,0
AR-162410AL	EFXE-162410AL	11,0	16,5	27,6	33,1	44,2	49,7	55,3
AR-162609AL	EFXE-162609AL	10,9	16,4	27,4	32,8	43,8	49,3	54,8
AQ-181810AL	EFXE-181810AL	9,8	14,8	24,6	29,6	39,5	44,4	49,3
AR-182810AL	EFXE-182810AL	13,0	19,5	32,6	39,1	52,2	58,7	65,2
AR-202311AL	EFXE-202311AL	12,9	19,3	32,2	38,7	51,6	58,0	64,5
AR-202318AL	EFXE-202318AL	17,7	26,6	44,4	53,3	71,1	80,0	88,9
AR-232811AL	EFXE-232811AL	15,8	23,7	39,6	47,5	63,3	71,3	79,2
AR-233312AL	EFXE-233312AL	18,5	27,8	46,3	55,6	74,1	83,4	92,7
AR-233318AL	EFXE-233318AL	23,7	35,6	59,4	71,3	95,1	107,0	118,9

Enclosure types (aluminium)		Maximum power dissipation (W) – Tamb. up to **60**°C					
		INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
AQ-080806AL	EFXE-080806AL	2,6	5,2	6,5	9,1	10,4	11,7
AR-081306AL	EFXE-081306AL	3,5	7,0	8,8	12,3	14,1	15,9
AR-081806AL	EFXE-081806AL	4,4	8,9	11,1	15,5	17,8	20,0
AR-081808AL	EFXE-081808AL	5,5	11,0	13,8	19,3	22,1	24,8
AR-082505AL	EFXE-082505AL	5,3	10,7	13,4	18,7	21,4	24,1
AR-082508AL	EFXE-082508AL	7,1	14,2	17,8	24,9	28,5	32,1
AQ-101008AL	EFXE-101008AL	4,3	8,7	10,8	15,2	17,4	19,6
AR-101508AL	EFXE-101508AL	5,5	11,1	13,8	19,4	22,2	24,9
AR-101608AL	EFXE-101608AL	5,7	11,5	14,4	20,2	23,1	26,0
AR-102008AL	EFXE-102008AL	6,7	13,4	16,7	23,5	26,8	30,2
AQ-121208AL	EFXE-121208AL	5,4	10,8	13,5	18,9	21,6	24,3
AR-122209AL	EFXE-122209AL	8,4	16,8	21,0	29,5	33,7	37,9
AQ-141409AL	EFXE-141409AL	6,8	13,7	17,2	24,1	27,5	31,0
AR-142009AL	EFXE-142009AL	8,5	17,1	21,4	30,0	34,2	38,5
AQ-161609AL	EFXE-161609AL	8,6	17,2	21,5	30,1	34,4	38,7
AR-162410AL	EFXE-162410AL	11,0	22,1	27,6	38,7	44,2	49,7
AR-162609AL	EFXE-162609AL	10,9	21,9	27,4	38,3	43,8	49,3
AQ-181810AL	EFXE-181810AL	9,8	19,7	24,6	34,5	39,5	44,4
AR-182810AL	EFXE-182810AL	13,0	26,1	32,6	45,7	52,2	58,7
AR-202311AL	EFXE-202311AL	12,9	25,8	32,2	45,1	51,6	58,0
AR-202318AL	EFXE-202318AL	17,7	35,5	44,4	62,2	71,1	80,0
AR-232811AL	EFXE-232811AL	15,8	31,6	39,6	55,4	63,3	71,3
AR-233312AL	EFXE-233312AL	18,5	37,0	46,3	64,8	74,1	83,4
AR-233318AL	EFXE-233318AL	23,7	47,5	59,4	83,2	95,1	107,0

Enclosure types (aluminium)		Maximum power dissipation (W) – Tamb. up to **95**°C	
		INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
AQ-080806AL	EFXE-080806AL	1,3	2,6
AR-081306AL	EFXE-081306AL	1,7	3,5
AR-081806AL	EFXE-081806AL	2,2	4,4
AR-081808AL	EFXE-081808AL	2,7	5,5
AR-082505AL	EFXE-082505AL	2,6	5,3
AR-082508AL	EFXE-082508AL	3,5	7,1
AQ-101008AL	EFXE-101008AL	2,1	4,3
AR-101508AL	EFXE-101508AL	2,7	5,5
AR-101608AL	EFXE-101608AL	2,8	5,7
AR-102008AL	EFXE-102008AL	3,3	6,7
AQ-121208AL	EFXE-121208AL	2,7	5,4
AR-122209AL	EFXE-122209AL	4,2	8,4
AQ-141409AL	EFXE-141409AL	3,4	6,8
AR-142009AL	EFXE-142009AL	4,2	8,5
AQ-161609AL	EFXE-161609AL	4,3	8,6
AR-162410AL	EFXE-162410AL	5,5	11,0
AR-162609AL	EFXE-162609AL	5,4	10,9
AQ-181810AL	EFXE-181810AL	4,9	9,8
AR-182810AL	EFXE-182810AL	6,5	13,0
AR-202311AL	EFXE-202311AL	6,4	12,9
AR-202318AL	EFXE-202318AL	8,8	17,7
AR-232811AL	EFXE-232811AL	7,9	15,8
AR-233312AL	EFXE-233312AL	9,2	18,5
AR-233318AL	EFXE-233318AL	11,8	23,7

Power dissipation – Stainless steel enclosures SB series

Enclosure types (stainless steel)		Maximum power dissipation (W) – Tamb. up to **40**°C						
		INTERNAL TEMP.60°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
SB-101210	EFXE-101210SB	5,5	8,3	11,1	12,5	15,3	16,7	18,1
SB-151510	EFXE-151510SB	8,0	12,0	16,0	18,0	22,0	24,0	26,1
SB-142013	EFXE-142013SB	10,4	15,7	20,9	23,5	28,8	31,4	34,0
SB-202010	EFXE-202010SB	10,7	16,1	21,4	24,1	29,5	32,2	34,8
SB-202016	EFXE-202016SB	13,9	20,8	27,8	31,3	38,3	41,7	45,2
SB-202713	EFXE-202713SB	14,4	21,6	28,9	32,5	39,7	43,3	46,9
SB-272713	EFXE-272713SB	16,7	25,1	33,5	37,7	46,0	50,2	54,4
SB-203016	EFXE-203016SB	17,1	25,7	34,3	38,6	47,2	51,4	55,7
SB-273513	EFXE-273513SB	19,2	28,9	38,5	43,3	53,0	57,8	62,6
SB-282816	EFXE-282816SB	19,3	29,0	38,7	43,6	53,3	58,1	63,0
SB-204016	EFXE-204016SB	20,2	30,3	40,4	45,5	55,6	60,6	65,7
SB-353516	EFXE-353516SB	24,4	36,6	48,8	54,9	67,1	73,2	79,3
SB-282827	EFXE-282827SB	26,2	39,3	52,5	59,0	72,2	78,7	85,3
SB-355016	EFXE-355016SB	29,7	44,5	59,4	66,8	81,7	89,1	96,6
SB-383816	EFXE-383816SB	26,6	39,9	53,2	59,8	73,1	79,8	86,5
SB-384516	EFXE-384516SB	29,1	43,7	58,3	65,6	80,2	87,5	94,8
SB-385716	EFXE-385716SB	33,4	50,1	66,8	75,2	91,9	100,3	108,7
SB-505016	EFXE-505016SB	35,8	53,8	71,7	80,7	98,6	107,6	116,6
SB-383827	EFXE-383827SB	35,1	52,7	70,2	79,0	96,6	105,4	114,2
SB-575716	EFXE-575716SB	41,5	62,3	83,1	93,5	114,3	124,7	135,1
SB-577620	EFXE-577620SB	53,9	80,9	107,9	121,3	148,3	161,8	175,3
SB-575730	EFXE-575730SB	55,8	83,7	111,6	125,6	153,5	167,5	181,4
SB-769520	EFXE-769520SB	72,2	108,3	144,4	162,4	198,5	216,6	234,6
SB-1258040	EFXE-1258040SB	72,2	108,3	144,4	162,4	198,5	216,6	234,6

Enclosure types (Stainless steel)		Maximum power dissipation (W) – Tamb. up to **50**°C						
		INTERNAL TEMP.60°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
SB-101210	EFXE-101210SB	2,7	5,5	8,3	9,7	12,5	13,9	15,3
SB-151510	EFXE-151510SB	4,0	8,0	12,0	14,0	18,0	20,0	22,0
SB-142013	EFXE-142013SB	5,2	10,4	15,7	18,3	23,5	26,2	28,8
SB-202010	EFXE-202010SB	5,3	10,7	16,1	18,7	24,1	26,8	29,5
SB-202016	EFXE-202016SB	6,9	13,9	20,8	24,3	31,3	34,8	38,3
SB-202713	EFXE-202713SB	7,2	14,4	21,6	25,2	32,5	36,1	39,7
SB-272713	EFXE-272713SB	8,3	16,7	25,1	29,3	37,7	41,8	46,0
SB-203016	EFXE-203016SB	8,5	17,1	25,7	30,0	38,6	42,9	47,2
SB-273513	EFXE-273513SB	9,6	19,2	28,9	33,7	43,3	48,2	53,0
SB-282816	EFXE-282816SB	9,6	19,3	29,0	33,9	43,6	48,4	53,3
SB-204016	EFXE-204016SB	10,1	20,2	30,3	35,4	45,5	50,5	55,6
SB-353516	EFXE-353516SB	12,2	24,4	36,6	42,7	54,9	61,0	67,1
SB-282827	EFXE-282827SB	13,1	26,2	39,3	45,9	59,0	65,6	72,2
SB-355016	EFXE-355016SB	14,8	29,7	44,5	52,0	66,8	74,3	81,7
SB-383816	EFXE-383816SB	13,3	26,6	39,9	46,5	59,8	66,5	73,1
SB-384516	EFXE-384516SB	14,5	29,1	43,7	51,0	65,6	72,9	80,2
SB-385716	EFXE-385716SB	16,7	33,4	50,1	58,5	75,2	83,6	91,9
SB-505016	EFXE-505016SB	17,9	35,8	53,8	62,7	80,7	89,7	98,6
SB-383827	EFXE-383827SB	17,5	35,1	52,7	61,4	79,0	87,8	96,6
SB-575716	EFXE-575716SB	20,7	41,5	62,3	72,7	93,5	103,9	114,3
SB-577620	EFXE-577620SB	26,9	53,9	80,9	94,4	121,3	134,8	148,3
SB-575730	EFXE-575730SB	27,9	55,8	83,7	97,7	125,6	139,5	153,5
SB-769520	EFXE-769520SB	36,1	72,2	108,3	126,3	162,4	180,5	198,5
SB-1258040	EFXE-1258040SB	36,1	72,2	108,3	126,3	162,4	180,5	198,5

Enclosure types (Stainless steel)		Maximum power dissipation (W) – Tamb. up to **55**°C						
		INTERNAL TEMP.65°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
SB-101210	EFXE-101210SB	2,7	4,1	6,9	8,3	11,1	12,5	13,9
SB-151510	EFXE-151510SB	4,0	6,0	10,0	12,0	16,0	18,0	20,0
SB-142013	EFXE-142013SB	5,2	7,8	13,1	15,7	20,9	23,5	26,2
SB-202010	EFXE-202010SB	5,3	8,0	13,4	16,1	21,4	24,1	26,8
SB-202016	EFXE-202016SB	6,9	10,4	17,4	20,8	27,8	31,3	34,8
SB-202713	EFXE-202713SB	7,2	10,8	18,0	21,6	28,9	32,5	36,1
SB-272713	EFXE-272713SB	8,3	12,5	20,9	25,1	33,5	37,7	41,8
SB-203016	EFXE-203016SB	8,5	12,8	21,4	25,7	34,3	38,6	42,9
SB-273513	EFXE-273513SB	9,6	14,4	24,1	28,9	38,5	43,3	48,2
SB-282816	EFXE-282816SB	9,6	14,5	24,2	29,0	38,7	43,6	48,4
SB-204016	EFXE-204016SB	10,1	15,1	25,2	30,3	40,4	45,5	50,5
SB-353516	EFXE-353516SB	12,2	18,3	30,5	36,6	48,8	54,9	61,0
SB-282827	EFXE-282827SB	13,1	19,6	32,8	39,3	52,5	59,0	65,6
SB-355016	EFXE-355016SB	14,8	22,2	37,1	44,5	59,4	66,8	74,3
SB-383816	EFXE-383816SB	13,3	19,9	33,2	39,9	53,2	59,8	66,5
SB-384516	EFXE-384516SB	14,5	21,8	36,4	43,7	58,3	65,6	72,9
SB-385716	EFXE-385716SB	16,7	25,0	41,8	50,1	66,8	75,2	83,6
SB-505016	EFXE-505016SB	17,9	26,9	44,8	53,8	71,7	80,7	89,7
SB-383827	EFXE-383827SB	17,5	26,3	43,9	52,7	70,2	79,0	87,8
SB-575716	EFXE-575716SB	20,7	31,1	51,9	62,3	83,1	93,5	103,9
SB-577620	EFXE-577620SB	26,9	40,4	67,4	80,9	107,9	121,3	134,8
SB-575730	EFXE-575730SB	27,9	41,8	69,7	83,7	111,6	125,6	139,5
SB-769520	EFXE-769520SB	36,1	54,1	90,2	108,3	144,4	162,4	180,5
SB-1258040	EFXE-1258040SB	36,1	54,1	90,2	108,3	144,4	162,4	180,5

Enclosure types (Stainless steel)		Maximum power dissipation (W) – Tamb. up to **60**°C					
		INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
SB-101210	EFXE-101210SB	2,7	5,5	6,9	9,7	11,1	12,5
SB-151510	EFXE-151510SB	4,0	8,0	10,0	14,0	16,0	18,0
SB-142013	EFXE-142013SB	5,2	10,4	13,1	18,3	20,9	23,5
SB-202010	EFXE-202010SB	5,3	10,7	13,4	18,7	21,4	24,1
SB-202016	EFXE-202016SB	6,9	13,9	17,4	24,3	27,8	31,3
SB-202713	EFXE-202713SB	7,2	14,4	18,0	25,2	28,9	32,5
SB-272713	EFXE-272713SB	8,3	16,7	20,9	29,3	33,5	37,7
SB-203016	EFXE-203016SB	8,5	17,1	21,4	30,0	34,3	38,6
SB-273513	EFXE-273513SB	9,6	19,2	24,1	33,7	38,5	43,3
SB-282816	EFXE-282816SB	9,6	19,3	24,2	33,9	38,7	43,6
SB-204016	EFXE-204016SB	10,1	20,2	25,2	35,4	40,4	45,5
SB-353516	EFXE-353516SB	12,2	24,4	30,5	42,7	48,8	54,9
SB-282827	EFXE-282827SB	13,1	26,2	32,8	45,9	52,5	59,0
SB-355016	EFXE-355016SB	14,8	29,7	37,1	52,0	59,4	66,8
SB-383816	EFXE-383816SB	13,3	26,6	33,2	46,5	53,2	59,8
SB-384516	EFXE-384516SB	14,5	29,1	36,4	51,0	58,3	65,6
SB-385716	EFXE-385716SB	16,7	33,4	41,8	58,5	66,8	75,2
SB-505016	EFXE-505016SB	17,9	35,8	44,8	62,7	71,7	80,7
SB-383827	EFXE-383827SB	17,5	35,1	43,9	61,4	70,2	79,0
SB-575716	EFXE-575716SB	20,7	41,5	51,9	72,7	83,1	93,5
SB-577620	EFXE-577620SB	26,9	53,9	67,4	94,4	107,9	121,3
SB-575730	EFXE-575730SB	27,9	55,8	69,7	97,7	111,6	125,6
SB-769520	EFXE-769520SB	36,1	72,2	90,2	126,3	144,4	162,4
SB-1258040	EFXE-1258040SB	36,1	72,2	90,2	126,3	144,4	162,4

Enclosure types (Stainless steel)		Maximum power dissipation (W) – Tamb. up to **95**°C	
		INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
SB-101210	EFXE-101210SB	1,3	2,7
SB-151510	EFXE-151510SB	2,0	4,0
SB-142013	EFXE-142013SB	2,6	5,2
SB-202010	EFXE-202010SB	2,6	5,3
SB-202016	EFXE-202016SB	3,4	6,9
SB-202713	EFXE-202713SB	3,6	7,2
SB-272713	EFXE-272713SB	4,1	8,3
SB-203016	EFXE-203016SB	4,2	8,5
SB-273513	EFXE-273513SB	4,8	9,6
SB-282816	EFXE-282816SB	4,8	9,6
SB-204016	EFXE-204016SB	5,0	10,1
SB-353516	EFXE-353516SB	6,1	12,2
SB-282827	EFXE-282827SB	6,5	13,1
SB-355016	EFXE-355016SB	7,4	14,8
SB-383816	EFXE-383816SB	6,6	13,3
SB-384516	EFXE-384516SB	7,2	14,5
SB-385716	EFXE-385716SB	8,3	16,7
SB-505016	EFXE-505016SB	8,9	17,9
SB-383827	EFXE-383827SB	8,7	17,5
SB-575716	EFXE-575716SB	10,3	20,7
SB-577620	EFXE-577620SB	13,4	26,9
SB-575730	EFXE-575730SB	13,9	27,9
SB-769520	EFXE-769520SB	18,0	36,1
SB-1258040	EFXE-1258040SB	18,0	36,1

Power dissipation – Stainless steel enclosures ST series

Enclosure types (Stainless steel)		Maximum power dissipation (W) – Tamb. up to **40**°C						
		INTERNAL TEMP.60°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
ST-101210	EFXE-101210ST	5,5	8,3	11,1	12,5	15,3	16,7	18,1
ST-151510	EFXE-151510ST	8,0	12,0	16,0	18,0	22,0	24,0	26,1
ST-142013	EFXE-142013ST	10,4	15,7	20,9	23,5	28,8	31,4	34,0
ST-202010	EFXE-202010ST	10,7	16,1	21,4	24,1	29,5	32,2	34,8
ST-202016	EFXE-202016ST	13,9	20,8	27,8	31,3	38,3	41,7	45,2
ST-202713	EFXE-202713ST	14,4	21,6	28,9	32,5	39,7	43,3	46,9
ST-272713	EFXE-272713ST	16,7	25,1	33,5	37,7	46,0	50,2	54,4
ST-203016	EFXE-203016ST	17,1	25,7	34,3	38,6	47,2	51,4	55,7
ST-273513	EFXE-273513ST	19,2	28,9	38,5	43,3	53,0	57,8	62,6
ST-282816	EFXE-282816ST	19,3	29,0	38,7	43,6	53,3	58,1	63,0
ST-204016	EFXE-204016ST	20,2	30,3	40,4	45,5	55,6	60,6	65,7
ST-353516	EFXE-353516ST	24,4	36,6	48,8	54,9	67,1	73,2	79,3
ST-282827	EFXE-282827ST	26,2	39,3	52,5	59,0	72,2	78,7	85,3
ST-355016	EFXE-355016ST	29,7	44,5	59,4	66,8	81,7	89,1	96,6
ST-383816	EFXE-383816ST	26,6	39,9	53,2	59,8	73,1	79,8	86,5
ST-384516	EFXE-384516ST	29,1	43,7	58,3	65,6	80,2	87,5	94,8
ST-385716	EFXE-385716ST	33,4	50,1	66,8	75,2	91,9	100,3	108,7
ST-505016	EFXE-505016ST	35,8	53,8	71,7	80,7	98,6	107,6	116,6
ST-383827	EFXE-383827ST	35,1	52,7	70,2	79,0	96,6	105,4	114,2
ST-575716	EFXE-575716ST	41,5	62,3	83,1	93,5	114,3	124,7	135,1
ST-577620	EFXE-577620ST	53,9	80,9	107,9	121,3	148,3	161,8	175,3
ST-575730	EFXE-575730ST	55,8	83,7	111,6	125,6	153,5	167,5	181,4
ST-769520	EFXE-769520ST	72,2	108,3	144,4	162,4	198,5	216,6	234,6
ST-1258040	EFXE-1258040ST	72,2	108,3	144,4	162,4	198,5	216,6	234,6

Enclosure types (Stainless steel)		Maximum power dissipation (W) – Tamb. up to **50**°C						
		INTERNAL TEMP.60°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
ST-101210	EFXE-101210ST	2,7	5,5	8,3	9,7	12,5	13,9	15,3
ST-151510	EFXE-151510ST	4,0	8,0	12,0	14,0	18,0	20,0	22,0
ST-142013	EFXE-142013ST	5,2	10,4	15,7	18,3	23,5	26,2	28,8
ST-202010	EFXE-202010ST	5,3	10,7	16,1	18,7	24,1	26,8	29,5
ST-202016	EFXE-202016ST	6,9	13,9	20,8	24,3	31,3	34,8	38,3
ST-202713	EFXE-202713ST	7,2	14,4	21,6	25,2	32,5	36,1	39,7
ST-272713	EFXE-272713ST	8,3	16,7	25,1	29,3	37,7	41,8	46,0
ST-203016	EFXE-203016ST	8,5	17,1	25,7	30,0	38,6	42,9	47,2
ST-273513	EFXE-273513ST	9,6	19,2	28,9	33,7	43,3	48,2	53,0
ST-282816	EFXE-282816ST	9,6	19,3	29,0	33,9	43,6	48,4	53,3
ST-204016	EFXE-204016ST	10,1	20,2	30,3	35,4	45,5	50,5	55,6
ST-353516	EFXE-353516ST	12,2	24,4	36,6	42,7	54,9	61,0	67,1
ST-282827	EFXE-282827ST	13,1	26,2	39,3	45,9	59,0	65,6	72,2
ST-355016	EFXE-355016ST	14,8	29,7	44,5	52,0	66,8	74,3	81,7
ST-383816	EFXE-383816ST	13,3	26,6	39,9	46,5	59,8	66,5	73,1
ST-384516	EFXE-384516ST	14,5	29,1	43,7	51,0	65,6	72,9	80,2
ST-385716	EFXE-385716ST	16,7	33,4	50,1	58,5	75,2	83,6	91,9
ST-505016	EFXE-505016ST	17,9	35,8	53,8	62,7	80,7	89,7	98,6
ST-383827	EFXE-383827ST	17,5	35,1	52,7	61,4	79,0	87,8	96,6
ST-575716	EFXE-575716ST	20,7	41,5	62,3	72,7	93,5	103,9	114,3
ST-577620	EFXE-577620ST	26,9	53,9	80,9	94,4	121,3	134,8	148,3
ST-575730	EFXE-575730ST	27,9	55,8	83,7	97,7	125,6	139,5	153,5
ST-769520	EFXE-769520ST	36,1	72,2	108,3	126,3	162,4	180,5	198,5
ST-1258040	EFXE-1258040ST	36,1	72,2	108,3	126,3	162,4	180,5	198,5

Enclosure types (Stainless steel)		Maximum power dissipation (W) – Tamb. up to **55**°C						
		INTERNAL TEMP.65°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
ST-101210	EFXE-101210ST	2,7	4,1	6,9	8,3	11,1	12,5	13,9
ST-151510	EFXE-151510ST	4,0	6,0	10,0	12,0	16,0	18,0	20,0
ST-142013	EFXE-142013ST	5,2	7,8	13,1	15,7	20,9	23,5	26,2
ST-202010	EFXE-202010ST	5,3	8,0	13,4	16,1	21,4	24,1	26,8
ST-202016	EFXE-202016ST	6,9	10,4	17,4	20,8	27,8	31,3	34,8
ST-202713	EFXE-202713ST	7,2	10,8	18,0	21,6	28,9	32,5	36,1
ST-272713	EFXE-272713ST	8,3	12,5	20,9	25,1	33,5	37,7	41,8
ST-203016	EFXE-203016ST	8,5	12,8	21,4	25,7	34,3	38,6	42,9
ST-273513	EFXE-273513ST	9,6	14,4	24,1	28,9	38,5	43,3	48,2
ST-282816	EFXE-282816ST	9,6	14,5	24,2	29,0	38,7	43,6	48,4
ST-204016	EFXE-204016ST	10,1	15,1	25,2	30,3	40,4	45,5	50,5
ST-353516	EFXE-353516ST	12,2	18,3	30,5	36,6	48,8	54,9	61,0
ST-282827	EFXE-282827ST	13,1	19,6	32,8	39,3	52,5	59,0	65,6
ST-355016	EFXE-355016ST	14,8	22,2	37,1	44,5	59,4	66,8	74,3
ST-383816	EFXE-383816ST	13,3	19,9	33,2	39,9	53,2	59,8	66,5
ST-384516	EFXE-384516ST	14,5	21,8	36,4	43,7	58,3	65,6	72,9
ST-385716	EFXE-385716ST	16,7	25,0	41,8	50,1	66,8	75,2	83,6
ST-505016	EFXE-505016ST	17,9	26,9	44,8	53,8	71,7	80,7	89,7
ST-383827	EFXE-383827ST	17,5	26,3	43,9	52,7	70,2	79,0	87,8
ST-575716	EFXE-575716ST	20,7	31,1	51,9	62,3	83,1	93,5	103,9
ST-577620	EFXE-577620ST	26,9	40,4	67,4	80,9	107,9	121,3	134,8
ST-575730	EFXE-575730ST	27,9	41,8	69,7	83,7	111,6	125,6	139,5
ST-769520	EFXE-769520ST	36,1	54,1	90,2	108,3	144,4	162,4	180,5
ST-1258040	EFXE-1258040ST	36,1	54,1	90,2	108,3	144,4	162,4	180,5

Enclosure types (Stainless steel)		Maximum power dissipation (W) – Tamb. up to **60**°C					
		INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
ST-101210	EFXE-101210ST	2,7	5,5	6,9	9,7	11,1	12,5
ST-151510	EFXE-151510ST	4,0	8,0	10,0	14,0	16,0	18,0
ST-142013	EFXE-142013ST	5,2	10,4	13,1	18,3	20,9	23,5
ST-202010	EFXE-202010ST	5,3	10,7	13,4	18,7	21,4	24,1
ST-202016	EFXE-202016ST	6,9	13,9	17,4	24,3	27,8	31,3
ST-202713	EFXE-202713ST	7,2	14,4	18,0	25,2	28,9	32,5
ST-272713	EFXE-272713ST	8,3	16,7	20,9	29,3	33,5	37,7
ST-203016	EFXE-203016ST	8,5	17,1	21,4	30,0	34,3	38,6
ST-273513	EFXE-273513ST	9,6	19,2	24,1	33,7	38,5	43,3
ST-282816	EFXE-282816ST	9,6	19,3	24,2	33,9	38,7	43,6
ST-204016	EFXE-204016ST	10,1	20,2	25,2	35,4	40,4	45,5
ST-353516	EFXE-353516ST	12,2	24,4	30,5	42,7	48,8	54,9
ST-282827	EFXE-282827ST	13,1	26,2	32,8	45,9	52,5	59,0
ST-355016	EFXE-355016ST	14,8	29,7	37,1	52,0	59,4	66,8
ST-383816	EFXE-383816ST	13,3	26,6	33,2	46,5	53,2	59,8
ST-384516	EFXE-384516ST	14,5	29,1	36,4	51,0	58,3	65,6
ST-385716	EFXE-385716ST	16,7	33,4	41,8	58,5	66,8	75,2
ST-505016	EFXE-505016ST	17,9	35,8	44,8	62,7	71,7	80,7
ST-383827	EFXE-383827ST	17,5	35,1	43,9	61,4	70,2	79,0
ST-575716	EFXE-575716ST	20,7	41,5	51,9	72,7	83,1	93,5
ST-577620	EFXE-577620ST	26,9	53,9	67,4	94,4	107,9	121,3
ST-575730	EFXE-575730ST	27,9	55,8	69,7	97,7	111,6	125,6
ST-769520	EFXE-769520ST	36,1	72,2	90,2	126,3	144,4	162,4
ST-1258040	EFXE-1258040ST	36,1	72,2	90,2	126,3	144,4	162,4

Enclosure types (Stainless steel)		Maximum power dissipation (W) – Tamb. up to **95**°C	
		INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
ST-101210	EFXE-101210ST	1,3	2,7
ST-151510	EFXE-151510ST	2,0	4,0
ST-142013	EFXE-142013ST	2,6	5,2
ST-202010	EFXE-202010ST	2,6	5,3
ST-202016	EFXE-202016ST	3,4	6,9
ST-202713	EFXE-202713ST	3,6	7,2
ST-272713	EFXE-272713ST	4,1	8,3
ST-203016	EFXE-203016ST	4,2	8,5
ST-273513	EFXE-273513ST	4,8	9,6
ST-282816	EFXE-282816ST	4,8	9,6
ST-204016	EFXE-204016ST	5,0	10,1
ST-353516	EFXE-353516ST	6,1	12,2
ST-282827	EFXE-282827ST	6,5	13,1
ST-355016	EFXE-355016ST	7,4	14,8
ST-383816	EFXE-383816ST	6,6	13,3
ST-384516	EFXE-384516ST	7,2	14,5
ST-385716	EFXE-385716ST	8,3	16,7
ST-505016	EFXE-505016ST	8,9	17,9
ST-383827	EFXE-383827ST	8,7	17,5
ST-575716	EFXE-575716ST	10,3	20,7
ST-577620	EFXE-577620ST	13,4	26,9
ST-575730	EFXE-575730ST	13,9	27,9
ST-769520	EFXE-769520ST	18,0	36,1
ST-1258040	EFXE-1258040ST	18,0	36,1

Maximum Power Dissipation calculation

The values specified in the tables as per clause 2.1.1 may be modified within the maximum admitted Tamb and maximum admitted internal temperature as follows.

$$Pdiss\ (W) = \frac{Tmax - Tamb}{Rth}$$

$Rth = A \times (\text{enclosure surface in } mm^2 \text{ except enclosure bottom})^B$

Legend:
Rth – Thermal resistance [K/W].
Tmax – Maximum allowed temperature inside enclosure.
Tamb – Ambient temperature of enclosure
A and B - coefficients determined for each series of enclosure. Exact values are given in manufacturer's documentation.

Warning labels:

WARNING – DO NOT OPEN WHEN ENERGIZED (*)
(*) Not mandatory for apparatus with protection type Ex ia Ga and Ex ib Gb.

WARNING – POTENTIAL ELECTROSTATIC CHARGING HAZARD – SEE INSTRUCTIONS

To be added when the enclosures or parts of them have a surface resistance more than 10^9 Ω or 10^{11} Ω according to IEC 60079-0 Clause 7.4.2 a), as applicable, and as per following cases:

- are equipped with transparent parts made of polycarbonate.
- for category II 2 G / EPL Gb Gas group IIC: are painted and the paint layer thickness is > 0.2mm.
- for category II 2 G / EPL Gb Gas group IIB: are painted and the paint layer thickness is > 2mm.
- for category II 2 D / EPL Db: are painted and the paint layer thickness is > 2mm.
- for category II 2 G / EPL Gb Gas group IIC: not conductive individual materials (labels), applied on painted enclosures, have exposed (chargeable area) > 2000mm^2 or, not conductive individual materials (labels), applied on unpainted (conductive earthed surface) enclosures, have exposed (chargeable area) > 8000mm^2.
- for category II 2 G /EPL Gb Gas group IIB: not conductive individual materials (labels), applied on painted enclosures, have exposed (chargeable area) > 10000mm^2 or, not conductive individual materials (labels), applied on unpainted (conductive earthed surface) enclosures, have exposed (chargeable area) > 40000mm^2.

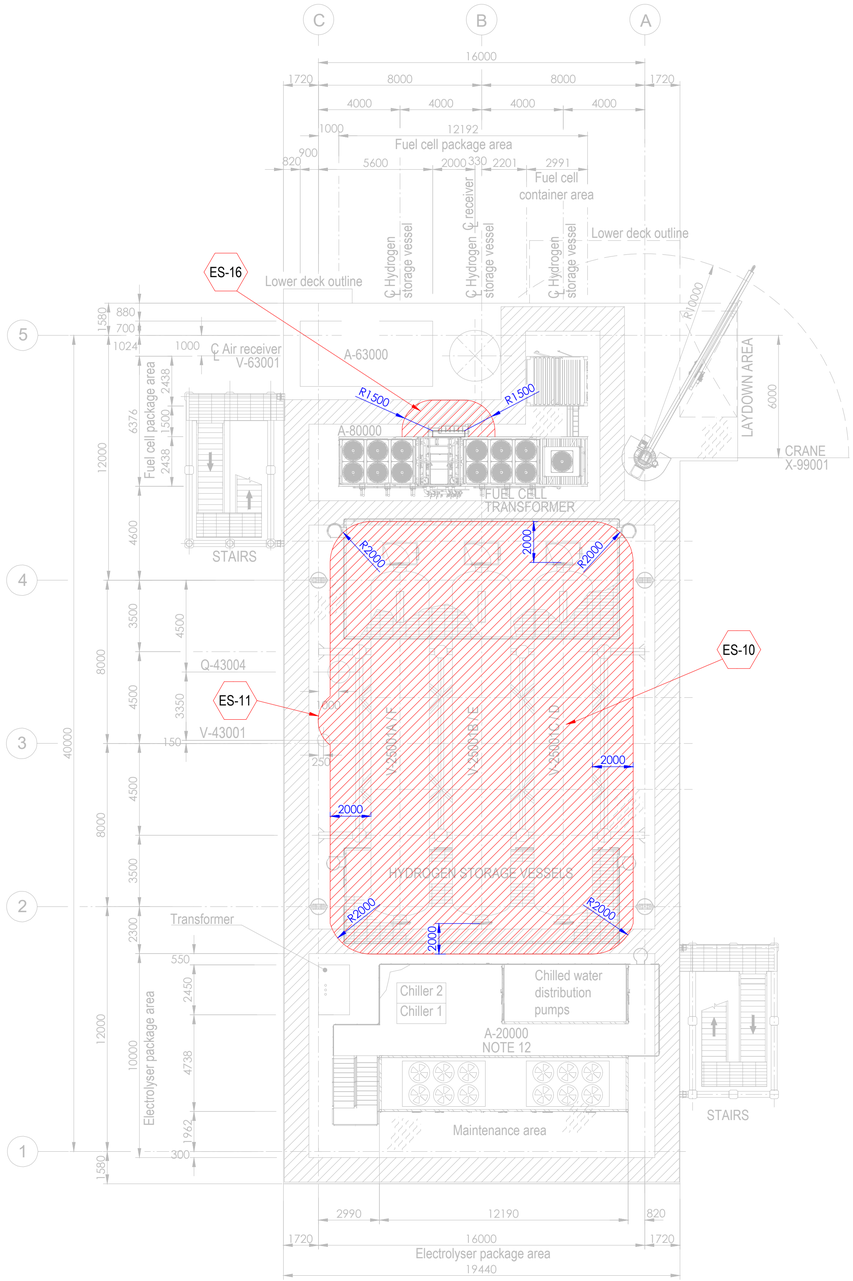
OPEN THE VALVE ONLY WHEN THE APPARATUS IS DE-ENERGIZED AND ONLY WHEN AN EXPLOSIVE DUST ATMOSPHERE IS NOT PRESENT
To be added on Ex tb apparatus equipped with the drain / venting device ECR3.

Other warnings depend on the components actually mounted, according to the component manufacturer's documentation.

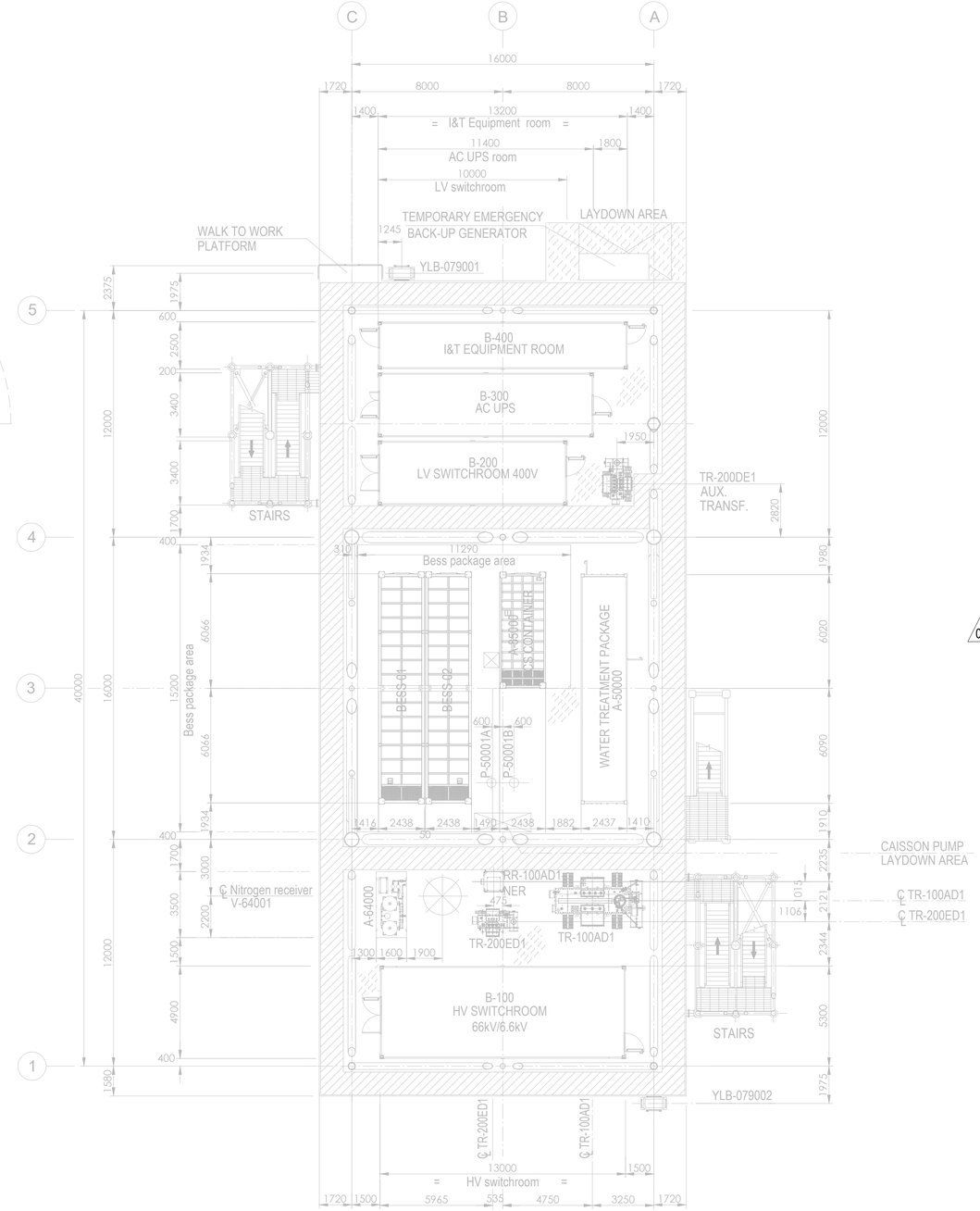
The tables below state the maximum power dissipation values (W) related to the internal temperature (Tint) and ambient temperature (Tamb).

DRAWING NO. 123A90-DDL-SAF-DL-30022

REV. 02



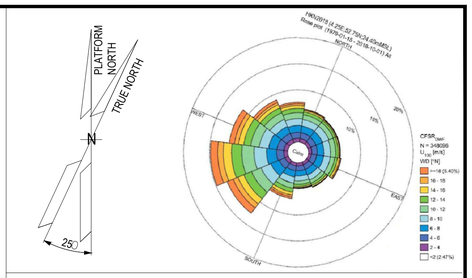
PLAN ON UPPER DECK
EL+30.310 T.O.S.



PLAN ON LOWER DECK
EL+23.310 T.O.S.

Tag No.	Equipment Tag	Description	Material	Ventilation Type
01	P-50001 A/B	SEA WATER LIFT PUMPS	SEA WATER	NATURAL (OPEN AREA)
02	Q-43004	HYDROGEN VENT	HYDROGEN	NATURAL (OPEN AREA)
03	V-43001	HYDROGEN VENT KO DRUM	HYDROGEN	NATURAL (OPEN AREA)
04	V-25001 (A/B/C/D/E/F)	HYDROGEN STORAGE VESSELS	HYDROGEN	NATURAL (OPEN AREA)
05	V-63001	AIR RECEIVER	INSTRUMENT AIR	NATURAL (OPEN AREA)
06	A-20000	ELECTROLYSER PACKAGE		
07	A-63000	INSTRUMENT AIR PACKAGE		
08	A-80000	FUEL CELL PACKAGE		
09	A-85000	BESS PACKAGE		
10	YLB-079001/2	LIFE RAFTS		
11	A-50000	WATER TREATMENT PACKAGE		

Tag No.	Equipment Tag	Description	Material	Ventilation Type
12	A-64000	NITROGEN SYSTEM		
13	B-100	HV SWITCHROOM 66kV/6.6kV		
14	B-200	LV SWITCHROOM 400V		
15	B-300	AC UPS EQUIPMENT ROOM		
16	B-400	I&T EQUIPMENT ROOM		
17	TR-100AD1	TRANSFORMER MAIN 66kV/6.6kV		
18	RR-100AD1-NER	NEUTRAL EARTHING RESISTOR		
19	TR-200DE1	TRANSFORMER AUX. 6.6kV/0.4kV		
20	TR-200ED1	SOLAR TRANSFORMER PV FARM EQUIPMENT		
21	X-99001	CRANE		
22	V-64001	NITROGEN RECEIVER		



NOTES

1. ALL DIMENSIONS IN mm U.N.O.
2. ALL ELEVATIONS IN METERS.
3. PLATFORM NORTH DIRECTION IS N 25°W.
4. VENT TOP SHALL BE REACHEABLE FOR MAINTENANCE PURPOSE.
5. THE BESS IS CONSIDERED SAFE AREA EXCEPT EXTRACTORES FROM BATTERIES , CURRENTLY NOT SHOWN IN DRAWINGS, SINCE INFORMATION FROM VENDOR IS NOT YET AVAILABLE.[ES17].
6. THE LOCATION OF EMISSION SOURCES ON THE LAYOUT ARE ONLY INDICATIVE. EMISSION SOURCES CONSIDERED ARE PRESENT WITHIN THE EXTENSION OF HAZARDOUS CLASSIFIED AREAS SHOWN ON THE LAYOUT. THIS IS BECAUSE VALVES AND FLANGES,WHICH ARE CONSIDERED POTENTIAL SOURCES OF RELEASE POINTS FOR FLAMMABLE GAS ARE NOT SHOWN ON CURRENT LAYOUT PROVIDED. THE SAME APPLIES TO THE EMISSION SOURCES FOR CPI'S ITEM.
7. IDENTIFIED EMISSION SOURCES DETAIL.

02
8. FOR DETAILS RELATED TO ELECTROLYSER PACKAGE INTERNAL ENCLOSURES REFER TO DRAWING 224J10-DDL-PP-DA-00001 REV 0.
9. FOR DETAILS RELATED TO FUELL CELL PACKAGE INTERNAL ENCLOSURES REFER TO DRAWING K559-2254-CWIWP4202202-B01-001 REV 009".
10. THE N.6 HYDROGEN STORAGE VESSELS ARE NOT CLASSIFIED INTERNALLY SINCE THEY ARE DESIGNED TO CONTAIN HYDROGEN OR NITROGEN FOR THE ENTIRE DURATION OF THE 2 YEARS OF OPERATION.

EMISSION SOURCE No.	IDENTIFIED AREAS
ES10	HYDROGEN STORAGE VESSLES
ES11	HYDROGEN VENT KO DRUM
ES16	FUEL CELL

LEGEND

ZONE 0 — ZONE 1

ZONE 2 — ES EMISSION SOURCES

123A90-DDL-PP-DS-70071	PLOT PLAN - BELOW LOWER DECK
123A90-DDL-PP-DS-70072	PLOT PLAN - ELEVATION LOOKING NORTH & EAST

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	15/01/25	MMA	CCA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	27/08/24	MMA	CCA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	08/02/24	MMA	CCA	DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND

ROSETTI MARINO

TITLE :
BASE LOAD POWER HUB (BLPH)
HAZARDOUS AREA CLASSIFICATION
LOWER & UPPER DECK

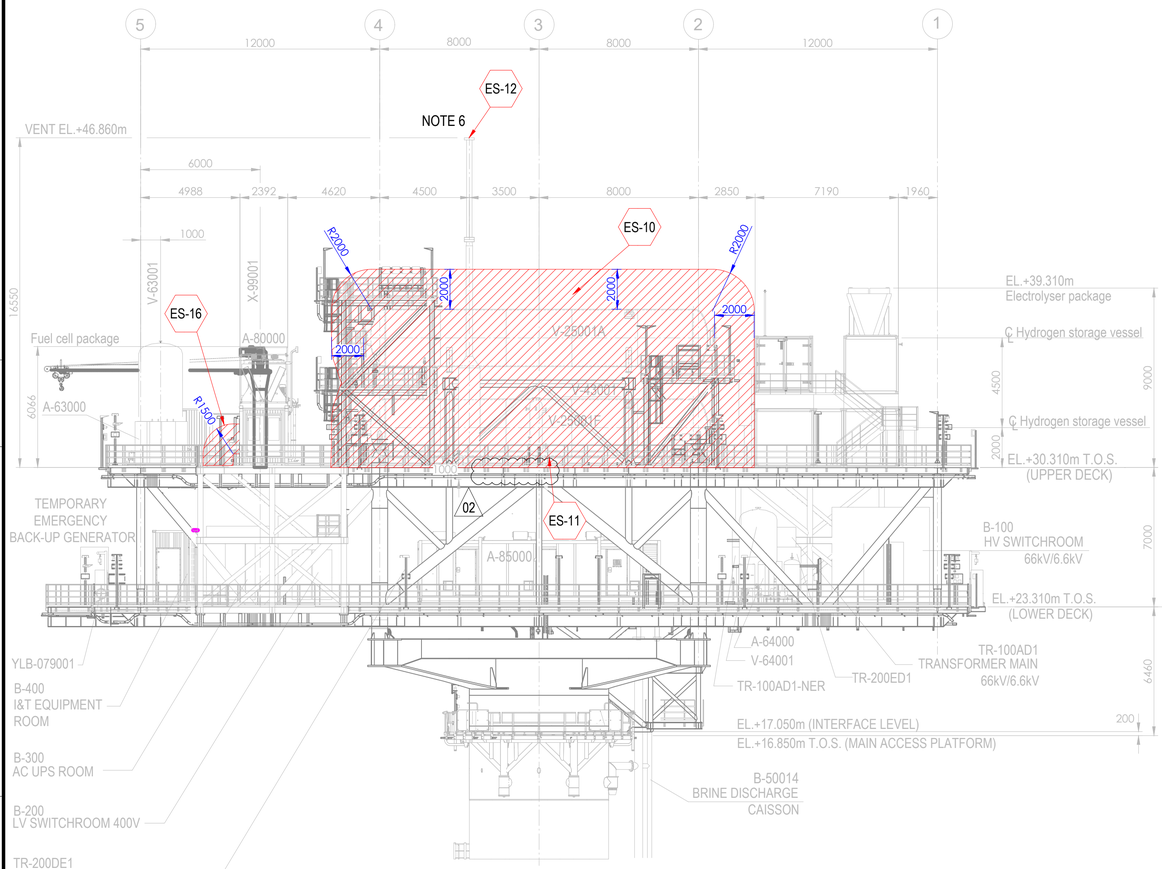
CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK			SCALE 1:150
DRAWN M. MAGNI	CHECKED C. CARACCIOLO	APPROVED D. LO STERZO	DATE 03/07/24

	DRAWING NO.	SHEET	REV.
A1	123A90-DDL-SAF-DL-30022	001	02

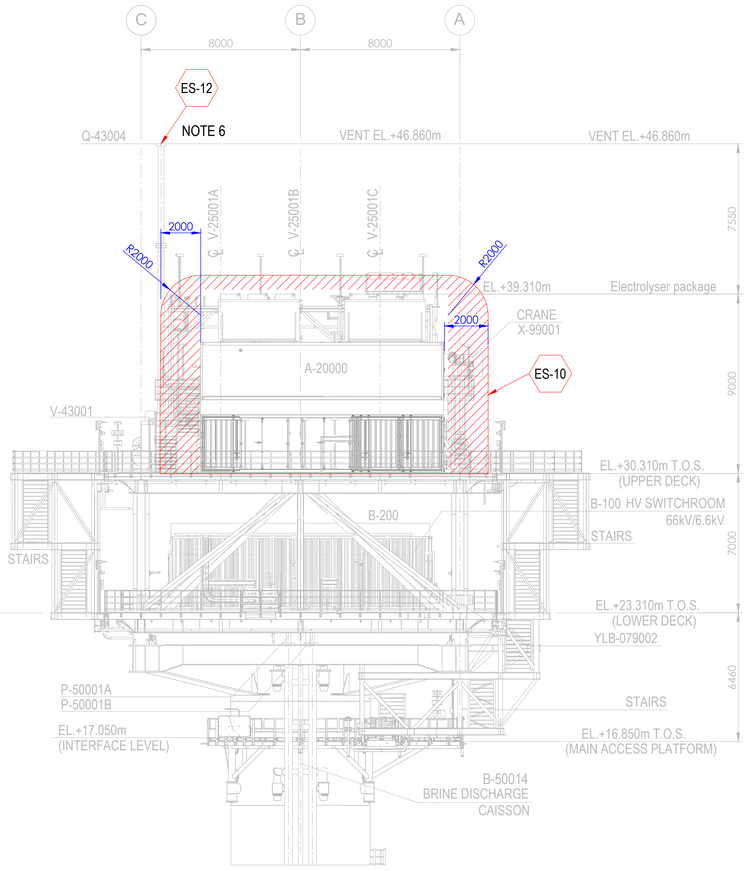
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DRAWING NO. 123A90-DDL-SAF-DL-30024

REV. 02

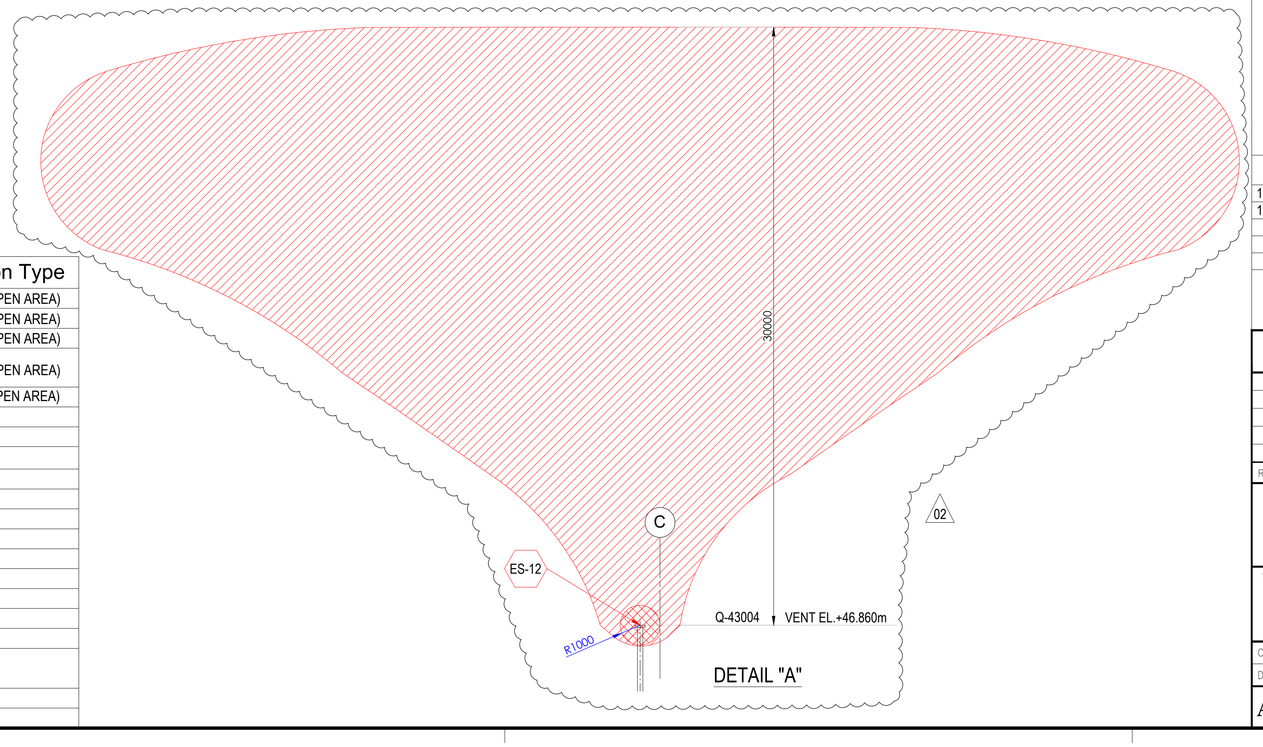


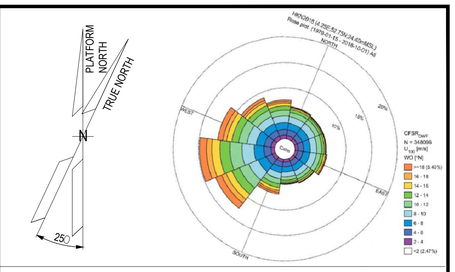
ELEVATION LOOKING EAST



ELEVATION LOOKING NORTH

Tag No.	Equipment Tag	Description	Material	Ventilation Type
01	P-50001 A/B	SEA WATER LIFT PUMPS	SEA WATER	NATURAL (OPEN AREA)
02	Q-43004	HYDROGEN VENT	HYDROGEN	NATURAL (OPEN AREA)
03	V-43001	HYDROGEN VENT KO DRUM	HYDROGEN	NATURAL (OPEN AREA)
04	V-25001 (A/B/C/D/E/F)	HYDROGEN STORAGE VESSELS	HYDROGEN	NATURAL (OPEN AREA)
05	V-63001	INSTRUMENT AIR RECEIVER	INSTRUMENT AIR	NATURAL (OPEN AREA)
06	A-20000	ELECTROLYSER PACKAGE		
07	A-63000	INSTRUMENT AIR PACKAGE		
08	A-80000	FUEL CELL PACKAGE		
09	A-85000	BESS PACKAGE		
10	YLB-079001/2	LIFE RAFTS		
11	B-100	HV SWITCHROOM 66kV/6.6kV		
12	B-200	LV SWITCHROOM 400V		
13	B-300	AC UPS EQUIPMENT ROOM		
14	B-400	I&T EQUIPMENT ROOM		
15	TR-100AD1	TRANSFORMER MAIN 66kV/6.6kV		
16	TR-100AD1-NER	NEUTRAL EARTHING RESISTOR		
17	TR-200DE1	TRANSFORMER AUX. 6.6kV/0.4kV		
18	TR-200ED1	SOLAR TRANSFORMER PV FARM EQUIPMENT		
19	X-99001	CRANE		
20	V-64001	NITROGEN RECEIVER		





NOTES

1. ALL DIMENSIONS IN mm U.N.O
2. ALL ELEVATIONS IN METERS.
3. PLATFORM NORTH DIRECTION IS N 25°W.
4. VENT TOP SHALL BE REACHEABLE FOR MAINTENANCE PURPOSE.
5. THE BESS IS CONSIDERED SAFE AREA EXCEPT EXTRACTORES FROM BATTERIES , CURRENTLY NOT SHOWN IN DRAWINGS, SINCE INFORMATION FROM VENDOR IS NOT YET AVAILABLE.[ES17]
6. FOR ES12 PLUME, PLEASE REFER TO THE DETAIL "A" BELOW. (02)
7. THE LOCATION OF EMISSION SOURCES ON THE LAYOUT ARE ONLY INDICATIVE. EMISSION SOURCES CONSIDERED ARE PRESENT WITHIN THE EXTENSION OF HAZARDOUS CLASSIFIED AREAS SHOWN ON THE LAYOUT. THIS IS BECAUSE VALVES AND FLANGES,WHICH ARE CONSIDERED POTENTIAL SOURCES OF RELEASE POINTS FOR FLAMMABLE GAS ARE NOT SHOWN ON CURRENT LAYOUT PROVIDED. THE SAME APPLIES TO THE EMISSION SOURCES FOR CPI'S ITEM.
8. IDENTIFIED EMISSION SOURCES DETAIL

EMISSION SOURCE No.	IDENTIFIED AREAS
ES10	HYDROGEN STORAGE VESSLES
ES11	HYDROGEN VENT KO DRUM
ES12	HYDROGEN VENT
ES16	FUEL CELL

LEGEND

ZONE 0 — ZONE 1

ZONE 2 — ES EMISSION SOURCES

REFERENCE DOCUMENTS

123A90-DDL-PP-DS-70070	PLOT PLAN - LOWER & UPPER DECK
123A90-DDL-PP-DS-70071	PLOT PLAN - BELOW LOWER DECK

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	15/01/24	MMA	CCA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	27/08/24	MMA	CCA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	08/02/24	MMA	CCA	DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND

ROSETTI MARINO

TITLE :
BASE LOAD POWER HUB (BLPH)
HAZARDOUS AREA CLASSIFICATION
ELEVATION LOOKING NORTH & EAST

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK			SCALE 1:150
DRAWN M. MAGNI	CHECKED C. CARACCIOLO	APPROVED D. LO STERZO	DATE 03/07/24

A1 | DRAWING NO. 123A90-DDL-SAF-DL-30024 | SHEET 001 | REV. 02

File Name : 123A90-DDL-SAF-DL-30024 Rev.02

ITEM	Tag	EJB-200N1-02-L1-16 : JB - NORMAL LIGHTING		Dwg	123A90-DDL-EL-DL-20118
	S/Sys	83-40 : Normal Lighting Upper Deck		Module	UD
TASK	code	C10001258	Location: Onshore Activities	User	Rosetti Marino Quality Control
FORM	Process	MC	Activity: CCK / Discipline: ATEX / Form: CJX01		Hazardous Area Equipment Detailed Inspection

Schedule Ref. #				**Area Code**				
Area Class Drawing	123A90-DDL-SAF-DL-30022			**Serial No.**	24P00297990003			
Manufacturer	TECNOR ITALSMEA			**Model**	AQ-252612P			
Cert No.	FIDI 21ATEX 0090X FIDI 21 0015X			**Equipment Ambient Temp.**	-20 C° to +40 C°			
Area Classification	hazardous	**Zone**	2	**Gas group**	IIC	**Temp class**	T1	
Equipment Protection Type	Ex eb	**EPL**	Gb	**Gas group**	IIC	**Temp class**	T6	**IP Rating** IP66

Detailed Note:

1) Inspection shall only be performed by competent personnel

2) All fields are to be completed. Any non-applicable field shall state “NA”. Comments are required for ‘Failure’ column ONLY.

3) An Inspection Sheet should be completed for EACH individual item of Equipment.

	General Equipment	Detailed	OK/NA/PL	Comments
1	Equipment is appropriate to the EPL / Zone requirements of the area	x	OK	
2	Equipment group is correct	x	OK	
3	Equipment temperature class is correct	x	OK	
4	Degree of IP protection of equipment is appropriate for the level of protection	x	OK	
5	Equipment circuit identification is correct	x	OK	
6	Equipment circuit identification is available	x	OK	
7	Enclosure glass parts and glass-to-metal sealing gaskets and / or compounds are satisfactory	x	NA	
8	There is no damage or unauthorized modifications	x	OK	
9	There is no evidence of unauthorized modifications	x	OK	
10	Bolts, cable entry devices (direct and indirect) & blanking elements are of the correct type, are complete & tight		OK	
	Physical check	x	OK	
11	Threaded covers on enclosures are of the correct type, are tight and secured		NA	
	Physical check	x	NA	
12	Joint surfaces are clean and undamaged and gaskets, if any, are satisfactory and positioned correctly	x	OK	
13	Condition of enclosure gaskets is satisfactory	x	OK	
14	There is no evidence or ingress of water or dust in the enclosure in accordance with the IP rating	x	OK	
15	Electrical connections are tight	x	OK	
16	Bridging links do not reduce creepage / clearance and are allowed	x	NA	
17	Unused terminals are tightened	x	OK	
18	Encapsulated components are undamaged	x	NA	
19	Flameproof components are undamaged	x	NA	
20	Fluorescent lamps are not indicating EOL effects (only for Ex “e” – Ex “n” – Ex “t”)	x	NA	
21	HID lamps are not indicating EOL effects	x	NA	
22	Lamp type, rating, pin configuration and position are correct	x	NA	
23	Breathing and drainage devices are satisfactory	x	OK	
24	Type of cable is appropriate	x	OK	
25	There is no obvious damage to the cables	x	OK	
26	Cable glands are the correct type and installed correctly	x	OK	
27	Sealing of trunking, ducts, pipes and or conduits is satisfactory	x	NA	
28	Stopping boxes and cable boxes are corrected filled	x	PL	

ITEM	Tag	EJB-200N1-02-L1-16	: JB - NORMAL LIGHTING			Dwg	123A90-DDL-EL-DL-20118
	S/Sys	83-40	: Normal Lighting Upper Deck			Module	UD
TASK	code	C10001258		Location	Onshore Activities	User	Rosetti Marino Quality Control
FORM	Process	MC	Activity CCK	Discipline	ATEX	Form	CJX01
							Hazardous Area Equipment Detailed Inspection

29	Integrity of conduit system and interface with mixed system maintained	x	NA	
30	Earthing connections, including any supplementary earthing bonding connections are satisfactory (for example connections are tight and conductors are of sufficient cross-section		OK	
	Physical check	x	OK	
31	Automated electric protective devices operate within permitted limits	x	NA	
32	Special conditions (if applicable) have been complied with.	x	NA	
33	All cable cores are uniquely labeled	x	OK	
34	Cable cores not in use are correctly terminated	x	PL	
35	Equipment is adequately protected against corrosion, weather, vibration and other adverse factors	x	OK	
36	No undue accumulation of dust and dirt	x	OK	
37	All equipment housings are clean and dry	x	OK	
38	All moving parts are free and have no mechanical damage	x	OK	
	Applicable for Installation of Heating Systems			
39	Temperature sensors function according to manufacturer's documents (only applicable for Ex-d e Ex-e)	x	NA	
40	Safety cut off devices function according to manufacturer's documents (only applicable for Ex-d e Ex-e)	x	NA	
41	The setting of the safety cut off is sealed (only applicable for Ex-d e Ex-e)	x	NA	
42	Reset of a heating system safety cut off possible with tool only(only applicable for Ex-d e Ex-e)	x	NA	
43	Auto-reset is not possible (only applicable for Ex-d e Ex-e)	x	NA	
44	Reset of a safety cut off under fault conditions is prevented (only applicable for Ex-d e Ex-e)	x	NA	
45	Safety cut off independent from control system (only applicable for Ex-d e Ex-e)	x	NA	
46	Level switch is installed and correctly set, if required (only applicable for Ex-d e Ex-e)	x	NA	
47	Flow switch is installed and correctly set, if required (only applicable for Ex-d e Ex-e)	x	NA	
	Extra Ex d checks			
48	Obstructions adjacent to flame proof flanged joints are in accordance with IEC 60079-14	x	NA	
49	Ex d conduits seals are fitted to all conduits and satisfactorily sealed	x	NA	
50	Cable glands are of the correct type and installed correctly	x	NA	
51	Adaptors, reducers, stop ends, etc. are all certified Ex d	x	NA	
52	Flame path are clean and undamaged	x	NA	
53	Flange gap dimensions are within tolerances	x	NA	
54	Motor fans have sufficient clearance to the enclosure and/or covers, cooling systems are undamaged, motor foundations have no indentations or cracks	x	NA	
55	The ventilation airflow is not impeded	x	NA	
56	Insulation resistance (IR) of the motor windings is satisfactory	x	NA	
57	Fault loop impedance (TN systems) or earthing resistance (IT systems) is satisfactory	x	NA	
58	Variable voltage/frequency installation complies with documentation	x	NA	
	Extra Ex e checks			
59	All Equipment is Ex e certified (including components within enclosure)	x	OK	
60	Power conductors are not bunched together causing possible hot spots	x	OK	
61	Motor fans have sufficient clearance to the enclosure and/or covers, cooling systems are undamaged, motor foundations have no indentations or cracks	x	NA	
62	Insulation resistance (IR) of the motor windings is satisfactory	x	NA	
63	Fault loop impedance (TN systems) or earthing resistance (IT systems) is satisfactory	x	NA	
64	The ventilation airflow is not impeded	x	NA	
65	Motor protection devices operate within the permitted tE or tA time limits.	x	NA	
66	Variable voltage/frequency installation complies with documentation	x	NA	

ITEM	Tag	EJB-200N1-02-L1-16	: JB - NORMAL LIGHTING		Dwg	123A90-DDL-EL-DL-20118	
	S/Sys	83-40	: Normal Lighting Upper Deck		Module	UD	
TASK	code	C10001258	Location	Onshore Activities	User	Rosetti Marino Quality Control	
FORM	Process	MC	Activity CCK	Discipline ATEX	Form	CJX01	Hazardous Area Equipment Detailed Inspection

Extra Ex n (nR, nL) checks				
67	All Terminals are Ex n certified (if required on certificate)	x	NA	
68	Hermetically sealed and enclosed break devices are undamaged	x	NA	
69	Restricted breathing properties satisfactory (conduct vacuum test)	x	NA	
70	Test port, if fitted, is functional (type “nR” only)	x	NA	
71	Breathing operation is satisfactory (type “nR” only)	x	NA	
72	Motor fans have sufficient clearance to the enclosure and/or covers, cooling systems are	x	NA	
73	The ventilation airflow is not impeded	x	NA	
74	Insulation resistance (IR) of the motor windings is satisfactory	x	NA	
75	Motor protection devices operate within the permitted tE or tA time limits.	x	NA	
76	Variable voltage/frequency installation complies with documentation	x	NA	
Extra Ex p checks				
77	Pressurization gas is correct type	x	NA	
78	Actual pressure is within maximum and minimum settings for equipment	x	NA	
79	Timers set as per certification documentation	x	NA	
80	Alarms and trip functions operate correctly as per certification documentation	x	NA	
81	Fault loop impedance (TN systems) or earthing resistance (IT systems) is satisfactory	x	NA	
82	Automatic electrical protective devices operate within permitted limits	x	NA	
83	Automatic electrical protective devices are set correctly	x	NA	
84	Protective gas inlet temperature is below maximum specified	x	NA	
85	Ducts, pipes and enclosures are in good condition	x	NA	
86	Protective gas is substantially free from contaminants	x	NA	
87	Protective gas pressure and/or flow is adequate	x	NA	
88	Pressure and/or flow indicators, alarms and interlocks function correctly	x	NA	
89	Conditions of spark and particle barriers of ducts for exhausting the gas in hazardous area are satisfactory	x	NA	
90	Specific conditions of use (if applicable) are complied with		NA	
Extra Ex i (Intrinsically Safe – IS) checks				
91	Equipment has adequate circuit identification for ‘IS’ Installation	x	NA	
92	Cables are installed in accordance with the documentation	x	NA	
93	Segregation is maintained between IS and non-IS Circuits	x	NA	
94	Cable screens are isolated at one end (field side)	x	NA	
95	Cable screens are earthed in accordance with the documentation	x	NA	
96	Safety barrier units, relays and other energy limiting devices are of the approved type, installed in	x	NA	
97	Equipment installed is the one specified in the documentation	x	NA	
98	Ambient temperature range of the apparatus is correct for the installation	x	NA	
99	Service temperature range of the apparatus is correct for the installation	x	NA	
100	Installation is clearly labelled	x	NA	
101	Printed circuit boards are clean and undamaged	x	NA	
102	The maximum voltage Um of the associated apparatus is not exceeded	x	NA	
103	Point-to-point connections are all correct	x	NA	
104	Earth continuity is satisfactory (e.g. connections are tight, conductors are of sufficient cross-section)	x	NA	
105	Earth connections maintain the integrity of the type of protection	x	NA	
106	Intrinsically safe circuit earthing is satisfactory	x	NA	
107	Insulation resistance is satisfactory	x	NA	
108	Short-circuit protection of the power supply is in accordance with the documentation	x	NA	

	BARRIER:	**Manufacturer:**	NA	**Model:**	NA		
		Authority:	NA	**Cert No:**	NA	**Type:**	NA

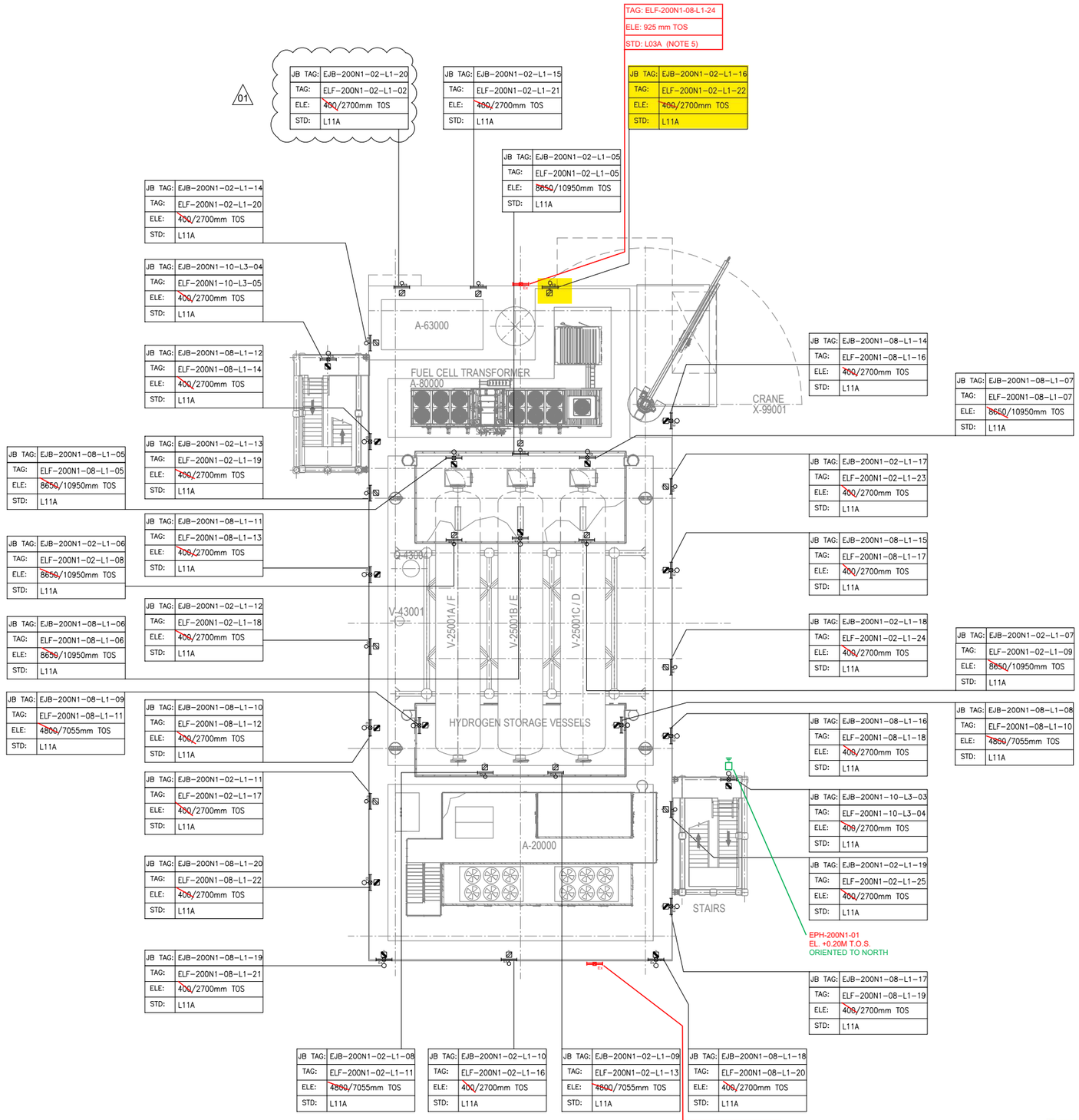
Remarks: Initial inspection should be detailed and carried out before equipment is brought into service as per IEC 60079-17

Please mark only one box as appropriate	
●	**Passed - Complete**
	Failed

Page 3/3	Performed by	☐ WITNESS ☐ REVIEW	☐ WITNESS ☐ REVIEW
Company	ICS SISTEMI	RM(ROSETTI MARINO)	
Name	Francesco Zucca	Alessio Polo	
Date	2024-12-28	2025-01-18	
Signature	PROVERLIS Digitaly signed by Francesco Zucca 2024-12-28T07:32:00.269Z	PROVERLIS Digitaly signed by Alessio Polo 2025-01-18T13:11:26.564Z	

DRAWING NO. 123A90-DDL-EL-DL-20118

REV. 01



JB TAG:	EJB-200N1-02-L1-20
TAG:	ELF-200N1-02-L1-02
ELE:	400/2700mm TOS
STD:	L11A

JB TAG:	EJB-200N1-02-L1-15
TAG:	ELF-200N1-02-L1-21
ELE:	400/2700mm TOS
STD:	L11A

TAG: ELF-200N1-08-L1-24
ELE: 925 mm TOS
STD: L03A (NOTE 5)

JB TAG:	EJB-200N1-02-L1-16
TAG:	ELF-200N1-02-L1-22
ELE:	400/2700mm TOS
STD:	L11A

JB TAG:	EJB-200N1-02-L1-05
TAG:	ELF-200N1-02-L1-05
ELE:	8650/10950mm TOS
STD:	L11A

JB TAG:	EJB-200N1-02-L1-14
TAG:	ELF-200N1-02-L1-20
ELE:	400/2700mm TOS
STD:	L11A

JB TAG:	EJB-200N1-10-L3-04
TAG:	ELF-200N1-10-L3-05
ELE:	400/2700mm TOS
STD:	L11A

JB TAG:	EJB-200N1-08-L1-12
TAG:	ELF-200N1-08-L1-14
ELE:	400/2700mm TOS
STD:	L11A

JB TAG:	EJB-200N1-08-L1-14
TAG:	ELF-200N1-08-L1-16
ELE:	400/2700mm TOS
STD:	L11A

JB TAG:	EJB-200N1-08-L1-07
TAG:	ELF-200N1-08-L1-07
ELE:	8650/10950mm TOS
STD:	L11A

JB TAG:	EJB-200N1-08-L1-05
TAG:	ELF-200N1-08-L1-05
ELE:	8650/10950mm TOS
STD:	L11A

JB TAG:	EJB-200N1-02-L1-13
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ELE:	400/2700mm TOS
STD:	L11A

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ELE:	400/2700mm TOS
STD:	L11A

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TAG:	ELF-200N1-08-L1-13
ELE:	400/2700mm TOS
STD:	L11A

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TAG:	ELF-200N1-08-L1-17
ELE:	400/2700mm TOS
STD:	L11A

JB TAG:	EJB-200N1-02-L1-06
TAG:	ELF-200N1-02-L1-08
ELE:	8650/10950mm TOS
STD:	L11A

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ELE:	400/2700mm TOS
STD:	L11A

JB TAG:	EJB-200N1-02-L1-18
TAG:	ELF-200N1-02-L1-24
ELE:	400/2700mm TOS
STD:	L11A

JB TAG:	EJB-200N1-02-L1-07
TAG:	ELF-200N1-02-L1-09
ELE:	8650/10950mm TOS
STD:	L11A

JB TAG:	EJB-200N1-08-L1-06
TAG:	ELF-200N1-08-L1-06
ELE:	8650/10950mm TOS
STD:	L11A

JB TAG:	EJB-200N1-08-L1-09
TAG:	ELF-200N1-08-L1-11
ELE:	4800/7055mm TOS
STD:	L11A

JB TAG:	EJB-200N1-08-L1-10
TAG:	ELF-200N1-08-L1-12
ELE:	400/2700mm TOS
STD:	L11A

JB TAG:	EJB-200N1-08-L1-08
TAG:	ELF-200N1-08-L1-10
ELE:	4800/7055mm TOS
STD:	L11A

JB TAG:	EJB-200N1-02-L1-11
TAG:	ELF-200N1-02-L1-17
ELE:	400/2700mm TOS
STD:	L11A

JB TAG:	EJB-200N1-08-L1-16
TAG:	ELF-200N1-08-L1-18
ELE:	400/2700mm TOS
STD:	L11A

JB TAG:	EJB-200N1-10-L3-03
TAG:	ELF-200N1-10-L3-04
ELE:	400/2700mm TOS
STD:	L11A

JB TAG:	EJB-200N1-08-L1-20
TAG:	ELF-200N1-08-L1-22
ELE:	400/2700mm TOS
STD:	L11A

JB TAG:	EJB-200N1-02-L1-19
TAG:	ELF-200N1-02-L1-25
ELE:	400/2700mm TOS
STD:	L11A

JB TAG:	EJB-200N1-08-L1-19
TAG:	ELF-200N1-08-L1-21
ELE:	400/2700mm TOS
STD:	L11A

JB TAG:	EJB-200N1-08-L1-17
TAG:	ELF-200N1-08-L1-19
ELE:	400/2700mm TOS
STD:	L11A

JB TAG:	EJB-200N1-02-L1-08
TAG:	ELF-200N1-02-L1-11
ELE:	4800/7055mm TOS
STD:	L11A

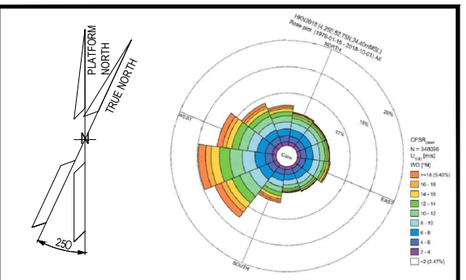
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ELE:	400/2700mm TOS
STD:	L11A

JB TAG:	EJB-200N1-02-L1-09
TAG:	ELF-200N1-02-L1-13
ELE:	4800/7055mm TOS
STD:	L11A

JB TAG:	EJB-200N1-08-L1-18
TAG:	ELF-200N1-08-L1-20
ELE:	400/2700mm TOS
STD:	L11A

TAG: ELF-200N1-08-L1-25
ELE: 925 mm TOS
STD: L03A (NOTE 5)

PLAN ON UPPER DECK
EL+30.310 T.O.S.



NOTES

1. ALL DIMENSIONS AND ELEVATIONS ARE GIVEN IN mm UNLESS OTHERWISE NOTED.
2. ELEVATIONS REFER TO T.O.S.
3. ELEVATION OF THE LAMPS ARE REFFERED TO THE BOTTOM OF THE LAMP.
4. FOR THE ELEVATION OF JB, REFER TO THE TYPICAL INSTALLATION.
5. FOR ELF-200N1-08-L1-24 AND ELF-200N1-08-L1-25 CONSTRUCTION DETAILS REFER TO DOC. 123A90-DDL-ST-DD-90076

LEGEND

- EMERGENCY LIGHTING JB
- 60W LED EMERGENCY LUMINARIES
- 60W LED EMERGENCY LUMINARIES FIXTURE POLE MOUNTED
- NORMAL LIGHTING JB
- 45W LED NORMAL LUMINARIES
- 45W LED NORMAL LUMINARIES FIXTURE POLE MOUNTED
- WELDING SOCKET WITH INTEGRATED JB
- SMALL POWER SOCKET WITH INTEGRATED JB
- TWILIGHT RELAY SENSOR

JB TAG:	JB-TAG
TAG:	TAG
ELE:	ELEVATION
STD:	STANDARD

REFERENCE DOCUMENTS

123A90-DDL-PP-DL-70070	PLOT PLAN - LOWER & UPPER DECK
123A90-DDL-EL-DL-20100	ELECTRICAL EQUIPMENT LAYOUT - TOP DECK
123A90-DDL-EL-DD-20091	ELECTRICAL TYPICAL INSTALLATION DETAILS - LIGHTING SYSTEM
123A90-DDL-EL-DD-20092	ELECTRICAL TYPICAL INSTALLATION DETAILS - POWER SYSTEM & CABLE INSTALLATION
123A90-DDL-EL-RE-20153	LIGHTING CALCULATION STUDY REPORT
123A90-DDL-ST-DD-90076	IDENTIFICATION PANELS ASSEMBLY AND DETAILS

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	02/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	28/05/24	ASR	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

VALID FOR CONSTRUCTION
FDL DWG: 123A90-FDL-EL-DL-20118

REV.:	DATE:	SIGNATURE:
1_G	09/01/25	V.Ramponi

ROSETTI MARINO SpA

CROSSWIND | ROSETTI MARINO

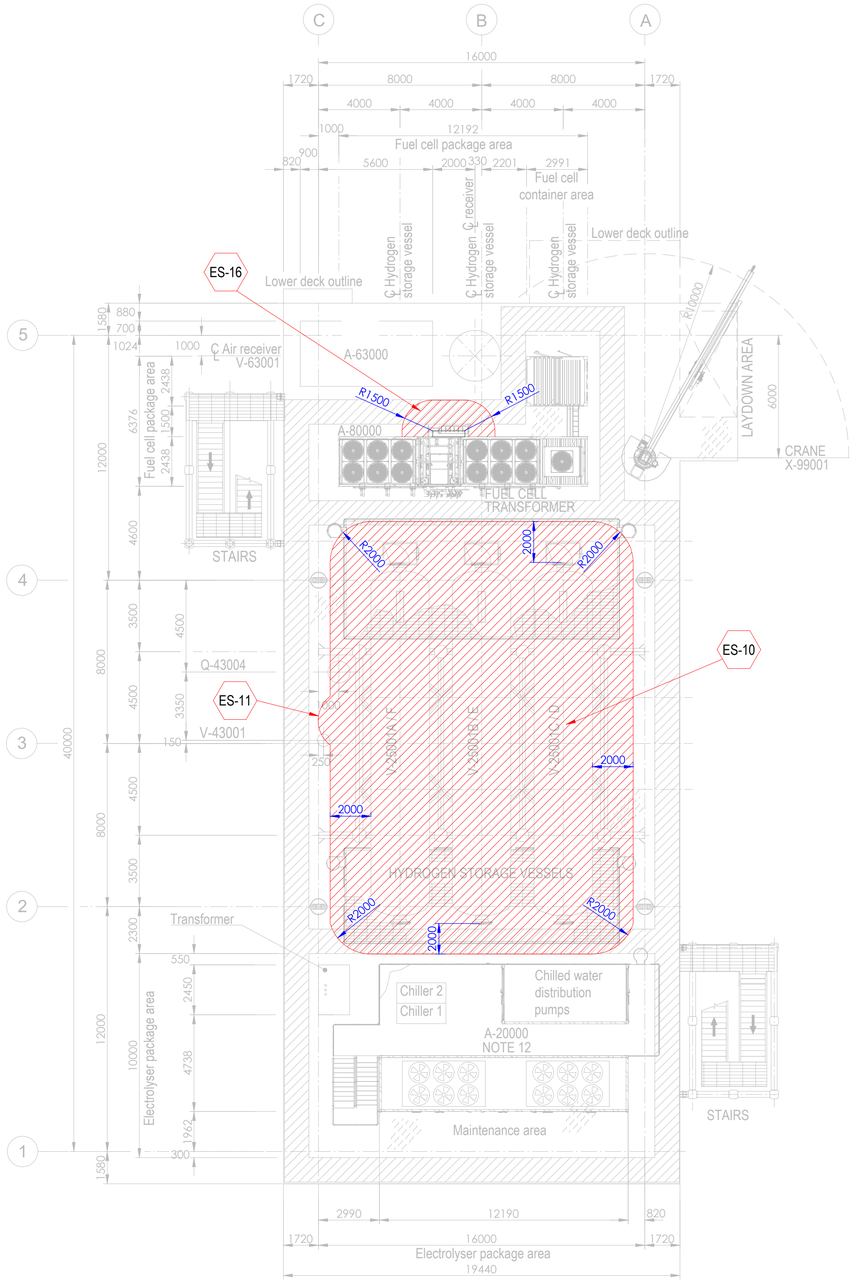
TITLE : BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET LAYOUT – TOP DECK

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK			SCALE 1:150
DRAWN ASR	CHECKED FMA/AMA	APPROVED FPA/DLO	DATE 01/08/24
A1	DRAWING NO. 123A90-DDL-EL-DL-20118	SHEET 1of2	REV. 01

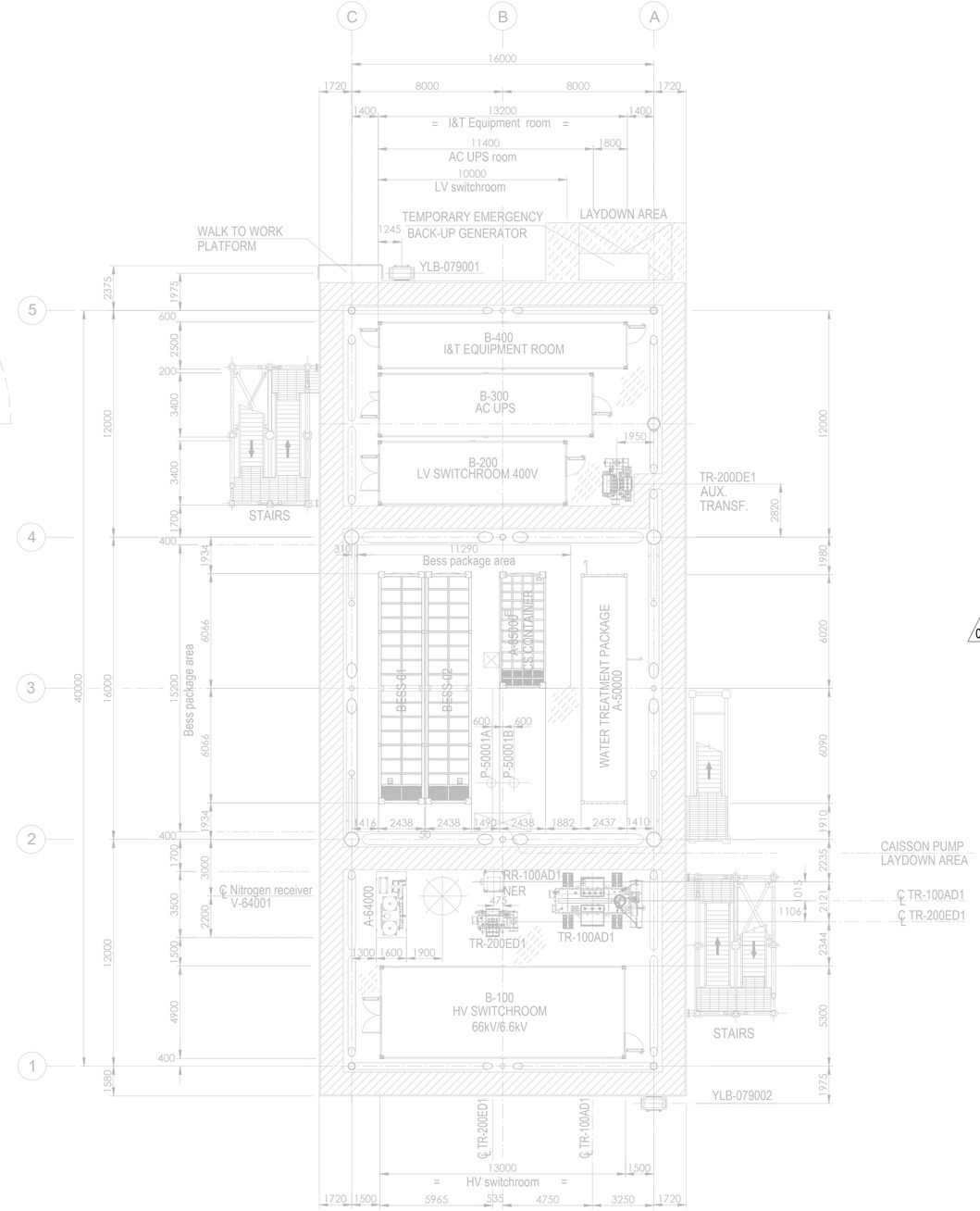
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DRAWING NO. 123A90-DDL-SAF-DL-30022

REV. 02



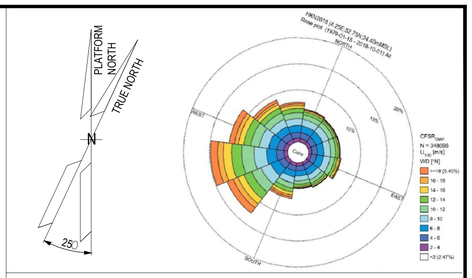
PLAN ON UPPER DECK
EL+30.310 T.O.S.



PLAN ON LOWER DECK
EL+23.310 T.O.S.

Tag No.	Equipment Tag	Description	Material	Ventilation Type
01	P-50001 A/B	SEA WATER LIFT PUMPS	SEA WATER	NATURAL (OPEN AREA)
02	Q-43004	HYDROGEN VENT	HYDROGEN	NATURAL (OPEN AREA)
03	V-43001	HYDROGEN VENT KO DRUM	HYDROGEN	NATURAL (OPEN AREA)
04	V-25001 (A/B/C/D/E/F)	HYDROGEN STORAGE VESSELS	HYDROGEN	NATURAL (OPEN AREA)
05	V-63001	AIR RECEIVER	INSTRUMENT AIR	NATURAL (OPEN AREA)
06	A-20000	ELECTROLYSER PACKAGE		
07	A-63000	INSTRUMENT AIR PACKAGE		
08	A-80000	FUEL CELL PACKAGE		
09	A-85000	BESS PACKAGE		
10	YLB-079001/2	LIFE RAFTS		
11	A-50000	WATER TREATMENT PACKAGE		

Tag No.	Equipment Tag	Description	Material	Ventilation Type
12	A-64000	NITROGEN SYSTEM		
13	B-100	HV SWITCHROOM 66kV/6.6kV		
14	B-200	LV SWITCHROOM 400V		
15	B-300	AC UPS EQUIPMENT ROOM		
16	B-400	I&T EQUIPMENT ROOM		
17	TR-100AD1	TRANSFORMER MAIN 66kV/6.6kV		
18	RR-100AD1-NER	NEUTRAL EARTHING RESISTOR		
19	TR-200DE1	TRANSFORMER AUX. 6.6kV/0.4kV		
20	TR-200ED1	SOLAR TRANSFORMER PV FARM EQUIPMENT		
21	X-99001	CRANE		
22	V-64001	NITROGEN RECEIVER		



NOTES

1. ALL DIMENSIONS IN mm U.N.O.
2. ALL ELEVATIONS IN METERS.
3. PLATFORM NORTH DIRECTION IS N 25°W.
4. VENT TOP SHALL BE REACHEABLE FOR MAINTENANCE PURPOSE.
5. THE BESS IS CONSIDERED SAFE AREA EXCEPT EXTRACTORES FROM BATTERIES , CURRENTLY NOT SHOWN IN DRAWINGS, SINCE INFORMATION FROM VENDOR IS NOT YET AVAILABLE.[ES17].
6. THE LOCATION OF EMISSION SOURCES ON THE LAYOUT ARE ONLY INDICATIVE. EMISSION SOURCES CONSIDERED ARE PRESENT WITHIN THE EXTENSION OF HAZARDOUS CLASSIFIED AREAS SHOWN ON THE LAYOUT. THIS IS BECAUSE VALVES AND FLANGES,WHICH ARE CONSIDERED POTENTIAL SOURCES OF RELEASE POINTS FOR FLAMMABLE GAS ARE NOT SHOWN ON CURRENT LAYOUT PROVIDED. THE SAME APPLIES TO THE EMISSION SOURCES FOR CPI'S ITEM.
7. IDENTIFIED EMISSION SOURCES DETAIL.

02
8. FOR DETAILS RELATED TO ELECTROLYSER PACKAGE INTERNAL ENCLOSURES REFER TO DRAWING 224J10-DDL-PP-DA-00001 REV 0.
9. FOR DETAILS RELATED TO FUELL CELL PACKAGE INTERNAL ENCLOSURES REFER TO DRAWING K559-2254-CWIWP4202202-B01-001 REV 009".
10. THE N.6 HYDROGEN STORAGE VESSELS ARE NOT CLASSIFIED INTERNALLY SINCE THEY ARE DESIGNED TO CONTAIN HYDROGEN OR NITROGEN FOR THE ENTIRE DURATION OF THE 2 YEARS OF OPERATION.

EMISSION SOURCE No.	IDENTIFIED AREAS
ES10	HYDROGEN STORAGE VESSLES
ES11	HYDROGEN VENT KO DRUM
ES16	FUEL CELL

LEGEND

ZONE 0 — ZONE 1

ZONE 2 — ES EMISSION SOURCES

123A90-DDL-PP-DS-70071	PLOT PLAN - BELOW LOWER DECK
123A90-DDL-PP-DS-70072	PLOT PLAN - ELEVATION LOOKING NORTH & EAST

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	15/01/25	MMA	CCA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	27/08/24	MMA	CCA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	08/02/24	MMA	CCA	DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND

ROSETTI MARINO

TITLE :
BASE LOAD POWER HUB (BLPH)
HAZARDOUS AREA CLASSIFICATION
LOWER & UPPER DECK

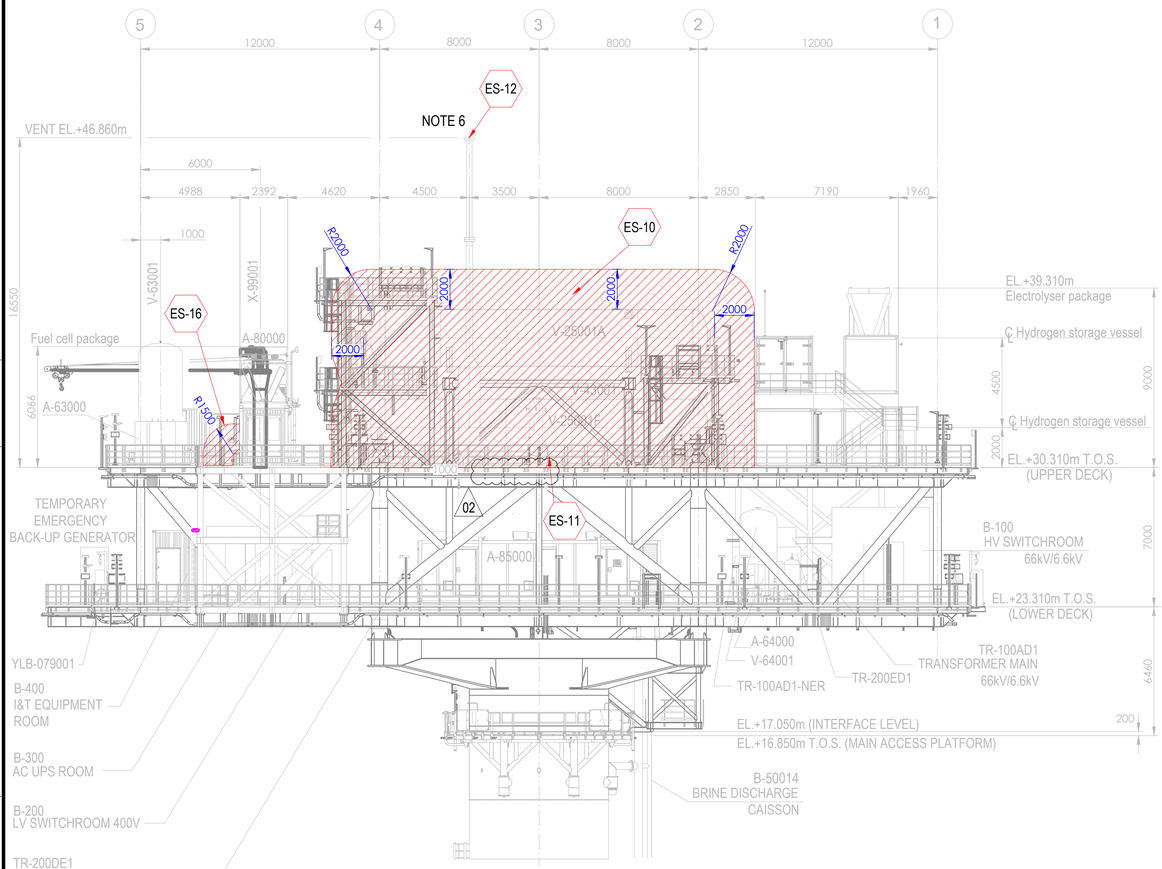
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DRAWN M. MAGNI	CHECKED C. CARACCIOLO	APPROVED D. LO STERZO	DATE 03/07/24

	DRAWING NO.	SHEET	REV.
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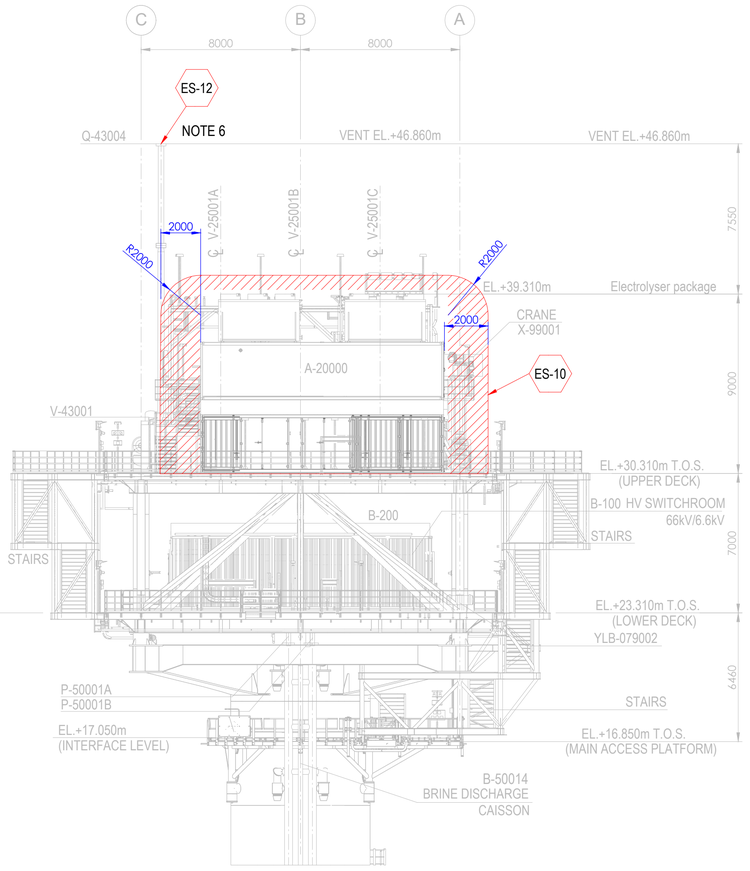
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DRAWING NO. 123A90-DDL-SAF-DL-30024

REV. 02

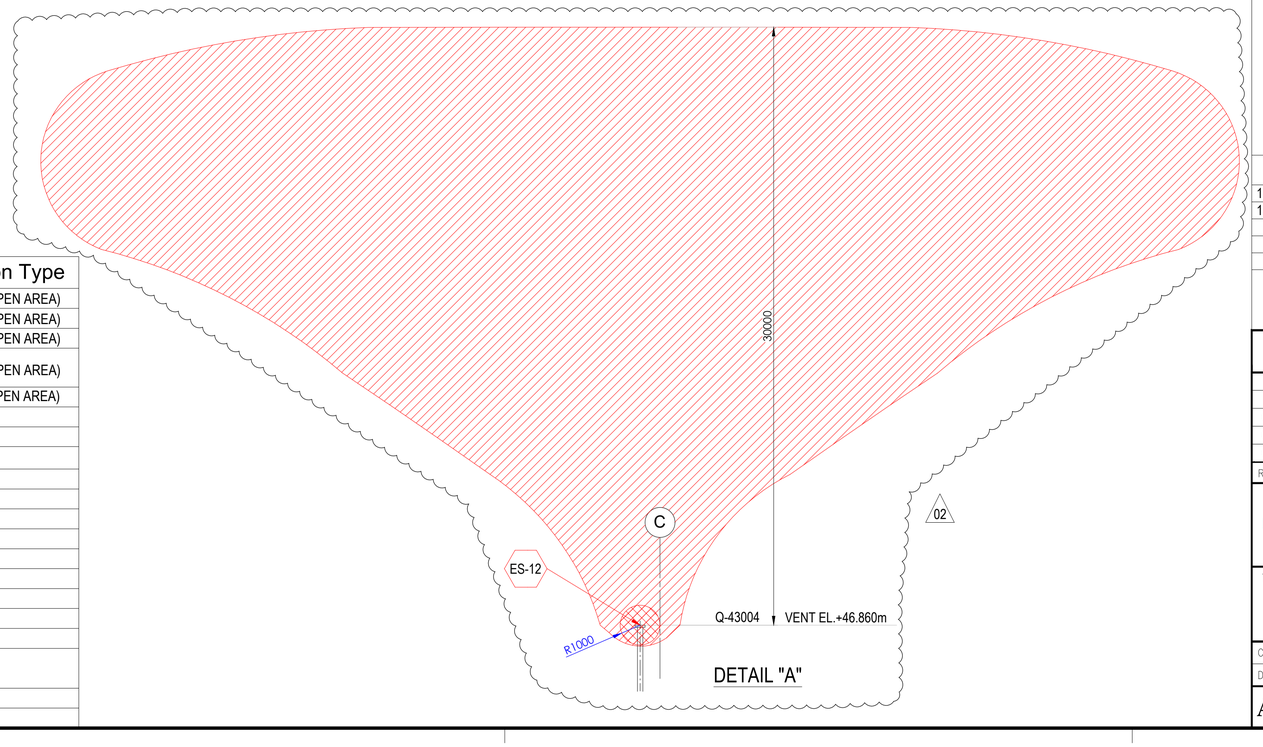


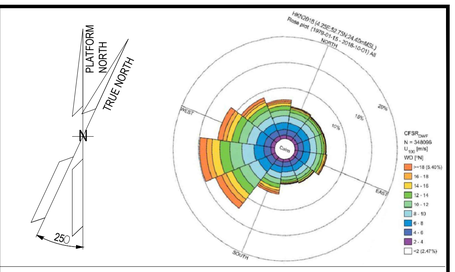
ELEVATION LOOKING EAST



ELEVATION LOOKING NORTH

Tag No.	Equipment Tag	Description	Material	Ventilation Type
01	P-50001 A/B	SEA WATER LIFT PUMPS	SEA WATER	NATURAL (OPEN AREA)
02	Q-43004	HYDROGEN VENT	HYDROGEN	NATURAL (OPEN AREA)
03	V-43001	HYDROGEN VENT KO DRUM	HYDROGEN	NATURAL (OPEN AREA)
04	V-25001 (A/B/C/D/E/F)	HYDROGEN STORAGE VESSELS	HYDROGEN	NATURAL (OPEN AREA)
05	V-63001	INSTRUMENT AIR RECEIVER	INSTRUMENT AIR	NATURAL (OPEN AREA)
06	A-20000	ELECTROLYSER PACKAGE		
07	A-63000	INSTRUMENT AIR PACKAGE		
08	A-80000	FUEL CELL PACKAGE		
09	A-85000	BESS PACKAGE		
10	YLB-079001/2	LIFE RAFTS		
11	B-100	HV SWITCHROOM 66kV/6.6kV		
12	B-200	LV SWITCHROOM 400V		
13	B-300	AC UPS EQUIPMENT ROOM		
14	B-400	I&T EQUIPMENT ROOM		
15	TR-100AD1	TRANSFORMER MAIN 66kV/6.6kV		
16	TR-100AD1-NER	NEUTRAL EARTHING RESISTOR		
17	TR-200DE1	TRANSFORMER AUX. 6.6kV/0.4kV		
18	TR-200ED1	SOLAR TRANSFORMER PV FARM EQUIPMENT		
19	X-99001	CRANE		
20	V-64001	NITROGEN RECEIVER		





NOTES

1. ALL DIMENSIONS IN mm U.N.O
2. ALL ELEVATIONS IN METERS.
3. PLATFORM NORTH DIRECTION IS N 25°W.
4. VENT TOP SHALL BE REACHEABLE FOR MAINTENANCE PURPOSE.
5. THE BESS IS CONSIDERED SAFE AREA EXCEPT EXTRACTORES FROM BATTERIES , CURRENTLY NOT SHOWN IN DRAWINGS, SINCE INFORMATION FROM VENDOR IS NOT YET AVAILABLE.[ES17]
6. FOR ES12 PLUME, PLEASE REFER TO THE DETAIL "A" BELOW. (02)
7. THE LOCATION OF EMISSION SOURCES ON THE LAYOUT ARE ONLY INDICATIVE. EMISSION SOURCES CONSIDERED ARE PRESENT WITHIN THE EXTENSION OF HAZARDOUS CLASSIFIED AREAS SHOWN ON THE LAYOUT. THIS IS BECAUSE VALVES AND FLANGES,WHICH ARE CONSIDERED POTENTIAL SOURCES OF RELEASE POINTS FOR FLAMMABLE GAS ARE NOT SHOWN ON CURRENT LAYOUT PROVIDED. THE SAME APPLIES TO THE EMISSION SOURCES FOR CPI'S ITEM.
8. IDENTIFIED EMISSION SOURCES DETAIL

EMISSION SOURCE No.	IDENTIFIED AREAS
ES10	HYDROGEN STORAGE VESSLES
ES11	HYDROGEN VENT KO DRUM
ES12	HYDROGEN VENT
ES16	FUEL CELL

LEGEND

ZONE 0 — ZONE 1

ZONE 2 — ES EMISSION SOURCES

REFERENCE DOCUMENTS

123A90-DDL-PP-DS-70070	PLOT PLAN - LOWER & UPPER DECK
123A90-DDL-PP-DS-70071	PLOT PLAN - BELOW LOWER DECK

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	15/01/24	MMA	CCA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	27/08/24	MMA	CCA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	08/02/24	MMA	CCA	DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND

ROSETTI MARINO

TITLE :
BASE LOAD POWER HUB (BLPH)
HAZARDOUS AREA CLASSIFICATION
ELEVATION LOOKING NORTH & EAST

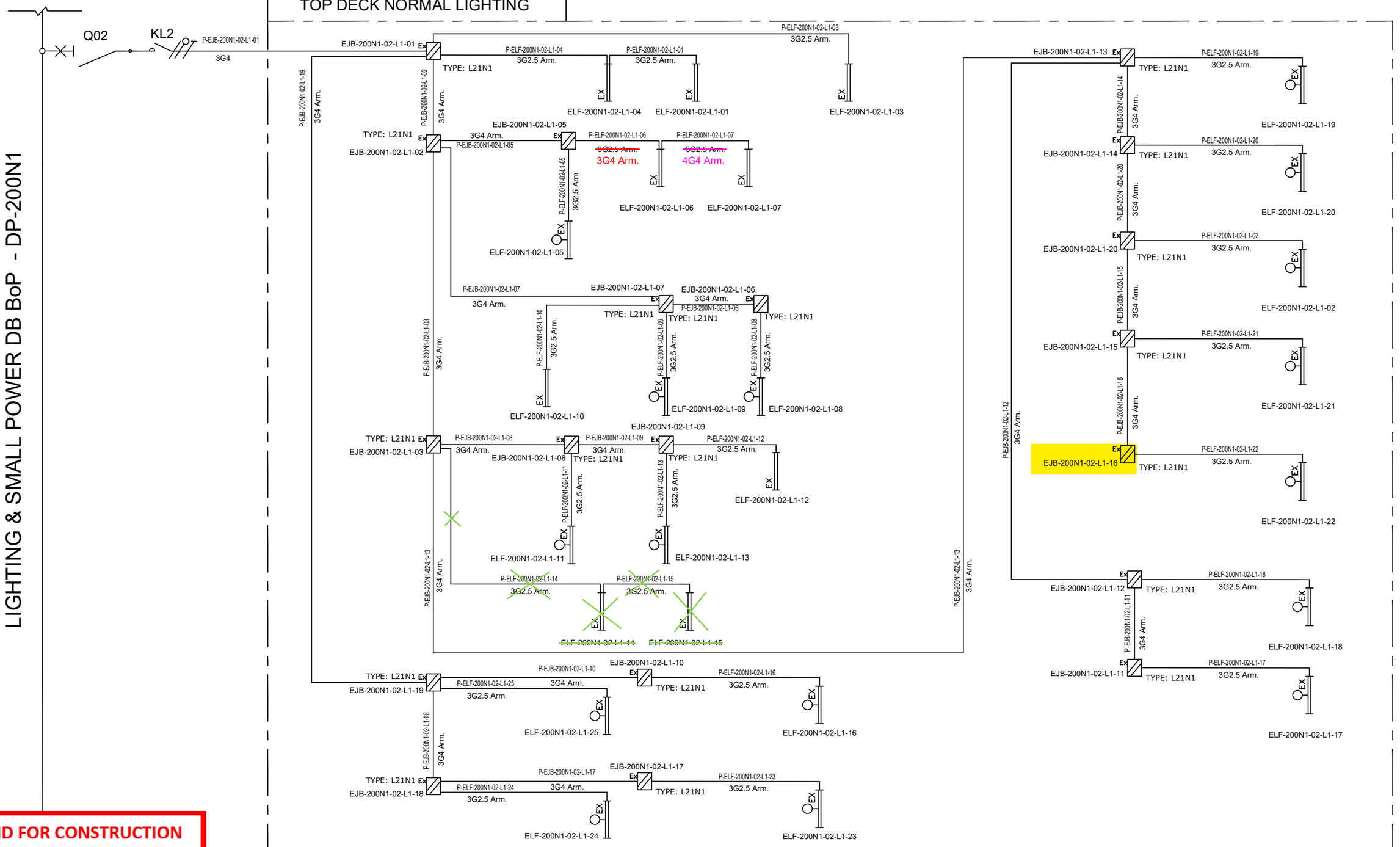
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DRAWN M. MAGNI	CHECKED C. CARACCIOLO	APPROVED D. LO STERZO	DATE 03/07/24

A1 | DRAWING NO. 123A90-DDL-SAF-DL-30024 | SHEET 001 | REV. 02

File Name : 123A90-DDL-SAF-DL-30024 Rev.02

LIGHTING & SMALL POWER DB BoP - DP-200N1

TOP DECK NORMAL LIGHTING



VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DG-20125**

REV.:	DATE:	SIGNATURE:
2_G	16/01/25	G.Randi

ROSETTI MARINO SpA

CROSSWIND

ROSETTI MARINO

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	08/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	01/07/24	ASR	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

TITLE : BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET CIRCUIT DIAGRAM
TOP DECK–NORMAL LIGHTING

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE : NTS

A3

DRAWING NO. 123A90–DDL–EL–DG–20125

SHEET 010

REV. 01

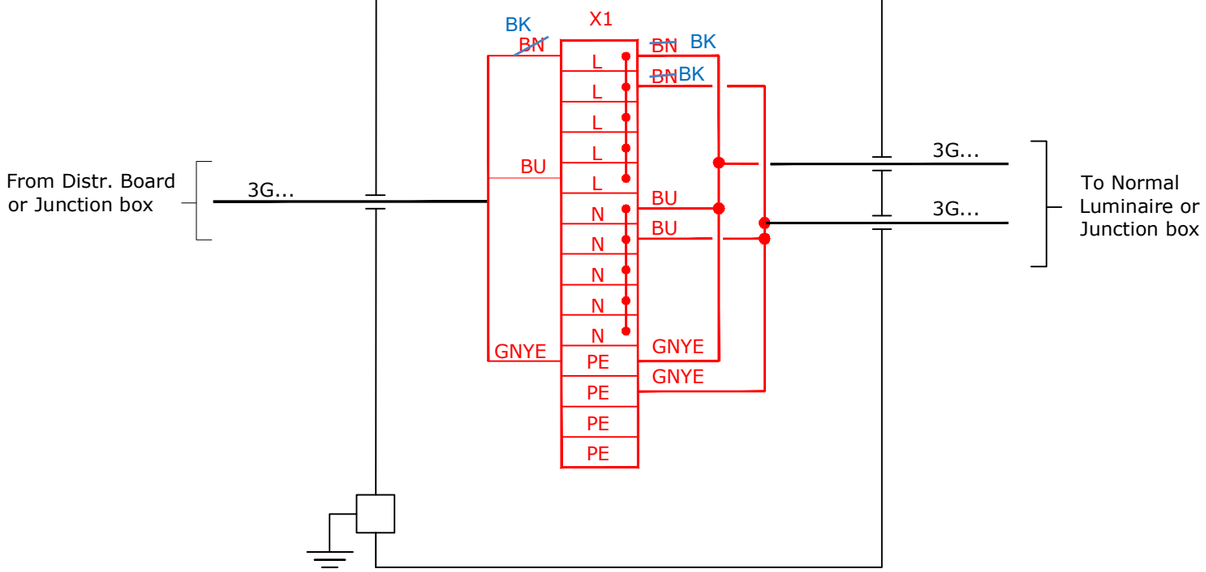
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TYPE : L21N1 & L21N2

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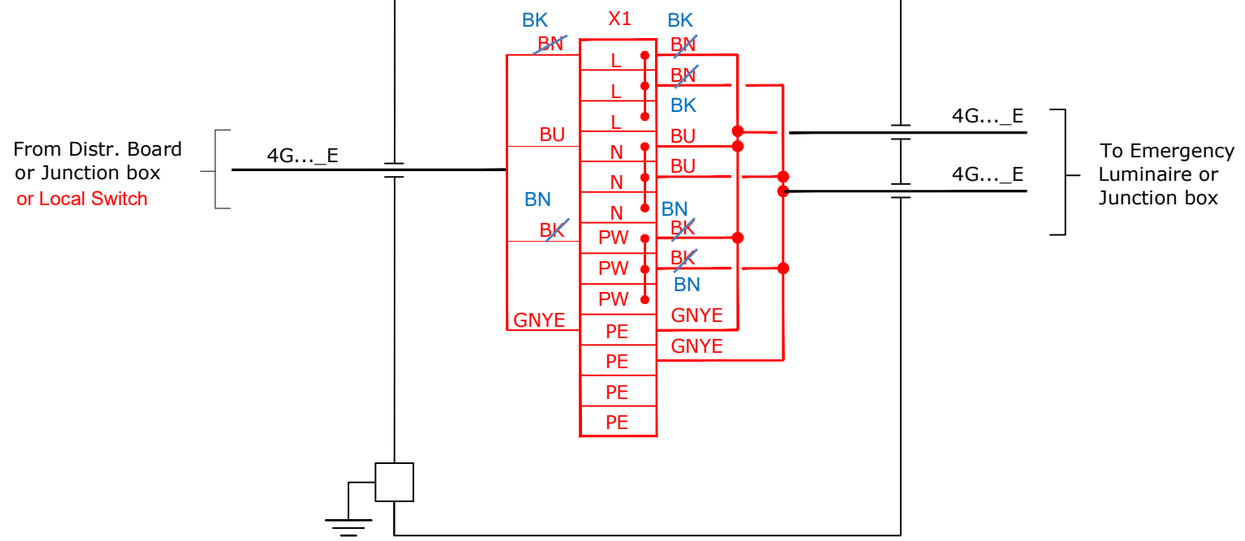
TAG : Typical



TYPE : L21E1 & L21E2

ITEM: EMERGENCY LIGHTING JUNCTION BOX

TAG : Typical



VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DG-20125**

REV.:	DATE:	SIGNATURE:
2_G	16/01/25	G.Randi

ROSETTI MARINO SpA

CROSSWIND

ROSETTI MARINO

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	08/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)

TITLE : BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET CIRCUIT DIAGRAM
TYPICAL JB INTERCONNECTING DIAGRAM

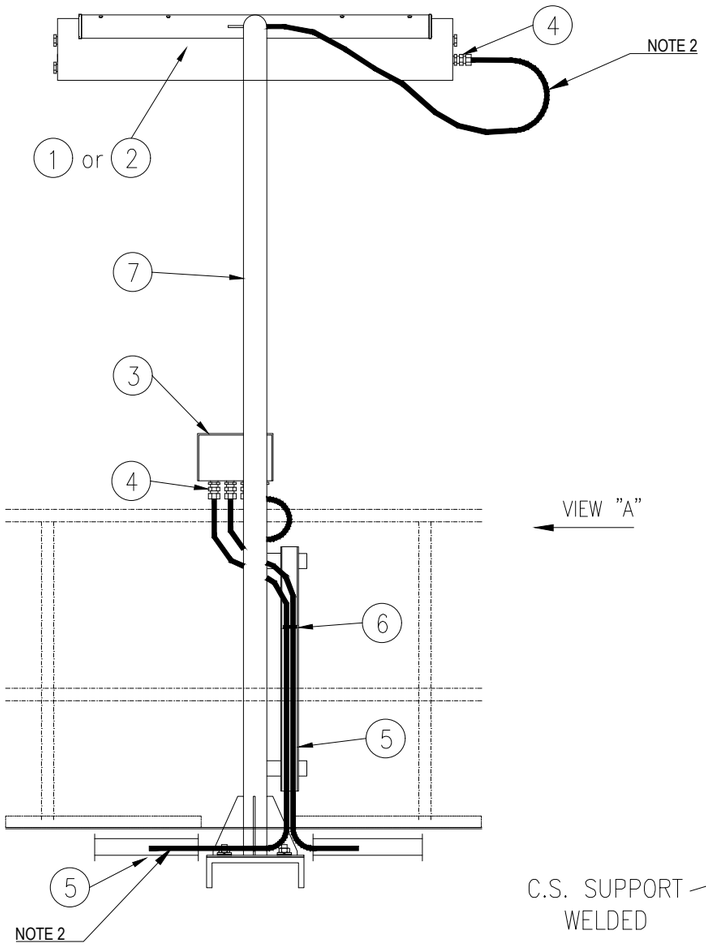
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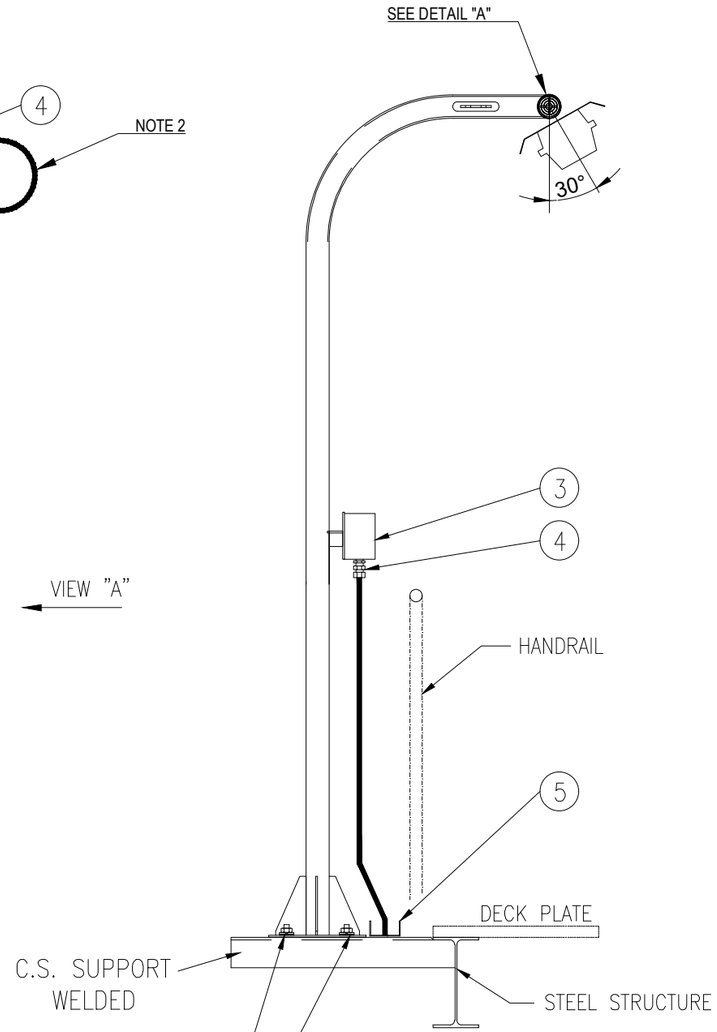
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	123A90-DDL-EL-DG-20125	016	01

F.to UNI A3: 420mmx297mm

File Name : 123A90-DDL-EL-DG-20125

L11A

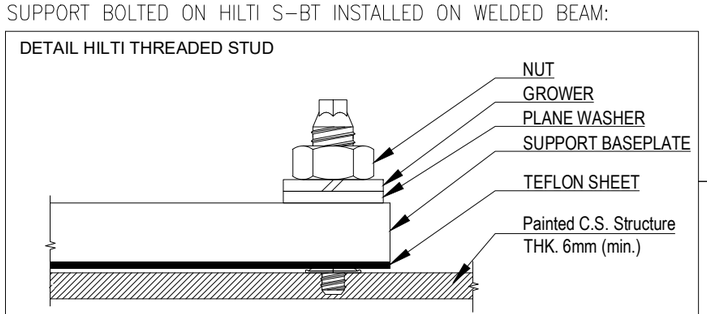




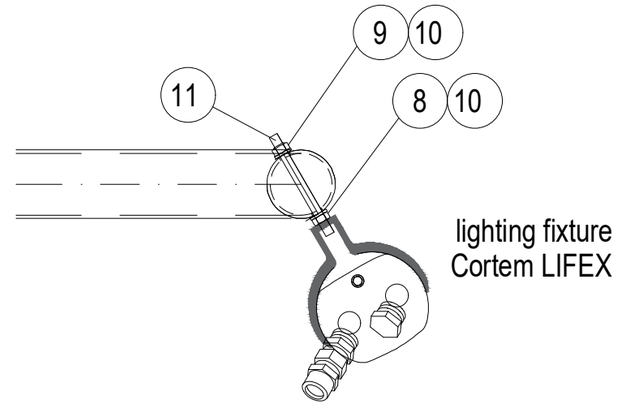
VIEW "A"

VIEW "A"

SUPPORT BOLTED ON HILTI S-BT INSTALLED ON WELDED BEAM:



POS.	DESCRIPTION	MATERIAL	SIZE	Q.TY	NOTE
1	42W LED LUMINARIES	ALUMINIUM ALLOY		1	
2	45W LED LUMINARIES C/W BATTERY	ALUMINIUM ALLOY		1	
3	JUNCTION BOX (Ex)	GRP		1	NOTE 1
4	CABLE GLAND ~~C/W EARTH TAG,~~ WASHERS, LOCKNUT AND WEATHERPROOF WASHERS	BRASS NICKEL PLATED		AS REQ.	
5	CABLE TRAY	AISI 316L			
6	STAINLESS STEEL NYLON COATED CABLE TIE	SS NYLON COATED			
7	POLE SUPPORT FOR LAMP	AISI 316L	2"		
8	NUT	AISI 316L	M8		
9	SELF.LOCKING NUT	AISI 316L	M8		
10	LARGE PLANE WASHER (24mm DIAM.)	AISI 316L	M8		
11	THREADED ROD M8x100	AISI 316L	M8		



DETAIL "A"

VALID FOR CONSTRUCTION

REV.:	DATE:	SIGNATURE:
2_B	12/12/24	C.Pilato

ROSETTI MARINO SpA

NOTES:

1) FOR LAMPS IN HAZARDOUS AREA, USE ARMOURED CABLE, DOUBLE SEAL CABLE GLAND AND EX JUNCTION BOX.

2) ALWAYS ENSURE CABLE LENGTH IS >3m

02

CROSSWIND

ROSETTI MARINO

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	30/09/24	GRA	AMA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	04/07/24	NLK	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	21/11/23	SPS	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL TYPICAL INSTALLATION DETAILS-LIGHTING SYSTEM
LIGHTING FIXTURE MOUNTED ON POLE

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK | SCALE : NTS

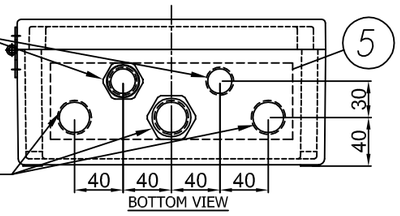
A3 | DRAWING NO. 123A90-DDL-EL-DD-20091 | SHEET 014 | REV. 02

F.to UNI A3: 420mmx297mm

File Name : 123A90-DDL-EL-DD-20091 REV.02.DWG

10 4 N°2 PASSING HOLES Ø20.2
C/W N°1 BNK PLUG M20 +
N°1 DUSTPROOF PVC PLUG

3 3 N°3 PASSING HOLES Ø25.2
C/W N°1 BNK PLUG M25 +
N°2 DUSTPROOF PVC PLUG



BOTTOM VIEW

8 I2400722-B015I00029809

TECHNOR ITALSMEA
A COMPANY OF MARECHAL ELECTRIC
Via Italia 33 - 20060 Cassano (MI) ITALY

CE 0080 Ex II 2G II 2D
FIDI 21ATEX 0090X
IECEx FIDI 21.0015X
Year of construction:

MADE IN ITALY

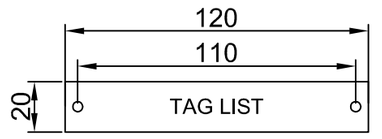
TYPE: AQ-252612P
230VAC 50Hz 20A
Max Dis. P. 6W

Ex eb IIC T6 Gb
Ex tb IIIC T85°C Db
IP66
T.amb. -20/+40°C
Serial Nr.

WARNINGS : DO NOT OPEN WHEN ENERGIZED

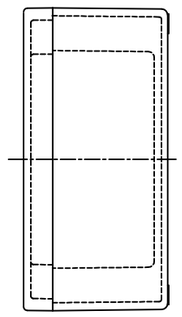
A002MAX

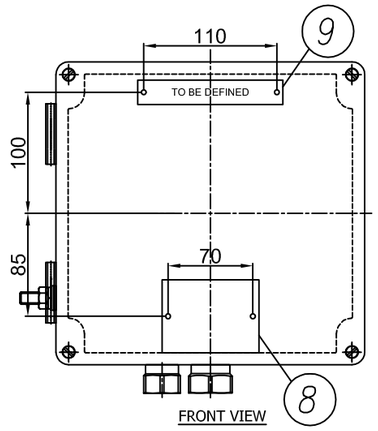
9 PLATE DETAIL



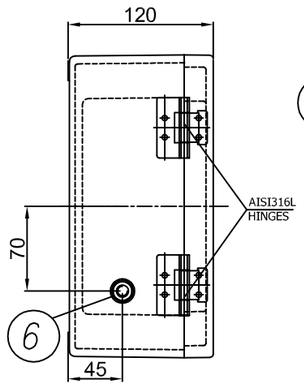
MATERIAL: LAMINATED PLASTIC
BACKGROUND: WHITE
LETTERS: BLACK

7 Terminals numbered: NOTE 1

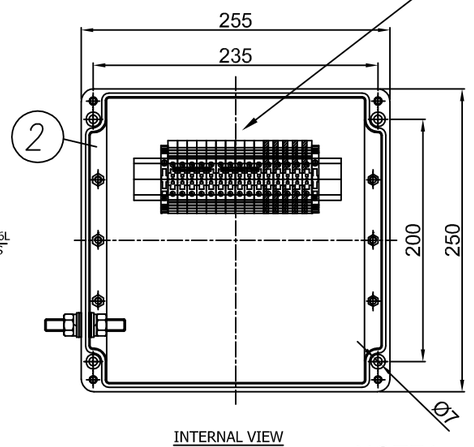

RIGHT VIEW



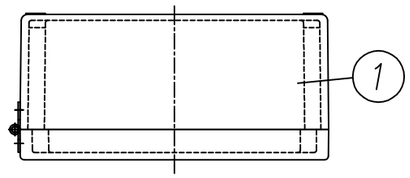
FRONT VIEW



LEFT VIEW



INTERNAL VIEW



TOP VIEW

NOTE1 :
- JB for Normal Lighting have terminals bridge: L-L-L-L-L, N-N-N-N-N, PE-PE-PE-PE-PE - JB for Emergency Lighting have terminals bridge: L-L-L, N-N-N, PW-PW-PW, PE-PE-PE-PE-PE

ITEM	DESCRIPTION	Pcs Q.TY	NOTE/MAT.	CODE	MANUFACTURER
11	DUSTPROOF PVC PLUG Ø25	2	–	.	TECHNOR ITALSMEA
10	DUSTPROOF PVC PLUG Ø20	1	–	.	TECHNOR ITALSMEA
9	LAMINATED PLASTIC TAG 120X20	1	–	.	TECHNOR ITALSMEA
8	AISI316L CERTIFICATE PLATE 80X60	1	–	.	TECHNOR ITALSMEA
7	BEIGE TERMINAL BLOCK SIZE 6 SQMM EARTH TERMINAL BLOCK SIZE 6 SQMM	10 5	WDU–6 WPE–6	.	WEIDMULLER
6	AISI316L INT/EXT EARTH BOLT M10	1	BTP–10	.	TECHNOR ITALSMEA
5	BRASS CONTINUITY PLATE THK. 0.8 MM	1	–	.	TECHNOR ITALSMEA
4	NICKEL PLATED BRASS PLUG M20	1	T20	.	TECHNOR ITALSMEA
3	NICKEL PLATED BRASS PLUG M25	1	T25	.	TECHNOR ITALSMEA
2	INTERNAL MOUNTING PLATE	1	PS–2526	.	TECHNOR ITALSMEA
1	GRP ENCLOSURE	1	AQ–252612P	.	TECHNOR ITALSMEA

-UNPAINTED (BLACK NATURAL)
Q.TY 92, ITEM 20: 2JBXXGPEE, ELEJB02

Explosion Proof
Electrical Equipment
Materiali Elettrici Antideflagranti
TECHNOR ITALSMEA
A COMPANY OF MARECHAL ELECTRIC

CROSSWIND

ROSETTI MARINO

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
05	20/12/24	FB	OB	OB	ACCEPTED FOR CONSTRUCTION (AFC)
04	26/11/24	FB	OB	OB	ACCEPTED FOR CONSTRUCTION (AFC)
03	25/10/24	FB	OB	OB	ACCEPTED FOR CONSTRUCTION (AFC)
02	12/09/24	FB	OB	OB	ACCEPTED FOR CONSTRUCTION (AFC)
01	03/09/24	FB	OB	OB	ACCEPTED FOR CONSTRUCTION (AFC)
00	30/07/24	FB	OB	OB	ISSUE FOR REVIEW (IFR)

TITLE : BASE LOAD POWER HUB (BLPH)

Junction Box for Normal & Emergency Lighting

CONTRACT NO./TITLE CW–I–WP4–2023–05/HOLLANDSE KUST NOORD WIND PARK

SCALE : NTS

A3

DRAWING NO. 1724001481–EL–DA–00003

SHEET 004

REV. 05

F.to UNI A3: 420mmx297mm

File Name : 1724001481–EL–DA–00003 Rev. 01

ENCLOSURE N°	TAG LIST	NORMAL LIGHTING	EMERGENCY LIGHTING
1	EJB-200N1-03-L2-04	X	
2	EJB-200N1-03-L2-03	X	
3	EJB-200N1-03-L2-01	X	
4	EJB-200N1-03-L2-02	X	
5	EJB-200N1-03-L2-12	X	
6	EJB-200N1-03-L2-11	X	
7	EJB-200N1-03-L2-10	X	
8	EJB-200N1-03-L2-09	X	
9	EJB-200N1-03-L2-08	X	
10	EJB-200N1-03-L2-07	X	
11	EJB-200N1-03-L2-06	X	
12	EJB-200N1-03-L2-05	X	
13	EJB-200N1-03-L2-14	X	
14	EJB-200N1-03-L2-13		X
15	EJB-200N1-09-L2-17		X
16	EJB-200N1-09-L2-01		X
17	EJB-200N1-09-L2-04		X
18	SPARE (TO BE PROVIDED BLANK)		X
19	EJB-200N1-09-L2-02		X
20	EJB-200N1-09-L2-15		X
21	EJB-200N1-09-L2-14		X
22	EJB-200N1-09-L2-13		X
23	EJB-200N1-09-L2-12		X
24	EJB-200N1-09-L2-11		X
25	EJB-200N1-09-L2-10		X
26	EJB-200N1-09-L2-09		X
27	EJB-200N1-09-L2-08		X
28	EJB-200N1-09-L2-07		X
29	EJB-200N1-09-L2-06		X
30	EJB-200N1-09-L2-05		X
31	EJB-200N1-09-L2-16	X	
32	EJB-200N1-04-L3-01	X	
33	EJB-200N1-04-L3-02	X	
34	EJB-200N1-10-L3-05		X
35	EJB-200N1-10-L3-06		X
36	EJB-200N1-10-L3-07		X
37	EJB-200N1-10-L3-08		X
38	EJB-200N1-10-L3-09		X
39	EJB-200N1-10-L3-02		X
40	EJB-200N1-10-L3-01		X
41	EJB-200N1-10-L3-03		X
42	EJB-200N1-10-L3-04		X
43	EJB-200N1-02-L1-03	X	
44	EJB-200N1-02-L1-02	X	
45	EJB-200N1-02-L1-01	X	
46	SPARE (TO BE PROVIDED BLANK)	X	
47	EJB-200N1-02-L1-10	X	
48	EJB-200N1-02-L1-19	X	
49	EJB-200N1-02-L1-18	X	

ENCLOSURE N°	TAG LIST	NORMAL LIGHTING	EMERGENCY LIGHTING
50	EJB-200N1-02-L1-17	X	
51	EJB-200N1-02-L1-16	X	
52	EJB-200N1-02-L1-15	X	
53	EJB-200N1-02-L1-14	X	
54	EJB-200N1-02-L1-13	X	
55	EJB-200N1-02-L1-12	X	
56	EJB-200N1-02-L1-11	X	
57	EJB-200N1-02-L1-06	X	
58	EJB-200N1-02-L1-05	X	
59	EJB-200N1-02-L1-07	X	
60	EJB-200N1-02-L1-08	X	
61	EJB-200N1-02-L1-09	X	
62	EJB-200N1-08-L1-03		X
63	SPARE (TO BE PROVIDED BLANK)		X
64	EJB-200N1-08-L1-01		X
65	EJB-200N1-08-L1-04		X
66	EJB-200N1-08-L1-19		X
67	EJB-200N1-08-L1-18		X
68	EJB-200N1-08-L1-17		X
69	EJB-200N1-08-L1-16		X
70	EJB-200N1-08-L1-15		X
71	EJB-200N1-08-L1-14		X
72	EJB-200N1-02-L1-20	X	
73	EJB-200N1-08-L1-12		X
74	EJB-200N1-08-L1-11		X
75	EJB-200N1-08-L1-10		X
76	EJB-200N1-08-L1-20		X
77	EJB-200N1-08-L1-05		X
78	EJB-200N1-08-L1-06		X
79	EJB-200N1-08-L1-07		X
80	EJB-200N1-08-L1-09		X
81	EJB-200N1-08-L1-08		X
82	EJB-200F2-01	X	
83	EJB-200F2-02	X	
84	SPARE (TO BE PROVIDED BLANK)	X	
85	SPARE (TO BE PROVIDED BLANK)	X	
86	SPARE (TO BE PROVIDED BLANK)	X	
87	SPARE (TO BE PROVIDED BLANK)	X	
88	SPARE (TO BE PROVIDED BLANK)	X	
89	SPARE (TO BE PROVIDED BLANK)		X
90	SPARE (TO BE PROVIDED BLANK)		X
91	SPARE (TO BE PROVIDED BLANK)		X
92	SPARE (TO BE PROVIDED BLANK)		X

Q.TY 92, ITEM 20: 2JBXXGPEE, ELEJB02

Explosion Proof
Electrical Equipment
Materiali Elettrici Antideflagranti

TECHNOR ITALSMEA
A COMPANY OF MARECHAL ELECTRIC

CROSSWIND

ROSETTI MARINO

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
05	20/12/24	FB	OB	OB	ACCEPTED FOR CONSTRUCTION (AFC)
04	26/11/24	FB	OB	OB	ACCEPTED FOR CONSTRUCTION (AFC)
03	25/10/24	FB	OB	OB	ACCEPTED FOR CONSTRUCTION (AFC)
02	12/09/24	FB	OB	OB	ACCEPTED FOR CONSTRUCTION (AFC)
01	03/09/24	FB	OB	OB	ACCEPTED FOR CONSTRUCTION (AFC)
00	30/07/24	FB	OB	OB	ISSUE FOR REVIEW (IFR)

TITLE : BASE LOAD POWER HUB (BLPH)

Junction Box for Normal & Emergency Lighting–Tag List

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE : NTS

A3

DRAWING NO. 1724001481-EL-DA-00003

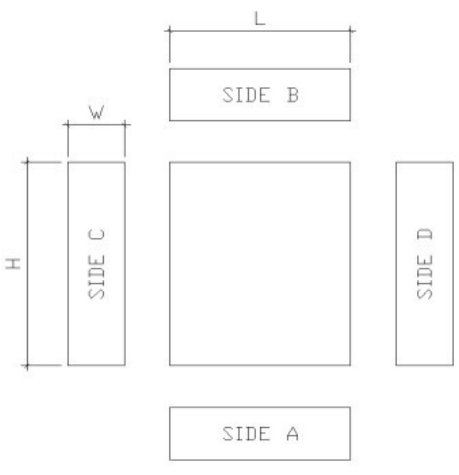
SHEET 005

REV. 05

F.to UNI A3: 420mmx297mm

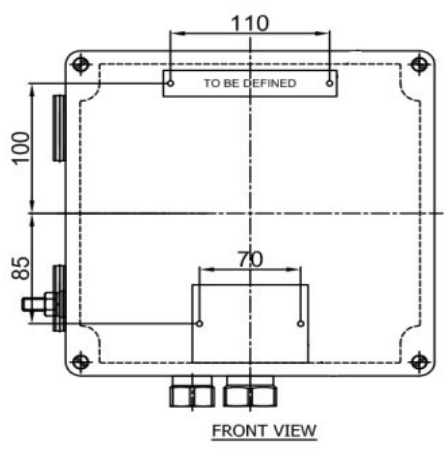
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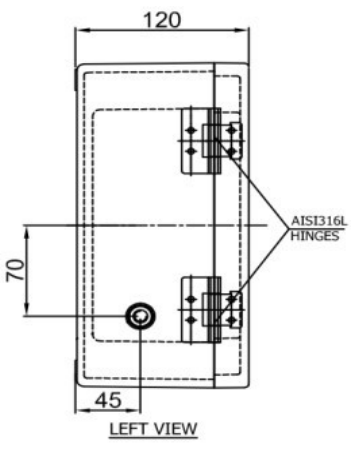
Row	Data Sheet for Control Stations, Junction Boxes and Sockets				Rev.
1	Junction Box for Normal & Emergency Lighting (Exdb)				
2	Item	Required	Manufacturer Proposal	Comments	
3	Model Number	by Vendor	AQ-252612P		01
4	Serial Number	by Vendor	B011041010004		01
5	Quantity	43+5(spare)		(39+9 spare)	01
6	Appkication	Lighting pole JB/Lighting JB			00
7	**Installation area**				
8	Indoor/Outdoor	Outdoor			00
9	Safe Area/Hazardous Area	Hazardous area			00
10	Zone 1/Zone 2	Zone-1			00
11	Temp. Class	Zone 1 Gas Group IIC (or) IIB + H2, T1	Ex eb IIC, T6 Gb		01
12	**Electrical input data**				
13	Voltage	230 V ac	230 V ac		01
14	Number of Phases	1ph + N + PE			00
15	**Material**				
16	Body	GRP	GRP		01
17	Execution	Ex eb	Ex eb		00
18	Protection Degree	IP56	IP 66		01
19	**Accessories**				
20	Hinged Cover	Required	AISI316L Hinges		01
21	Gasket	Required			00
22	Removable Gland Plates	Required	Brass Continuity plate 0.8mm thick		01
23	Internal Mounting Plate	Thickness 3mm threaded		connected to Internal ground bar	00
24	Internal Ground Bar	Required		connected to earth stud	00
25	Earth Stud	Required			00
26	Drainage Valve	Required			00
27	Pad lockable Cover	Required			00
28	Identification Label	Trafolite/ Stainless Steel	Laminated Plastic	for all label	01
29	**Side 'A'**				
30	Hubs Qty.	5	5		01
31	Size	No.3 M25, No.2 M20	No.3 Ø 25.2 mm, No.2 Ø 20.2 mm		01
32	Thread	ISO-M			00
33	Plug	No. 1 M20, No.1 M25	No. 1 Ø 20.2 mm, No.1 Ø 25.2 mm	nickel-plated brass	01
34	**Side 'B'**				
35	Hubs Qty.	Not Required			00
36	Size	NA			00
37	Thread	NA			00
38	**Side 'C'**				
39	Hubs Qty.	Not Required			00
40	Size	NA			00
41	Thread	NA			00
42	**Side 'D'**				
43	Hubs Qty.	Not Required			00
44	Size	NA			00
45	Thread	NA			00
46	**Terminals**				
47	Size [mm^2]	Suitable for 6 Sq.mm & 2.5 Sq.mm Cable	M25 & M20	suitable with wire-end ferrules DIN 46228	01
48	Qty.	n°5 for Ph // n°5 for N // n°5 for PE	n°5 for Ph // n°5 for N // n°5 for PE	Ex - jumpered	01
49	**Bonding Cable (yellow/Green)**				
50	Size [mm^2]	by vendor		6 mm^2	01
51	Qty.	Min. 0.15m			00
52	**Dimension**				
53	Height 'H' [mm]	by vendor	120 mm		01
54	Width 'W' [mm]	by vendor	250 mm		01
55	Length 'L' [mm]	by vendor	255 mm		01
56	Weight [Kg]	by vendor	2.65 Kg		01
57	JB Code (*)	Remarks			
58					



NOTES:

(*) Filled by Vendor





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Its distribution is electronically controlled. Once printed shall be considered as "NOT CONTROLLED" copy

Tag Number	Tag Description	Location	P.O.	Vendor	Manufacturer	Serial Number	Model Type Catalogue Number	Installation Zone	ATEX Certificate Number	Reference Document	ATEX Certification Marking	Notes / Comments	Skid / Package	Electrical Equip.	Barrier Calculation Ref.	Special Conditions of Safe Use Applicable	3D Location
CB-200F4B	AC UPS F&G - Battery Isolator-B	CONTAINER B-300 (LOWER DECK)	1724000372	3W Power	Cortem Spa		EJBC	Zone 1	EPT 20 ATEX 4075X	1724000372-EL-DG-00011	II 2GDEx db IIC T6 Gb Ex tb IIIC T 85°C Db	-	N/A	True	N/A	False	
EAT-200N1-01	Trace Heating - Remote Ambient Thermostat	LOWER DECK	1724001647	nVent	nVent	1244-022663	ETS-05-A2-E-A	Zone 1	Baseefa 13ATEX0137	1724001647-EL-DD-00004	II 2(1)G Ex eb ia mb [ia Ga] IIC T5 Gb - 40ºC ≤ Ta ≤ +60ºC II 2D Ex tb IIIC T100ºC Db	-	N/A	True	N/A	False	
EHT-1001-A	Self-regulating heat cable	LOWER DECK	1724001647	nVent	nVent	469145-000	3BTV2-CT	Zone 1	SGS20ATEX0048X	1724001647-EL-DD-00004	II 2 GD Ex 60079-30-1 eb IIC T6 Gb	-	N/A	True	N/A	True	
EHT-1002-A	Self-regulating heat cable	LOWER DECK	1724001647	nVent	nVent	469145-000	3BTV2-CT	Zone 1	SGS20ATEX0048X	1724001647-EL-DD-00004	II 2 GD Ex 60079-30-1 eb IIC T6 Gb	-	N/A	True	N/A	True	
EHT-1003-A	Self-regulating heat cable	LOWER DECK	1724001647	nVent	nVent	469145-000	3BTV2-CT	Zone 1	SGS20ATEX0048X	1724001647-EL-DD-00004	II 2 GD Ex 60079-30-1 eb IIC T6 Gb	-	N/A	True	N/A	True	
EHT-1004-A	Self-regulating heat cable	UPPER DECK	1724001647	nVent	nVent	469145-000	3BTV2-CT	Zone 1	SGS20ATEX0048X	1724001647-EL-DD-00004	II 2 GD Ex 60079-30-1 eb IIC T6 Gb	-	N/A	True	N/A	True	
EHT-1004-B	Self-regulating heat cable	UPPER DECK	1724001647	nVent	nVent	469145-000	3BTV2-CT	Zone 1	SGS20ATEX0048X	1724001647-EL-DD-00004	II 2 GD Ex 60079-30-1 eb IIC T6 Gb	-	N/A	True	N/A	True	
EHT-1005-A	Self-regulating heat cable	UPPER DECK	1724001647	nVent	nVent	469145-000	3BTV2-CT	Zone 1	SGS20ATEX0048X	1724001647-EL-DD-00004	II 2 GD Ex 60079-30-1 eb IIC T6 Gb	-	N/A	True	N/A	True	
EHT-1006-A	Self-regulating heat cable	UPPER DECK	1724001647	nVent	nVent	469145-000	3BTV2-CT	Zone 1	SGS20ATEX0048X	1724001647-EL-DD-00004	II 2 GD Ex 60079-30-1 eb IIC T6 Gb	-	N/A	True	N/A	True	
EHT-1007-A	Self-regulating heat cable	LOWER DECK	1724001647	nVent	nVent	469145-000	3BTV2-CT	Zone 1	SGS20ATEX0048X	1724001647-EL-DD-00004	II 2 GD Ex 60079-30-1 eb IIC T6 Gb	-	N/A	True	N/A	True	
EHT-2002-A	Self-regulating heat cable	UPPER DECK	1724001647	nVent	nVent	469145-000	3BTV2-CT	Zone 1	SGS20ATEX0048X	1724001647-EL-DD-00004	II 2 GD Ex 60079-30-1 eb IIC T6 Gb	-	N/A	True	N/A	True	
EJB-200F2-01	Top Obstruction Lights Junction Box	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990082	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	HAZARDOUS-AREA_8 HAZARDOUS-AREA_3
EJB-200F2-02	Intermediate obstruction lights junction box	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990083	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	HAZARDOUS-AREA_4
EJB-200N1-02-L1-01	Normal Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990045	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-02-L1-02	Normal Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990044	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-02-L1-03	Normal Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990043	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	HAZARDOUS-AREA_3
EJB-200N1-02-L1-05	Normal Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990058	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-02-L1-06	Normal Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990057	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-02-L1-07	Normal Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990059	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-02-L1-08	Normal Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990060	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-02-L1-09	Normal Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990061	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-02-L1-10	Normal Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990047	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-02-L1-11	Normal Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990056	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-02-L1-12	Normal Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990055	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-02-L1-13	Normal Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990054	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-02-L1-14	Normal Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990053	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-02-L1-15	Normal Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990052	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-02-L1-16	Normal Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990051	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-02-L1-17	Normal Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990050	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-02-L1-18	Normal Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990049	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-02-L1-19	Normal Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990048	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-02-L1-20	Normal Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990072	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-03-L2-01	Normal Lighting JB	LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990003	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-03-L2-02	Normal Lighting JB	LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990004	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-03-L2-03	Normal Lighting JB	LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990002	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-03-L2-04	Normal Lighting JB	LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990001	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-03-L2-05	Normal Lighting JB	LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990012	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-03-L2-06	Normal Lighting JB	LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990011	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-03-L2-07	Normal Lighting JB	LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990010	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-03-L2-08	Normal Lighting JB	LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990009	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-03-L2-09	Normal Lighting JB	LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990008	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-03-L2-10	Normal Lighting JB	LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990007	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-03-L2-11	Normal Lighting JB	LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990006	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-03-L2-12	Normal Lighting JB	LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990005	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-03-L2-13	Normal Lighting JB	LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990014	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-03-L2-14	Normal Lighting JB	LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990013	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-04-L3-01	Stair Normal Lighting JB	LOWER DECK STAIRS	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990032	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-04-L3-02	Stair Normal Lighting JB	LOWER DECK STAIRS	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990033	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-08-L1-01	Emergency Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990064	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-08-L1-03	Emergency Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990062	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	HAZARDOUS-AREA_3
EJB-200N1-08-L1-04	Emergency Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990065	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-08-L1-05	Emergency Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990077	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-08-L1-06	Emergency Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990078	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	

Fiditas
explosion safety solutions

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[1] # EU – TYPE EXAMINATION CERTIFICATE

[2] Equipment or Protective Systems Intended for use in Potentially Explosive Atmospheres Directive 2014/34/EU.

[3] EU-Type Examination Certificate Number: **FIDI 21 ATEX 0090X** Issue: **1**

[4] Product: **Junction boxes, local control stations and local control panels**

Type: **AQ-***P / AQ-***AL / AR-***P / AR-***AL**
AQ-*P-HT / AQ-***AL-HT / AR-***P-HT / AR-***AL-HT**
SB-* / ST-***
EFE-* / EFXE-*** AL / EFXE-***SB / EFXE-***ST**
EFE-*-HT / EFXE-***AL-HT**

[5] Manufacturer: **Technor Italsmea S.p.A.**

[6] Address: **Via Italia 33, 20060 Gessate (MI), Italy**

[7] This product and any acceptable variation thereto is specified in the schedule to this certificate and documents therein referred to.

[8] FIDITAS Ltd., Notified Body number 2829 in accordance with Article 17 of Directive 2014/34/EU of the European Parliament and of the Council, dated 26 February 2014, certifies that this product has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of products intended for use in potentially explosive atmospheres given in Annex II of the Directive.

The examination and test results are recorded in confidential Report No: **FIDI 21 CR 075**

[9] Compliance with the Essential Health and Safety Requirements has been assured by compliance with:

EN IEC 60079-0:2018	**EN 60079-1:2014**	**EN IEC 60079-7:2015 / A1:2018**
EN 60079-11:2012	**EN 60079-18:2015/A1:2017**	**EN 60079-31:2014**

except in respect of those requirements listed at item 18 of the Schedule.

[10] If the sign 'X' is placed after the certificate number, it indicates that the product is subject to Specific Conditions of Use specified in the schedule to this certificate.

[11] This EU-Type Examination Certificate relates only to the design, examination and test of the specified product in accordance with Annex III. Further requirements of the Directive apply to the manufacturing process and supply of this products. These are not covered by this certificate.

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[12] The marking of the product shall include the following:



II 1 G	**Ex ia IIC/IIB T6...T4 Ga**(2) or
II 2(1) G or **II 2(2) G**	**Ex db eb ia/ib mb [**(3)**] IIC/IIB T6...T4 Gb**(1) or
II 2 G	**Ex eb IIC/IIB T6...T4 Gb**(1) or
II 2 D	**Ex tb IIIC T85°C...T135°C Db**

(1) Others type of protection additional to 'eb' depending to the components actually mounted.

(2) In case of enclosures containing 'eb' terminals and/or 'ia Ga' already certified components (with compatible marking) only.

(3) Associated equipment protection depending on the components actually mounted (see lists): e.g. [ia/ib/ia Ga/ia IIIC Da] and/or [ia IIIC Da] or [ia/ib/ia Ga/ia IIIC Da] and/or [ia/ib/ia Ga] [ia IIIC Da]

Our ref.: 21.CRT.400

Date: 23. 12.2021.

Fiditas d.o.o. ZAGREB

FIDITAS Ltd.
Certification department
Approved:

Marino Kelava, M.E.Eng.

Fiditas Ltd. Karlovačka cesta 197, 10250 Zagreb-Lučko, Croatia
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[13] **SCHEDULE**

[14] **EU - TYPE EXAMINATION CERTIFICATE No.:** **FIDI 21 ATEX 0090X**

[15] **Description of product**

Junction boxes, local control stations and local control panels are made of 'eb' and 'tb' enclosures in stainless steel, aluminium alloy or glass fiber reinforced polyester resin, of various dimensions, which shall house 'eb' and/or 'ia/ib' terminals and/or Ex components or Ex equipment made in different type of Ex protection. All Ex terminals, Ex components and Ex equipment are covered by their own ATEX certificates.

The terminals and components are be used according to data available in related component certificates, in relevant temperature range, voltage and current limitations. The terminals must be fitted in accordance with EN IEC 60079-0 and EN IEC 60079-7 with regards to creepage and clearance distances, and according to related safety instructions.

The cover is fixed to the body with screw, between body and cover a gasket guarantee the protection degree IP66 (IP66/67 depending on models). The cover of stainless-steel enclosure can be also fixed the body with looking devices, between body and cover a gasket guarantee the protection degree IP66. The IP degree of junction boxes, local control stations and local control panels depend on the components actually mounted. The walls and the bottom of the boxes can be drilled and taped with maximum size and maximum number of holes as specified in the manufacturer documents.

The cable glands or plugs, with separate ATEX certificate, made in type of protection 'eb' and/or 'tb' with appropriate IP protection are mounted according to related manufacturer's installation instructions. Each enclosure is provided with internal earthing certified terminal or earthing screw or bolt. Metal enclosures are provided by external earthing screw or bolt. Metal and polyester enclosures can be provided by passing through earthing terminals.

All enclosures can be provided by:
- Externally installed accessories as specified in manufacturer documents,
- Drain breath device type ECR3, included in this certificate,
- Internal/external earthing plate.

Model identification

Junction boxes

A(1)-(2) (3) (4) (5) (6)	(1) –	**Q**: Square size **R**: Rectangular size
	(2) (3) (4)	dimension, in cm
	(5)	Material **P**: Glass fiber reinforced polyester resin **AL**: Aluminium Alloy
	(6)	None: up to internal temperature of 105°C **HT**: up to internal temperature of 130°C
SB- (2) (3) (4)	(2) (3) (4)	dimension, in cm
ST- (2) (3) (4)	(2) (3) (4)	dimension, in cm

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Panel boards

EFE- (2) (3) (4) (6)	(2) (3) (4)	dimension, in cm
	(6)	None: up to internal temperature of 105°C **HT**: up to internal temperature of 130°C
EFXE- (2) (3) (4) (5) (6)	(2) (3) (4)	dimension, in cm
		Material
	(5)	**SB** or **ST**: stainless steel **AL**: Aluminium Alloy
	(6)	None: up to internal temperature of 105°C **HT**: up to internal temperature of 130°C

Technical data:

Electrical data:	According to Ex component to actually installed
Ambient temperature:	-50°C ÷ +95°C Other possible ranges are with: - min temperature: -50°C to -20 °C - max temperature of +40 °C to +95 °C
Mechanical protection:	IP66/IP67 depending on models IP66 without swing handle element IP55 with swing handle element

Temperature class and/or maximum surface temperature of any junction box or control panel depend on ambient temperature and internal power dissipation. The values that must be observed are given in relevant tables in this certificate.

For commercial reasons model name listed in the tables below can be modified as follows: first (2) and second (3) pair of digits can be reversed.

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Model sizes

Polyester High Temperature		Aluminium High Temperature	
AQ-080806P-HT	EFE-080806-HT	AQ-080806AL-HT	EFXE-080806AL-HT
AQ-080808P-HT	EFE-080808-HT	AR-081306AL-HT	EFXE-081306AL-HT
AR-081106P-HT	EFE-081106-HT	AR-081806AL-HT	EFXE-081806AL-HT
AR-081108P-HT	EFE-081108-HT	AR-082505AL-HT	EFXE-082505AL-HT
AR-081606P-HT	EFE-081606-HT	AQ-101008AL-HT	EFXE-101008AL-HT
AR-081608P-HT	EFE-081608-HT	AR-101608AL-HT	EFXE-101608AL-HT
AR-081906P-HT	EFE-081906-HT	AR-102008AL-HT	EFXE-102008AL-HT
AR-081908P-HT	EFE-081908-HT	AQ-121208AL-HT	EFXE-121208AL-HT
AR-082306P-HT	EFE-082306-HT	AQ-121209AL-HT	EFXE-121209AL-HT
AR-082308P-HT	EFE-082308-HT	AR-122208AL-HT	EFXE-122208AL-HT
AQ-121209P-HT	EFE-121209-HT	AR-122209AL-HT	EFXE-122209AL-HT
AR-122209P-HT	EFE-122209-HT	AR-123608AL-HT	EFXE-123608AL-HT
AQ-161609P-HT	EFE-161609-HT	AQ-141409AL-HT	EFXE-141409AL-HT
AR-162609P-HT	EFE-162609-HT	AR-142009AL-HT	EFXE-142009AL-HT
AR-163609P-HT	EFE-163609-HT	AQ-161609AL-HT	EFXE-161609AL-HT
AR-165609P-HT	EFE-165609-HT	AR-162609AL-HT	EFXE-162609AL-HT
AQ-202017P-HT	EFE-202017-HT	AR-163609AL-HT	EFXE-163609AL-HT
AR-203017P-HT	EFE-203017-HT	AR-165609AL-HT	EFXE-165609AL-HT
AQ-252612P-HT	EFE-252612-HT	AQ-181810AL-HT	EFXE-181810AL-HT
AQ-252616P-HT	EFE-252616-HT	AR-182810AL-HT	EFXE-182810AL-HT
AR-254012P-HT	EFE-254012-HT	AR-102311AL-HT	EFXE-102311AL-HT
AR-254016P-HT	EFE-254016-HT	AR-202311AL-HT	EFXE-202311AL-HT
AR-256012P-HT	EFE-256012-HT	AR-202318AL-HT	EFXE-202318AL-HT
AR-304020P-HT	EFE-304020-HT	AR-232811AL-HT	EFXE-232811AL-HT
AQ-363609P-HT	EFE-363609-HT	AR-233311AL-HT	EFXE-233311AL-HT
AR-406025P-HT	EFE-406025-HT	AR-233318AL-HT	EFXE-233318AL-HT
AQ-414012P-HT	EFE-414012-HT	AR-234011AL-HT	EFXE-234011AL-HT
AQ-414020P-HT	EFE-414020-HT	AR-234023AL-HT	EFXE-234023AL-HT
		AR-236011AL-HT	EFXE-236011AL-HT
		AR-314011AL-HT	EFXE-314011AL-HT
		AR-314014AL-HT	EFXE-314014AL-HT
		AR-314018AL-HT	EFXE-314018AL-HT
		AR-314023AL-HT	EFXE-314023AL-HT
		AR-316011AL-HT	EFXE-316011AL-HT
		AR-316018AL-HT	EFXE-316018AL-HT
		AQ-606020AL-HT	EFXE-606020AL-HT

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Polyester		Aluminium		Stainless steel	
AQ-080806P	EFE-080806	AQ-080806AL	EFXE-080806AL	SB-101210	EFXE-101210SB
AQ-080808P	EFE-080808	AR-081306AL	EFXE-081306AL	SB-151510	EFXE-151510SB
AR-081106P	EFE-081106	AR-081806AL	EFXE-081806AL	SB-142013	EFXE-142013SB
AR-081606P	EFE-081606	AR-081808AL	EFXE-081808AL	SB-202010	EFXE-202010SB
AR-081906P	EFE-081906	AR-082505AL	EFXE-082505AL	SB-202016	EFXE-202016SB
AQ-121209P	EFE-121209	AR-082508AL	EFXE-082508AL	SB-202713	EFXE-202713SB
AR-122209P	EFE-122209	AQ-101008AL	EFXE-101008AL	SB-272713	EFXE-272713SB
AQ-161609P	EFE-161609	AR-101508AL	EFXE-101508AL	SB-203016	EFXE-203016SB
AR-162609P	EFE-162609	AR-101608AL	EFXE-101608AL	SB-273513	EFXE-273513SB
AR-163609P	EFE-163609	AR-102008AL	EFXE-102008AL	SB-282816	EFXE-282816SB
AQ-252612P	EFE-252612	AQ-121208AL	EFXE-121208AL	SB-204016	EFXE-204016SB
AQ-252616P	EFE-252616	AR-122209AL	EFXE-122209AL	SB-353516	EFXE-353516SB
AR-254012P	EFE-254012	AQ-141409AL	EFXE-141409AL	SB-282827	EFXE-282827SB
AR-254016P	EFE-254016	AR-142009AL	EFXE-142009AL	SB-355016	EFXE-355016SB
AR-256012P	EFE-256012	AQ-161609AL	EFXE-161609AL	SB-383816	EFXE-383816SB
AQ-414012P	EFE-414012	AR-162410AL	EFXE-162410AL	SB-384516	EFXE-384516SB
		AR-162609AL	EFXE-162609AL	SB-385716	EFXE-385716SB
		AQ-181810AL	EFXE-181810AL	SB-505016	EFXE-505016SB
		AR-182810AL	EFXE-182810AL	SB-383827	EFXE-383827SB
		AR-202311AL	EFXE-202311AL	SB-575716	EFXE-575716SB
		AR-202318AL	EFXE-202318AL	SB-577620	EFXE-577620SB
		AR-232811AL	EFXE-232811AL	SB-575730	EFXE-575730SB
		AR-233312AL	EFXE-233312AL	SB-769520	EFXE-769520SB
		AR-233318AL	EFXE-233318AL	SB-1258040	EFXE-1258040SB

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Enclosure types (Stainless steel)	
ST-101210	EFXE-101210ST
ST-151510	EFXE-151510ST
ST-142013	EFXE-142013ST
ST-202010	EFXE-202010ST
ST-202016	EFXE-202016ST
ST-202713	EFXE-202713ST
ST-272713	EFXE-272713ST
ST-203016	EFXE-203016ST
ST-273513	EFXE-273513ST
ST-282816	EFXE-282816ST
ST-204016	EFXE-204016ST
ST-353516	EFXE-353516ST
ST-282827	EFXE-282827ST
ST-355016	EFXE-355016ST
ST-383816	EFXE-383816ST
ST-384516	EFXE-384516ST
ST-385716	EFXE-385716ST
ST-505016	EFXE-505016ST
ST-383827	EFXE-383827ST
ST-575716	EFXE-575716ST
ST-577620	EFXE-577620ST
ST-575730	EFXE-575730ST
ST-769520	EFXE-769520ST
ST-1258040	EFXE-1258040ST

Note 2 For stainless steel enclosures: dimensions (2) and (3) can be decreased or increased up to 20%, dimensions (4) can be increased up to 500 mm. Model name changes consequently.

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Power dissipation – HT glass fiber reinforced polyester resin enclosures

Enclosure types (polyester)		Maximum power dissipation (W) – Tamb. up to **40**°C							
		INTERNAL TEMP.60°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)	INTERNAL TEMP.127°C (T4/T135°C)
AQ-080806P-HT	EFE-080806-HT	3,5	5,2	7,0	7,8	9,6	10,4	11,3	15,2
AQ-080808P-HT	EFE-080808-HT	4,6	6,8	9,1	10,2	12,5	13,7	14,8	19,8
AR-081106P-HT	EFE-081106-HT	4,3	6,4	8,5	9,6	11,8	12,8	13,9	18,6
AR-081108P-HT	EFE-081108-HT	5,6	8,4	11,2	12,6	15,3	16,7	18,1	24,2
AR-081606P-HT	EFE-081606-HT	5,8	8,7	11,6	13,0	15,9	17,4	18,8	25.2
AR-081608P-HT	EFE-081608-HT	6,8	10,2	13,7	15,4	18,8	20,5	22,2	29,7
AR-081906P-HT	EFE-081906-HT	6,4	9,6	12,8	14,4	17,6	19,2	20,8	27,8
AR-081908P-HT	EFE-081908-HT	7,5	11,3	15,1	17,0	20,7	22,6	24,5	32,7
AR-082306P-HT	EFE-082306-HT	7,2	10,8	14,4	16,2	19,8	21,6	23,4	31,3
AR-082308P-HT	EFE-082308-HT	8,5	12,7	16,9	19,0	23,3	25,4	27,5	36,7
AQ-121209P-HT	EFE-121209-HT	8,0	12,0	15,9	17,9	21,9	23,9	25,9	34,7
AR-122209P-HT	EFE-122209-HT	10,8	16,2	21,6	24,3	29,7	32,4	35,1	47,0
AQ-161609P-HT	EFE-161609-HT	10,4	15,6	20,8	23,4	28,6	31,2	33,8	45,2
AR-162609P-HT	EFE-162609-HT	13,4	20,1	26,8	30,2	36,9	40,2	43,6	58,3
AR-163609P-HT	EFE-163609-HT	16,2	24,3	32,4	36,5	44,6	48,6	52,7	70,5
AR-165609P-HT	EFE-165609-HT	21,4	32,0	42,7	48,1	58,7	64,1	69,4	92,9
AQ-202017P-HT	EFE-202017-HT	18,0	26,9	35,9	40,4	49,4	53,9	58,4	78,1
AR-203017P-HT	EFE-203017-HT	20,9	31,3	41,7	47,0	57,4	62,6	67,8	90,8
AQ-252612P-HT	EFE-252612-HT	18,8	28,2	37,6	42,4	51,8	56,5	61,2	81,9
AQ-252616P-HT	EFE-252616-HT	20,8	31,1	41,5	46,7	57,1	62,3	67,5	90,3
AR-254012P-HT	EFE-254012-HT	22,8	34,2	45,7	51,4	62,8	68,5	74,2	99,3
AR-254016P-HT	EFE-254016-HT	26,2	39,3	52,4	58,9	72,0	78,6	85,1	113,9
AR-256012P-HT	EFE-256012-HT	29,0	43,6	58,1	65,3	79,9	87,1	94,4	126,3
AR-304020P-HT	EFE-304020-HT	32,3	48,5	64,7	72,7	88,9	97,0	105,1	140,7
AQ-363609P-HT	EFE-363609-HT	23,0	34,6	46,1	51,8	63,4	69,1	74,9	100,2
AR-406025P-HT	EFE-406025-HT	50,3	75,5	100,7	113,3	138,4	151,0	163,6	218,9
AQ-414012P-HT	EFE-414012-HT	29,1	43,7	58,2	65,5	80,1	87,3	94,6	126,6
AQ-414020P-HT	EFE-414020-HT	36,6	55,0	73,3	82,4	100,8	109,9	119,1	159,4

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Enclosure types (polyester)		Maximum power dissipation (W) – Tamb. up to **50**°C							
		INTERNAL TEMP.60°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)	INTERNAL TEMP.127°C (T4/T135°C)
AQ-080806P-HT	EFE-080806-HT	1,7	3,5	5,2	6,1	7,8	8,7	9,6	13,4
AQ-080808P-HT	EFE-080808-HT	2,3	4,6	6,8	8,0	10,2	11,4	12,5	17,5
AR-081106P-HT	EFE-081106-HT	2,1	4,3	6,4	7,5	9,6	10,7	11,8	16,5
AR-081108P-HT	EFE-081108-HT	2,8	5,6	8,4	9,8	12,6	13,9	15,3	21.5
AR-081606P-HT	EFE-081606-HT	2,9	5,8	8,7	10,1	13,0	14,5	15,9	22,3
AR-081608P-HT	EFE-081608-HT	3,4	6,8	10,2	11,9	15,4	17,1	18,8	26,3
AR-081906P-HT	EFE-081906-HT	3,2	6,4	9,6	11,2	14,4	16,0	17,6	24,6
AR-081908P-HT	EFE-081908-HT	3,8	7,5	11,3	13,2	17,0	18,8	20,7	29,0
AR-082306P-HT	EFE-082306-HT	3,6	7,2	10,8	12,6	16,2	18,0	19,8	27,7
AR-082308P-HT	EFE-082308-HT	4,2	8,5	12,7	14,8	19,0	21,1	23,3	32,5
AQ-121209P-HT	EFE-121209-HT	4,0	8,0	12,0	14,0	17,9	19,9	21,9	30,7
AR-122209P-HT	EFE-122209-HT	5,4	10,8	16,2	18,9	24,3	27,0	29,7	41,6
AQ-161609P-HT	EFE-161609-HT	5,2	10,4	15,6	18,2	23,4	26,0	28,6	40,0
AR-162609P-HT	EFE-162609-HT	6,7	13,4	20,1	23,5	30,2	33,5	36,9	51,6
AR-163609P-HT	EFE-163609-HT	8,1	16,2	24,3	28,4	36,5	40,5	44,6	62,3
AR-165609P-HT	EFE-165609-HT	10,7	21,4	32,0	37,4	48,1	53,4	58,7	82,2
AQ-202017P-HT	EFE-202017-HT	9,0	18,0	26,9	31,4	40,4	44,9	49,4	69,1
AR-203017P-HT	EFE-203017-HT	10,4	20,9	31,3	36,5	47,0	52,2	57,4	80,4
AQ-252612P-HT	EFE-252612-HT	9,4	18,8	28,2	32,9	42,4	47,1	51,8	72,5
AQ-252616P-HT	EFE-252616-HT	10,4	20,8	31,1	36,3	46,7	51,9	57,1	79,9
AR-254012P-HT	EFE-254012-HT	11,4	22,8	34,2	39,9	51,4	57,1	62,8	87,9
AR-254016P-HT	EFE-254016-HT	13,1	26,2	39,3	45,8	58,9	65,5	72,0	100,8
AR-256012P-HT	EFE-256012-HT	14,5	29,0	43,6	50,8	65,3	72,6	79,9	111,8
AR-304020P-HT	EFE-304020-HT	16,2	32,3	48,5	56,6	72,7	80,8	88,9	124,4
AQ-363609P-HT	EFE-363609-HT	11,5	23,0	34,6	40,3	51,8	57,6	63,4	88,7
AR-406025P-HT	EFE-406025-HT	25,2	50,3	75,5	88,1	113,3	125,8	138,4	193,8
AQ-414012P-HT	EFE-414012-HT	14,6	29,1	43,7	51,0	65,5	72,8	80,1	112,1
AQ-414020P-HT	EFE-414020-HT	18,3	36,6	55,0	64,1	82,4	91,6	100,8	141,1

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Enclosure types (polyester)		Maximum power dissipation (W) – Tamb. up to **55**°C							
		INTERNAL TEMP.65°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)	INTERNAL TEMP.127°C (T4/T135°C)
AQ-080806P-HT	EFE-080806-HT	1,7	2,6	4,4	5,2	7,0	7,8	8,7	12,5
AQ-080808P-HT	EFE-080808-HT	2,3	3,4	5,7	6,8	9,1	10,2	11,4	16,2
AR-081106P-HT	EFE-081106-HT	2,1	3,2	5,3	6,4	8,5	9,6	10,7	15,2
AR-081108P-HT	EFE-081108-HT	2,8	4,2	7,0	8,4	11,2	12,6	13,9	19,8
AR-081606P-HT	EFE-081606-HT	2,9	4,3	7,2	8,7	11,6	13,0	14,5	20,6
AR-081608P-HT	EFE-081608-HT	3,4	5,1	8,5	10,2	13,7	15,4	17,1	24,3
AR-081906P-HT	EFE-081906-HT	3,2	4,8	8,0	9,6	12,8	14,4	16,0	22,8
AR-081908P-HT	EFE-081908-HT	3,8	5,7	9,4	11,3	15,1	17,0	18,8	26,8
AR-082306P-HT	EFE-082306-HT	3,6	5,4	9,0	10,8	14,4	16,2	18,0	25,6
AR-082308P-HT	EFE-082308-HT	4,2	6,3	10,6	12,7	16,9	19,0	21,1	30,0
AQ-121209P-HT	EFE-121209-HT	4,0	6,0	10,0	12,0	15,9	17,9	19,9	28,3
AR-122209P-HT	EFE-122209-HT	5,4	8,1	13,5	16,2	21,6	24,3	27,0	38,3
AQ-161609P-HT	EFE-161609-HT	5,2	7,8	13,0	15,6	20,8	23,4	26,0	36,9
AR-162609P-HT	EFE-162609-HT	6,7	10,1	16,8	20,1	26,8	30,2	33,5	47,6
AR-163609P-HT	EFE-163609-HT	8,1	12,2	20,3	24,3	32,4	36,5	40,5	57,5
AR-165609P-HT	EFE-165609-HT	10,7	16,0	26,7	32,0	42,7	48,1	53,4	75,8
AQ-202017P-HT	EFE-202017-HT	9,0	13,5	22,4	26,9	35,9	40,4	44,9	63,7
AR-203017P-HT	EFE-203017-HT	10,4	15,7	26,1	31,3	41,7	47,0	52,2	74,0
AQ-252612P-HT	EFE-252612-HT	9,4	14,1	23,5	28,2	37,6	42,4	47,1	66,8
AQ-252616P-HT	EFE-252616-HT	10,4	15,6	26,0	31,1	41,5	46,7	51,9	73,7
AR-254012P-HT	EFE-254012-HT	11,4	17,1	28,5	34,2	45,7	51,4	57,1	81,0
AR-254016P-HT	EFE-254016-HT	13,1	19,6	32,7	39,3	52,4	58,9	65,5	92,9
AR-256012P-HT	EFE-256012-HT	14,5	21,8	36,3	43,6	58,1	65,3	72,6	103,0
AR-304020P-HT	EFE-304020-HT	16,2	24,2	40,4	48,5	64,7	72,7	80,8	114,7
AQ-363609P-HT	EFE-363609-HT	11,5	17,3	28,8	34,6	46,1	51,8	57,6	81,8
AR-406025P-HT	EFE-406025-HT	25,2	37,8	62,9	75,5	100,7	113,3	125,8	178,6
AQ-414012P-HT	EFE-414012-HT	14,6	21,8	36,4	43,7	58,2	65,5	72,8	103,0
AQ-414020P-HT	EFE-414020-HT	18,3	27,5	45,8	55,0	73,3	82,4	91,6	130,0

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Enclosure types (polyester)		Maximum power dissipation (W) – Tamb. up to **60**°C						
		INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)	INTERNAL TEMP.127°C (T4/T135°C)
AQ-080806P-HT	EFE-080806-HT	1,7	3,5	4,4	6,1	7,0	7,8	11,7
AQ-080808P-HT	EFE-080808-HT	2,3	4,6	5,7	8,0	9,1	10,2	15,2
AR-081106P-HT	EFE-081106-HT	2,1	4,3	5,3	7,5	8,5	9,6	14,3
AR-081108P-HT	EFE-081108-HT	2,8	5,6	7,0	9,8	11,2	12,6	18,7
AR-081606P-HT	EFE-081606-HT	2,9	5,8	7,2	10,1	11,6	13,0	19,4
AR-081608P-HT	EFE-081608-HT	3,4	6,8	8,5	11,9	13,7	15,4	22,9
AR-081906P-HT	EFE-081906-HT	3,2	6,4	8,0	11,2	12,8	14,4	21,4
AR-081908P-HT	EFE-081908-HT	3,8	7,5	9,4	13,2	15,1	17,0	25,3
AR-082306P-HT	EFE-082306-HT	3,6	7,2	9,0	12,6	14,4	16,2	24,1
AR-082308P-HT	EFE-082308-HT	4,2	8,5	10,6	14,8	16,9	19,0	28,3
AQ-121209P-HT	EFE-121209-HT	4,0	8,0	10,0	14,0	15,9	17,9	26,7
AR-122209P-HT	EFE-122209-HT	5,4	10,8	13,5	18,9	21,6	24,3	36,2
AQ-161609P-HT	EFE-161609-HT	5,2	10,4	13,0	18,2	20,8	23,4	34,8
AR-162609P-HT	EFE-162609-HT	6,7	13,4	16,8	23,5	26,8	30,2	44,9
AR-163609P-HT	EFE-163609-HT	8,1	16,2	20,3	28,4	32,4	36,5	54,2
AR-165609P-HT	EFE-165609-HT	10,7	21,4	26,7	37,4	42,7	48,1	71,5
AQ-202017P-HT	EFE-202017-HT	9,0	18,0	22,4	31,4	35,9	40,4	60,1
AR-203017P-HT	EFE-203017-HT	10,4	20,9	26,1	36,5	41,7	47,0	69,9
AQ-252612P-HT	EFE-252612-HT	9,4	18,8	23,5	32,9	37,6	42,4	63,0
AQ-252616P-HT	EFE-252616-HT	10,4	20,8	26,0	36,3	41,5	46,7	69,5
AR-254012P-HT	EFE-254012-HT	11,4	22,8	28,5	39,9	45,7	51,4	76,5
AR-254016P-HT	EFE-254016-HT	13,1	26,2	32,7	45,8	52,4	58,9	87,7
AR-256012P-HT	EFE-256012-HT	14,5	29,0	36,3	50,8	58,1	65,3	97,2
AR-304020P-HT	EFE-304020-HT	16,2	32,3	40,4	56,6	64,7	72,7	108,3
AQ-363609P-HT	EFE-363609-HT	11,5	23,0	28,8	40,3	46,1	51,8	77,1
AR-406025P-HT	EFE-406025-HT	25,2	50,3	62,9	88,1	100,7	113,3	168,7
AQ-414012P-HT	EFE-414012-HT	14,6	29,1	36,4	51,0	58,2	65,5	97,5
AQ-414020P-HT	EFE-414020-HT	18,3	36,6	45,8	64,1	73,3	82,4	122,7

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Enclosure types (polyester)		Maximum power dissipation (W) Tamb. up to **95**°C		
		INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)	INTERNAL TEMP.127°C (T4/T135°C)
AQ-080806P-HT	EFE-080806-HT	0,9	1,7	5,6
AQ-080808P-HT	EFE-080808-HT	1,1	2,3	7,3
AR-081106P-HT	EFE-081106-HT	1,1	2,1	6,5
AR-081108P-HT	EFE-081108-HT	1,4	2,8	9,0
AR-081606P-HT	EFE-081606-HT	1,4	2,9	9,2
AR-081608P-HT	EFE-081608-HT	1,7	3,4	10,9
AR-081906P-HT	EFE-081906-HT	1,6	3,2	10,2
AR-081908P-HT	EFE-081908-HT	1,9	3,8	12,1
AR-082306P-HT	EFE-082306-HT	1,8	3,6	11,5
AR-082308P-HT	EFE-082308-HT	2,1	4,2	13,5
AQ-121209P-HT	EFE-121209-HT	2,0	4,0	12,8
AR-122209P-HT	EFE-122209-HT	2,7	5,4	17,3
AQ-161609P-HT	EFE-161609-HT	2,6	5,2	16,6
AR-162609P-HT	EFE-162609-HT	3,4	6,7	21,5
AR-163609P-HT	EFE-163609-HT	4,1	8,1	26,0
AR-165609P-HT	EFE-165609-HT	5,3	10,7	34,2
AQ-202017P-HT	EFE-202017-HT	4,5	9,0	28,7
AR-203017P-HT	EFE-203017-HT	5,2	10,4	33,4
AQ-252612P-HT	EFE-252612-HT	4,7	9,4	30,1
AQ-252616P-HT	EFE-252616-HT	5,2	10,4	33,2
AR-254012P-HT	EFE-254012-HT	5,7	11,4	36,5
AR-254016P-HT	EFE-254016-HT	6,5	13,1	41,9
AR-256012P-HT	EFE-256012-HT	7,3	14,5	46,4
AR-304020P-HT	EFE-304020-HT	8,1	16,2	51,8
AQ-363609P-HT	EFE-363609-HT	5,8	11,5	36,8
AR-406025P-HT	EFE-406025-HT	12,6	25,2	80,6
AQ-414012P-HT	EFE-414012-HT	7,3	14,6	46,6
AQ-414020P-HT	EFE-414020-HT	9,2	18,3	58,6

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Power dissipation – HT aluminum alloy enclosures

Enclosure types (aluminium)		Maximum power dissipation (W) – Tamb. up to **40**°C							
		INTERNAL TEMP.60°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)	INTERNAL TEMP.130°C (T4/T135°C)
AQ-080806AL-HT	EFXE-080806AL-HT	5,2	7,8	10,4	11,7	14,3	15,6	16,9	23,4
AR-081306AL-HT	EFXE-081306AL-HT	7,0	10,6	14,1	15,9	19,4	21,2	23,0	31,8
AR-081806AL-HT	EFXE-081806AL-HT	8,9	13,3	17,8	20,0	24,5	26,7	28,9	40,0
AR-082505AL-HT	EFXE-082505AL-HT	10,9	16,4	21,9	24,7	30,1	32,9	35,6	49,4
AQ-101008AL-HT	EFXE-101008AL-HT	8,7	13,0	17,4	19,6	23,9	26,1	28,3	39,2
AR-101608AL-HT	EFXE-101608AL-HT	11,5	17,3	23,1	26,0	31,8	34,7	37,6	52,0
AR-102008AL-HT	EFXE-102008AL-HT	13,4	20,1	26,8	30,2	36,9	40,3	43,6	60,4
AQ-121208AL-HT	EFXE-121208AL-HT	10,8	16,2	21,6	24,3	29,7	32,4	35,1	48,6
AQ-121209AL-HT	EFXE-121209AL-HT	11,6	17,5	23,3	26,2	32,1	35,0	37,9	52,5
AR-122208AL-HT	EFXE-122208AL-HT	15,6	23,5	31,3	35,3	43,1	47,0	50,9	70,6
AR-122209AL-HT	EFXE-122209AL-HT	16,8	25,3	33,7	37,9	46,3	50,6	54,8	75,9
AR-123608AL-HT	EFXE-123608AL-HT	22,3	33,5	44,7	50,3	61,5	67,1	72,7	100,7
AQ-141409AL-HT	EFXE-141409AL-HT	13,7	20,6	27,5	31,0	37,9	41,3	44,8	62,0
AR-142009AL-HT	EFXE-142009AL-HT	17,1	25,7	34,2	38,5	47,1	51,4	55,7	77,1
AQ-161609AL-HT	EFXE-161609AL-HT	16,1	24,1	32,2	36,2	44,2	48,3	52,3	72,4
AR-162609AL-HT	EFXE-162609AL-HT	21,9	32,8	43,8	49,3	60,2	65,7	71,2	98,6
AR-163609AL-HT	EFXE-163609AL-HT	27,5	41,3	55,1	62,0	75,7	82,6	89,5	124,0
AR-165609AL-HT	EFXE-165609AL-HT	38,4	57,7	76,9	86,6	105,8	115,4	125,0	173,2
AQ-181810AL-HT	EFXE-181810AL-HT	19,7	29,6	39,5	44,4	54,3	59,2	64,2	88,8
AR-182810AL-HT	EFXE-182810AL-HT	26,1	39,1	52,2	58,7	71,8	78,3	84,8	117,5
AR-102311AL-HT	EFXE-102311AL-HT	18,2	27,3	36,5	41,0	50,1	54,7	59,3	82,1
AR-202311AL-HT	EFXE-202311AL-HT	26,1	39,1	52,2	58,7	71,7	78,3	84,8	117,4
AR-202318AL-HT	EFXE-202318AL-HT	35,9	53,9	71,8	80,8	98,8	107,8	116,8	161,7
AR-232811AL-HT	EFXE-232811AL-HT	31,6	47,5	63,3	71,3	87,1	95,0	103,0	142,6
AR-233311AL-HT	EFXE-233311AL-HT	35,3	52,9	70,6	79,4	97,0	105,9	114,7	158,8
AR-233318AL-HT	EFXE-233318AL-HT	47,5	71,3	95,1	107,0	130,8	142,7	154,6	214,1
AR-234011AL-HT	EFXE-234011AL-HT	40,2	60,4	80,5	90,6	110,7	120,8	130,9	181,2
AR-234023AL-HT	EFXE-234023AL-HT	62,2	93,3	124,5	140,0	171,2	186,7	202,3	280,1
AR-236011AL-HT	EFXE-236011AL-HT	54,1	81,2	108,3	121,9	148,9	162,5	176,0	243,8
AR-314011AL-HT	EFXE-314011AL-HT	48,6	72,9	97,2	109,3	133,6	145,8	157,9	218,7
AR-314014AL-HT	EFXE-314014AL-HT	54,9	82,4	109,9	123,7	151,2	164,9	178,7	247,4
AR-314018AL-HT	EFXE-314018AL-HT	63,8	95,7	127,6	143,5	175,4	191,4	207,3	287,1
AR-314023AL-HT	EFXE-314023AL-HT	73,5	110,3	147,1	165,5	202,3	220,7	239,1	331,0
AR-316011AL-HT	EFXE-316011AL-HT	64,0	96,0	128,1	144,1	176,1	192,1	208,1	288,2
AR-316018AL-HT	EFXE-316018AL-HT	82,7	124,1	165,5	186,2	227,6	248,3	268,9	372,4
AQ-606020AL-HT	EFXE-606020AL-HT	129,1	193,7	258,3	290,5	355,1	387,4	419,7	581,1

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Enclosure types (aluminium)		Maximum power dissipation (W) – Tamb. up to **50**°C							
		INTERNAL TEMP.60°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)	INTERNAL TEMP.130°C (T4/T135°C)
AQ-080806AL-HT	EFXE-080806AL-HT	2,6	5,2	7,8	9,1	11,7	13,0	14,3	20,8
AR-081306AL-HT	EFXE-081306AL-HT	3,5	7,0	10,6	12,3	15,9	17,7	19,4	28,3
AR-081806AL-HT	EFXE-081806AL-HT	4,4	8,9	13,3	15,5	20,0	22,2	24,5	35,6
AR-082505AL-HT	EFXE-082505AL-HT	5,4	10,9	16,4	19,2	24,7	27,4	30,1	43,9
AQ-101008AL-HT	EFXE-101008AL-HT	4,3	8,7	13,0	15,2	19,6	21,7	23,9	34,8
AR-101608AL-HT	EFXE-101608AL-HT	5,7	11,5	17,3	20,2	26,0	28,9	31,8	46,2
AR-102008AL-HT	EFXE-102008AL-HT	6,7	13,4	20,1	23,5	30,2	33,5	36,9	53,7
AQ-121208AL-HT	EFXE-121208AL-HT	5,4	10,8	16,2	18,9	24,3	27,0	29,7	43,2
AQ-121209AL-HT	EFXE-121209AL-HT	5,8	11,6	17,5	20,4	26,2	29,2	32,1	46,7
AR-122208AL-HT	EFXE-122208AL-HT	7,8	15,6	23,5	27,4	35,3	39,2	43,1	62,7
AR-122209AL-HT	EFXE-122209AL-HT	8,4	16,8	25,3	29,5	37,9	42,1	46,3	67,4
AR-123608AL-HT	EFXE-123608AL-HT	11,1	22,3	33,5	39,1	50,3	55,9	61,5	89,5
AQ-141409AL-HT	EFXE-141409AL-HT	6,8	13,7	20,6	24,1	31,0	34,4	37,9	55,1
AR-142009AL-HT	EFXE-142009AL-HT	8,5	17,1	25,7	30,0	38,5	42,8	47,1	68,5
AQ-161609AL-HT	EFXE-161609AL-HT	8,0	16,1	24,1	28,1	36,2	40,2	44,2	64,4
AR-162609AL-HT	EFXE-162609AL-HT	10,9	21,9	32,8	38,3	49,3	54,8	60,2	87,6
AR-163609AL-HT	EFXE-163609AL-HT	13,7	27,5	41,3	48,2	62,0	68,9	75,7	110,2
AR-165609AL-HT	EFXE-165609AL-HT	19,2	38,4	57,7	67,3	86,6	96,2	105,8	153,9
AQ-181810AL-HT	EFXE-181810AL-HT	9,8	19,7	29,6	34,5	44,4	49,3	54,3	79,0
AR-182810AL-HT	EFXE-182810AL-HT	13,0	26,1	39,1	45,7	58,7	65,2	71,8	104,4
AR-102311AL-HT	EFXE-102311AL-HT	9,1	18,2	27,3	31,9	41,0	45,6	50,1	73,0
AR-202311AL-HT	EFXE-202311AL-HT	13,0	26,1	39,1	45,6	58,7	65,2	71,7	104,4
AR-202318AL-HT	EFXE-202318AL-HT	17,9	35,9	53,9	62,8	80,8	89,8	98,8	143,7
AR-232811AL-HT	EFXE-232811AL-HT	15,8	31,6	47,5	55,4	71,3	79,2	87,1	126,7
AR-233311AL-HT	EFXE-233311AL-HT	17,6	35,3	52,9	61,7	79,4	88,2	97,0	141,2
AR-233318AL-HT	EFXE-233318AL-HT	23,7	47,5	71,3	83,2	107,0	118,9	130,8	190,3
AR-234011AL-HT	EFXE-234011AL-HT	20,1	40,2	60,4	70,5	90,6	100,7	110,7	161,1
AR-234023AL-HT	EFXE-234023AL-HT	31,1	62,2	93,3	108,9	140,0	155,6	171,2	249,0
AR-236011AL-HT	EFXE-236011AL-HT	27,0	54,1	81,2	94,8	121,9	135,4	148,9	216,7
AR-314011AL-HT	EFXE-314011AL-HT	24,3	48,6	72,9	85,0	109,3	121,5	133,6	194,4
AR-314014AL-HT	EFXE-314014AL-HT	27,4	54,9	82,4	96,2	123,7	137,4	151,2	219,9
AR-314018AL-HT	EFXE-314018AL-HT	31,9	63,8	95,7	111,6	143,5	159,5	175,4	255,2
AR-314023AL-HT	EFXE-314023AL-HT	36,7	73,5	110,3	128,7	165,5	183,9	202,3	294,2
AR-316011AL-HT	EFXE-316011AL-HT	32,0	64,0	96,0	112,0	144,1	160,1	176,1	256,2
AR-316018AL-HT	EFXE-316018AL-HT	41,3	82,7	124,1	144,8	186,2	206,9	227,6	331,0
AQ-606020AL-HT	EFXE-606020AL-HT	64,5	129,1	193,7	226,0	290,5	322,8	355,1	516,6

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Enclosure types (aluminium)		Maximum power dissipation (W) – Tamb. up to **55**°C							
		INTERNAL TEMP.65°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)	INTERNAL TEMP.130°C (T4/T135°C)
AQ-080806AL-HT	EFXE-080806AL-HT	2,6	3,9	6,5	7,8	10,4	11,7	13,0	19,5
AR-081306AL-HT	EFXE-081306AL-HT	3,5	5,3	8,8	10,6	14,1	15,9	17,7	26,5
AR-081806AL-HT	EFXE-081806AL-HT	4,4	6,6	11,1	13,3	17,8	20,0	22,2	33,4
AR-082505AL-HT	EFXE-082505AL-HT	5,4	8,2	13,7	16,4	21,9	24,7	27,4	41,1
AQ-101008AL-HT	EFXE-101008AL-HT	4,3	6,5	10,8	13,0	17,4	19,6	21,7	32,6
AR-101608AL-HT	EFXE-101608AL-HT	5,7	8,6	14,4	17,3	23,1	26,0	28,9	43,3
AR-102008AL-HT	EFXE-102008AL-HT	6,7	10,0	16,7	20,1	26,8	30,2	33,5	50,3
AQ-121208AL-HT	EFXE-121208AL-HT	5,4	8,1	13,5	16,2	21,6	24,3	27,0	40,5
AQ-121209AL-HT	EFXE-121209AL-HT	5,8	8,7	14,6	17,5	23,3	26,2	29,2	43,8
AR-122208AL-HT	EFXE-122208AL-HT	7,8	11,7	19,6	23,5	31,3	35,3	39,2	58,8
AR-122209AL-HT	EFXE-122209AL-HT	8,4	12,6	21,0	25,3	33,7	37,9	42,1	63,2
AR-123608AL-HT	EFXE-123608AL-HT	11,1	16,7	27,9	33,5	44,7	50,3	55,9	83,9
AQ-141409AL-HT	EFXE-141409AL-HT	6,8	10,3	17,2	20,6	27,5	31,0	34,4	51,7
AR-142009AL-HT	EFXE-142009AL-HT	8,5	12,8	21,4	25,7	34,2	38,5	42,8	64,3
AQ-161609AL-HT	EFXE-161609AL-HT	8,0	12,0	20,1	24,1	32,2	36,2	40,2	60,4
AR-162609AL-HT	EFXE-162609AL-HT	10,9	16,4	27,4	32,8	43,8	49,3	54,8	82,2
AR-163609AL-HT	EFXE-163609AL-HT	13,7	20,6	34,4	41,3	55,1	62,0	68,9	103,3
AR-165609AL-HT	EFXE-165609AL-HT	19,2	28,8	48,1	57,7	76,9	86,6	96,2	144,3
AQ-181810AL-HT	EFXE-181810AL-HT	9,8	14,8	24,6	29,6	39,5	44,4	49,3	74,0
AR-182810AL-HT	EFXE-182810AL-HT	13,0	19,5	32,6	39,1	52,2	58,7	65,2	97,9
AR-102311AL-HT	EFXE-102311AL-HT	9,1	13,6	22,8	27,3	36,5	41,0	45,6	68,4
AR-202311AL-HT	EFXE-202311AL-HT	13,0	19,5	32,6	39,1	52,2	58,7	65,2	97,9
AR-202318AL-HT	EFXE-202318AL-HT	17,9	26,9	44,9	53,9	71,8	80,8	89,8	134,7
AR-232811AL-HT	EFXE-232811AL-HT	15,8	23,7	39,6	47,5	63,3	71,3	79,2	118,8
AR-233311AL-HT	EFXE-233311AL-HT	17,6	26,4	44,1	52,9	70,6	79,4	88,2	132,3
AR-233318AL-HT	EFXE-233318AL-HT	23,7	35,6	59,4	71,3	95,1	107,0	118,9	178,4
AR-234011AL-HT	EFXE-234011AL-HT	20,1	30,2	50,3	60,4	80,5	90,6	100,7	151,0
AR-234023AL-HT	EFXE-234023AL-HT	31,1	46,6	77,8	93,3	124,5	140,0	155,6	233,4
AR-236011AL-HT	EFXE-236011AL-HT	27,0	40,6	67,7	81,2	108,3	121,9	135,4	203,1
AR-314011AL-HT	EFXE-314011AL-HT	24,3	36,4	60,7	72,9	97,2	109,3	121,5	182,3
AR-314014AL-HT	EFXE-314014AL-HT	27,4	41,2	68,7	82,4	109,9	123,7	137,4	206,2
AR-314018AL-HT	EFXE-314018AL-HT	31,9	47,8	79,7	95,7	127,6	143,5	159,5	239,2
AR-314023AL-HT	EFXE-314023AL-HT	36,7	55,1	91,9	110,3	147,1	165,5	183,9	275,8
AR-316011AL-HT	EFXE-316011AL-HT	32,0	48,0	80,0	96,0	128,1	144,1	160,1	240,1
AR-316018AL-HT	EFXE-316018AL-HT	41,3	62,0	103,4	124,1	165,5	186,2	206,9	310,3
AQ-606020AL-HT	EFXE-606020AL-HT	64,5	96,8	161,4	193,7	258,3	290,5	322,8	484,3

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Enclosure types (aluminium)		Maximum power dissipation (W) – Tamb. up to **60**°C						
		INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)	INTERNAL TEMP.130°C (T4/T135°C)
AQ-080806AL-HT	EFXE-080806AL-HT	2,6	5,2	6,5	9,1	10,4	11,7	18,2
AR-081306AL-HT	EFXE-081306AL-HT	3,5	7,0	8,8	12,3	14,1	15,9	24,7
AR-081806AL-HT	EFXE-081806AL-HT	4,4	8,9	11,1	15,5	17,8	20,0	31,1
AR-082505AL-HT	EFXE-082505AL-HT	5,4	10,9	13,7	19,2	21,9	24,7	38,4
AQ-101008AL-HT	EFXE-101008AL-HT	4,3	8,7	10,8	15,2	17,4	19,6	30,4
AR-101608AL-HT	EFXE-101608AL-HT	5,7	11,5	14,4	20,2	23,1	26,0	40,5
AR-102008AL-HT	EFXE-102008AL-HT	6,7	13,4	16,7	23,5	26,8	30,2	47,0
AQ-121208AL-HT	EFXE-121208AL-HT	5,4	10,8	13,5	18,9	21,6	24,3	37,8
AQ-121209AL-HT	EFXE-121209AL-HT	5,8	11,6	14,6	20,4	23,3	26,2	40,8
AR-122208AL-HT	EFXE-122208AL-HT	7,8	15,6	19,6	27,4	31,3	35,3	54,9
AR-122209AL-HT	EFXE-122209AL-HT	8,4	16,8	21,0	29,5	33,7	37,9	59,0
AR-123608AL-HT	EFXE-123608AL-HT	11,1	22,3	27,9	39,1	44,7	50,3	78,3
AQ-141409AL-HT	EFXE-141409AL-HT	6,8	13,7	17,2	24,1	27,5	31,0	48,2
AR-142009AL-HT	EFXE-142009AL-HT	8,5	17,1	21,4	30,0	34,2	38,5	60,0
AQ-161609AL-HT	EFXE-161609AL-HT	8,0	16,1	20,1	28,1	32,2	36,2	56,3
AR-162609AL-HT	EFXE-162609AL-HT	10,9	21,9	27,4	38,3	43,8	49,3	76,7
AR-163609AL-HT	EFXE-163609AL-HT	13,7	27,5	34,4	48,2	55,1	62,0	96,4
AR-165609AL-HT	EFXE-165609AL-HT	19,2	38,4	48,1	67,3	76,9	86,6	134,7
AQ-181810AL-HT	EFXE-181810AL-HT	9,8	19,7	24,6	34,5	39,5	44,4	69,1
AR-182810AL-HT	EFXE-182810AL-HT	13,0	26,1	32,6	45,7	52,2	58,7	91,4
AR-102311AL-HT	EFXE-102311AL-HT	9,1	18,2	22,8	31,9	36,5	41,0	63,8
AR-202311AL-HT	EFXE-202311AL-HT	13,0	26,1	32,6	45,6	52,2	58,7	91,3
AR-202318AL-HT	EFXE-202318AL-HT	17,9	35,9	44,9	62,8	71,8	80,8	125,7
AR-232811AL-HT	EFXE-232811AL-HT	15,8	31,6	39,6	55,4	63,3	71,3	110,9
AR-233311AL-HT	EFXE-233311AL-HT	17,6	35,3	44,1	61,7	70,6	79,4	123,5
AR-233318AL-HT	EFXE-233318AL-HT	23,7	47,5	59,4	83,2	95,1	107,0	166,5
AR-234011AL-HT	EFXE-234011AL-HT	20,1	40,2	50,3	70,5	80,5	90,6	141,0
AR-234023AL-HT	EFXE-234023AL-HT	31,1	62,2	77,8	108,9	124,5	140,0	217,9
AR-236011AL-HT	EFXE-236011AL-HT	27,0	54,1	67,7	94,8	108,3	121,9	189,6
AR-314011AL-HT	EFXE-314011AL-HT	24,3	48,6	60,7	85,0	97,2	109,3	170,1
AR-314014AL-HT	EFXE-314014AL-HT	27,4	54,9	68,7	96,2	109,9	123,7	192,4
AR-314018AL-HT	EFXE-314018AL-HT	31,9	63,8	79,7	111,6	127,6	143,5	223,3
AR-314023AL-HT	EFXE-314023AL-HT	36,7	73,5	91,9	128,7	147,1	165,5	257,4
AR-316011AL-HT	EFXE-316011AL-HT	32,0	64,0	80,0	112,0	128,1	144,1	224,1
AR-316018AL-HT	EFXE-316018AL-HT	41,3	82,7	103,4	144,8	165,5	186,2	289,6
AQ-606020AL-HT	EFXE-606020AL-HT	64,5	129,1	161,4	226,0	258,3	290,5	452,0

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Enclosure types (aluminium)		Maximum power dissipation (W) Tamb. up to **95**°C		
		INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)	INTERNAL TEMP.130°C (T4/T135°C)
AQ-080806AL-HT	EFXE-080806AL-HT	1,3	2,6	9,1
AR-081306AL-HT	EFXE-081306AL-HT	1,7	3,5	12,3
AR-081806AL-HT	EFXE-081806AL-HT	2,2	4,4	15,5
AR-082505AL-HT	EFXE-082505AL-HT	2,7	5,4	19,2
AQ-101008AL-HT	EFXE-101008AL-HT	2,1	4,3	15,2
AR-101608AL-HT	EFXE-101608AL-HT	2,8	5,7	20,2
AR-102008AL-HT	EFXE-102008AL-HT	3,3	6,7	23,5
AQ-121208AL-HT	EFXE-121208AL-HT	2,7	5,4	18,9
AQ-121209AL-HT	EFXE-121209AL-HT	2,9	5,8	20,4
AR-122208AL-HT	EFXE-122208AL-HT	3,9	7,8	27,4
AR-122209AL-HT	EFXE-122209AL-HT	4,2	8,4	29,5
AR-123608AL-HT	EFXE-123608AL-HT	5,5	11,1	39,1
AQ-141409AL-HT	EFXE-141409AL-HT	3,4	6,8	24,1
AR-142009AL-HT	EFXE-142009AL-HT	4,2	8,5	30,0
AQ-161609AL-HT	EFXE-161609AL-HT	4,0	8,0	28,1
AR-162609AL-HT	EFXE-162609AL-HT	5,4	10,9	38,3
AR-163609AL-HT	EFXE-163609AL-HT	6,8	13,7	48,2
AR-165609AL-HT	EFXE-165609AL-HT	9,6	19,2	67,3
AQ-181810AL-HT	EFXE-181810AL-HT	4,9	9,8	34,5
AR-182810AL-HT	EFXE-182810AL-HT	6,5	13,0	45,7
AR-102311AL-HT	EFXE-102311AL-HT	4,5	9,1	31,9
AR-202311AL-HT	EFXE-202311AL-HT	6,5	13,0	45,6
AR-202318AL-HT	EFXE-202318AL-HT	8,9	17,9	62,8
AR-232811AL-HT	EFXE-232811AL-HT	7,9	15,8	55,4
AR-233311AL-HT	EFXE-233311AL-HT	8,8	17,6	61,7
AR-233318AL-HT	EFXE-233318AL-HT	11,8	23,7	83,2
AR-234011AL-HT	EFXE-234011AL-HT	10,0	20,1	70,5
AR-234023AL-HT	EFXE-234023AL-HT	15,5	31,1	108,9
AR-236011AL-HT	EFXE-236011AL-HT	13,5	27,0	94,8
AR-314011AL-HT	EFXE-314011AL-HT	12,1	24,3	85,0
AR-314014AL-HT	EFXE-314014AL-HT	13,7	27,4	96,2
AR-314018AL-HT	EFXE-314018AL-HT	15,9	31,9	111,6
AR-314023AL-HT	EFXE-314023AL-HT	18,3	36,7	128,7
AR-316011AL-HT	EFXE-316011AL-HT	16,0	32,0	112,0
AR-316018AL-HT	EFXE-316018AL-HT	20,6	41,3	144,8
AQ-606020AL-HT	EFXE-606020AL-HT	32,2	64,5	226,0

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Power dissipation – Glass fiber reinforced polyester resin enclosures

Enclosure types (polyester)		Maximum power dissipation (W) – Tamb. up to **40**°C						
		INTERNAL TEMP.60°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
AQ-080806P	EFE-080806	3,4	5,2	6,9	7,8	9,5	10,4	11,3
AQ-080808P	EFE-080808	4,5	6,8	9,1	10,2	12,5	13,6	14,7
AR-081106P	EFE-081106	4,2	6,4	8,5	9,6	11,7	12,8	13,8
AR-081606P	EFE-081606	5,7	8,6	11,5	13,0	15,9	17,3	18,8
AR-081906P	EFE-081906	6,4	9,6	12,8	14,4	17,6	19,2	20,8
AQ-121209P	EFE-121209	7,9	11,9	15,9	17,9	21,9	23,9	25,9
AR-122209P	EFE-122209	10,8	16,2	21,6	24,3	29,7	32,4	35,1
AQ-161609P	EFE-161609	10,3	15,5	20,7	23,3	28,5	31,1	33,7
AR-162609P	EFE-162609	13,4	20,1	26,8	30,1	36,8	40,2	43,5
AR-163609P	EFE-163609	16,2	24,3	32,4	36,4	44,5	48,6	52,6
AQ-252612P	EFE-252612	18,8	28,2	37,6	42,3	51,7	56,4	61,1
AQ-252616P	EFE-252616	21,7	32,6	43,5	49,0	59,9	65,3	70,8
AR-254012P	EFE-254012	23,9	35,9	47,9	53,9	65,9	71,8	77,8
AR-254016P	EFE-254016	27,4	41,2	54,9	61,8	75,6	82,4	89,3
AR-256012P	EFE-256012	29,0	43,5	58,0	65,3	79,8	87,1	94,3
AQ-414012P	EFE-414012	29,1	43,6	58,2	65,5	80,0	87,3	94,6
AQ-414016P	EFE-414016	32,9	49,4	65,9	74,1	90,6	98,8	107,0

Enclosure types (polyester)		Maximum power dissipation (W) – Tamb. up to **50**°C						
		INTERNAL TEMP.60°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
AQ-080806P	EFE-080806	1,7	3,4	5,2	6,0	7,8	8,7	9,5
AQ-080808P	EFE-080808	2,2	4,5	6,8	7,9	10,2	11,3	12,5
AR-081106P	EFE-081106	2,1	4,2	6,4	7,4	9,6	10,6	11,7
AR-081606P	EFE-081606	2,8	5,7	8,6	10,1	13,0	14,4	15,9
AR-081906P	EFE-081906	3,2	6,4	9,6	11,2	14,4	16,0	17,6
AQ-121209P	EFE-121209	3,9	7,9	11,9	13,9	17,9	19,9	21,9
AR-122209P	EFE-122209	5,4	10,8	16,2	18,9	24,3	27,0	29,7
AQ-161609P	EFE-161609	5,1	10,3	15,5	18,1	23,3	25,9	28,5
AR-162609P	EFE-162609	6,7	13,4	20,1	23,4	30,1	33,5	36,8
AR-163609P	EFE-163609	8,1	16,2	24,3	28,3	36,4	40,5	44,5
AQ-252612P	EFE-252612	9,4	18,8	28,2	32,9	42,3	47,0	51,7
AQ-252616P	EFE-252616	10,8	21,7	32,6	38,1	49,0	54,4	59,9
AR-254012P	EFE-254012	11,9	23,9	35,9	41,9	53,9	59,9	65,9
AR-254016P	EFE-254016	13,7	27,4	41,2	48,1	61,8	68,7	75,6
AR-256012P	EFE-256012	14,5	29,0	43,5	50,8	65,3	72,6	79,8
AQ-414012P	EFE-414012	14,5	29,1	43,6	50,9	65,5	72,7	80,0
AQ-414016P	EFE-414016	16,4	32,9	49,4	57,6	74,1	82,3	90,6

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Enclosure types (polyester)		Maximum power dissipation (W) – Tamb. up to **55**°C						
		INTERNAL TEMP.65°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
AQ-080806P	EFE-080806	1,7	2,6	4,3	5,2	6,9	7,8	8,7
AQ-080808P	EFE-080808	2,2	3,4	5,6	6,8	9,1	10,2	11,3
AR-081106P	EFE-081106	2,1	3,2	5,3	6,4	8,5	9,6	10,6
AR-081606P	EFE-081606	2,8	4,3	7,2	8,6	11,5	13,0	14,4
AR-081906P	EFE-081906	3,2	4,8	8,0	9,6	12,8	14,4	16,0
AQ-121209P	EFE-121209	3,9	5,9	9,9	11,9	15,9	17,9	19,9
AR-122209P	EFE-122209	5,4	8,1	13,5	16,2	21,6	24,3	27,0
AQ-161609P	EFE-161609	5,1	7,7	12,9	15,5	20,7	23,3	25,9
AR-162609P	EFE-162609	6,7	10,0	16,7	20,1	26,8	30,1	33,5
AR-163609P	EFE-163609	8,1	12,1	20,2	24,3	32,4	36,4	40,5
AQ-252612P	EFE-252612	9,4	14,1	23,5	28,2	37,6	42,3	47,0
AQ-252616P	EFE-252616	10,8	16,3	27,2	32,6	43,5	49,0	54,4
AR-254012P	EFE-254012	11,9	17,9	29,9	35,9	47,9	53,9	59,9
AR-254016P	EFE-254016	13,7	20,6	34,3	41,2	54,9	61,8	68,7
AR-256012P	EFE-256012	14,5	21,7	36,3	43,5	58,0	65,3	72,6
AQ-414012P	EFE-414012	14,5	21,8	36,3	43,6	58,2	65,5	72,7
AQ-414016P	EFE-414016	16,4	24,7	41,1	49,4	65,9	74,1	82,3

Enclosure types (polyester)		Maximum power dissipation (W) – Tamb. up to **60**°C					
		INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
AQ-080806P	EFE-080806	1,7	3,4	4,3	6,0	6,9	7,8
AQ-080808P	EFE-080808	2,2	4,5	5,6	7,9	9,1	10,2
AR-081106P	EFE-081106	2,1	4,2	5,3	7,4	8,5	9,6
AR-081606P	EFE-081606	2,8	5,7	7,2	10,1	11,5	13,0
AR-081906P	EFE-081906	3,2	6,4	8,0	11,2	12,8	14,4
AQ-121209P	EFE-121209	3,9	7,9	9,9	13,9	15,9	17,9
AR-122209P	EFE-122209	5,4	10,8	13,5	18,9	21,6	24,3
AQ-161609P	EFE-161609	5,1	10,3	12,9	18,1	20,7	23,3
AR-162609P	EFE-162609	6,7	13,4	16,7	23,4	26,8	30,1
AR-163609P	EFE-163609	8,1	16,2	20,2	28,3	32,4	36,4
AQ-252612P	EFE-252612	9,4	18,8	23,5	32,9	37,6	42,3
AQ-252616P	EFE-252616	10,8	21,7	27,2	38,1	43,5	49,0
AR-254012P	EFE-254012	11,9	23,9	29,9	41,9	47,9	53,9
AR-254016P	EFE-254016	13,7	27,4	34,3	48,1	54,9	61,8
AR-256012P	EFE-256012	14,5	29,0	36,3	50,8	58,0	65,3
AQ-414012P	EFE-414012	14,5	29,1	36,3	50,9	58,2	65,5
AQ-414016P	EFE-414016	16,4	32,9	41,1	57,6	65,9	74,1

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Enclosure types (polyester)		Maximum power dissipation (W) – Tamb. up to **95**°C	
		INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
AQ-080806P	EFE-080806	0,8	1,7
AQ-080808P	EFE-080808	1,1	2,2
AR-081106P	EFE-081106	1,0	2,1
AR-081606P	EFE-081606	1,4	2,8
AR-081906P	EFE-081906	1,6	3,2
AQ-121209P	EFE-121209	1,9	3,9
AR-122209P	EFE-122209	2,7	5,4
AQ-161609P	EFE-161609	2,5	5,1
AR-162609P	EFE-162609	3,3	6,7
AR-163609P	EFE-163609	4,0	8,1
AQ-252612P	EFE-252612	4,7	9,4
AQ-252616P	EFE-252616	5,4	10,8
AR-254012P	EFE-254012	5,9	11,9
AR-254016P	EFE-254016	6,8	13,7
AR-256012P	EFE-256012	7,2	14,5
AQ-414012P	EFE-414012	7,2	14,5
AQ-414016P	EFE-414016	8,2	16,4

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Power dissipation – Aluminum alloy enclosures

Enclosure types (aluminium)		Maximum power dissipation (W) – Tamb. up to **40**°C						
		INTERNAL TEMP.60°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
AQ-080806AL	EFXE-080806AL	5,2	7,8	10,4	11,7	14,3	15,6	16,9
AR-081306AL	EFXE-081306AL	7,0	10,6	14,1	15,9	19,4	21,2	23,0
AR-081806AL	EFXE-081806AL	8,9	13,3	17,8	20,0	24,5	26,7	28,9
AR-081808AL	EFXE-081808AL	11,0	16,5	22,1	24,8	30,4	33,1	35,9
AR-082505AL	EFXE-082505AL	10,7	16,1	21,4	24,1	29,5	32,2	34,8
AR-082508AL	EFXE-082508AL	14,2	21,4	28,5	32,1	39,2	42,8	46,4
AQ-101008AL	EFXE-101008AL	8,7	13,0	17,4	19,6	23,9	26,1	28,3
AR-101508AL	EFXE-101508AL	11,1	16,6	22,2	24,9	30,5	33,3	36,0
AR-101608AL	EFXE-101608AL	11,5	17,3	23,1	26,0	31,8	34,7	37,6
AR-102008AL	EFXE-102008AL	13,4	20,1	26,8	30,2	36,9	40,3	43,6
AQ-121208AL	EFXE-121208AL	10,8	16,2	21,6	24,3	29,7	32,4	35,1
AR-122209AL	EFXE-122209AL	16,8	25,3	33,7	37,9	46,3	50,6	54,8
AQ-141409AL	EFXE-141409AL	13,7	20,6	27,5	31,0	37,9	41,3	44,8
AR-142009AL	EFXE-142009AL	17,1	25,7	34,2	38,5	47,1	51,4	55,7
AQ-161609AL	EFXE-161609AL	17,2	25,8	34,4	38,7	47,3	51,6	55,9
AR-162410AL	EFXE-162410AL	22,1	33,1	44,2	49,7	60,8	66,3	71,8
AR-162609AL	EFXE-162609AL	21,9	32,8	43,8	49,3	60,2	65,7	71,2
AQ-181810AL	EFXE-181810AL	19,7	29,6	39,5	44,4	54,3	59,2	64,2
AR-182810AL	EFXE-182810AL	26,1	39,1	52,2	58,7	71,8	78,3	84,8
AR-202311AL	EFXE-202311AL	25,8	38,7	51,6	58,0	71,0	77,4	83,9
AR-202318AL	EFXE-202318AL	35,5	53,3	71,1	80,0	97,8	106,7	115,6
AR-232811AL	EFXE-232811AL	31,6	47,5	63,3	71,3	87,1	95,0	103,0
AR-233312AL	EFXE-233312AL	37,0	55,6	74,1	83,4	101,9	111,2	120,5
AR-233318AL	EFXE-233318AL	47,5	71,3	95,1	107,0	130,8	142,7	154,6

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Enclosure types (aluminium)		Maximum power dissipation (W) – Tamb. up to **50**°C						
		INTERNAL TEMP.60°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
AQ-080806AL	EFXE-080806AL	2,6	5,2	7,8	9,1	11,7	13,0	14,3
AR-081306AL	EFXE-081306AL	3,5	7,0	10,6	12,3	15,9	17,7	19,4
AR-081806AL	EFXE-081806AL	4,4	8,9	13,3	15,5	20,0	22,2	24,5
AR-081808AL	EFXE-081808AL	5,5	11,0	16,5	19,3	24,8	27,6	30,4
AR-082505AL	EFXE-082505AL	5,3	10,7	16,1	18,7	24,1	26,8	29,5
AR-082508AL	EFXE-082508AL	7,1	14,2	21,4	24,9	32,1	35,7	39,2
AQ-101008AL	EFXE-101008AL	4,3	8,7	13,0	15,2	19,6	21,7	23,9
AR-101508AL	EFXE-101508AL	5,5	11,1	16,6	19,4	24,9	27,7	30,5
AR-101608AL	EFXE-101608AL	5,7	11,5	17,3	20,2	26,0	28,9	31,8
AR-102008AL	EFXE-102008AL	6,7	13,4	20,1	23,5	30,2	33,5	36,9
AQ-121208AL	EFXE-121208AL	5,4	10,8	16,2	18,9	24,3	27,0	29,7
AR-122209AL	EFXE-122209AL	8,4	16,8	25,3	29,5	37,9	42,1	46,3
AQ-141409AL	EFXE-141409AL	6,8	13,7	20,6	24,1	31,0	34,4	37,9
AR-142009AL	EFXE-142009AL	8,5	17,1	25,7	30,0	38,5	42,8	47,1
AQ-161609AL	EFXE-161609AL	8,6	17,2	25,8	30,1	38,7	43,0	47,3
AR-162410AL	EFXE-162410AL	11,0	22,1	33,1	38,7	49,7	55,3	60,8
AR-162609AL	EFXE-162609AL	10,9	21,9	32,8	38,3	49,3	54,8	60,2
AQ-181810AL	EFXE-181810AL	9,8	19,7	29,6	34,5	44,4	49,3	54,3
AR-182810AL	EFXE-182810AL	13,0	26,1	39,1	45,7	58,7	65,2	71,8
AR-202311AL	EFXE-202311AL	12,9	25,8	38,7	45,1	58,0	64,5	71,0
AR-202318AL	EFXE-202318AL	17,7	35,5	53,3	62,2	80,0	88,9	97,8
AR-232811AL	EFXE-232811AL	15,8	31,6	47,5	55,4	71,3	79,2	87,1
AR-233312AL	EFXE-233312AL	18,5	37,0	55,6	64,8	83,4	92,7	101,9
AR-233318AL	EFXE-233318AL	23,7	47,5	71,3	83,2	107,0	118,9	130,8

Enclosure types (aluminium)		Maximum power dissipation (W) – Tamb. up to **55**°C						
		INTERNAL TEMP.65°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
AQ-080806AL	EFXE-080806AL	2,6	3,9	6,5	7,8	10,4	11,7	13,0
AR-081306AL	EFXE-081306AL	3,5	5,3	8,8	10,6	14,1	15,9	17,7
AR-081806AL	EFXE-081806AL	4,4	6,6	11,1	13,3	17,8	20,0	22,2
AR-081808AL	EFXE-081808AL	5,5	8,2	13,8	16,5	22,1	24,8	27,6
AR-082505AL	EFXE-082505AL	5,3	8,0	13,4	16,1	21,4	24,1	26,8
AR-082508AL	EFXE-082508AL	7,1	10,7	17,8	21,4	28,5	32,1	35,7
AQ-101008AL	EFXE-101008AL	4,3	6,5	10,8	13,0	17,4	19,6	21,7
AR-101508AL	EFXE-101508AL	5,5	8,3	13,8	16,6	22,2	24,9	27,7
AR-101608AL	EFXE-101608AL	5,7	8,6	14,4	17,3	23,1	26,0	28,9
AR-102008AL	EFXE-102008AL	6,7	10,0	16,7	20,1	26,8	30,2	33,5
AQ-121208AL	EFXE-121208AL	5,4	8,1	13,5	16,2	21,6	24,3	27,0
AR-122209AL	EFXE-122209AL	8,4	12,6	21,0	25,3	33,7	37,9	42,1
AQ-141409AL	EFXE-141409AL	6,8	10,3	17,2	20,6	27,5	31,0	34,4
AR-142009AL	EFXE-142009AL	8,5	12,8	21,4	25,7	34,2	38,5	42,8
AQ-161609AL	EFXE-161609AL	8,6	12,9	21,5	25,8	34,4	38,7	43,0
AR-162410AL	EFXE-162410AL	11,0	16,5	27,6	33,1	44,2	49,7	55,3
AR-162609AL	EFXE-162609AL	10,9	16,4	27,4	32,8	43,8	49,3	54,8
AQ-181810AL	EFXE-181810AL	9,8	14,8	24,6	29,6	39,5	44,4	49,3
AR-182810AL	EFXE-182810AL	13,0	19,5	32,6	39,1	52,2	58,7	65,2
AR-202311AL	EFXE-202311AL	12,9	19,3	32,2	38,7	51,6	58,0	64,5
AR-202318AL	EFXE-202318AL	17,7	26,6	44,4	53,3	71,1	80,0	88,9
AR-232811AL	EFXE-232811AL	15,8	23,7	39,6	47,5	63,3	71,3	79,2
AR-233312AL	EFXE-233312AL	18,5	27,8	46,3	55,6	74,1	83,4	92,7
AR-233318AL	EFXE-233318AL	23,7	35,6	59,4	71,3	95,1	107,0	118,9

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Enclosure types (aluminium)		Maximum power dissipation (W) – Tamb. up to **60**°C					
		INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
AQ-080806AL	EFXE-080806AL	2,6	5,2	6,5	9,1	10,4	11,7
AR-081306AL	EFXE-081306AL	3,5	7,0	8,8	12,3	14,1	15,9
AR-081806AL	EFXE-081806AL	4,4	8,9	11,1	15,5	17,8	20,0
AR-081808AL	EFXE-081808AL	5,5	11,0	13,8	19,3	22,1	24,8
AR-082505AL	EFXE-082505AL	5,3	10,7	13,4	18,7	21,4	24,1
AR-082508AL	EFXE-082508AL	7,1	14,2	17,8	24,9	28,5	32,1
AQ-101008AL	EFXE-101008AL	4,3	8,7	10,8	15,2	17,4	19,6
AR-101508AL	EFXE-101508AL	5,5	11,1	13,8	19,4	22,2	24,9
AR-101608AL	EFXE-101608AL	5,7	11,5	14,4	20,2	23,1	26,0
AR-102008AL	EFXE-102008AL	6,7	13,4	16,7	23,5	26,8	30,2
AQ-121208AL	EFXE-121208AL	5,4	10,8	13,5	18,9	21,6	24,3
AR-122209AL	EFXE-122209AL	8,4	16,8	21,0	29,5	33,7	37,9
AQ-141409AL	EFXE-141409AL	6,8	13,7	17,2	24,1	27,5	31,0
AR-142009AL	EFXE-142009AL	8,5	17,1	21,4	30,0	34,2	38,5
AQ-161609AL	EFXE-161609AL	8,6	17,2	21,5	30,1	34,4	38,7
AR-162410AL	EFXE-162410AL	11,0	22,1	27,6	38,7	44,2	49,7
AR-162609AL	EFXE-162609AL	10,9	21,9	27,4	38,3	43,8	49,3
AQ-181810AL	EFXE-181810AL	9,8	19,7	24,6	34,5	39,5	44,4
AR-182810AL	EFXE-182810AL	13,0	26,1	32,6	45,7	52,2	58,7
AR-202311AL	EFXE-202311AL	12,9	25,8	32,2	45,1	51,6	58,0
AR-202318AL	EFXE-202318AL	17,7	35,5	44,4	62,2	71,1	80,0
AR-232811AL	EFXE-232811AL	15,8	31,6	39,6	55,4	63,3	71,3
AR-233312AL	EFXE-233312AL	18,5	37,0	46,3	64,8	74,1	83,4
AR-233318AL	EFXE-233318AL	23,7	47,5	59,4	83,2	95,1	107,0

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Enclosure types (aluminium)		Maximum power dissipation (W) – Tamb. up to **95**°C	
		INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
AQ-080806AL	EFXE-080806AL	1,3	2,6
AR-081306AL	EFXE-081306AL	1,7	3,5
AR-081806AL	EFXE-081806AL	2,2	4,4
AR-081808AL	EFXE-081808AL	2,7	5,5
AR-082505AL	EFXE-082505AL	2,6	5,3
AR-082508AL	EFXE-082508AL	3,5	7,1
AQ-101008AL	EFXE-101008AL	2,1	4,3
AR-101508AL	EFXE-101508AL	2,7	5,5
AR-101608AL	EFXE-101608AL	2,8	5,7
AR-102008AL	EFXE-102008AL	3,3	6,7
AQ-121208AL	EFXE-121208AL	2,7	5,4
AR-122209AL	EFXE-122209AL	4,2	8,4
AQ-141409AL	EFXE-141409AL	3,4	6,8
AR-142009AL	EFXE-142009AL	4,2	8,5
AQ-161609AL	EFXE-161609AL	4,3	8,6
AR-162410AL	EFXE-162410AL	5,5	11,0
AR-162609AL	EFXE-162609AL	5,4	10,9
AQ-181810AL	EFXE-181810AL	4,9	9,8
AR-182810AL	EFXE-182810AL	6,5	13,0
AR-202311AL	EFXE-202311AL	6,4	12,9
AR-202318AL	EFXE-202318AL	8,8	17,7
AR-232811AL	EFXE-232811AL	7,9	15,8
AR-233312AL	EFXE-233312AL	9,2	18,5
AR-233318AL	EFXE-233318AL	11,8	23,7

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Power dissipation – Stainless steel enclosures SB series

Enclosure types (stainless steel)		Maximum power dissipation (W) – Tamb. up to **40**°C						
		INTERNAL TEMP.60°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
SB-101210	EFXE-101210SB	5,5	8,3	11,1	12,5	15,3	16,7	18,1
SB-151510	EFXE-151510SB	8,0	12,0	16,0	18,0	22,0	24,0	26,1
SB-142013	EFXE-142013SB	10,4	15,7	20,9	23,5	28,8	31,4	34,0
SB-202010	EFXE-202010SB	10,7	16,1	21,4	24,1	29,5	32,2	34,8
SB-202016	EFXE-202016SB	13,9	20,8	27,8	31,3	38,3	41,7	45,2
SB-202713	EFXE-202713SB	14,4	21,6	28,9	32,5	39,7	43,3	46,9
SB-272713	EFXE-272713SB	16,7	25,1	33,5	37,7	46,0	50,2	54,4
SB-203016	EFXE-203016SB	17,1	25,7	34,3	38,6	47,2	51,4	55,7
SB-273513	EFXE-273513SB	19,2	28,9	38,5	43,3	53,0	57,8	62,6
SB-282816	EFXE-282816SB	19,3	29,0	38,7	43,6	53,3	58,1	63,0
SB-204016	EFXE-204016SB	20,2	30,3	40,4	45,5	55,6	60,6	65,7
SB-353516	EFXE-353516SB	24,4	36,6	48,8	54,9	67,1	73,2	79,3
SB-282827	EFXE-282827SB	26,2	39,3	52,5	59,0	72,2	78,7	85,3
SB-355016	EFXE-355016SB	29,7	44,5	59,4	66,8	81,7	89,1	96,6
SB-383816	EFXE-383816SB	26,6	39,9	53,2	59,8	73,1	79,8	86,5
SB-384516	EFXE-384516SB	29,1	43,7	58,3	65,6	80,2	87,5	94,8
SB-385716	EFXE-385716SB	33,4	50,1	66,8	75,2	91,9	100,3	108,7
SB-505016	EFXE-505016SB	35,8	53,8	71,7	80,7	98,6	107,6	116,6
SB-383827	EFXE-383827SB	35,1	52,7	70,2	79,0	96,6	105,4	114,2
SB-575716	EFXE-575716SB	41,5	62,3	83,1	93,5	114,3	124,7	135,1
SB-577620	EFXE-577620SB	53,9	80,9	107,9	121,3	148,3	161,8	175,3
SB-575730	EFXE-575730SB	55,8	83,7	111,6	125,6	153,5	167,5	181,4
SB-769520	EFXE-769520SB	72,2	108,3	144,4	162,4	198,5	216,6	234,6
SB-1258040	EFXE-1258040SB	72,2	108,3	144,4	162,4	198,5	216,6	234,6

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Enclosure types (Stainless steel)		Maximum power dissipation (W) – Tamb. up to **50**°C						
		INTERNAL TEMP.60°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
SB-101210	EFXE-101210SB	2,7	5,5	8,3	9,7	12,5	13,9	15,3
SB-151510	EFXE-151510SB	4,0	8,0	12,0	14,0	18,0	20,0	22,0
SB-142013	EFXE-142013SB	5,2	10,4	15,7	18,3	23,5	26,2	28,8
SB-202010	EFXE-202010SB	5,3	10,7	16,1	18,7	24,1	26,8	29,5
SB-202016	EFXE-202016SB	6,9	13,9	20,8	24,3	31,3	34,8	38,3
SB-202713	EFXE-202713SB	7,2	14,4	21,6	25,2	32,5	36,1	39,7
SB-272713	EFXE-272713SB	8,3	16,7	25,1	29,3	37,7	41,8	46,0
SB-203016	EFXE-203016SB	8,5	17,1	25,7	30,0	38,6	42,9	47,2
SB-273513	EFXE-273513SB	9,6	19,2	28,9	33,7	43,3	48,2	53,0
SB-282816	EFXE-282816SB	9,6	19,3	29,0	33,9	43,6	48,4	53,3
SB-204016	EFXE-204016SB	10,1	20,2	30,3	35,4	45,5	50,5	55,6
SB-353516	EFXE-353516SB	12,2	24,4	36,6	42,7	54,9	61,0	67,1
SB-282827	EFXE-282827SB	13,1	26,2	39,3	45,9	59,0	65,6	72,2
SB-355016	EFXE-355016SB	14,8	29,7	44,5	52,0	66,8	74,3	81,7
SB-383816	EFXE-383816SB	13,3	26,6	39,9	46,5	59,8	66,5	73,1
SB-384516	EFXE-384516SB	14,5	29,1	43,7	51,0	65,6	72,9	80,2
SB-385716	EFXE-385716SB	16,7	33,4	50,1	58,5	75,2	83,6	91,9
SB-505016	EFXE-505016SB	17,9	35,8	53,8	62,7	80,7	89,7	98,6
SB-383827	EFXE-383827SB	17,5	35,1	52,7	61,4	79,0	87,8	96,6
SB-575716	EFXE-575716SB	20,7	41,5	62,3	72,7	93,5	103,9	114,3
SB-577620	EFXE-577620SB	26,9	53,9	80,9	94,4	121,3	134,8	148,3
SB-575730	EFXE-575730SB	27,9	55,8	83,7	97,7	125,6	139,5	153,5
SB-769520	EFXE-769520SB	36,1	72,2	108,3	126,3	162,4	180,5	198,5
SB-1258040	EFXE-1258040SB	36,1	72,2	108,3	126,3	162,4	180,5	198,5

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Enclosure types (Stainless steel)		Maximum power dissipation (W) – Tamb. up to **55**°C						
		INTERNAL TEMP.65°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
SB-101210	EFXE-101210SB	2,7	4,1	6,9	8,3	11,1	12,5	13,9
SB-151510	EFXE-151510SB	4,0	6,0	10,0	12,0	16,0	18,0	20,0
SB-142013	EFXE-142013SB	5,2	7,8	13,1	15,7	20,9	23,5	26,2
SB-202010	EFXE-202010SB	5,3	8,0	13,4	16,1	21,4	24,1	26,8
SB-202016	EFXE-202016SB	6,9	10,4	17,4	20,8	27,8	31,3	34,8
SB-202713	EFXE-202713SB	7,2	10,8	18,0	21,6	28,9	32,5	36,1
SB-272713	EFXE-272713SB	8,3	12,5	20,9	25,1	33,5	37,7	41,8
SB-203016	EFXE-203016SB	8,5	12,8	21,4	25,7	34,3	38,6	42,9
SB-273513	EFXE-273513SB	9,6	14,4	24,1	28,9	38,5	43,3	48,2
SB-282816	EFXE-282816SB	9,6	14,5	24,2	29,0	38,7	43,6	48,4
SB-204016	EFXE-204016SB	10,1	15,1	25,2	30,3	40,4	45,5	50,5
SB-353516	EFXE-353516SB	12,2	18,3	30,5	36,6	48,8	54,9	61,0
SB-282827	EFXE-282827SB	13,1	19,6	32,8	39,3	52,5	59,0	65,6
SB-355016	EFXE-355016SB	14,8	22,2	37,1	44,5	59,4	66,8	74,3
SB-383816	EFXE-383816SB	13,3	19,9	33,2	39,9	53,2	59,8	66,5
SB-384516	EFXE-384516SB	14,5	21,8	36,4	43,7	58,3	65,6	72,9
SB-385716	EFXE-385716SB	16,7	25,0	41,8	50,1	66,8	75,2	83,6
SB-505016	EFXE-505016SB	17,9	26,9	44,8	53,8	71,7	80,7	89,7
SB-383827	EFXE-383827SB	17,5	26,3	43,9	52,7	70,2	79,0	87,8
SB-575716	EFXE-575716SB	20,7	31,1	51,9	62,3	83,1	93,5	103,9
SB-577620	EFXE-577620SB	26,9	40,4	67,4	80,9	107,9	121,3	134,8
SB-575730	EFXE-575730SB	27,9	41,8	69,7	83,7	111,6	125,6	139,5
SB-769520	EFXE-769520SB	36,1	54,1	90,2	108,3	144,4	162,4	180,5
SB-1258040	EFXE-1258040SB	36,1	54,1	90,2	108,3	144,4	162,4	180,5

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Enclosure types (Stainless steel)		Maximum power dissipation (W) – Tamb. up to **60**°C					
		INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
SB-101210	EFXE-101210SB	2,7	5,5	6,9	9,7	11,1	12,5
SB-151510	EFXE-151510SB	4,0	8,0	10,0	14,0	16,0	18,0
SB-142013	EFXE-142013SB	5,2	10,4	13,1	18,3	20,9	23,5
SB-202010	EFXE-202010SB	5,3	10,7	13,4	18,7	21,4	24,1
SB-202016	EFXE-202016SB	6,9	13,9	17,4	24,3	27,8	31,3
SB-202713	EFXE-202713SB	7,2	14,4	18,0	25,2	28,9	32,5
SB-272713	EFXE-272713SB	8,3	16,7	20,9	29,3	33,5	37,7
SB-203016	EFXE-203016SB	8,5	17,1	21,4	30,0	34,3	38,6
SB-273513	EFXE-273513SB	9,6	19,2	24,1	33,7	38,5	43,3
SB-282816	EFXE-282816SB	9,6	19,3	24,2	33,9	38,7	43,6
SB-204016	EFXE-204016SB	10,1	20,2	25,2	35,4	40,4	45,5
SB-353516	EFXE-353516SB	12,2	24,4	30,5	42,7	48,8	54,9
SB-282827	EFXE-282827SB	13,1	26,2	32,8	45,9	52,5	59,0
SB-355016	EFXE-355016SB	14,8	29,7	37,1	52,0	59,4	66,8
SB-383816	EFXE-383816SB	13,3	26,6	33,2	46,5	53,2	59,8
SB-384516	EFXE-384516SB	14,5	29,1	36,4	51,0	58,3	65,6
SB-385716	EFXE-385716SB	16,7	33,4	41,8	58,5	66,8	75,2
SB-505016	EFXE-505016SB	17,9	35,8	44,8	62,7	71,7	80,7
SB-383827	EFXE-383827SB	17,5	35,1	43,9	61,4	70,2	79,0
SB-575716	EFXE-575716SB	20,7	41,5	51,9	72,7	83,1	93,5
SB-577620	EFXE-577620SB	26,9	53,9	67,4	94,4	107,9	121,3
SB-575730	EFXE-575730SB	27,9	55,8	69,7	97,7	111,6	125,6
SB-769520	EFXE-769520SB	36,1	72,2	90,2	126,3	144,4	162,4
SB-1258040	EFXE-1258040SB	36,1	72,2	90,2	126,3	144,4	162,4

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Enclosure types (Stainless steel)		Maximum power dissipation (W) – Tamb. up to **95**°C	
		INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
SB-101210	EFXE-101210SB	1,3	2,7
SB-151510	EFXE-151510SB	2,0	4,0
SB-142013	EFXE-142013SB	2,6	5,2
SB-202010	EFXE-202010SB	2,6	5,3
SB-202016	EFXE-202016SB	3,4	6,9
SB-202713	EFXE-202713SB	3,6	7,2
SB-272713	EFXE-272713SB	4,1	8,3
SB-203016	EFXE-203016SB	4,2	8,5
SB-273513	EFXE-273513SB	4,8	9,6
SB-282816	EFXE-282816SB	4,8	9,6
SB-204016	EFXE-204016SB	5,0	10,1
SB-353516	EFXE-353516SB	6,1	12,2
SB-282827	EFXE-282827SB	6,5	13,1
SB-355016	EFXE-355016SB	7,4	14,8
SB-383816	EFXE-383816SB	6,6	13,3
SB-384516	EFXE-384516SB	7,2	14,5
SB-385716	EFXE-385716SB	8,3	16,7
SB-505016	EFXE-505016SB	8,9	17,9
SB-383827	EFXE-383827SB	8,7	17,5
SB-575716	EFXE-575716SB	10,3	20,7
SB-577620	EFXE-577620SB	13,4	26,9
SB-575730	EFXE-575730SB	13,9	27,9
SB-769520	EFXE-769520SB	18,0	36,1
SB-1258040	EFXE-1258040SB	18,0	36,1

Power dissipation – Stainless steel enclosures ST series

Enclosure types (Stainless steel)		Maximum power dissipation (W) – Tamb. up to **40**°C						
		INTERNAL TEMP.60°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
ST-101210	EFXE-101210ST	5,5	8,3	11,1	12,5	15,3	16,7	18,1
ST-151510	EFXE-151510ST	8,0	12,0	16,0	18,0	22,0	24,0	26,1
ST-142013	EFXE-142013ST	10,4	15,7	20,9	23,5	28,8	31,4	34,0
ST-202010	EFXE-202010ST	10,7	16,1	21,4	24,1	29,5	32,2	34,8
ST-202016	EFXE-202016ST	13,9	20,8	27,8	31,3	38,3	41,7	45,2
ST-202713	EFXE-202713ST	14,4	21,6	28,9	32,5	39,7	43,3	46,9
ST-272713	EFXE-272713ST	16,7	25,1	33,5	37,7	46,0	50,2	54,4
ST-203016	EFXE-203016ST	17,1	25,7	34,3	38,6	47,2	51,4	55,7
ST-273513	EFXE-273513ST	19,2	28,9	38,5	43,3	53,0	57,8	62,6
ST-282816	EFXE-282816ST	19,3	29,0	38,7	43,6	53,3	58,1	63,0
ST-204016	EFXE-204016ST	20,2	30,3	40,4	45,5	55,6	60,6	65,7
ST-353516	EFXE-353516ST	24,4	36,6	48,8	54,9	67,1	73,2	79,3
ST-282827	EFXE-282827ST	26,2	39,3	52,5	59,0	72,2	78,7	85,3
ST-355016	EFXE-355016ST	29,7	44,5	59,4	66,8	81,7	89,1	96,6
ST-383816	EFXE-383816ST	26,6	39,9	53,2	59,8	73,1	79,8	86,5
ST-384516	EFXE-384516ST	29,1	43,7	58,3	65,6	80,2	87,5	94,8
ST-385716	EFXE-385716ST	33,4	50,1	66,8	75,2	91,9	100,3	108,7
ST-505016	EFXE-505016ST	35,8	53,8	71,7	80,7	98,6	107,6	116,6
ST-383827	EFXE-383827ST	35,1	52,7	70,2	79,0	96,6	105,4	114,2
ST-575716	EFXE-575716ST	41,5	62,3	83,1	93,5	114,3	124,7	135,1
ST-577620	EFXE-577620ST	53,9	80,9	107,9	121,3	148,3	161,8	175,3
ST-575730	EFXE-575730ST	55,8	83,7	111,6	125,6	153,5	167,5	181,4
ST-769520	EFXE-769520ST	72,2	108,3	144,4	162,4	198,5	216,6	234,6
ST-1258040	EFXE-1258040ST	72,2	108,3	144,4	162,4	198,5	216,6	234,6

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Enclosure types (Stainless steel)		Maximum power dissipation (W) – Tamb. up to **50**°C						
		INTERNAL TEMP.60°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
ST-101210	EFXE-101210ST	2,7	5,5	8,3	9,7	12,5	13,9	15,3
ST-151510	EFXE-151510ST	4,0	8,0	12,0	14,0	18,0	20,0	22,0
ST-142013	EFXE-142013ST	5,2	10,4	15,7	18,3	23,5	26,2	28,8
ST-202010	EFXE-202010ST	5,3	10,7	16,1	18,7	24,1	26,8	29,5
ST-202016	EFXE-202016ST	6,9	13,9	20,8	24,3	31,3	34,8	38,3
ST-202713	EFXE-202713ST	7,2	14,4	21,6	25,2	32,5	36,1	39,7
ST-272713	EFXE-272713ST	8,3	16,7	25,1	29,3	37,7	41,8	46,0
ST-203016	EFXE-203016ST	8,5	17,1	25,7	30,0	38,6	42,9	47,2
ST-273513	EFXE-273513ST	9,6	19,2	28,9	33,7	43,3	48,2	53,0
ST-282816	EFXE-282816ST	9,6	19,3	29,0	33,9	43,6	48,4	53,3
ST-204016	EFXE-204016ST	10,1	20,2	30,3	35,4	45,5	50,5	55,6
ST-353516	EFXE-353516ST	12,2	24,4	36,6	42,7	54,9	61,0	67,1
ST-282827	EFXE-282827ST	13,1	26,2	39,3	45,9	59,0	65,6	72,2
ST-355016	EFXE-355016ST	14,8	29,7	44,5	52,0	66,8	74,3	81,7
ST-383816	EFXE-383816ST	13,3	26,6	39,9	46,5	59,8	66,5	73,1
ST-384516	EFXE-384516ST	14,5	29,1	43,7	51,0	65,6	72,9	80,2
ST-385716	EFXE-385716ST	16,7	33,4	50,1	58,5	75,2	83,6	91,9
ST-505016	EFXE-505016ST	17,9	35,8	53,8	62,7	80,7	89,7	98,6
ST-383827	EFXE-383827ST	17,5	35,1	52,7	61,4	79,0	87,8	96,6
ST-575716	EFXE-575716ST	20,7	41,5	62,3	72,7	93,5	103,9	114,3
ST-577620	EFXE-577620ST	26,9	53,9	80,9	94,4	121,3	134,8	148,3
ST-575730	EFXE-575730ST	27,9	55,8	83,7	97,7	125,6	139,5	153,5
ST-769520	EFXE-769520ST	36,1	72,2	108,3	126,3	162,4	180,5	198,5
ST-1258040	EFXE-1258040ST	36,1	72,2	108,3	126,3	162,4	180,5	198,5

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Enclosure types (Stainless steel)		Maximum power dissipation (W) – Tamb. up to **55**°C						
		INTERNAL TEMP.65°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
ST-101210	EFXE-101210ST	2,7	4,1	6,9	8,3	11,1	12,5	13,9
ST-151510	EFXE-151510ST	4,0	6,0	10,0	12,0	16,0	18,0	20,0
ST-142013	EFXE-142013ST	5,2	7,8	13,1	15,7	20,9	23,5	26,2
ST-202010	EFXE-202010ST	5,3	8,0	13,4	16,1	21,4	24,1	26,8
ST-202016	EFXE-202016ST	6,9	10,4	17,4	20,8	27,8	31,3	34,8
ST-202713	EFXE-202713ST	7,2	10,8	18,0	21,6	28,9	32,5	36,1
ST-272713	EFXE-272713ST	8,3	12,5	20,9	25,1	33,5	37,7	41,8
ST-203016	EFXE-203016ST	8,5	12,8	21,4	25,7	34,3	38,6	42,9
ST-273513	EFXE-273513ST	9,6	14,4	24,1	28,9	38,5	43,3	48,2
ST-282816	EFXE-282816ST	9,6	14,5	24,2	29,0	38,7	43,6	48,4
ST-204016	EFXE-204016ST	10,1	15,1	25,2	30,3	40,4	45,5	50,5
ST-353516	EFXE-353516ST	12,2	18,3	30,5	36,6	48,8	54,9	61,0
ST-282827	EFXE-282827ST	13,1	19,6	32,8	39,3	52,5	59,0	65,6
ST-355016	EFXE-355016ST	14,8	22,2	37,1	44,5	59,4	66,8	74,3
ST-383816	EFXE-383816ST	13,3	19,9	33,2	39,9	53,2	59,8	66,5
ST-384516	EFXE-384516ST	14,5	21,8	36,4	43,7	58,3	65,6	72,9
ST-385716	EFXE-385716ST	16,7	25,0	41,8	50,1	66,8	75,2	83,6
ST-505016	EFXE-505016ST	17,9	26,9	44,8	53,8	71,7	80,7	89,7
ST-383827	EFXE-383827ST	17,5	26,3	43,9	52,7	70,2	79,0	87,8
ST-575716	EFXE-575716ST	20,7	31,1	51,9	62,3	83,1	93,5	103,9
ST-577620	EFXE-577620ST	26,9	40,4	67,4	80,9	107,9	121,3	134,8
ST-575730	EFXE-575730ST	27,9	41,8	69,7	83,7	111,6	125,6	139,5
ST-769520	EFXE-769520ST	36,1	54,1	90,2	108,3	144,4	162,4	180,5
ST-1258040	EFXE-1258040ST	36,1	54,1	90,2	108,3	144,4	162,4	180,5

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Enclosure types (Stainless steel)		Maximum power dissipation (W) – Tamb. up to **60**°C					
		INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
ST-101210	EFXE-101210ST	2,7	5,5	6,9	9,7	11,1	12,5
ST-151510	EFXE-151510ST	4,0	8,0	10,0	14,0	16,0	18,0
ST-142013	EFXE-142013ST	5,2	10,4	13,1	18,3	20,9	23,5
ST-202010	EFXE-202010ST	5,3	10,7	13,4	18,7	21,4	24,1
ST-202016	EFXE-202016ST	6,9	13,9	17,4	24,3	27,8	31,3
ST-202713	EFXE-202713ST	7,2	14,4	18,0	25,2	28,9	32,5
ST-272713	EFXE-272713ST	8,3	16,7	20,9	29,3	33,5	37,7
ST-203016	EFXE-203016ST	8,5	17,1	21,4	30,0	34,3	38,6
ST-273513	EFXE-273513ST	9,6	19,2	24,1	33,7	38,5	43,3
ST-282816	EFXE-282816ST	9,6	19,3	24,2	33,9	38,7	43,6
ST-204016	EFXE-204016ST	10,1	20,2	25,2	35,4	40,4	45,5
ST-353516	EFXE-353516ST	12,2	24,4	30,5	42,7	48,8	54,9
ST-282827	EFXE-282827ST	13,1	26,2	32,8	45,9	52,5	59,0
ST-355016	EFXE-355016ST	14,8	29,7	37,1	52,0	59,4	66,8
ST-383816	EFXE-383816ST	13,3	26,6	33,2	46,5	53,2	59,8
ST-384516	EFXE-384516ST	14,5	29,1	36,4	51,0	58,3	65,6
ST-385716	EFXE-385716ST	16,7	33,4	41,8	58,5	66,8	75,2
ST-505016	EFXE-505016ST	17,9	35,8	44,8	62,7	71,7	80,7
ST-383827	EFXE-383827ST	17,5	35,1	43,9	61,4	70,2	79,0
ST-575716	EFXE-575716ST	20,7	41,5	51,9	72,7	83,1	93,5
ST-577620	EFXE-577620ST	26,9	53,9	67,4	94,4	107,9	121,3
ST-575730	EFXE-575730ST	27,9	55,8	69,7	97,7	111,6	125,6
ST-769520	EFXE-769520ST	36,1	72,2	90,2	126,3	144,4	162,4
ST-1258040	EFXE-1258040ST	36,1	72,2	90,2	126,3	144,4	162,4

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Enclosure types (Stainless steel)		Maximum power dissipation (W) – Tamb. up to **95**°C	
		INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
ST-101210	EFXE-101210ST	1,3	2,7
ST-151510	EFXE-151510ST	2,0	4,0
ST-142013	EFXE-142013ST	2,6	5,2
ST-202010	EFXE-202010ST	2,6	5,3
ST-202016	EFXE-202016ST	3,4	6,9
ST-202713	EFXE-202713ST	3,6	7,2
ST-272713	EFXE-272713ST	4,1	8,3
ST-203016	EFXE-203016ST	4,2	8,5
ST-273513	EFXE-273513ST	4,8	9,6
ST-282816	EFXE-282816ST	4,8	9,6
ST-204016	EFXE-204016ST	5,0	10,1
ST-353516	EFXE-353516ST	6,1	12,2
ST-282827	EFXE-282827ST	6,5	13,1
ST-355016	EFXE-355016ST	7,4	14,8
ST-383816	EFXE-383816ST	6,6	13,3
ST-384516	EFXE-384516ST	7,2	14,5
ST-385716	EFXE-385716ST	8,3	16,7
ST-505016	EFXE-505016ST	8,9	17,9
ST-383827	EFXE-383827ST	8,7	17,5
ST-575716	EFXE-575716ST	10,3	20,7
ST-577620	EFXE-577620ST	13,4	26,9
ST-575730	EFXE-575730ST	13,9	27,9
ST-769520	EFXE-769520ST	18,0	36,1
ST-1258040	EFXE-1258040ST	18,0	36,1

Maximum Power Dissipation calculation

The values specified in the tables as per clause 2.1.1 may be modified within the maximum admitted Tamb and maximum admitted internal temperature as follows.

$$Pdiss\ (W) = \frac{Tmax - Tamb}{Rth}$$

$Rth = A \times (\text{enclosure surface in } mm^2 \text{ except enclosure bottom})^B$

Legend:
Rth – Thermal resistance [K/W].
Tmax – Maximum allowed temperature inside enclosure.
Tamb – Ambient temperature of enclosure
A and B - coefficients determined for each series o enclosure. Exact values are given in manufacturer's documentation.

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[16] Confidential Report No. FIDI 21 CR 075

[16.1] Routine testing

Junction boxes, local control stations and local control panels fitted with wiring, shall be subject to a routine dielectric strength test according to the clause 7.1 of IEC 60079-7.

[17] Specific Conditions of Use

- Enclosures marked with warning label: "WARNING – POTENTIAL ELECTROSTATIC CHARGING HAZARD – SEE INSTRUCTIONS" must be cleaned only by damp cloth or antistatic products.
- Apparatus equipped with drain / venting valve Technor Italsmea model ECR3:
  - the valve cannot be open when an explosive dust atmosphere is present.
  - The valve can be open when an explosive gas atmosphere is present: when open, the equipment reaches the protection degree IP44.
  - When the valve is left in open position, it should be protected from light exposure.
- On the intrinsic safety terminals, the user must only connect devices with compatible intrinsic safety parameters according to EN 60079-14.

[18] Essential Health and Safety Requirements

Covered by the conformity with harmonized standards listed under item 9.

[19] Drawings and Documents

Title:	Drawing No.:	Rev. level:	Date:
Technical note	TN2111	0	17.11.2021
Instruction for use	TN2111 Annex A	0	08.11.2021
Apparatus list	TN2111 Annex B	0	17.11.2021
Drawings:			
Cable entries, plug, adaptors coupling systems	AC2111, sheet 1	0	10.11.2021
Example of operator arrangements for AQ-AR-EFE	AC2111, sheet 2	0	10.11.2021
Example of operator arrangements for SB-ST-EFEXE	AC2111, sheet 3	0	10.11.2021
Example terminals and earth bus bar	AC2111, sheet 4	0	10.11.2021
Drain / breath device type ECR3	AC2111, sheet 5	0	10.11.2021
Marking label SB..., ST..., AQ..., AR...	AC2111, sheet 6	0	10.11.2021
Marking label SB..., ST..., AQ..., AR...	AC2111, sheet 7	0	10.11.2021

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[1] **SUPPLEMENTARY EU – TYPE EXAMINATION CERTIFICATE**

[2] Equipment or Protective Systems Intended for use in Potentially Explosive Atmospheres Directive 2014/34/EU.

[3] Supplementary EU-Type Examination Certificate Number: **FIDI 21 ATEX 0090X/1**

[4] Product: **Junction boxes, local control stations and local control panels**

Type: **AQ-***P / AQ-***AL / AR-***P / AR-***AL**
AQ-*P-HT / AQ-***AL-HT / AR-***P-HT / AR-***AL-HT**
SB-* / ST-***
EFE-* / EFXE-*** AL/ EFXE-***SB / EFXE-***ST**
EFE-*-HT / EFXE-***AL-HT**

[5] Manufacturer: **Technor Italsmea S.p.A.**

[6] Address: **Via Italia 33, 20060 Gessate (MI), Italy**

[7] This supplementary certificate extends EU – Type Examination Certificate to apply to product designed and constructed in accordance with the specification set out in the Schedule of the said certificate but having any variations specified in the Schedule to this certificate and the documents therein referred to.

[8] FIDITAS Ltd., Notified Body number 2829 in accordance with Article 17 of Directive 2014/34/EU of the European Parliament and of the Council, dated 26 February 2014, certifies that this product has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of products intended for use in potentially explosive atmospheres given in Annex II of the Directive.

[9] The examination and test results are recorded in confidential Report No: **FIDI 23 CR 019**

[10] The marking of the product shall include the following:

II 1 G	**Ex ia IIC/IIB T6...T4 Ga**(2) or
II 2(1) G or **II 2(2) G**	**Ex db eb ia/ib mb [**(3)**] IIC/IIB T6...T4 Gb**(1) or
II 2 G	**Ex eb IIC/IIB T6...T4 Gb**(1) or
II 2 D	**Ex tb IIIC T85°C...T135°C Db**

(1) Others type of protection additional to 'eb' depending to the components actually mounted.

(2) In case of enclosures containing 'eb' terminals and/or 'ia Ga' already certified components (with compatible marking) only.

(3) Associated equipment protection depending on the components actually mounted (see lists): e.g. [ia/ib/ia Ga/ia IIIC Da] and/or [ia IIIC Da] or [ia/ib/ia Ga/ia IIIC Da] and/or [ia/ib/ia Ga] [ia IIIC Da]

FIDITAS Ltd.
Certification department
Approved:

Marino Kelava, M.E.Eng.

Our ref.: 23.CRT.071

Date: 19.04.2023

Fiditas d.o.o. ZAGREB

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[11] **SCHEDULE**

[12] **SUPPLEMENTARY EU - TYPE EXAMINATION CERTIFICATE No.: FIDI 21 ATEX 0090X /1**

[13] Description of the variation to the Product

New Ex products added:

- Surge voltage protection unit type: PLUGTRAB PT2 or PT4 – PHOENIX CONTACT; II 1G> Ex ia IIC T4...T6 Ga; KEMA 00 ATEX 1099X;
- SITRANS TH230/420, type: 7NG0317, 0310; 0410 TR320/TR420 7NG0327; 7NG0320; TYPE 7NG0420; Siemens AG; II 1G Ex ia IIC T6...T4 Ga; II 2(1)G Ex ib [ia Ga] IIC T6...T4 Gb; DEKRA 17 ATEX 0116X
- Enhanced Model 644 Temperature Transmitter, ROSEMOUNT INCORPORATED, II 1G Ex ia IIC T6...T4 Ga; DEKRA 21ATEX0003X,
- Temperature Transmitter type: 5434D; 5431D; 6431D; 5435D; 5437D; 5437D; 5437B; 6437D, II 1G Ex ia IIC T6...T4 Ga; II 2(1)G Ex ib [ia Ga] IIC T6...T4 Gb; DEKRA 16 ATEX 0047X,
- Controls Units and / or Junction Boxes Type: GUB..., TECHNOR ITALSMEA; II 2G Ex db (*) IIC T(*) Gb; INERIS 22 ATEX 0008X
- Cable Transit Device type: CF 8 Ex, CF 32 Ex, CF 16 Ex, C RS T...Ex, RS..B Ex, SF...Ex, SFX...B Ex, B...B Ex, R...B Ex and RO...B; ROXTEC INTERNATIONAL AB, II 2G Ex e IIC Gb, II 2D Ex tb IIC Db; NEMKO 12 ATEX 1278X
- Cable Transit Device type: HD 16 Ex, HD 24 Ex, HD 32 Ex and HDLC Ex, ROXTEC INTERNATIONAL AB, II 2G Ex eb IIC Gb, II 2D Ex tb IIIC Db, PRESAFE 15 ATEX 6419X
- Control stations and junction boxes type: CP..., TECHNOR ITALSMEA, II 2G Ex db IIC T6 or T5 or T4 Gb or II 2(1)G Ex db [ia Ga] IIC T6 Gb(***) or II 2(2)G Ex db [ib] IIC T6 Gb (***); INERIS 03 ATEX 0009X
- Industrial plug and socket type: DXN1, MARECHAL ELECTRIC, II 2G Ex db eb IIC T5 or T6; II 2D Ex tb IIIC T90°C/T70°C; LCIE 99 ATEX6027X
- Industrial plug and socket type: DXN3, MARECHAL ELECTRIC; II 2G Ex db eb IIC T5 or T6; II 2D Ex tb IIIC T90°C/T70°C; LCIE 05 ATEX 6149X
- Industrial plug and socket type: DXN6, MARECHAL ELECTRIC, II 2G Ex db eb IIC T5 or T6; II 2D Ex tb IIIC T90°C/T70°C; LCIE 05 ATEX 6150X
- Industrial plug and socket type: PXN12C, MARECHAL ELECTRIC, II 2G Ex eb IIC T*; II 2G Ex ia or ib IIC T*; II 2D Ex tb IIIC T* Db; LCIE 07 ATEX 6070X
- Industrial plug and socket type: DXN25C, MARECHAL ELECTRIC; II 2G Ex eb IIC T*; II 2G Ex ia or ib IIC T6; II2D Ex tb IIIC T*; LCIE 09ATEX3050X
- Industrial plug and socket type: DXN37C, MARECHAL ELECTRIC; II 2G Ex eb IIC T*; II 2G Ex ia or ib IIC T6; II2D Ex tb IIIC T*; LCIE 07ATEX6071X
- Industrial plug and socket type: SPeX, MARECHAL ELECTRIC, II 2G Ex eb IIC T*; II2D Ex tb IIIC T* Db; LCIE 07ATEX6073X
- Industrial plug and socket type: DXA1, MARECHAL ELECTRIC, II 2G Ex db eb IIC T* Gb; II 2D Ex tb IIC T*°C Db; LCIE 15ATEX 3033X
- Industrial plug and socket type: PNCX, MARECHAL ELECTRIC, II 2G Ex IIC T6 Gb; II 2D Ex tb IIIC T72°C Db; LCIE 16ATEX3001X
- Terminal type: WDU 240, WEIDMULLER, II 2G Ex eb IIC Gb; KEMA 01 ATEX 2186U.

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[14] Confidential Report No. FIDI 23 CR 019

[14.1] Routine testing

No change to specified in the initial certificate.

[15] Specific Conditions of Use

Addditional to those specified the initial certificate:

- Manufacturer must obey relevant specific condition of use of Ex equipment and/or schedule of limitation of Ex components installed in/on the product and forward to the end user if relevant for the installation and use.

[16] Essential Health and Safety Requirements

Compliance with the Essential Health and Safety Requirements is not affected by this variation.

[17] Drawings and Documents

Title:	Drawing No.:	Rev. level:	Date:
Technical note	TN2111	1	20.01.2023
Instruction for use	TN2111 Annex A	1	20.01.2023
Apparatus list	TN2111 Annex B	1	20.01.2023

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IECEx Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION
IEC Certification System for Explosive Atmospheres

for rules and details of the IECEx Scheme visit www.iecex.com

Certificate No.:	**IECEx FIDI 21.0015X**	Page 1 of 4	Certificate history: Issue 0 (2022-02-18)
Status:	**Current**	Issue No: 1	
Date of Issue:	2023-05-04		

Applicant: **Technor Italsmea S.p.A.**
Via Italia 33
20060 Gessate (MI)
Italy

Equipment: **Junction boxes, local control stations and local control panels**

Optional accessory: Model reference: AQ-***P / AQ-***AL / AR-***P / AR-***AL / AQ-***P-HT / AQ-***AL-HT / AR-***P-HT / AR-***AL-HT / SB-*** / ST-*** / EFE-*** / EFXE-*** AL/ EFXE-***SB / EFXE-***ST / EFE-***-HT / EFXE-***AL-HT

Type of Protection: **Flameproof enclosure 'db'; Intrinsic safety 'ia/ib'; Increased safety 'eb'; Encapsulation 'mb', Protection by enclosure 'tb'**

Marking: **Ex ia IIC/IIB T6...T4 Ga**(2) or

Ex db eb ia/ib mb [(3)] IIC/IIB T6...T4 Gb(1) or

Ex eb IIC/IIB T6...T4 Gb(1) or

Ex tb IIIC T85°C...T135°C Db

(1) Others type of protection additional to Ex e/eb depending to the components actually mounted.

(2) In case of enclosures containing Ex e/Ex eb terminals and/or Ex ia Ga already certified components (with compatible marking) only.

(3) Associated equipment protection depending on the components actually mounted (see lists): e.g. [ia/ib/ia Ga/ia IIIC Da] and/or [ia IIIC Da] or [ia/ib/ia Ga/ia IIIC Da] and/or [ia/ib/ia Ga] [ia IIIC Da]

Approved for issue on behalf of the IECEx Certification Body: **Marino Kelava**

Position: **Certification Signatory**

Signature:
(for printed version)

Date:
(for printed version)

1. This certificate and schedule may only be reproduced in full.
2. This certificate is not transferable and remains the property of the issuing body.
3. The Status and authenticity of this certificate may be verified by visiting www.iecex.com or use of this QR Code.

Certificate issued by:

Fiditas Ltd
Slavka Tomerlina 44
HR-10361 Zagreb-Sesvete
Croatia

Fiditas
explosion safety solutions

IECEx Certificate of Conformity

Certificate No.: **IECEx FIDI 21.0015X**

Date of issue: 2023-05-04 Issue No: 1

Manufacturer: **Technor Italsmea S.p.A.**
Via Italia 33
20060 Gessate (MI)
Italy

Manufacturing locations:

This certificate is issued as verification that a sample(s), representative of production, was assessed and tested and found to comply with the IEC Standard list below and that the manufacturer's quality system, relating to the Ex products covered by this certificate, was assessed and found to comply with the IECEx Quality system requirements.This certificate is granted subject to the conditions as set out in IECEx Scheme Rules, IECEx 02 and Operational Documents as amended

STANDARDS :
The equipment and any acceptable variations to it specified in the schedule of this certificate and the identified documents, was found to comply with the following standards

IEC 60079-0:2017 Explosive atmospheres - Part 0: Equipment - General requirements
Edition:7.0

IEC 60079-1:2014-06 Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"
Edition:7.0

IEC 60079-11:2011 Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"
Edition:6.0

IEC 60079-18:2017 Explosive atmospheres - Part 18: Protection by encapsulation "m"
Edition:4.1

IEC 60079-31:2013 Explosive atmospheres - Part 31: Equipment dust ignition protection by enclosure "t"
Edition:2

IEC 60079-7:2017 Explosive atmospheres - Part 7: Equipment protection by increased safety "e"
Edition:5.1

This Certificate **does not** indicate compliance with safety and performance requirements other than those expressly included in the Standards listed above.

TEST & ASSESSMENT REPORTS:
A sample(s) of the equipment listed has successfully met the examination and test requirements as recorded in:

Test Reports:

HR/FIDI/ExTR21.0016/00 HR/FIDI/ExTR21.0016/01

Quality Assessment Report:

FR/INE/QAR08.0002/15

IECEx Certificate of Conformity

EQUIPMENT:
Equipment and systems covered by this Certificate are as follows:

Junction boxes, local control stations and local control panels series AQ-…..; AR-…..; SB…..; EFE-…..; EFXE-….. use certified enclosures of various sizes, manufactured by Technor Italsmea S.p.A., type: AQ-.... ; AR-....; SB-...; ST- …, certificate IECEx FIDI 21.0012U.

Enclosures coded …-HT are made in glass fiber reinforced polyester resin or in aluminum, and covered by IECEx component certificates: IECEx PTB 08.0003U, enclosure type: 26.****** and IECEx PTB 08.0003U, enclosure type: 25.******.

Enclosures may be equipped with certified Ex equipment or Ex components and Ex terminals listed in manufacturer's documentation. Certified Ex equipment or Ex components and Ex terminals must be used according to data available in related component or equipment certificates, in particular relevant temperature range, voltage and current limitations. The cable glands or plugs, with separate IECEx certificate, made in type of protection ‘eb’ and/or ‘tb’ with appropriate IP protection are mounted according to related manufacturer’s installation instructions. Each enclosure is provided with internal earthing certified terminal or earthing screw or bolt. Metal enclosures are provided by external earthing screw or bolt. Metal and polyester enclosures can be provided by passing through earthing terminals.

All enclosures can be provided by:
- Externally installed accessories as specified in manufacturer documents,
- Drain breath device type ECR3, included in this certificate,
- Internal/external earthing plate.

For other description see Annex.

SPECIFIC CONDITIONS OF USE: YES as shown below:

- Enclosures marked with warning label: “WARNING – POTENTIAL ELECTROSTATIC CHARGING HAZARD – SEE INSTRUCTIONS” must be cleaned only by damp cloth or antistatic products.
- Apparatus equipped with drain / venting valve Technor Italsmea model ECR3:
  - the valve cannot be open when an explosive dust atmosphere is present.
  - The valve can be open when an explosive gas atmosphere is present: when open, the equipment reaches the protection degree IP44.
  - When the valve is left in open position, it should be protected from light exposure.
- On the intrinsic safety terminals, the user must only connect devices with compatible intrinsic safety parameters according to IEC 60079-14.

IECEx Certificate of Conformity

DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)
New IECEx certified Ex products added in the Apparatus list according to list given in HR/FIDI/ ExTR 21.0016/01.

Annex:

IECEx FIDI 21.0015X Technor Equipment Annex1 issue1.pdf

Technical description (continued from original certificate)

Model identification

Junction boxes

A(1)-(2) (3) (4) (5) (6)	(1) –	**Q**: Square size **R**: Rectangular size
	(2) (3) (4)	dimension, in cm
	(5)	Material **P**: Glass fiber reinforced polyester resin **AL**: Aluminium Alloy
	(6)	None: up to internal temperature of 105°C **HT**: up to internal temperature of 130°C
SB- (2) (3) (4)	(2) (3) (4)	dimension, in cm
ST- (2) (3) (4)	(2) (3) (4)	dimension, in cm

Panel boards

EFE- (2) (3) (4) (6)	(2) (3) (4)	dimension, in cm
	(6)	None: up to internal temperature of 105°C **HT**: up to internal temperature of 130°C
EFXE- (2) (3) (4) (5) (6)	(2) (3) (4)	dimension, in cm
	(5)	Material **SB** or **ST**: stainless steel **AL**: Aluminium Alloy
	(6)	None: up to internal temperature of 105°C **HT**: up to internal temperature of 130°C

Technical data:

Electrical data:	According to Ex component to actually installed
Ambient temperature:	-50°C to +95°C Other possible ranges are with: - min temperature: -50°C to -20 °C - max temperature of +40 °C to +95 °C
Mechanical protection:	IP55, IP66 or IP67 depending on model

Temperature class and/or maximum surface temperature of any junction box or control panel depend on ambient temperature and internal power dissipation. The values that must be observed are given in relevant tables in this certificate.

For commercial reasons model name listed in the tables below can be modified as follows: first (2) and second (3) pair of digits can be reversed.

Models sizes

Polyester High Temperature		Aluminium High Temperature	
AQ-080806P-HT	EFE-080806-HT	AQ-080806AL-HT	EFXE-080806AL-HT
AQ-080808P-HT	EFE-080808-HT	AR-081306AL-HT	EFXE-081306AL-HT
AR-081106P-HT	EFE-081106-HT	AR-081806AL-HT	EFXE-081806AL-HT
AR-081108P-HT	EFE-081108-HT	AR-082505AL-HT	EFXE-082505AL-HT
AR-081606P-HT	EFE-081606-HT	AQ-101008AL-HT	EFXE-101008AL-HT
AR-081608P-HT	EFE-081608-HT	AR-101608AL-HT	EFXE-101608AL-HT
AR-081906P-HT	EFE-081906-HT	AR-102008AL-HT	EFXE-102008AL-HT
AR-081908P-HT	EFE-081908-HT	AQ-121208AL-HT	EFXE-121208AL-HT
AR-082306P-HT	EFE-082306-HT	AQ-121209AL-HT	EFXE-121209AL-HT
AR-082308P-HT	EFE-082308-HT	AR-122208AL-HT	EFXE-122208AL-HT
AQ-121209P-HT	EFE-121209-HT	AR-122209AL-HT	EFXE-122209AL-HT
AR-122209P-HT	EFE-122209-HT	AR-123608AL-HT	EFXE-123608AL-HT
AQ-161609P-HT	EFE-161609-HT	AQ-141409AL-HT	EFXE-141409AL-HT
AR-162609P-HT	EFE-162609-HT	AR-142009AL-HT	EFXE-142009AL-HT
AR-163609P-HT	EFE-163609-HT	AQ-161609AL-HT	EFXE-161609AL-HT
AR-165609P-HT	EFE-165609-HT	AR-162609AL-HT	EFXE-162609AL-HT
AQ-202017P-HT	EFE-202017-HT	AR-163609AL-HT	EFXE-163609AL-HT
AR-203017P-HT	EFE-203017-HT	AR-165609AL-HT	EFXE-165609AL-HT
AQ-252612P-HT	EFE-252612-HT	AQ-181810AL-HT	EFXE-181810AL-HT
AQ-252616P-HT	EFE-252616-HT	AR-182810AL-HT	EFXE-182810AL-HT
AR-254012P-HT	EFE-254012-HT	AR-102311AL-HT	EFXE-102311AL-HT
AR-254016P-HT	EFE-254016-HT	AR-202311AL-HT	EFXE-202311AL-HT
AR-256012P-HT	EFE-256012-HT	AR-202318AL-HT	EFXE-202318AL-HT
AR-304020P-HT	EFE-304020-HT	AR-232811AL-HT	EFXE-232811AL-HT
AQ-363609P-HT	EFE-363609-HT	AR-233311AL-HT	EFXE-233311AL-HT
AR-406025P-HT	EFE-406025-HT	AR-233318AL-HT	EFXE-233318AL-HT
AQ-414012P-HT	EFE-414012-HT	AR-234011AL-HT	EFXE-234011AL-HT
AQ-414020P-HT	EFE-414020-HT	AR-234023AL-HT	EFXE-234023AL-HT
		AR-236011AL-HT	EFXE-236011AL-HT
		AR-314011AL-HT	EFXE-314011AL-HT
		AR-314014AL-HT	EFXE-314014AL-HT
		AR-314018AL-HT	EFXE-314018AL-HT
		AR-314023AL-HT	EFXE-314023AL-HT
		AR-316011AL-HT	EFXE-316011AL-HT
		AR-316018AL-HT	EFXE-316018AL-HT
		AQ-606020AL-HT	EFXE-606020AL-HT

Polyester		Aluminium		Stainless steel	
AQ-080806P	EFE-080806	AQ-080806AL	EFXE-080806AL	SB-101210	EFXE-101210SB
AQ-080808P	EFE-080808	AR-081306AL	EFXE-081306AL	SB-151510	EFXE-151510SB
AR-081106P	EFE-081106	AR-081806AL	EFXE-081806AL	SB-142013	EFXE-142013SB
AR-081606P	EFE-081606	AR-081808AL	EFXE-081808AL	SB-202010	EFXE-202010SB
AR-081906P	EFE-081906	AR-082505AL	EFXE-082505AL	SB-202016	EFXE-202016SB
AQ-121209P	EFE-121209	AR-082508AL	EFXE-082508AL	SB-202713	EFXE-202713SB
AR-122209P	EFE-122209	AQ-101008AL	EFXE-101008AL	SB-272713	EFXE-272713SB
AQ-161609P	EFE-161609	AR-101508AL	EFXE-101508AL	SB-203016	EFXE-203016SB
AR-162609P	EFE-162609	AR-101608AL	EFXE-101608AL	SB-273513	EFXE-273513SB
AR-163609P	EFE-163609	AR-102008AL	EFXE-102008AL	SB-282816	EFXE-282816SB
AQ-252612P	EFE-252612	AQ-121208AL	EFXE-121208AL	SB-204016	EFXE-204016SB
AQ-252616P	EFE-252616	AR-122209AL	EFXE-122209AL	SB-353516	EFXE-353516SB
AR-254012P	EFE-254012	AQ-141409AL	EFXE-141409AL	SB-282827	EFXE-282827SB
AR-254016P	EFE-254016	AR-142009AL	EFXE-142009AL	SB-355016	EFXE-355016SB
AR-256012P	EFE-256012	AQ-161609AL	EFXE-161609AL	SB-383816	EFXE-383816SB
AQ-414012P	EFE-414012	AR-162410AL	EFXE-162410AL	SB-384516	EFXE-384516SB
		AR-162609AL	EFXE-162609AL	SB-385716	EFXE-385716SB
		AQ-181810AL	EFXE-181810AL	SB-505016	EFXE-505016SB
		AR-182810AL	EFXE-182810AL	SB-383827	EFXE-383827SB
		AR-202311AL	EFXE-202311AL	SB-575716	EFXE-575716SB
		AR-202318AL	EFXE-202318AL	SB-577620	EFXE-577620SB
		AR-232811AL	EFXE-232811AL	SB-575730	EFXE-575730SB
		AR-233312AL	EFXE-233312AL	SB-769520	EFXE-769520SB
		AR-233318AL	EFXE-233318AL	SB-1258040	EFXE-1258040SB

Enclosure types (Stainless steel)	
ST-101210	EFXE-101210ST
ST-151510	EFXE-151510ST
ST-142013	EFXE-142013ST
ST-202010	EFXE-202010ST
ST-202016	EFXE-202016ST
ST-202713	EFXE-202713ST
ST-272713	EFXE-272713ST
ST-203016	EFXE-203016ST
ST-273513	EFXE-273513ST
ST-282816	EFXE-282816ST
ST-204016	EFXE-204016ST
ST-353516	EFXE-353516ST
ST-282827	EFXE-282827ST
ST-355016	EFXE-355016ST
ST-383816	EFXE-383816ST
ST-384516	EFXE-384516ST
ST-385716	EFXE-385716ST
ST-505016	EFXE-505016ST
ST-383827	EFXE-383827ST
ST-575716	EFXE-575716ST
ST-577620	EFXE-577620ST
ST-575730	EFXE-575730ST
ST-769520	EFXE-769520ST
ST-1258040	EFXE-1258040ST

Note 2 For stainless steel enclosures: dimensions (2) and (3) can be decreased or increased up to 20%, dimensions (4) can be increased up to 500 mm. Model name changes consequently.

Power dissipation – HT glass fiber reinforced polyester resin enclosures

Enclosure types (polyester)		Maximum power dissipation (W) – Tamb. up to **40**°C							
		INTERNAL TEMP.60°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)	INTERNAL TEMP.127°C (T4/T135°C)
AQ-080806P-HT	EFE-080806-HT	3,5	5,2	7,0	7,8	9,6	10,4	11,3	15,2
AQ-080808P-HT	EFE-080808-HT	4,6	6,8	9,1	10,2	12,5	13,7	14,8	19,8
AR-081106P-HT	EFE-081106-HT	4,3	6,4	8,5	9,6	11,8	12,8	13,9	18,6
AR-081108P-HT	EFE-081108-HT	5,6	8,4	11,2	12,6	15,3	16,7	18,1	24,2
AR-081606P-HT	EFE-081606-HT	5,8	8,7	11,6	13,0	15,9	17,4	18,8	25.2
AR-081608P-HT	EFE-081608-HT	6,8	10,2	13,7	15,4	18,8	20,5	22,2	29,7
AR-081906P-HT	EFE-081906-HT	6,4	9,6	12,8	14,4	17,6	19,2	20,8	27,8
AR-081908P-HT	EFE-081908-HT	7,5	11,3	15,1	17,0	20,7	22,6	24,5	32,7
AR-082306P-HT	EFE-082306-HT	7,2	10,8	14,4	16,2	19,8	21,6	23,4	31,3
AR-082308P-HT	EFE-082308-HT	8,5	12,7	16,9	19,0	23,3	25,4	27,5	36,7
AQ-121209P-HT	EFE-121209-HT	8,0	12,0	15,9	17,9	21,9	23,9	25,9	34,7
AR-122209P-HT	EFE-122209-HT	10,8	16,2	21,6	24,3	29,7	32,4	35,1	47,0
AQ-161609P-HT	EFE-161609-HT	10,4	15,6	20,8	23,4	28,6	31,2	33,8	45,2
AR-162609P-HT	EFE-162609-HT	13,4	20,1	26,8	30,2	36,9	40,2	43,6	58,3
AR-163609P-HT	EFE-163609-HT	16,2	24,3	32,4	36,5	44,6	48,6	52,7	70,5
AR-165609P-HT	EFE-165609-HT	21,4	32,0	42,7	48,1	58,7	64,1	69,4	92,9
AQ-202017P-HT	EFE-202017-HT	18,0	26,9	35,9	40,4	49,4	53,9	58,4	78,1
AR-203017P-HT	EFE-203017-HT	20,9	31,3	41,7	47,0	57,4	62,6	67,8	90,8
AQ-252612P-HT	EFE-252612-HT	18,8	28,2	37,6	42,4	51,8	56,5	61,2	81,9
AQ-252616P-HT	EFE-252616-HT	20,8	31,1	41,5	46,7	57,1	62,3	67,5	90,3
AR-254012P-HT	EFE-254012-HT	22,8	34,2	45,7	51,4	62,8	68,5	74,2	99,3
AR-254016P-HT	EFE-254016-HT	26,2	39,3	52,4	58,9	72,0	78,6	85,1	113,9
AR-256012P-HT	EFE-256012-HT	29,0	43,6	58,1	65,3	79,9	87,1	94,4	126,3
AR-304020P-HT	EFE-304020-HT	32,3	48,5	64,7	72,7	88,9	97,0	105,1	140,7
AQ-363609P-HT	EFE-363609-HT	23,0	34,6	46,1	51,8	63,4	69,1	74,9	100,2
AR-406025P-HT	EFE-406025-HT	50,3	75,5	100,7	113,3	138,4	151,0	163,6	218,9
AQ-414012P-HT	EFE-414012-HT	29,1	43,7	58,2	65,5	80,1	87,3	94,6	126,6
AQ-414020P-HT	EFE-414020-HT	36,6	55,0	73,3	82,4	100,8	109,9	119,1	159,4

Enclosure types (polyester)		Maximum power dissipation (W) – Tamb. up to **50**°C							
		INTERNAL TEMP.60°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)	INTERNAL TEMP.127°C (T4/T135°C)
AQ-080806P-HT	EFE-080806-HT	1,7	3,5	5,2	6,1	7,8	8,7	9,6	13,4
AQ-080808P-HT	EFE-080808-HT	2,3	4,6	6,8	8,0	10,2	11,4	12,5	17,5
AR-081106P-HT	EFE-081106-HT	2,1	4,3	6,4	7,5	9,6	10,7	11,8	16,5
AR-081108P-HT	EFE-081108-HT	2,8	5,6	8,4	9,8	12,6	13,9	15,3	21.5
AR-081606P-HT	EFE-081606-HT	2,9	5,8	8,7	10,1	13,0	14,5	15,9	22,3
AR-081608P-HT	EFE-081608-HT	3,4	6,8	10,2	11,9	15,4	17,1	18,8	26,3
AR-081906P-HT	EFE-081906-HT	3,2	6,4	9,6	11,2	14,4	16,0	17,6	24,6
AR-081908P-HT	EFE-081908-HT	3,8	7,5	11,3	13,2	17,0	18,8	20,7	29,0
AR-082306P-HT	EFE-082306-HT	3,6	7,2	10,8	12,6	16,2	18,0	19,8	27,7
AR-082308P-HT	EFE-082308-HT	4,2	8,5	12,7	14,8	19,0	21,1	23,3	32,5
AQ-121209P-HT	EFE-121209-HT	4,0	8,0	12,0	14,0	17,9	19,9	21,9	30,7
AR-122209P-HT	EFE-122209-HT	5,4	10,8	16,2	18,9	24,3	27,0	29,7	41,6
AQ-161609P-HT	EFE-161609-HT	5,2	10,4	15,6	18,2	23,4	26,0	28,6	40,0
AR-162609P-HT	EFE-162609-HT	6,7	13,4	20,1	23,5	30,2	33,5	36,9	51,6
AR-163609P-HT	EFE-163609-HT	8,1	16,2	24,3	28,4	36,5	40,5	44,6	62,3
AR-165609P-HT	EFE-165609-HT	10,7	21,4	32,0	37,4	48,1	53,4	58,7	82,2
AQ-202017P-HT	EFE-202017-HT	9,0	18,0	26,9	31,4	40,4	44,9	49,4	69,1
AR-203017P-HT	EFE-203017-HT	10,4	20,9	31,3	36,5	47,0	52,2	57,4	80,4
AQ-252612P-HT	EFE-252612-HT	9,4	18,8	28,2	32,9	42,4	47,1	51,8	72,5
AQ-252616P-HT	EFE-252616-HT	10,4	20,8	31,1	36,3	46,7	51,9	57,1	79,9
AR-254012P-HT	EFE-254012-HT	11,4	22,8	34,2	39,9	51,4	57,1	62,8	87,9
AR-254016P-HT	EFE-254016-HT	13,1	26,2	39,3	45,8	58,9	65,5	72,0	100,8
AR-256012P-HT	EFE-256012-HT	14,5	29,0	43,6	50,8	65,3	72,6	79,9	111,8
AR-304020P-HT	EFE-304020-HT	16,2	32,3	48,5	56,6	72,7	80,8	88,9	124,4
AQ-363609P-HT	EFE-363609-HT	11,5	23,0	34,6	40,3	51,8	57,6	63,4	88,7
AR-406025P-HT	EFE-406025-HT	25,2	50,3	75,5	88,1	113,3	125,8	138,4	193,8
AQ-414012P-HT	EFE-414012-HT	14,6	29,1	43,7	51,0	65,5	72,8	80,1	112,1
AQ-414020P-HT	EFE-414020-HT	18,3	36,6	55,0	64,1	82,4	91,6	100,8	141,1

Enclosure types (polyester)		Maximum power dissipation (W) – Tamb. up to **55**°C							
		INTERNAL TEMP.65°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)	INTERNAL TEMP.127°C (T4/T135°C)
AQ-080806P-HT	EFE-080806-HT	1,7	2,6	4,4	5,2	7,0	7,8	8,7	12,5
AQ-080808P-HT	EFE-080808-HT	2,3	3,4	5,7	6,8	9,1	10,2	11,4	16,2
AR-081106P-HT	EFE-081106-HT	2,1	3,2	5,3	6,4	8,5	9,6	10,7	15,2
AR-081108P-HT	EFE-081108-HT	2,8	4,2	7,0	8,4	11,2	12,6	13,9	19,8
AR-081606P-HT	EFE-081606-HT	2,9	4,3	7,2	8,7	11,6	13,0	14,5	20,6
AR-081608P-HT	EFE-081608-HT	3,4	5,1	8,5	10,2	13,7	15,4	17,1	24,3
AR-081906P-HT	EFE-081906-HT	3,2	4,8	8,0	9,6	12,8	14,4	16,0	22,8
AR-081908P-HT	EFE-081908-HT	3,8	5,7	9,4	11,3	15,1	17,0	18,8	26,8
AR-082306P-HT	EFE-082306-HT	3,6	5,4	9,0	10,8	14,4	16,2	18,0	25,6
AR-082308P-HT	EFE-082308-HT	4,2	6,3	10,6	12,7	16,9	19,0	21,1	30,0
AQ-121209P-HT	EFE-121209-HT	4,0	6,0	10,0	12,0	15,9	17,9	19,9	28,3
AR-122209P-HT	EFE-122209-HT	5,4	8,1	13,5	16,2	21,6	24,3	27,0	38,3
AQ-161609P-HT	EFE-161609-HT	5,2	7,8	13,0	15,6	20,8	23,4	26,0	36,9
AR-162609P-HT	EFE-162609-HT	6,7	10,1	16,8	20,1	26,8	30,2	33,5	47,6
AR-163609P-HT	EFE-163609-HT	8,1	12,2	20,3	24,3	32,4	36,5	40,5	57,5
AR-165609P-HT	EFE-165609-HT	10,7	16,0	26,7	32,0	42,7	48,1	53,4	75,8
AQ-202017P-HT	EFE-202017-HT	9,0	13,5	22,4	26,9	35,9	40,4	44,9	63,7
AR-203017P-HT	EFE-203017-HT	10,4	15,7	26,1	31,3	41,7	47,0	52,2	74,0
AQ-252612P-HT	EFE-252612-HT	9,4	14,1	23,5	28,2	37,6	42,4	47,1	66,8
AQ-252616P-HT	EFE-252616-HT	10,4	15,6	26,0	31,1	41,5	46,7	51,9	73,7
AR-254012P-HT	EFE-254012-HT	11,4	17,1	28,5	34,2	45,7	51,4	57,1	81,0
AR-254016P-HT	EFE-254016-HT	13,1	19,6	32,7	39,3	52,4	58,9	65,5	92,9
AR-256012P-HT	EFE-256012-HT	14,5	21,8	36,3	43,6	58,1	65,3	72,6	103,0
AR-304020P-HT	EFE-304020-HT	16,2	24,2	40,4	48,5	64,7	72,7	80,8	114,7
AQ-363609P-HT	EFE-363609-HT	11,5	17,3	28,8	34,6	46,1	51,8	57,6	81,8
AR-406025P-HT	EFE-406025-HT	25,2	37,8	62,9	75,5	100,7	113,3	125,8	178,6
AQ-414012P-HT	EFE-414012-HT	14,6	21,8	36,4	43,7	58,2	65,5	72,8	103,0
AQ-414020P-HT	EFE-414020-HT	18,3	27,5	45,8	55,0	73,3	82,4	91,6	130,0

Enclosure types (polyester)		Maximum power dissipation (W) – Tamb. up to **60**°C						
		INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)	INTERNAL TEMP.127°C (T4/T135°C)
AQ-080806P-HT	EFE-080806-HT	1,7	3,5	4,4	6,1	7,0	7,8	11,7
AQ-080808P-HT	EFE-080808-HT	2,3	4,6	5,7	8,0	9,1	10,2	15,2
AR-081106P-HT	EFE-081106-HT	2,1	4,3	5,3	7,5	8,5	9,6	14,3
AR-081108P-HT	EFE-081108-HT	2,8	5,6	7,0	9,8	11,2	12,6	18,7
AR-081606P-HT	EFE-081606-HT	2,9	5,8	7,2	10,1	11,6	13,0	19,4
AR-081608P-HT	EFE-081608-HT	3,4	6,8	8,5	11,9	13,7	15,4	22,9
AR-081906P-HT	EFE-081906-HT	3,2	6,4	8,0	11,2	12,8	14,4	21,4
AR-081908P-HT	EFE-081908-HT	3,8	7,5	9,4	13,2	15,1	17,0	25,3
AR-082306P-HT	EFE-082306-HT	3,6	7,2	9,0	12,6	14,4	16,2	24,1
AR-082308P-HT	EFE-082308-HT	4,2	8,5	10,6	14,8	16,9	19,0	28,3
AQ-121209P-HT	EFE-121209-HT	4,0	8,0	10,0	14,0	15,9	17,9	26,7
AR-122209P-HT	EFE-122209-HT	5,4	10,8	13,5	18,9	21,6	24,3	36,2
AQ-161609P-HT	EFE-161609-HT	5,2	10,4	13,0	18,2	20,8	23,4	34,8
AR-162609P-HT	EFE-162609-HT	6,7	13,4	16,8	23,5	26,8	30,2	44,9
AR-163609P-HT	EFE-163609-HT	8,1	16,2	20,3	28,4	32,4	36,5	54,2
AR-165609P-HT	EFE-165609-HT	10,7	21,4	26,7	37,4	42,7	48,1	71,5
AQ-202017P-HT	EFE-202017-HT	9,0	18,0	22,4	31,4	35,9	40,4	60,1
AR-203017P-HT	EFE-203017-HT	10,4	20,9	26,1	36,5	41,7	47,0	69,9
AQ-252612P-HT	EFE-252612-HT	9,4	18,8	23,5	32,9	37,6	42,4	63,0
AQ-252616P-HT	EFE-252616-HT	10,4	20,8	26,0	36,3	41,5	46,7	69,5
AR-254012P-HT	EFE-254012-HT	11,4	22,8	28,5	39,9	45,7	51,4	76,5
AR-254016P-HT	EFE-254016-HT	13,1	26,2	32,7	45,8	52,4	58,9	87,7
AR-256012P-HT	EFE-256012-HT	14,5	29,0	36,3	50,8	58,1	65,3	97,2
AR-304020P-HT	EFE-304020-HT	16,2	32,3	40,4	56,6	64,7	72,7	108,3
AQ-363609P-HT	EFE-363609-HT	11,5	23,0	28,8	40,3	46,1	51,8	77,1
AR-406025P-HT	EFE-406025-HT	25,2	50,3	62,9	88,1	100,7	113,3	168,7
AQ-414012P-HT	EFE-414012-HT	14,6	29,1	36,4	51,0	58,2	65,5	97,5
AQ-414020P-HT	EFE-414020-HT	18,3	36,6	45,8	64,1	73,3	82,4	122,7

Enclosure types (polyester)		Maximum power dissipation (W) Tamb. up to **95**°C		
		INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)	INTERNAL TEMP.127°C (T4/T135°C)
AQ-080806P-HT	EFE-080806-HT	0,9	1,7	5,6
AQ-080808P-HT	EFE-080808-HT	1,1	2,3	7,3
AR-081106P-HT	EFE-081106-HT	1,1	2,1	6,5
AR-081108P-HT	EFE-081108-HT	1,4	2,8	9,0
AR-081606P-HT	EFE-081606-HT	1,4	2,9	9,2
AR-081608P-HT	EFE-081608-HT	1,7	3,4	10,9
AR-081906P-HT	EFE-081906-HT	1,6	3,2	10,2
AR-081908P-HT	EFE-081908-HT	1,9	3,8	12,1
AR-082306P-HT	EFE-082306-HT	1,8	3,6	11,5
AR-082308P-HT	EFE-082308-HT	2,1	4,2	13,5
AQ-121209P-HT	EFE-121209-HT	2,0	4,0	12,8
AR-122209P-HT	EFE-122209-HT	2,7	5,4	17,3
AQ-161609P-HT	EFE-161609-HT	2,6	5,2	16,6
AR-162609P-HT	EFE-162609-HT	3,4	6,7	21,5
AR-163609P-HT	EFE-163609-HT	4,1	8,1	26,0
AR-165609P-HT	EFE-165609-HT	5,3	10,7	34,2
AQ-202017P-HT	EFE-202017-HT	4,5	9,0	28,7
AR-203017P-HT	EFE-203017-HT	5,2	10,4	33,4
AQ-252612P-HT	EFE-252612-HT	4,7	9,4	30,1
AQ-252616P-HT	EFE-252616-HT	5,2	10,4	33,2
AR-254012P-HT	EFE-254012-HT	5,7	11,4	36,5
AR-254016P-HT	EFE-254016-HT	6,5	13,1	41,9
AR-256012P-HT	EFE-256012-HT	7,3	14,5	46,4
AR-304020P-HT	EFE-304020-HT	8,1	16,2	51,8
AQ-363609P-HT	EFE-363609-HT	5,8	11,5	36,8
AR-406025P-HT	EFE-406025-HT	12,6	25,2	80,6
AQ-414012P-HT	EFE-414012-HT	7,3	14,6	46,6
AQ-414020P-HT	EFE-414020-HT	9,2	18,3	58,6

Power dissipation – HT aluminium alloy enclosures

Enclosure types (aluminium)		Maximum power dissipation (W) – Tamb. up to **40**°C							
		INTERNAL TEMP.60°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)	INTERNAL TEMP.130°C (T4/T135°C)
AQ-080806AL-HT	EFXE-080806AL-HT	5,2	7,8	10,4	11,7	14,3	15,6	16,9	23,4
AR-081306AL-HT	EFXE-081306AL-HT	7,0	10,6	14,1	15,9	19,4	21,2	23,0	31,8
AR-081806AL-HT	EFXE-081806AL-HT	8,9	13,3	17,8	20,0	24,5	26,7	28,9	40,0
AR-082505AL-HT	EFXE-082505AL-HT	10,9	16,4	21,9	24,7	30,1	32,9	35,6	49,4
AQ-101008AL-HT	EFXE-101008AL-HT	8,7	13,0	17,4	19,6	23,9	26,1	28,3	39,2
AR-101608AL-HT	EFXE-101608AL-HT	11,5	17,3	23,1	26,0	31,8	34,7	37,6	52,0
AR-102008AL-HT	EFXE-102008AL-HT	13,4	20,1	26,8	30,2	36,9	40,3	43,6	60,4
AQ-121208AL-HT	EFXE-121208AL-HT	10,8	16,2	21,6	24,3	29,7	32,4	35,1	48,6
AQ-121209AL-HT	EFXE-121209AL-HT	11,6	17,5	23,3	26,2	32,1	35,0	37,9	52,5
AR-122208AL-HT	EFXE-122208AL-HT	15,6	23,5	31,3	35,3	43,1	47,0	50,9	70,6
AR-122209AL-HT	EFXE-122209AL-HT	16,8	25,3	33,7	37,9	46,3	50,6	54,8	75,9
AR-123608AL-HT	EFXE-123608AL-HT	22,3	33,5	44,7	50,3	61,5	67,1	72,7	100,7
AQ-141409AL-HT	EFXE-141409AL-HT	13,7	20,6	27,5	31,0	37,9	41,3	44,8	62,0
AR-142009AL-HT	EFXE-142009AL-HT	17,1	25,7	34,2	38,5	47,1	51,4	55,7	77,1
AQ-161609AL-HT	EFXE-161609AL-HT	16,1	24,1	32,2	36,2	44,2	48,3	52,3	72,4
AR-162609AL-HT	EFXE-162609AL-HT	21,9	32,8	43,8	49,3	60,2	65,7	71,2	98,6
AR-163609AL-HT	EFXE-163609AL-HT	27,5	41,3	55,1	62,0	75,7	82,6	89,5	124,0
AR-165609AL-HT	EFXE-165609AL-HT	38,4	57,7	76,9	86,6	105,8	115,4	125,0	173,2
AQ-181810AL-HT	EFXE-181810AL-HT	19,7	29,6	39,5	44,4	54,3	59,2	64,2	88,8
AR-182810AL-HT	EFXE-182810AL-HT	26,1	39,1	52,2	58,7	71,8	78,3	84,8	117,5
AR-102311AL-HT	EFXE-102311AL-HT	18,2	27,3	36,5	41,0	50,1	54,7	59,3	82,1
AR-202311AL-HT	EFXE-202311AL-HT	26,1	39,1	52,2	58,7	71,7	78,3	84,8	117,4
AR-202318AL-HT	EFXE-202318AL-HT	35,9	53,9	71,8	80,8	98,8	107,8	116,8	161,7
AR-232811AL-HT	EFXE-232811AL-HT	31,6	47,5	63,3	71,3	87,1	95,0	103,0	142,6
AR-233311AL-HT	EFXE-233311AL-HT	35,3	52,9	70,6	79,4	97,0	105,9	114,7	158,8
AR-233318AL-HT	EFXE-233318AL-HT	47,5	71,3	95,1	107,0	130,8	142,7	154,6	214,1
AR-234011AL-HT	EFXE-234011AL-HT	40,2	60,4	80,5	90,6	110,7	120,8	130,9	181,2
AR-234023AL-HT	EFXE-234023AL-HT	62,2	93,3	124,5	140,0	171,2	186,7	202,3	280,1
AR-236011AL-HT	EFXE-236011AL-HT	54,1	81,2	108,3	121,9	148,9	162,5	176,0	243,8
AR-314011AL-HT	EFXE-314011AL-HT	48,6	72,9	97,2	109,3	133,6	145,8	157,9	218,7
AR-314014AL-HT	EFXE-314014AL-HT	54,9	82,4	109,9	123,7	151,2	164,9	178,7	247,4
AR-314018AL-HT	EFXE-314018AL-HT	63,8	95,7	127,6	143,5	175,4	191,4	207,3	287,1
AR-314023AL-HT	EFXE-314023AL-HT	73,5	110,3	147,1	165,5	202,3	220,7	239,1	331,0
AR-316011AL-HT	EFXE-316011AL-HT	64,0	96,0	128,1	144,1	176,1	192,1	208,1	288,2
AR-316018AL-HT	EFXE-316018AL-HT	82,7	124,1	165,5	186,2	227,6	248,3	268,9	372,4
AQ-606020AL-HT	EFXE-606020AL-HT	129,1	193,7	258,3	290,5	355,1	387,4	419,7	581,1

Enclosure types (aluminium)		Maximum power dissipation (W) – Tamb. up to **50**°C							
		INTERNAL TEMP.60°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)	INTERNAL TEMP.130°C (T4/T135°C)
AQ-080806AL-HT	EFXE-080806AL-HT	2,6	5,2	7,8	9,1	11,7	13,0	14,3	20,8
AR-081306AL-HT	EFXE-081306AL-HT	3,5	7,0	10,6	12,3	15,9	17,7	19,4	28,3
AR-081806AL-HT	EFXE-081806AL-HT	4,4	8,9	13,3	15,5	20,0	22,2	24,5	35,6
AR-082505AL-HT	EFXE-082505AL-HT	5,4	10,9	16,4	19,2	24,7	27,4	30,1	43,9
AQ-101008AL-HT	EFXE-101008AL-HT	4,3	8,7	13,0	15,2	19,6	21,7	23,9	34,8
AR-101608AL-HT	EFXE-101608AL-HT	5,7	11,5	17,3	20,2	26,0	28,9	31,8	46,2
AR-102008AL-HT	EFXE-102008AL-HT	6,7	13,4	20,1	23,5	30,2	33,5	36,9	53,7
AQ-121208AL-HT	EFXE-121208AL-HT	5,4	10,8	16,2	18,9	24,3	27,0	29,7	43,2
AQ-121209AL-HT	EFXE-121209AL-HT	5,8	11,6	17,5	20,4	26,2	29,2	32,1	46,7
AR-122208AL-HT	EFXE-122208AL-HT	7,8	15,6	23,5	27,4	35,3	39,2	43,1	62,7
AR-122209AL-HT	EFXE-122209AL-HT	8,4	16,8	25,3	29,5	37,9	42,1	46,3	67,4
AR-123608AL-HT	EFXE-123608AL-HT	11,1	22,3	33,5	39,1	50,3	55,9	61,5	89,5
AQ-141409AL-HT	EFXE-141409AL-HT	6,8	13,7	20,6	24,1	31,0	34,4	37,9	55,1
AR-142009AL-HT	EFXE-142009AL-HT	8,5	17,1	25,7	30,0	38,5	42,8	47,1	68,5
AQ-161609AL-HT	EFXE-161609AL-HT	8,0	16,1	24,1	28,1	36,2	40,2	44,2	64,4
AR-162609AL-HT	EFXE-162609AL-HT	10,9	21,9	32,8	38,3	49,3	54,8	60,2	87,6
AR-163609AL-HT	EFXE-163609AL-HT	13,7	27,5	41,3	48,2	62,0	68,9	75,7	110,2
AR-165609AL-HT	EFXE-165609AL-HT	19,2	38,4	57,7	67,3	86,6	96,2	105,8	153,9
AQ-181810AL-HT	EFXE-181810AL-HT	9,8	19,7	29,6	34,5	44,4	49,3	54,3	79,0
AR-182810AL-HT	EFXE-182810AL-HT	13,0	26,1	39,1	45,7	58,7	65,2	71,8	104,4
AR-102311AL-HT	EFXE-102311AL-HT	9,1	18,2	27,3	31,9	41,0	45,6	50,1	73,0
AR-202311AL-HT	EFXE-202311AL-HT	13,0	26,1	39,1	45,6	58,7	65,2	71,7	104,4
AR-202318AL-HT	EFXE-202318AL-HT	17,9	35,9	53,9	62,8	80,8	89,8	98,8	143,7
AR-232811AL-HT	EFXE-232811AL-HT	15,8	31,6	47,5	55,4	71,3	79,2	87,1	126,7
AR-233311AL-HT	EFXE-233311AL-HT	17,6	35,3	52,9	61,7	79,4	88,2	97,0	141,2
AR-233318AL-HT	EFXE-233318AL-HT	23,7	47,5	71,3	83,2	107,0	118,9	130,8	190,3
AR-234011AL-HT	EFXE-234011AL-HT	20,1	40,2	60,4	70,5	90,6	100,7	110,7	161,1
AR-234023AL-HT	EFXE-234023AL-HT	31,1	62,2	93,3	108,9	140,0	155,6	171,2	249,0
AR-236011AL-HT	EFXE-236011AL-HT	27,0	54,1	81,2	94,8	121,9	135,4	148,9	216,7
AR-314011AL-HT	EFXE-314011AL-HT	24,3	48,6	72,9	85,0	109,3	121,5	133,6	194,4
AR-314014AL-HT	EFXE-314014AL-HT	27,4	54,9	82,4	96,2	123,7	137,4	151,2	219,9
AR-314018AL-HT	EFXE-314018AL-HT	31,9	63,8	95,7	111,6	143,5	159,5	175,4	255,2
AR-314023AL-HT	EFXE-314023AL-HT	36,7	73,5	110,3	128,7	165,5	183,9	202,3	294,2
AR-316011AL-HT	EFXE-316011AL-HT	32,0	64,0	96,0	112,0	144,1	160,1	176,1	256,2
AR-316018AL-HT	EFXE-316018AL-HT	41,3	82,7	124,1	144,8	186,2	206,9	227,6	331,0
AQ-606020AL-HT	EFXE-606020AL-HT	64,5	129,1	193,7	226,0	290,5	322,8	355,1	516,6

Enclosure types (aluminium)		Maximum power dissipation (W) – Tamb. up to **55**°C							
		INTERNAL TEMP.65°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)	INTERNAL TEMP.130°C (T4/T135°C)
AQ-080806AL-HT	EFXE-080806AL-HT	2,6	3,9	6,5	7,8	10,4	11,7	13,0	19,5
AR-081306AL-HT	EFXE-081306AL-HT	3,5	5,3	8,8	10,6	14,1	15,9	17,7	26,5
AR-081806AL-HT	EFXE-081806AL-HT	4,4	6,6	11,1	13,3	17,8	20,0	22,2	33,4
AR-082505AL-HT	EFXE-082505AL-HT	5,4	8,2	13,7	16,4	21,9	24,7	27,4	41,1
AQ-101008AL-HT	EFXE-101008AL-HT	4,3	6,5	10,8	13,0	17,4	19,6	21,7	32,6
AR-101608AL-HT	EFXE-101608AL-HT	5,7	8,6	14,4	17,3	23,1	26,0	28,9	43,3
AR-102008AL-HT	EFXE-102008AL-HT	6,7	10,0	16,7	20,1	26,8	30,2	33,5	50,3
AQ-121208AL-HT	EFXE-121208AL-HT	5,4	8,1	13,5	16,2	21,6	24,3	27,0	40,5
AQ-121209AL-HT	EFXE-121209AL-HT	5,8	8,7	14,6	17,5	23,3	26,2	29,2	43,8
AR-122208AL-HT	EFXE-122208AL-HT	7,8	11,7	19,6	23,5	31,3	35,3	39,2	58,8
AR-122209AL-HT	EFXE-122209AL-HT	8,4	12,6	21,0	25,3	33,7	37,9	42,1	63,2
AR-123608AL-HT	EFXE-123608AL-HT	11,1	16,7	27,9	33,5	44,7	50,3	55,9	83,9
AQ-141409AL-HT	EFXE-141409AL-HT	6,8	10,3	17,2	20,6	27,5	31,0	34,4	51,7
AR-142009AL-HT	EFXE-142009AL-HT	8,5	12,8	21,4	25,7	34,2	38,5	42,8	64,3
AQ-161609AL-HT	EFXE-161609AL-HT	8,0	12,0	20,1	24,1	32,2	36,2	40,2	60,4
AR-162609AL-HT	EFXE-162609AL-HT	10,9	16,4	27,4	32,8	43,8	49,3	54,8	82,2
AR-163609AL-HT	EFXE-163609AL-HT	13,7	20,6	34,4	41,3	55,1	62,0	68,9	103,3
AR-165609AL-HT	EFXE-165609AL-HT	19,2	28,8	48,1	57,7	76,9	86,6	96,2	144,3
AQ-181810AL-HT	EFXE-181810AL-HT	9,8	14,8	24,6	29,6	39,5	44,4	49,3	74,0
AR-182810AL-HT	EFXE-182810AL-HT	13,0	19,5	32,6	39,1	52,2	58,7	65,2	97,9
AR-102311AL-HT	EFXE-102311AL-HT	9,1	13,6	22,8	27,3	36,5	41,0	45,6	68,4
AR-202311AL-HT	EFXE-202311AL-HT	13,0	19,5	32,6	39,1	52,2	58,7	65,2	97,9
AR-202318AL-HT	EFXE-202318AL-HT	17,9	26,9	44,9	53,9	71,8	80,8	89,8	134,7
AR-232811AL-HT	EFXE-232811AL-HT	15,8	23,7	39,6	47,5	63,3	71,3	79,2	118,8
AR-233311AL-HT	EFXE-233311AL-HT	17,6	26,4	44,1	52,9	70,6	79,4	88,2	132,3
AR-233318AL-HT	EFXE-233318AL-HT	23,7	35,6	59,4	71,3	95,1	107,0	118,9	178,4
AR-234011AL-HT	EFXE-234011AL-HT	20,1	30,2	50,3	60,4	80,5	90,6	100,7	151,0
AR-234023AL-HT	EFXE-234023AL-HT	31,1	46,6	77,8	93,3	124,5	140,0	155,6	233,4
AR-236011AL-HT	EFXE-236011AL-HT	27,0	40,6	67,7	81,2	108,3	121,9	135,4	203,1
AR-314011AL-HT	EFXE-314011AL-HT	24,3	36,4	60,7	72,9	97,2	109,3	121,5	182,3
AR-314014AL-HT	EFXE-314014AL-HT	27,4	41,2	68,7	82,4	109,9	123,7	137,4	206,2
AR-314018AL-HT	EFXE-314018AL-HT	31,9	47,8	79,7	95,7	127,6	143,5	159,5	239,2
AR-314023AL-HT	EFXE-314023AL-HT	36,7	55,1	91,9	110,3	147,1	165,5	183,9	275,8
AR-316011AL-HT	EFXE-316011AL-HT	32,0	48,0	80,0	96,0	128,1	144,1	160,1	240,1
AR-316018AL-HT	EFXE-316018AL-HT	41,3	62,0	103,4	124,1	165,5	186,2	206,9	310,3
AQ-606020AL-HT	EFXE-606020AL-HT	64,5	96,8	161,4	193,7	258,3	290,5	322,8	484,3

Enclosure types (aluminium)		Maximum power dissipation (W) – Tamb. up to **60**°C						
		INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)	INTERNAL TEMP.130°C (T4/T135°C)
AQ-080806AL-HT	EFXE-080806AL-HT	2,6	5,2	6,5	9,1	10,4	11,7	18,2
AR-081306AL-HT	EFXE-081306AL-HT	3,5	7,0	8,8	12,3	14,1	15,9	24,7
AR-081806AL-HT	EFXE-081806AL-HT	4,4	8,9	11,1	15,5	17,8	20,0	31,1
AR-082505AL-HT	EFXE-082505AL-HT	5,4	10,9	13,7	19,2	21,9	24,7	38,4
AQ-101008AL-HT	EFXE-101008AL-HT	4,3	8,7	10,8	15,2	17,4	19,6	30,4
AR-101608AL-HT	EFXE-101608AL-HT	5,7	11,5	14,4	20,2	23,1	26,0	40,5
AR-102008AL-HT	EFXE-102008AL-HT	6,7	13,4	16,7	23,5	26,8	30,2	47,0
AQ-121208AL-HT	EFXE-121208AL-HT	5,4	10,8	13,5	18,9	21,6	24,3	37,8
AQ-121209AL-HT	EFXE-121209AL-HT	5,8	11,6	14,6	20,4	23,3	26,2	40,8
AR-122208AL-HT	EFXE-122208AL-HT	7,8	15,6	19,6	27,4	31,3	35,3	54,9
AR-122209AL-HT	EFXE-122209AL-HT	8,4	16,8	21,0	29,5	33,7	37,9	59,0
AR-123608AL-HT	EFXE-123608AL-HT	11,1	22,3	27,9	39,1	44,7	50,3	78,3
AQ-141409AL-HT	EFXE-141409AL-HT	6,8	13,7	17,2	24,1	27,5	31,0	48,2
AR-142009AL-HT	EFXE-142009AL-HT	8,5	17,1	21,4	30,0	34,2	38,5	60,0
AQ-161609AL-HT	EFXE-161609AL-HT	8,0	16,1	20,1	28,1	32,2	36,2	56,3
AR-162609AL-HT	EFXE-162609AL-HT	10,9	21,9	27,4	38,3	43,8	49,3	76,7
AR-163609AL-HT	EFXE-163609AL-HT	13,7	27,5	34,4	48,2	55,1	62,0	96,4
AR-165609AL-HT	EFXE-165609AL-HT	19,2	38,4	48,1	67,3	76,9	86,6	134,7
AQ-181810AL-HT	EFXE-181810AL-HT	9,8	19,7	24,6	34,5	39,5	44,4	69,1
AR-182810AL-HT	EFXE-182810AL-HT	13,0	26,1	32,6	45,7	52,2	58,7	91,4
AR-102311AL-HT	EFXE-102311AL-HT	9,1	18,2	22,8	31,9	36,5	41,0	63,8
AR-202311AL-HT	EFXE-202311AL-HT	13,0	26,1	32,6	45,6	52,2	58,7	91,3
AR-202318AL-HT	EFXE-202318AL-HT	17,9	35,9	44,9	62,8	71,8	80,8	125,7
AR-232811AL-HT	EFXE-232811AL-HT	15,8	31,6	39,6	55,4	63,3	71,3	110,9
AR-233311AL-HT	EFXE-233311AL-HT	17,6	35,3	44,1	61,7	70,6	79,4	123,5
AR-233318AL-HT	EFXE-233318AL-HT	23,7	47,5	59,4	83,2	95,1	107,0	166,5
AR-234011AL-HT	EFXE-234011AL-HT	20,1	40,2	50,3	70,5	80,5	90,6	141,0
AR-234023AL-HT	EFXE-234023AL-HT	31,1	62,2	77,8	108,9	124,5	140,0	217,9
AR-236011AL-HT	EFXE-236011AL-HT	27,0	54,1	67,7	94,8	108,3	121,9	189,6
AR-314011AL-HT	EFXE-314011AL-HT	24,3	48,6	60,7	85,0	97,2	109,3	170,1
AR-314014AL-HT	EFXE-314014AL-HT	27,4	54,9	68,7	96,2	109,9	123,7	192,4
AR-314018AL-HT	EFXE-314018AL-HT	31,9	63,8	79,7	111,6	127,6	143,5	223,3
AR-314023AL-HT	EFXE-314023AL-HT	36,7	73,5	91,9	128,7	147,1	165,5	257,4
AR-316011AL-HT	EFXE-316011AL-HT	32,0	64,0	80,0	112,0	128,1	144,1	224,1
AR-316018AL-HT	EFXE-316018AL-HT	41,3	82,7	103,4	144,8	165,5	186,2	289,6
AQ-606020AL-HT	EFXE-606020AL-HT	64,5	129,1	161,4	226,0	258,3	290,5	452,0

Enclosure types (aluminium)		Maximum power dissipation (W) Tamb. up to **95**°C		
		INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)	INTERNAL TEMP.130°C (T4/T135°C)
AQ-080806AL-HT	EFXE-080806AL-HT	1,3	2,6	9,1
AR-081306AL-HT	EFXE-081306AL-HT	1,7	3,5	12,3
AR-081806AL-HT	EFXE-081806AL-HT	2,2	4,4	15,5
AR-082505AL-HT	EFXE-082505AL-HT	2,7	5,4	19,2
AQ-101008AL-HT	EFXE-101008AL-HT	2,1	4,3	15,2
AR-101608AL-HT	EFXE-101608AL-HT	2,8	5,7	20,2
AR-102008AL-HT	EFXE-102008AL-HT	3,3	6,7	23,5
AQ-121208AL-HT	EFXE-121208AL-HT	2,7	5,4	18,9
AQ-121209AL-HT	EFXE-121209AL-HT	2,9	5,8	20,4
AR-122208AL-HT	EFXE-122208AL-HT	3,9	7,8	27,4
AR-122209AL-HT	EFXE-122209AL-HT	4,2	8,4	29,5
AR-123608AL-HT	EFXE-123608AL-HT	5,5	11,1	39,1
AQ-141409AL-HT	EFXE-141409AL-HT	3,4	6,8	24,1
AR-142009AL-HT	EFXE-142009AL-HT	4,2	8,5	30,0
AQ-161609AL-HT	EFXE-161609AL-HT	4,0	8,0	28,1
AR-162609AL-HT	EFXE-162609AL-HT	5,4	10,9	38,3
AR-163609AL-HT	EFXE-163609AL-HT	6,8	13,7	48,2
AR-165609AL-HT	EFXE-165609AL-HT	9,6	19,2	67,3
AQ-181810AL-HT	EFXE-181810AL-HT	4,9	9,8	34,5
AR-182810AL-HT	EFXE-182810AL-HT	6,5	13,0	45,7
AR-102311AL-HT	EFXE-102311AL-HT	4,5	9,1	31,9
AR-202311AL-HT	EFXE-202311AL-HT	6,5	13,0	45,6
AR-202318AL-HT	EFXE-202318AL-HT	8,9	17,9	62,8
AR-232811AL-HT	EFXE-232811AL-HT	7,9	15,8	55,4
AR-233311AL-HT	EFXE-233311AL-HT	8,8	17,6	61,7
AR-233318AL-HT	EFXE-233318AL-HT	11,8	23,7	83,2
AR-234011AL-HT	EFXE-234011AL-HT	10,0	20,1	70,5
AR-234023AL-HT	EFXE-234023AL-HT	15,5	31,1	108,9
AR-236011AL-HT	EFXE-236011AL-HT	13,5	27,0	94,8
AR-314011AL-HT	EFXE-314011AL-HT	12,1	24,3	85,0
AR-314014AL-HT	EFXE-314014AL-HT	13,7	27,4	96,2
AR-314018AL-HT	EFXE-314018AL-HT	15,9	31,9	111,6
AR-314023AL-HT	EFXE-314023AL-HT	18,3	36,7	128,7
AR-316011AL-HT	EFXE-316011AL-HT	16,0	32,0	112,0
AR-316018AL-HT	EFXE-316018AL-HT	20,6	41,3	144,8
AQ-606020AL-HT	EFXE-606020AL-HT	32,2	64,5	226,0

Power dissipation – Glass fiber reinforced polyester resin enclosures

Enclosure types (polyester)		Maximum power dissipation (W) – Tamb. up to **40**°C						
		INTERNAL TEMP.60°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
AQ-080806P	EFE-080806	3,4	5,2	6,9	7,8	9,5	10,4	11,3
AQ-080808P	EFE-080808	4,5	6,8	9,1	10,2	12,5	13,6	14,7
AR-081106P	EFE-081106	4,2	6,4	8,5	9,6	11,7	12,8	13,8
AR-081606P	EFE-081606	5,7	8,6	11,5	13,0	15,9	17,3	18,8
AR-081906P	EFE-081906	6,4	9,6	12,8	14,4	17,6	19,2	20,8
AQ-121209P	EFE-121209	7,9	11,9	15,9	17,9	21,9	23,9	25,9
AR-122209P	EFE-122209	10,8	16,2	21,6	24,3	29,7	32,4	35,1
AQ-161609P	EFE-161609	10,3	15,5	20,7	23,3	28,5	31,1	33,7
AR-162609P	EFE-162609	13,4	20,1	26,8	30,1	36,8	40,2	43,5
AR-163609P	EFE-163609	16,2	24,3	32,4	36,4	44,5	48,6	52,6
AQ-252612P	EFE-252612	18,8	28,2	37,6	42,3	51,7	56,4	61,1
AQ-252616P	EFE-252616	21,7	32,6	43,5	49,0	59,9	65,3	70,8
AR-254012P	EFE-254012	23,9	35,9	47,9	53,9	65,9	71,8	77,8
AR-254016P	EFE-254016	27,4	41,2	54,9	61,8	75,6	82,4	89,3
AR-256012P	EFE-256012	29,0	43,5	58,0	65,3	79,8	87,1	94,3
AQ-414012P	EFE-414012	29,1	43,6	58,2	65,5	80,0	87,3	94,6
AQ-414016P	EFE-414016	32,9	49,4	65,9	74,1	90,6	98,8	107,0

Enclosure types (polyester)		Maximum power dissipation (W) – Tamb. up to **50**°C						
		INTERNAL TEMP.60°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
AQ-080806P	EFE-080806	1,7	3,4	5,2	6,0	7,8	8,7	9,5
AQ-080808P	EFE-080808	2,2	4,5	6,8	7,9	10,2	11,3	12,5
AR-081106P	EFE-081106	2,1	4,2	6,4	7,4	9,6	10,6	11,7
AR-081606P	EFE-081606	2,8	5,7	8,6	10,1	13,0	14,4	15,9
AR-081906P	EFE-081906	3,2	6,4	9,6	11,2	14,4	16,0	17,6
AQ-121209P	EFE-121209	3,9	7,9	11,9	13,9	17,9	19,9	21,9
AR-122209P	EFE-122209	5,4	10,8	16,2	18,9	24,3	27,0	29,7
AQ-161609P	EFE-161609	5,1	10,3	15,5	18,1	23,3	25,9	28,5
AR-162609P	EFE-162609	6,7	13,4	20,1	23,4	30,1	33,5	36,8
AR-163609P	EFE-163609	8,1	16,2	24,3	28,3	36,4	40,5	44,5
AQ-252612P	EFE-252612	9,4	18,8	28,2	32,9	42,3	47,0	51,7
AQ-252616P	EFE-252616	10,8	21,7	32,6	38,1	49,0	54,4	59,9
AR-254012P	EFE-254012	11,9	23,9	35,9	41,9	53,9	59,9	65,9
AR-254016P	EFE-254016	13,7	27,4	41,2	48,1	61,8	68,7	75,6
AR-256012P	EFE-256012	14,5	29,0	43,5	50,8	65,3	72,6	79,8
AQ-414012P	EFE-414012	14,5	29,1	43,6	50,9	65,5	72,7	80,0
AQ-414016P	EFE-414016	16,4	32,9	49,4	57,6	74,1	82,3	90,6

Enclosure types (polyester)		Maximum power dissipation (W) – Tamb. up to **55**°C						
		INTERNAL TEMP.65°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
AQ-080806P	EFE-080806	1,7	2,6	4,3	5,2	6,9	7,8	8,7
AQ-080808P	EFE-080808	2,2	3,4	5,6	6,8	9,1	10,2	11,3
AR-081106P	EFE-081106	2,1	3,2	5,3	6,4	8,5	9,6	10,6
AR-081606P	EFE-081606	2,8	4,3	7,2	8,6	11,5	13,0	14,4
AR-081906P	EFE-081906	3,2	4,8	8,0	9,6	12,8	14,4	16,0
AQ-121209P	EFE-121209	3,9	5,9	9,9	11,9	15,9	17,9	19,9
AR-122209P	EFE-122209	5,4	8,1	13,5	16,2	21,6	24,3	27,0
AQ-161609P	EFE-161609	5,1	7,7	12,9	15,5	20,7	23,3	25,9
AR-162609P	EFE-162609	6,7	10,0	16,7	20,1	26,8	30,1	33,5
AR-163609P	EFE-163609	8,1	12,1	20,2	24,3	32,4	36,4	40,5
AQ-252612P	EFE-252612	9,4	14,1	23,5	28,2	37,6	42,3	47,0
AQ-252616P	EFE-252616	10,8	16,3	27,2	32,6	43,5	49,0	54,4
AR-254012P	EFE-254012	11,9	17,9	29,9	35,9	47,9	53,9	59,9
AR-254016P	EFE-254016	13,7	20,6	34,3	41,2	54,9	61,8	68,7
AR-256012P	EFE-256012	14,5	21,7	36,3	43,5	58,0	65,3	72,6
AQ-414012P	EFE-414012	14,5	21,8	36,3	43,6	58,2	65,5	72,7
AQ-414016P	EFE-414016	16,4	24,7	41,1	49,4	65,9	74,1	82,3

Enclosure types (polyester)		Maximum power dissipation (W) – Tamb. up to **60**°C					
		INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
AQ-080806P	EFE-080806	1,7	3,4	4,3	6,0	6,9	7,8
AQ-080808P	EFE-080808	2,2	4,5	5,6	7,9	9,1	10,2
AR-081106P	EFE-081106	2,1	4,2	5,3	7,4	8,5	9,6
AR-081606P	EFE-081606	2,8	5,7	7,2	10,1	11,5	13,0
AR-081906P	EFE-081906	3,2	6,4	8,0	11,2	12,8	14,4
AQ-121209P	EFE-121209	3,9	7,9	9,9	13,9	15,9	17,9
AR-122209P	EFE-122209	5,4	10,8	13,5	18,9	21,6	24,3
AQ-161609P	EFE-161609	5,1	10,3	12,9	18,1	20,7	23,3
AR-162609P	EFE-162609	6,7	13,4	16,7	23,4	26,8	30,1
AR-163609P	EFE-163609	8,1	16,2	20,2	28,3	32,4	36,4
AQ-252612P	EFE-252612	9,4	18,8	23,5	32,9	37,6	42,3
AQ-252616P	EFE-252616	10,8	21,7	27,2	38,1	43,5	49,0
AR-254012P	EFE-254012	11,9	23,9	29,9	41,9	47,9	53,9
AR-254016P	EFE-254016	13,7	27,4	34,3	48,1	54,9	61,8
AR-256012P	EFE-256012	14,5	29,0	36,3	50,8	58,0	65,3
AQ-414012P	EFE-414012	14,5	29,1	36,3	50,9	58,2	65,5
AQ-414016P	EFE-414016	16,4	32,9	41,1	57,6	65,9	74,1

Enclosure types (polyester)		Maximum power dissipation (W) – Tamb. up to **95**°C	
		INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
AQ-080806P	EFE-080806	0,8	1,7
AQ-080808P	EFE-080808	1,1	2,2
AR-081106P	EFE-081106	1,0	2,1
AR-081606P	EFE-081606	1,4	2,8
AR-081906P	EFE-081906	1,6	3,2
AQ-121209P	EFE-121209	1,9	3,9
AR-122209P	EFE-122209	2,7	5,4
AQ-161609P	EFE-161609	2,5	5,1
AR-162609P	EFE-162609	3,3	6,7
AR-163609P	EFE-163609	4,0	8,1
AQ-252612P	EFE-252612	4,7	9,4
AQ-252616P	EFE-252616	5,4	10,8
AR-254012P	EFE-254012	5,9	11,9
AR-254016P	EFE-254016	6,8	13,7
AR-256012P	EFE-256012	7,2	14,5
AQ-414012P	EFE-414012	7,2	14,5
AQ-414016P	EFE-414016	8,2	16,4

Power dissipation – Aluminium alloy enclosures

Enclosure types (aluminium)		Maximum power dissipation (W) – Tamb. up to **40**°C						
		INTERNAL TEMP.60°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
AQ-080806AL	EFXE-080806AL	5,2	7,8	10,4	11,7	14,3	15,6	16,9
AR-081306AL	EFXE-081306AL	7,0	10,6	14,1	15,9	19,4	21,2	23,0
AR-081806AL	EFXE-081806AL	8,9	13,3	17,8	20,0	24,5	26,7	28,9
AR-081808AL	EFXE-081808AL	11,0	16,5	22,1	24,8	30,4	33,1	35,9
AR-082505AL	EFXE-082505AL	10,7	16,1	21,4	24,1	29,5	32,2	34,8
AR-082508AL	EFXE-082508AL	14,2	21,4	28,5	32,1	39,2	42,8	46,4
AQ-101008AL	EFXE-101008AL	8,7	13,0	17,4	19,6	23,9	26,1	28,3
AR-101508AL	EFXE-101508AL	11,1	16,6	22,2	24,9	30,5	33,3	36,0
AR-101608AL	EFXE-101608AL	11,5	17,3	23,1	26,0	31,8	34,7	37,6
AR-102008AL	EFXE-102008AL	13,4	20,1	26,8	30,2	36,9	40,3	43,6
AQ-121208AL	EFXE-121208AL	10,8	16,2	21,6	24,3	29,7	32,4	35,1
AR-122209AL	EFXE-122209AL	16,8	25,3	33,7	37,9	46,3	50,6	54,8
AQ-141409AL	EFXE-141409AL	13,7	20,6	27,5	31,0	37,9	41,3	44,8
AR-142009AL	EFXE-142009AL	17,1	25,7	34,2	38,5	47,1	51,4	55,7
AQ-161609AL	EFXE-161609AL	17,2	25,8	34,4	38,7	47,3	51,6	55,9
AR-162410AL	EFXE-162410AL	22,1	33,1	44,2	49,7	60,8	66,3	71,8
AR-162609AL	EFXE-162609AL	21,9	32,8	43,8	49,3	60,2	65,7	71,2
AQ-181810AL	EFXE-181810AL	19,7	29,6	39,5	44,4	54,3	59,2	64,2
AR-182810AL	EFXE-182810AL	26,1	39,1	52,2	58,7	71,8	78,3	84,8
AR-202311AL	EFXE-202311AL	25,8	38,7	51,6	58,0	71,0	77,4	83,9
AR-202318AL	EFXE-202318AL	35,5	53,3	71,1	80,0	97,8	106,7	115,6
AR-232811AL	EFXE-232811AL	31,6	47,5	63,3	71,3	87,1	95,0	103,0
AR-233312AL	EFXE-233312AL	37,0	55,6	74,1	83,4	101,9	111,2	120,5
AR-233318AL	EFXE-233318AL	47,5	71,3	95,1	107,0	130,8	142,7	154,6

Enclosure types (aluminium)		Maximum power dissipation (W) – Tamb. up to **50**°C						
		INTERNAL TEMP.60°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
AQ-080806AL	EFXE-080806AL	2,6	5,2	7,8	9,1	11,7	13,0	14,3
AR-081306AL	EFXE-081306AL	3,5	7,0	10,6	12,3	15,9	17,7	19,4
AR-081806AL	EFXE-081806AL	4,4	8,9	13,3	15,5	20,0	22,2	24,5
AR-081808AL	EFXE-081808AL	5,5	11,0	16,5	19,3	24,8	27,6	30,4
AR-082505AL	EFXE-082505AL	5,3	10,7	16,1	18,7	24,1	26,8	29,5
AR-082508AL	EFXE-082508AL	7,1	14,2	21,4	24,9	32,1	35,7	39,2
AQ-101008AL	EFXE-101008AL	4,3	8,7	13,0	15,2	19,6	21,7	23,9
AR-101508AL	EFXE-101508AL	5,5	11,1	16,6	19,4	24,9	27,7	30,5
AR-101608AL	EFXE-101608AL	5,7	11,5	17,3	20,2	26,0	28,9	31,8
AR-102008AL	EFXE-102008AL	6,7	13,4	20,1	23,5	30,2	33,5	36,9
AQ-121208AL	EFXE-121208AL	5,4	10,8	16,2	18,9	24,3	27,0	29,7
AR-122209AL	EFXE-122209AL	8,4	16,8	25,3	29,5	37,9	42,1	46,3
AQ-141409AL	EFXE-141409AL	6,8	13,7	20,6	24,1	31,0	34,4	37,9
AR-142009AL	EFXE-142009AL	8,5	17,1	25,7	30,0	38,5	42,8	47,1
AQ-161609AL	EFXE-161609AL	8,6	17,2	25,8	30,1	38,7	43,0	47,3
AR-162410AL	EFXE-162410AL	11,0	22,1	33,1	38,7	49,7	55,3	60,8
AR-162609AL	EFXE-162609AL	10,9	21,9	32,8	38,3	49,3	54,8	60,2
AQ-181810AL	EFXE-181810AL	9,8	19,7	29,6	34,5	44,4	49,3	54,3
AR-182810AL	EFXE-182810AL	13,0	26,1	39,1	45,7	58,7	65,2	71,8
AR-202311AL	EFXE-202311AL	12,9	25,8	38,7	45,1	58,0	64,5	71,0
AR-202318AL	EFXE-202318AL	17,7	35,5	53,3	62,2	80,0	88,9	97,8
AR-232811AL	EFXE-232811AL	15,8	31,6	47,5	55,4	71,3	79,2	87,1
AR-233312AL	EFXE-233312AL	18,5	37,0	55,6	64,8	83,4	92,7	101,9
AR-233318AL	EFXE-233318AL	23,7	47,5	71,3	83,2	107,0	118,9	130,8

Enclosure types (aluminium)		Maximum power dissipation (W) – Tamb. up to **55**°C						
		INTERNAL TEMP.65°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
AQ-080806AL	EFXE-080806AL	2,6	3,9	6,5	7,8	10,4	11,7	13,0
AR-081306AL	EFXE-081306AL	3,5	5,3	8,8	10,6	14,1	15,9	17,7
AR-081806AL	EFXE-081806AL	4,4	6,6	11,1	13,3	17,8	20,0	22,2
AR-081808AL	EFXE-081808AL	5,5	8,2	13,8	16,5	22,1	24,8	27,6
AR-082505AL	EFXE-082505AL	5,3	8,0	13,4	16,1	21,4	24,1	26,8
AR-082508AL	EFXE-082508AL	7,1	10,7	17,8	21,4	28,5	32,1	35,7
AQ-101008AL	EFXE-101008AL	4,3	6,5	10,8	13,0	17,4	19,6	21,7
AR-101508AL	EFXE-101508AL	5,5	8,3	13,8	16,6	22,2	24,9	27,7
AR-101608AL	EFXE-101608AL	5,7	8,6	14,4	17,3	23,1	26,0	28,9
AR-102008AL	EFXE-102008AL	6,7	10,0	16,7	20,1	26,8	30,2	33,5
AQ-121208AL	EFXE-121208AL	5,4	8,1	13,5	16,2	21,6	24,3	27,0
AR-122209AL	EFXE-122209AL	8,4	12,6	21,0	25,3	33,7	37,9	42,1
AQ-141409AL	EFXE-141409AL	6,8	10,3	17,2	20,6	27,5	31,0	34,4
AR-142009AL	EFXE-142009AL	8,5	12,8	21,4	25,7	34,2	38,5	42,8
AQ-161609AL	EFXE-161609AL	8,6	12,9	21,5	25,8	34,4	38,7	43,0
AR-162410AL	EFXE-162410AL	11,0	16,5	27,6	33,1	44,2	49,7	55,3
AR-162609AL	EFXE-162609AL	10,9	16,4	27,4	32,8	43,8	49,3	54,8
AQ-181810AL	EFXE-181810AL	9,8	14,8	24,6	29,6	39,5	44,4	49,3
AR-182810AL	EFXE-182810AL	13,0	19,5	32,6	39,1	52,2	58,7	65,2
AR-202311AL	EFXE-202311AL	12,9	19,3	32,2	38,7	51,6	58,0	64,5
AR-202318AL	EFXE-202318AL	17,7	26,6	44,4	53,3	71,1	80,0	88,9
AR-232811AL	EFXE-232811AL	15,8	23,7	39,6	47,5	63,3	71,3	79,2
AR-233312AL	EFXE-233312AL	18,5	27,8	46,3	55,6	74,1	83,4	92,7
AR-233318AL	EFXE-233318AL	23,7	35,6	59,4	71,3	95,1	107,0	118,9

Enclosure types (aluminium)		Maximum power dissipation (W) – Tamb. up to **60**°C					
		INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
AQ-080806AL	EFXE-080806AL	2,6	5,2	6,5	9,1	10,4	11,7
AR-081306AL	EFXE-081306AL	3,5	7,0	8,8	12,3	14,1	15,9
AR-081806AL	EFXE-081806AL	4,4	8,9	11,1	15,5	17,8	20,0
AR-081808AL	EFXE-081808AL	5,5	11,0	13,8	19,3	22,1	24,8
AR-082505AL	EFXE-082505AL	5,3	10,7	13,4	18,7	21,4	24,1
AR-082508AL	EFXE-082508AL	7,1	14,2	17,8	24,9	28,5	32,1
AQ-101008AL	EFXE-101008AL	4,3	8,7	10,8	15,2	17,4	19,6
AR-101508AL	EFXE-101508AL	5,5	11,1	13,8	19,4	22,2	24,9
AR-101608AL	EFXE-101608AL	5,7	11,5	14,4	20,2	23,1	26,0
AR-102008AL	EFXE-102008AL	6,7	13,4	16,7	23,5	26,8	30,2
AQ-121208AL	EFXE-121208AL	5,4	10,8	13,5	18,9	21,6	24,3
AR-122209AL	EFXE-122209AL	8,4	16,8	21,0	29,5	33,7	37,9
AQ-141409AL	EFXE-141409AL	6,8	13,7	17,2	24,1	27,5	31,0
AR-142009AL	EFXE-142009AL	8,5	17,1	21,4	30,0	34,2	38,5
AQ-161609AL	EFXE-161609AL	8,6	17,2	21,5	30,1	34,4	38,7
AR-162410AL	EFXE-162410AL	11,0	22,1	27,6	38,7	44,2	49,7
AR-162609AL	EFXE-162609AL	10,9	21,9	27,4	38,3	43,8	49,3
AQ-181810AL	EFXE-181810AL	9,8	19,7	24,6	34,5	39,5	44,4
AR-182810AL	EFXE-182810AL	13,0	26,1	32,6	45,7	52,2	58,7
AR-202311AL	EFXE-202311AL	12,9	25,8	32,2	45,1	51,6	58,0
AR-202318AL	EFXE-202318AL	17,7	35,5	44,4	62,2	71,1	80,0
AR-232811AL	EFXE-232811AL	15,8	31,6	39,6	55,4	63,3	71,3
AR-233312AL	EFXE-233312AL	18,5	37,0	46,3	64,8	74,1	83,4
AR-233318AL	EFXE-233318AL	23,7	47,5	59,4	83,2	95,1	107,0

Enclosure types (aluminium)		Maximum power dissipation (W) – Tamb. up to **95**°C	
		INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
AQ-080806AL	EFXE-080806AL	1,3	2,6
AR-081306AL	EFXE-081306AL	1,7	3,5
AR-081806AL	EFXE-081806AL	2,2	4,4
AR-081808AL	EFXE-081808AL	2,7	5,5
AR-082505AL	EFXE-082505AL	2,6	5,3
AR-082508AL	EFXE-082508AL	3,5	7,1
AQ-101008AL	EFXE-101008AL	2,1	4,3
AR-101508AL	EFXE-101508AL	2,7	5,5
AR-101608AL	EFXE-101608AL	2,8	5,7
AR-102008AL	EFXE-102008AL	3,3	6,7
AQ-121208AL	EFXE-121208AL	2,7	5,4
AR-122209AL	EFXE-122209AL	4,2	8,4
AQ-141409AL	EFXE-141409AL	3,4	6,8
AR-142009AL	EFXE-142009AL	4,2	8,5
AQ-161609AL	EFXE-161609AL	4,3	8,6
AR-162410AL	EFXE-162410AL	5,5	11,0
AR-162609AL	EFXE-162609AL	5,4	10,9
AQ-181810AL	EFXE-181810AL	4,9	9,8
AR-182810AL	EFXE-182810AL	6,5	13,0
AR-202311AL	EFXE-202311AL	6,4	12,9
AR-202318AL	EFXE-202318AL	8,8	17,7
AR-232811AL	EFXE-232811AL	7,9	15,8
AR-233312AL	EFXE-233312AL	9,2	18,5
AR-233318AL	EFXE-233318AL	11,8	23,7

Power dissipation – Stainless steel enclosures SB series

Enclosure types (stainless steel)		Maximum power dissipation (W) – Tamb. up to **40**°C						
		INTERNAL TEMP.60°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
SB-101210	EFXE-101210SB	5,5	8,3	11,1	12,5	15,3	16,7	18,1
SB-151510	EFXE-151510SB	8,0	12,0	16,0	18,0	22,0	24,0	26,1
SB-142013	EFXE-142013SB	10,4	15,7	20,9	23,5	28,8	31,4	34,0
SB-202010	EFXE-202010SB	10,7	16,1	21,4	24,1	29,5	32,2	34,8
SB-202016	EFXE-202016SB	13,9	20,8	27,8	31,3	38,3	41,7	45,2
SB-202713	EFXE-202713SB	14,4	21,6	28,9	32,5	39,7	43,3	46,9
SB-272713	EFXE-272713SB	16,7	25,1	33,5	37,7	46,0	50,2	54,4
SB-203016	EFXE-203016SB	17,1	25,7	34,3	38,6	47,2	51,4	55,7
SB-273513	EFXE-273513SB	19,2	28,9	38,5	43,3	53,0	57,8	62,6
SB-282816	EFXE-282816SB	19,3	29,0	38,7	43,6	53,3	58,1	63,0
SB-204016	EFXE-204016SB	20,2	30,3	40,4	45,5	55,6	60,6	65,7
SB-353516	EFXE-353516SB	24,4	36,6	48,8	54,9	67,1	73,2	79,3
SB-282827	EFXE-282827SB	26,2	39,3	52,5	59,0	72,2	78,7	85,3
SB-355016	EFXE-355016SB	29,7	44,5	59,4	66,8	81,7	89,1	96,6
SB-383816	EFXE-383816SB	26,6	39,9	53,2	59,8	73,1	79,8	86,5
SB-384516	EFXE-384516SB	29,1	43,7	58,3	65,6	80,2	87,5	94,8
SB-385716	EFXE-385716SB	33,4	50,1	66,8	75,2	91,9	100,3	108,7
SB-505016	EFXE-505016SB	35,8	53,8	71,7	80,7	98,6	107,6	116,6
SB-383827	EFXE-383827SB	35,1	52,7	70,2	79,0	96,6	105,4	114,2
SB-575716	EFXE-575716SB	41,5	62,3	83,1	93,5	114,3	124,7	135,1
SB-577620	EFXE-577620SB	53,9	80,9	107,9	121,3	148,3	161,8	175,3
SB-575730	EFXE-575730SB	55,8	83,7	111,6	125,6	153,5	167,5	181,4
SB-769520	EFXE-769520SB	72,2	108,3	144,4	162,4	198,5	216,6	234,6
SB-1258040	EFXE-1258040SB	72,2	108,3	144,4	162,4	198,5	216,6	234,6

Enclosure types (Stainless steel)		Maximum power dissipation (W) – Tamb. up to **50**°C						
		INTERNAL TEMP.60°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
SB-101210	EFXE-101210SB	2,7	5,5	8,3	9,7	12,5	13,9	15,3
SB-151510	EFXE-151510SB	4,0	8,0	12,0	14,0	18,0	20,0	22,0
SB-142013	EFXE-142013SB	5,2	10,4	15,7	18,3	23,5	26,2	28,8
SB-202010	EFXE-202010SB	5,3	10,7	16,1	18,7	24,1	26,8	29,5
SB-202016	EFXE-202016SB	6,9	13,9	20,8	24,3	31,3	34,8	38,3
SB-202713	EFXE-202713SB	7,2	14,4	21,6	25,2	32,5	36,1	39,7
SB-272713	EFXE-272713SB	8,3	16,7	25,1	29,3	37,7	41,8	46,0
SB-203016	EFXE-203016SB	8,5	17,1	25,7	30,0	38,6	42,9	47,2
SB-273513	EFXE-273513SB	9,6	19,2	28,9	33,7	43,3	48,2	53,0
SB-282816	EFXE-282816SB	9,6	19,3	29,0	33,9	43,6	48,4	53,3
SB-204016	EFXE-204016SB	10,1	20,2	30,3	35,4	45,5	50,5	55,6
SB-353516	EFXE-353516SB	12,2	24,4	36,6	42,7	54,9	61,0	67,1
SB-282827	EFXE-282827SB	13,1	26,2	39,3	45,9	59,0	65,6	72,2
SB-355016	EFXE-355016SB	14,8	29,7	44,5	52,0	66,8	74,3	81,7
SB-383816	EFXE-383816SB	13,3	26,6	39,9	46,5	59,8	66,5	73,1
SB-384516	EFXE-384516SB	14,5	29,1	43,7	51,0	65,6	72,9	80,2
SB-385716	EFXE-385716SB	16,7	33,4	50,1	58,5	75,2	83,6	91,9
SB-505016	EFXE-505016SB	17,9	35,8	53,8	62,7	80,7	89,7	98,6
SB-383827	EFXE-383827SB	17,5	35,1	52,7	61,4	79,0	87,8	96,6
SB-575716	EFXE-575716SB	20,7	41,5	62,3	72,7	93,5	103,9	114,3
SB-577620	EFXE-577620SB	26,9	53,9	80,9	94,4	121,3	134,8	148,3
SB-575730	EFXE-575730SB	27,9	55,8	83,7	97,7	125,6	139,5	153,5
SB-769520	EFXE-769520SB	36,1	72,2	108,3	126,3	162,4	180,5	198,5
SB-1258040	EFXE-1258040SB	36,1	72,2	108,3	126,3	162,4	180,5	198,5

Enclosure types (Stainless steel)		Maximum power dissipation (W) – Tamb. up to **55**°C						
		INTERNAL TEMP.65°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
SB-101210	EFXE-101210SB	2,7	4,1	6,9	8,3	11,1	12,5	13,9
SB-151510	EFXE-151510SB	4,0	6,0	10,0	12,0	16,0	18,0	20,0
SB-142013	EFXE-142013SB	5,2	7,8	13,1	15,7	20,9	23,5	26,2
SB-202010	EFXE-202010SB	5,3	8,0	13,4	16,1	21,4	24,1	26,8
SB-202016	EFXE-202016SB	6,9	10,4	17,4	20,8	27,8	31,3	34,8
SB-202713	EFXE-202713SB	7,2	10,8	18,0	21,6	28,9	32,5	36,1
SB-272713	EFXE-272713SB	8,3	12,5	20,9	25,1	33,5	37,7	41,8
SB-203016	EFXE-203016SB	8,5	12,8	21,4	25,7	34,3	38,6	42,9
SB-273513	EFXE-273513SB	9,6	14,4	24,1	28,9	38,5	43,3	48,2
SB-282816	EFXE-282816SB	9,6	14,5	24,2	29,0	38,7	43,6	48,4
SB-204016	EFXE-204016SB	10,1	15,1	25,2	30,3	40,4	45,5	50,5
SB-353516	EFXE-353516SB	12,2	18,3	30,5	36,6	48,8	54,9	61,0
SB-282827	EFXE-282827SB	13,1	19,6	32,8	39,3	52,5	59,0	65,6
SB-355016	EFXE-355016SB	14,8	22,2	37,1	44,5	59,4	66,8	74,3
SB-383816	EFXE-383816SB	13,3	19,9	33,2	39,9	53,2	59,8	66,5
SB-384516	EFXE-384516SB	14,5	21,8	36,4	43,7	58,3	65,6	72,9
SB-385716	EFXE-385716SB	16,7	25,0	41,8	50,1	66,8	75,2	83,6
SB-505016	EFXE-505016SB	17,9	26,9	44,8	53,8	71,7	80,7	89,7
SB-383827	EFXE-383827SB	17,5	26,3	43,9	52,7	70,2	79,0	87,8
SB-575716	EFXE-575716SB	20,7	31,1	51,9	62,3	83,1	93,5	103,9
SB-577620	EFXE-577620SB	26,9	40,4	67,4	80,9	107,9	121,3	134,8
SB-575730	EFXE-575730SB	27,9	41,8	69,7	83,7	111,6	125,6	139,5
SB-769520	EFXE-769520SB	36,1	54,1	90,2	108,3	144,4	162,4	180,5
SB-1258040	EFXE-1258040SB	36,1	54,1	90,2	108,3	144,4	162,4	180,5

Enclosure types (Stainless steel)		Maximum power dissipation (W) – Tamb. up to **60**°C					
		INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
SB-101210	EFXE-101210SB	2,7	5,5	6,9	9,7	11,1	12,5
SB-151510	EFXE-151510SB	4,0	8,0	10,0	14,0	16,0	18,0
SB-142013	EFXE-142013SB	5,2	10,4	13,1	18,3	20,9	23,5
SB-202010	EFXE-202010SB	5,3	10,7	13,4	18,7	21,4	24,1
SB-202016	EFXE-202016SB	6,9	13,9	17,4	24,3	27,8	31,3
SB-202713	EFXE-202713SB	7,2	14,4	18,0	25,2	28,9	32,5
SB-272713	EFXE-272713SB	8,3	16,7	20,9	29,3	33,5	37,7
SB-203016	EFXE-203016SB	8,5	17,1	21,4	30,0	34,3	38,6
SB-273513	EFXE-273513SB	9,6	19,2	24,1	33,7	38,5	43,3
SB-282816	EFXE-282816SB	9,6	19,3	24,2	33,9	38,7	43,6
SB-204016	EFXE-204016SB	10,1	20,2	25,2	35,4	40,4	45,5
SB-353516	EFXE-353516SB	12,2	24,4	30,5	42,7	48,8	54,9
SB-282827	EFXE-282827SB	13,1	26,2	32,8	45,9	52,5	59,0
SB-355016	EFXE-355016SB	14,8	29,7	37,1	52,0	59,4	66,8
SB-383816	EFXE-383816SB	13,3	26,6	33,2	46,5	53,2	59,8
SB-384516	EFXE-384516SB	14,5	29,1	36,4	51,0	58,3	65,6
SB-385716	EFXE-385716SB	16,7	33,4	41,8	58,5	66,8	75,2
SB-505016	EFXE-505016SB	17,9	35,8	44,8	62,7	71,7	80,7
SB-383827	EFXE-383827SB	17,5	35,1	43,9	61,4	70,2	79,0
SB-575716	EFXE-575716SB	20,7	41,5	51,9	72,7	83,1	93,5
SB-577620	EFXE-577620SB	26,9	53,9	67,4	94,4	107,9	121,3
SB-575730	EFXE-575730SB	27,9	55,8	69,7	97,7	111,6	125,6
SB-769520	EFXE-769520SB	36,1	72,2	90,2	126,3	144,4	162,4
SB-1258040	EFXE-1258040SB	36,1	72,2	90,2	126,3	144,4	162,4

Enclosure types (Stainless steel)		Maximum power dissipation (W) – Tamb. up to **95**°C	
		INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
SB-101210	EFXE-101210SB	1,3	2,7
SB-151510	EFXE-151510SB	2,0	4,0
SB-142013	EFXE-142013SB	2,6	5,2
SB-202010	EFXE-202010SB	2,6	5,3
SB-202016	EFXE-202016SB	3,4	6,9
SB-202713	EFXE-202713SB	3,6	7,2
SB-272713	EFXE-272713SB	4,1	8,3
SB-203016	EFXE-203016SB	4,2	8,5
SB-273513	EFXE-273513SB	4,8	9,6
SB-282816	EFXE-282816SB	4,8	9,6
SB-204016	EFXE-204016SB	5,0	10,1
SB-353516	EFXE-353516SB	6,1	12,2
SB-282827	EFXE-282827SB	6,5	13,1
SB-355016	EFXE-355016SB	7,4	14,8
SB-383816	EFXE-383816SB	6,6	13,3
SB-384516	EFXE-384516SB	7,2	14,5
SB-385716	EFXE-385716SB	8,3	16,7
SB-505016	EFXE-505016SB	8,9	17,9
SB-383827	EFXE-383827SB	8,7	17,5
SB-575716	EFXE-575716SB	10,3	20,7
SB-577620	EFXE-577620SB	13,4	26,9
SB-575730	EFXE-575730SB	13,9	27,9
SB-769520	EFXE-769520SB	18,0	36,1
SB-1258040	EFXE-1258040SB	18,0	36,1

Power dissipation – Stainless steel enclosures ST series

Enclosure types (Stainless steel)		Maximum power dissipation (W) – Tamb. up to **40**°C						
		INTERNAL TEMP.60°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
ST-101210	EFXE-101210ST	5,5	8,3	11,1	12,5	15,3	16,7	18,1
ST-151510	EFXE-151510ST	8,0	12,0	16,0	18,0	22,0	24,0	26,1
ST-142013	EFXE-142013ST	10,4	15,7	20,9	23,5	28,8	31,4	34,0
ST-202010	EFXE-202010ST	10,7	16,1	21,4	24,1	29,5	32,2	34,8
ST-202016	EFXE-202016ST	13,9	20,8	27,8	31,3	38,3	41,7	45,2
ST-202713	EFXE-202713ST	14,4	21,6	28,9	32,5	39,7	43,3	46,9
ST-272713	EFXE-272713ST	16,7	25,1	33,5	37,7	46,0	50,2	54,4
ST-203016	EFXE-203016ST	17,1	25,7	34,3	38,6	47,2	51,4	55,7
ST-273513	EFXE-273513ST	19,2	28,9	38,5	43,3	53,0	57,8	62,6
ST-282816	EFXE-282816ST	19,3	29,0	38,7	43,6	53,3	58,1	63,0
ST-204016	EFXE-204016ST	20,2	30,3	40,4	45,5	55,6	60,6	65,7
ST-353516	EFXE-353516ST	24,4	36,6	48,8	54,9	67,1	73,2	79,3
ST-282827	EFXE-282827ST	26,2	39,3	52,5	59,0	72,2	78,7	85,3
ST-355016	EFXE-355016ST	29,7	44,5	59,4	66,8	81,7	89,1	96,6
ST-383816	EFXE-383816ST	26,6	39,9	53,2	59,8	73,1	79,8	86,5
ST-384516	EFXE-384516ST	29,1	43,7	58,3	65,6	80,2	87,5	94,8
ST-385716	EFXE-385716ST	33,4	50,1	66,8	75,2	91,9	100,3	108,7
ST-505016	EFXE-505016ST	35,8	53,8	71,7	80,7	98,6	107,6	116,6
ST-383827	EFXE-383827ST	35,1	52,7	70,2	79,0	96,6	105,4	114,2
ST-575716	EFXE-575716ST	41,5	62,3	83,1	93,5	114,3	124,7	135,1
ST-577620	EFXE-577620ST	53,9	80,9	107,9	121,3	148,3	161,8	175,3
ST-575730	EFXE-575730ST	55,8	83,7	111,6	125,6	153,5	167,5	181,4
ST-769520	EFXE-769520ST	72,2	108,3	144,4	162,4	198,5	216,6	234,6
ST-1258040	EFXE-1258040ST	72,2	108,3	144,4	162,4	198,5	216,6	234,6

Enclosure types (Stainless steel)		Maximum power dissipation (W) – Tamb. up to **50**°C						
		INTERNAL TEMP.60°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
ST-101210	EFXE-101210ST	2,7	5,5	8,3	9,7	12,5	13,9	15,3
ST-151510	EFXE-151510ST	4,0	8,0	12,0	14,0	18,0	20,0	22,0
ST-142013	EFXE-142013ST	5,2	10,4	15,7	18,3	23,5	26,2	28,8
ST-202010	EFXE-202010ST	5,3	10,7	16,1	18,7	24,1	26,8	29,5
ST-202016	EFXE-202016ST	6,9	13,9	20,8	24,3	31,3	34,8	38,3
ST-202713	EFXE-202713ST	7,2	14,4	21,6	25,2	32,5	36,1	39,7
ST-272713	EFXE-272713ST	8,3	16,7	25,1	29,3	37,7	41,8	46,0
ST-203016	EFXE-203016ST	8,5	17,1	25,7	30,0	38,6	42,9	47,2
ST-273513	EFXE-273513ST	9,6	19,2	28,9	33,7	43,3	48,2	53,0
ST-282816	EFXE-282816ST	9,6	19,3	29,0	33,9	43,6	48,4	53,3
ST-204016	EFXE-204016ST	10,1	20,2	30,3	35,4	45,5	50,5	55,6
ST-353516	EFXE-353516ST	12,2	24,4	36,6	42,7	54,9	61,0	67,1
ST-282827	EFXE-282827ST	13,1	26,2	39,3	45,9	59,0	65,6	72,2
ST-355016	EFXE-355016ST	14,8	29,7	44,5	52,0	66,8	74,3	81,7
ST-383816	EFXE-383816ST	13,3	26,6	39,9	46,5	59,8	66,5	73,1
ST-384516	EFXE-384516ST	14,5	29,1	43,7	51,0	65,6	72,9	80,2
ST-385716	EFXE-385716ST	16,7	33,4	50,1	58,5	75,2	83,6	91,9
ST-505016	EFXE-505016ST	17,9	35,8	53,8	62,7	80,7	89,7	98,6
ST-383827	EFXE-383827ST	17,5	35,1	52,7	61,4	79,0	87,8	96,6
ST-575716	EFXE-575716ST	20,7	41,5	62,3	72,7	93,5	103,9	114,3
ST-577620	EFXE-577620ST	26,9	53,9	80,9	94,4	121,3	134,8	148,3
ST-575730	EFXE-575730ST	27,9	55,8	83,7	97,7	125,6	139,5	153,5
ST-769520	EFXE-769520ST	36,1	72,2	108,3	126,3	162,4	180,5	198,5
ST-1258040	EFXE-1258040ST	36,1	72,2	108,3	126,3	162,4	180,5	198,5

Enclosure types (Stainless steel)		Maximum power dissipation (W) – Tamb. up to **55**°C						
		INTERNAL TEMP.65°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
ST-101210	EFXE-101210ST	2,7	4,1	6,9	8,3	11,1	12,5	13,9
ST-151510	EFXE-151510ST	4,0	6,0	10,0	12,0	16,0	18,0	20,0
ST-142013	EFXE-142013ST	5,2	7,8	13,1	15,7	20,9	23,5	26,2
ST-202010	EFXE-202010ST	5,3	8,0	13,4	16,1	21,4	24,1	26,8
ST-202016	EFXE-202016ST	6,9	10,4	17,4	20,8	27,8	31,3	34,8
ST-202713	EFXE-202713ST	7,2	10,8	18,0	21,6	28,9	32,5	36,1
ST-272713	EFXE-272713ST	8,3	12,5	20,9	25,1	33,5	37,7	41,8
ST-203016	EFXE-203016ST	8,5	12,8	21,4	25,7	34,3	38,6	42,9
ST-273513	EFXE-273513ST	9,6	14,4	24,1	28,9	38,5	43,3	48,2
ST-282816	EFXE-282816ST	9,6	14,5	24,2	29,0	38,7	43,6	48,4
ST-204016	EFXE-204016ST	10,1	15,1	25,2	30,3	40,4	45,5	50,5
ST-353516	EFXE-353516ST	12,2	18,3	30,5	36,6	48,8	54,9	61,0
ST-282827	EFXE-282827ST	13,1	19,6	32,8	39,3	52,5	59,0	65,6
ST-355016	EFXE-355016ST	14,8	22,2	37,1	44,5	59,4	66,8	74,3
ST-383816	EFXE-383816ST	13,3	19,9	33,2	39,9	53,2	59,8	66,5
ST-384516	EFXE-384516ST	14,5	21,8	36,4	43,7	58,3	65,6	72,9
ST-385716	EFXE-385716ST	16,7	25,0	41,8	50,1	66,8	75,2	83,6
ST-505016	EFXE-505016ST	17,9	26,9	44,8	53,8	71,7	80,7	89,7
ST-383827	EFXE-383827ST	17,5	26,3	43,9	52,7	70,2	79,0	87,8
ST-575716	EFXE-575716ST	20,7	31,1	51,9	62,3	83,1	93,5	103,9
ST-577620	EFXE-577620ST	26,9	40,4	67,4	80,9	107,9	121,3	134,8
ST-575730	EFXE-575730ST	27,9	41,8	69,7	83,7	111,6	125,6	139,5
ST-769520	EFXE-769520ST	36,1	54,1	90,2	108,3	144,4	162,4	180,5
ST-1258040	EFXE-1258040ST	36,1	54,1	90,2	108,3	144,4	162,4	180,5

Enclosure types (Stainless steel)		Maximum power dissipation (W) – Tamb. up to **60**°C					
		INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
ST-101210	EFXE-101210ST	2,7	5,5	6,9	9,7	11,1	12,5
ST-151510	EFXE-151510ST	4,0	8,0	10,0	14,0	16,0	18,0
ST-142013	EFXE-142013ST	5,2	10,4	13,1	18,3	20,9	23,5
ST-202010	EFXE-202010ST	5,3	10,7	13,4	18,7	21,4	24,1
ST-202016	EFXE-202016ST	6,9	13,9	17,4	24,3	27,8	31,3
ST-202713	EFXE-202713ST	7,2	14,4	18,0	25,2	28,9	32,5
ST-272713	EFXE-272713ST	8,3	16,7	20,9	29,3	33,5	37,7
ST-203016	EFXE-203016ST	8,5	17,1	21,4	30,0	34,3	38,6
ST-273513	EFXE-273513ST	9,6	19,2	24,1	33,7	38,5	43,3
ST-282816	EFXE-282816ST	9,6	19,3	24,2	33,9	38,7	43,6
ST-204016	EFXE-204016ST	10,1	20,2	25,2	35,4	40,4	45,5
ST-353516	EFXE-353516ST	12,2	24,4	30,5	42,7	48,8	54,9
ST-282827	EFXE-282827ST	13,1	26,2	32,8	45,9	52,5	59,0
ST-355016	EFXE-355016ST	14,8	29,7	37,1	52,0	59,4	66,8
ST-383816	EFXE-383816ST	13,3	26,6	33,2	46,5	53,2	59,8
ST-384516	EFXE-384516ST	14,5	29,1	36,4	51,0	58,3	65,6
ST-385716	EFXE-385716ST	16,7	33,4	41,8	58,5	66,8	75,2
ST-505016	EFXE-505016ST	17,9	35,8	44,8	62,7	71,7	80,7
ST-383827	EFXE-383827ST	17,5	35,1	43,9	61,4	70,2	79,0
ST-575716	EFXE-575716ST	20,7	41,5	51,9	72,7	83,1	93,5
ST-577620	EFXE-577620ST	26,9	53,9	67,4	94,4	107,9	121,3
ST-575730	EFXE-575730ST	27,9	55,8	69,7	97,7	111,6	125,6
ST-769520	EFXE-769520ST	36,1	72,2	90,2	126,3	144,4	162,4
ST-1258040	EFXE-1258040ST	36,1	72,2	90,2	126,3	144,4	162,4

Enclosure types (Stainless steel)		Maximum power dissipation (W) – Tamb. up to **95**°C	
		INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
ST-101210	EFXE-101210ST	1,3	2,7
ST-151510	EFXE-151510ST	2,0	4,0
ST-142013	EFXE-142013ST	2,6	5,2
ST-202010	EFXE-202010ST	2,6	5,3
ST-202016	EFXE-202016ST	3,4	6,9
ST-202713	EFXE-202713ST	3,6	7,2
ST-272713	EFXE-272713ST	4,1	8,3
ST-203016	EFXE-203016ST	4,2	8,5
ST-273513	EFXE-273513ST	4,8	9,6
ST-282816	EFXE-282816ST	4,8	9,6
ST-204016	EFXE-204016ST	5,0	10,1
ST-353516	EFXE-353516ST	6,1	12,2
ST-282827	EFXE-282827ST	6,5	13,1
ST-355016	EFXE-355016ST	7,4	14,8
ST-383816	EFXE-383816ST	6,6	13,3
ST-384516	EFXE-384516ST	7,2	14,5
ST-385716	EFXE-385716ST	8,3	16,7
ST-505016	EFXE-505016ST	8,9	17,9
ST-383827	EFXE-383827ST	8,7	17,5
ST-575716	EFXE-575716ST	10,3	20,7
ST-577620	EFXE-577620ST	13,4	26,9
ST-575730	EFXE-575730ST	13,9	27,9
ST-769520	EFXE-769520ST	18,0	36,1
ST-1258040	EFXE-1258040ST	18,0	36,1

Maximum Power Dissipation calculation

The values specified in the tables as per clause 2.1.1 may be modified within the maximum admitted Tamb and maximum admitted internal temperature as follows.

$$Pdiss\ (W) = \frac{Tmax - Tamb}{Rth}$$

$Rth = A \times (\text{enclosure surface in } mm^2 \text{ except enclosure bottom})^{B}$

Legend:
Rth – Thermal resistance [K/W].
Tmax – Maximum allowed temperature inside enclosure.
Tamb – Ambient temperature of enclosure
A and B - coefficients determined for each series of enclosure. Exact values are given in manufacturer's documentation.

Warning labels:

WARNING – DO NOT OPEN WHEN ENERGIZED (*)
(*) Not mandatory for apparatus with protection type Ex ia Ga and Ex ib Gb.

WARNING – POTENTIAL ELECTROSTATIC CHARGING HAZARD – SEE INSTRUCTIONS

To be added when the enclosures or parts of them have a surface resistance more than 10^9 Ω or 10^{11} Ω according to IEC 60079-0 Clause 7.4.2 a), as applicable, and as per following cases:

- are equipped with transparent parts made of polycarbonate.
- for category II 2 G / EPL Gb Gas group IIC: are painted and the paint layer thickness is > 0.2mm.
- for category II 2 G / EPL Gb Gas group IIB: are painted and the paint layer thickness is > 2mm.
- for category II 2 D / EPL Db: are painted and the paint layer thickness is > 2mm.
- for category II 2 G / EPL Gb Gas group IIC: not conductive individual materials (labels), applied on painted enclosures, have exposed (chargeable area) > 2000mm^2 or, not conductive individual materials (labels), applied on unpainted (conductive earthed surface) enclosures, have exposed (chargeable area) > 8000mm^2.
- for category II 2 G /EPL Gb Gas group IIB: not conductive individual materials (labels), applied on painted enclosures, have exposed (chargeable area) > 10000mm^2 or, not conductive individual materials (labels), applied on unpainted (conductive earthed surface) enclosures, have exposed (chargeable area) > 40000mm^2.

OPEN THE VALVE ONLY WHEN THE APPARATUS IS DE-ENERGIZED AND ONLY WHEN AN EXPLOSIVE DUST ATMOSPHERE IS NOT PRESENT
To be added on Ex tb apparatus equipped with the drain / venting device ECR3.

Other warnings depend on the components actually mounted, according to the component manufacturer's documentation.

The tables below state the maximum power dissipation values (W) related to the internal temperature (Tint) and ambient temperature (Tamb).

ITEM	Tag	EJB-200N1-02-L1-01 : Normal Lighting Upper Deck - Circuit No. 1	Dwg	123A90-DDL-EL-DL-20118	
	S/Sys	83-40 : Normal Lighting Upper Deck	Module	UD	
TASK	code	C10001281	Location	Onshore Activities	User: Rosetti Marino Quality Control
FORM	Process	MC	Activity: CCK	Discipline: ATEX	Form: CJX01 — Hazardous Area Equipment Detailed Inspection

Schedule Ref. #				**Area Code**					
Area Class Drawing	123A90-DDL-SAF-DL-30022			**Serial No.**	24P00297990083				
Manufacturer	Italsmea			**Model**	AQ-252612P				
Cert No.	FIDI 21ATEX 0090X IECEx FIDI 21.0015X			**Equipment Ambient Temp.**	-20 to +40 °C				
Area Classification	HAZARDOUS	**Zone**	2	**Gas group**	II C	**Temp class**	T1		
Equipment Protection Type	Ex eb	**EPL**	Gb	**Gas group**	II C	**Temp class**	T6	**IP Rating**	IP66

Detailed Note:

1) Inspection shall only be performed by competent personnel

2) All fields are to be completed. Any non-applicable field shall state “NA”. Comments are required for ‘Failure’ column ONLY.

3) An Inspection Sheet should be completed for EACH individual item of Equipment.

	General Equipment	Detailed	OK/NA/PL	Comments
1	Equipment is appropriate to the EPL / Zone requirements of the area	x	OK	
2	Equipment group is correct	x	OK	
3	Equipment temperature class is correct	x	OK	
4	Degree of IP protection of equipment is appropriate for the level of protection	x	OK	
5	Equipment circuit identification is correct	x	PL	
6	Equipment circuit identification is available	x	NA	
7	Enclosure glass parts and glass-to-metal sealing gaskets and / or compounds are satisfactory	x	NA	
8	There is no damage or unauthorized modifications	x	OK	
9	There is no evidence of unauthorized modifications	x	OK	
10	Bolts, cable entry devices (direct and indirect) & blanking elements are of the correct type, are complete & tight		OK	
	Physical check	x	OK	
11	Threaded covers on enclosures are of the correct type, are tight and secured		NA	
	Physical check	x	OK	
12	Joint surfaces are clean and undamaged and gaskets, if any, are satisfactory and positioned correctly	x	OK	
13	Condition of enclosure gaskets is satisfactory	x	OK	
14	There is no evidence or ingress of water or dust in the enclosure in accordance with the IP rating	x	OK	
15	Electrical connections are tight	x	OK	
16	Bridging links do not reduce creepage / clearance and are allowed	x	NA	
17	Unused terminals are tightened	x	OK	
18	Encapsulated components are undamaged	x	NA	
19	Flameproof components are undamaged	x	NA	
20	Fluorescent lamps are not indicating EOL effects (only for Ex “e” – Ex “n” – Ex “t”)	x	NA	
21	HID lamps are not indicating EOL effects	x	NA	
22	Lamp type, rating, pin configuration and position are correct	x	NA	
23	Breathing and drainage devices are satisfactory	x	OK	
24	Type of cable is appropriate	x	OK	
25	There is no obvious damage to the cables	x	OK	
26	Cable glands are the correct type and installed correctly	x	OK	
27	Sealing of trunking, ducts, pipes and or conduits is satisfactory	x	NA	
28	Stopping boxes and cable boxes are corrected filled	x	OK	

ITEM	Tag	EJB-200N1-02-L1-01	: Normal Lighting Upper Deck - Circuit No. 1			Dwg	123A90-DDL-EL-DL-20118
	S/Sys	83-40	: Normal Lighting Upper Deck			Module	UD
TASK	code	C10001281		Location	Onshore Activities	User	Rosetti Marino Quality Control
FORM	Process	MC	Activity CCK	Discipline	ATEX	Form	CJX01 Hazardous Area Equipment Detailed Inspection

29	Integrity of conduit system and interface with mixed system maintained	x	NA	
30	Earthing connections, including any supplementary earthing bonding connections are satisfactory (for example connections are tight and conductors are of sufficient cross-section		OK	
	Physical check	x	OK	
31	Automated electric protective devices operate within permitted limits	x	NA	
32	Special conditions (if applicable) have been complied with.	x	NA	
33	All cable cores are uniquely labeled	x	OK	
34	Cable cores not in use are correctly terminated	x	NA	
35	Equipment is adequately protected against corrosion, weather, vibration and other adverse factors	x	OK	
36	No undue accumulation of dust and dirt	x	OK	
37	All equipment housings are clean and dry	x	OK	
38	All moving parts are free and have no mechanical damage	x	OK	
	Applicable for Installation of Heating Systems			
39	Temperature sensors function according to manufacturer's documents (only applicable for Ex-d e Ex-e)	x	NA	
40	Safety cut off devices function according to manufacturer's documents (only applicable for Ex-d e Ex-e)	x	NA	
41	The setting of the safety cut off is sealed (only applicable for Ex-d e Ex-e)	x	NA	
42	Reset of a heating system safety cut off possible with tool only(only applicable for Ex-d e Ex-e)	x	NA	
43	Auto-reset is not possible (only applicable for Ex-d e Ex-e)	x	NA	
44	Reset of a safety cut off under fault conditions is prevented (only applicable for Ex-d e Ex-e)	x	NA	
45	Safety cut off independent from control system (only applicable for Ex-d e Ex-e)	x	NA	
46	Level switch is installed and correctly set, if required (only applicable for Ex-d e Ex-e)	x	NA	
47	Flow switch is installed and correctly set, if required (only applicable for Ex-d e Ex-e)	x	NA	
	Extra Ex d checks			
48	Obstructions adjacent to flame proof flanged joints are in accordance with IEC 60079-14	x	NA	
49	Ex d conduits seals are fitted to all conduits and satisfactorily sealed	x	NA	
50	Cable glands are of the correct type and installed correctly	x	NA	
51	Adaptors, reducers, stop ends, etc. are all certified Ex d	x	NA	
52	Flame path are clean and undamaged	x	NA	
53	Flange gap dimensions are within tolerances	x	NA	
54	Motor fans have sufficient clearance to the enclosure and/or covers, cooling systems are undamaged, motor foundations have no indentations or cracks	x	NA	
55	The ventilation airflow is not impeded	x	NA	
56	Insulation resistance (IR) of the motor windings is satisfactory	x	NA	
57	Fault loop impedance (TN systems) or earthing resistance (IT systems) is satisfactory	x	NA	
58	Variable voltage/frequency installation complies with documentation	x	NA	
	Extra Ex e checks			
59	All Equipment is Ex e certified (including components within enclosure)	x	OK	
60	Power conductors are not bunched together causing possible hot spots	x	OK	
61	Motor fans have sufficient clearance to the enclosure and/or covers, cooling systems are undamaged, motor foundations have no indentations or cracks	x	NA	
62	Insulation resistance (IR) of the motor windings is satisfactory	x	NA	
63	Fault loop impedance (TN systems) or earthing resistance (IT systems) is satisfactory	x	NA	
64	The ventilation airflow is not impeded	x	NA	
65	Motor protection devices operate within the permitted tE or tA time limits.	x	NA	
66	Variable voltage/frequency installation complies with documentation	x	NA	

ITEM	Tag	EJB-200N1-02-L1-01	: Normal Lighting Upper Deck - Circuit No. 1		Dwg	123A90-DDL-EL-DL-20118	
	S/Sys	83-40	: Normal Lighting Upper Deck		Module	UD	
TASK	code	C10001281	Location	Onshore Activities	User	Rosetti Marino Quality Control	
FORM	Process	MC	Activity CCK	Discipline ATEX	Form	CJX01	Hazardous Area Equipment Detailed Inspection

Extra Ex n (nR, nL) checks				
67	All Terminals are Ex n certified (if required on certificate)	x	NA	
68	Hermetically sealed and enclosed break devices are undamaged	x	NA	
69	Restricted breathing properties satisfactory (conduct vacuum test)	x	NA	
70	Test port, if fitted, is functional (type “nR” only)	x	NA	
71	Breathing operation is satisfactory (type “nR” only)	x	NA	
72	Motor fans have sufficient clearance to the enclosure and/or covers, cooling systems are	x	NA	
73	The ventilation airflow is not impeded	x	NA	
74	Insulation resistance (IR) of the motor windings is satisfactory	x	NA	
75	Motor protection devices operate within the permitted tE or tA time limits.	x	NA	
76	Variable voltage/frequency installation complies with documentation	x	NA	
Extra Ex p checks				
77	Pressurization gas is correct type	x	NA	
78	Actual pressure is within maximum and minimum settings for equipment	x	NA	
79	Timers set as per certification documentation	x	NA	
80	Alarms and trip functions operate correctly as per certification documentation	x	NA	
81	Fault loop impedance (TN systems) or earthing resistance (IT systems) is satisfactory	x	NA	
82	Automatic electrical protective devices operate within permitted limits	x	NA	
83	Automatic electrical protective devices are set correctly	x	NA	
84	Protective gas inlet temperature is below maximum specified	x	NA	
85	Ducts, pipes and enclosures are in good condition	x	NA	
86	Protective gas is substantially free from contaminants	x	NA	
87	Protective gas pressure and/or flow is adequate	x	NA	
88	Pressure and/or flow indicators, alarms and interlocks function correctly	x	NA	
89	Conditions of spark and particle barriers of ducts for exhausting the gas in hazardous area are satisfactory	x	NA	
90	Specific conditions of use (if applicable) are complied with		NA	
Extra Ex i (Intrinsically Safe – IS) checks				
91	Equipment has adequate circuit identification for ‘IS’ Installation	x	NA	
92	Cables are installed in accordance with the documentation	x	NA	
93	Segregation is maintained between IS and non-IS Circuits	x	NA	
94	Cable screens are isolated at one end (field side)	x	NA	
95	Cable screens are earthed in accordance with the documentation	x	NA	
96	Safety barrier units, relays and other energy limiting devices are of the approved type, installed in	x	NA	
97	Equipment installed is the one specified in the documentation	x	NA	
98	Ambient temperature range of the apparatus is correct for the installation	x	NA	
99	Service temperature range of the apparatus is correct for the installation	x	NA	
100	Installation is clearly labelled	x	NA	
101	Printed circuit boards are clean and undamaged	x	NA	
102	The maximum voltage Um of the associated apparatus is not exceeded	x	NA	
103	Point-to-point connections are all correct	x	NA	
104	Earth continuity is satisfactory (e.g. connections are tight, conductors are of sufficient cross-section)	x	NA	
105	Earth connections maintain the integrity of the type of protection	x	NA	
106	Intrinsically safe circuit earthing is satisfactory	x	NA	
107	Insulation resistance is satisfactory	x	NA	
108	Short-circuit protection of the power supply is in accordance with the documentation	x	NA	

	BARRIER:	**Manufacturer:**	NA	**Model:**	NA		
		Authority:	NA	**Cert No:**	NA	**Type:**	NA

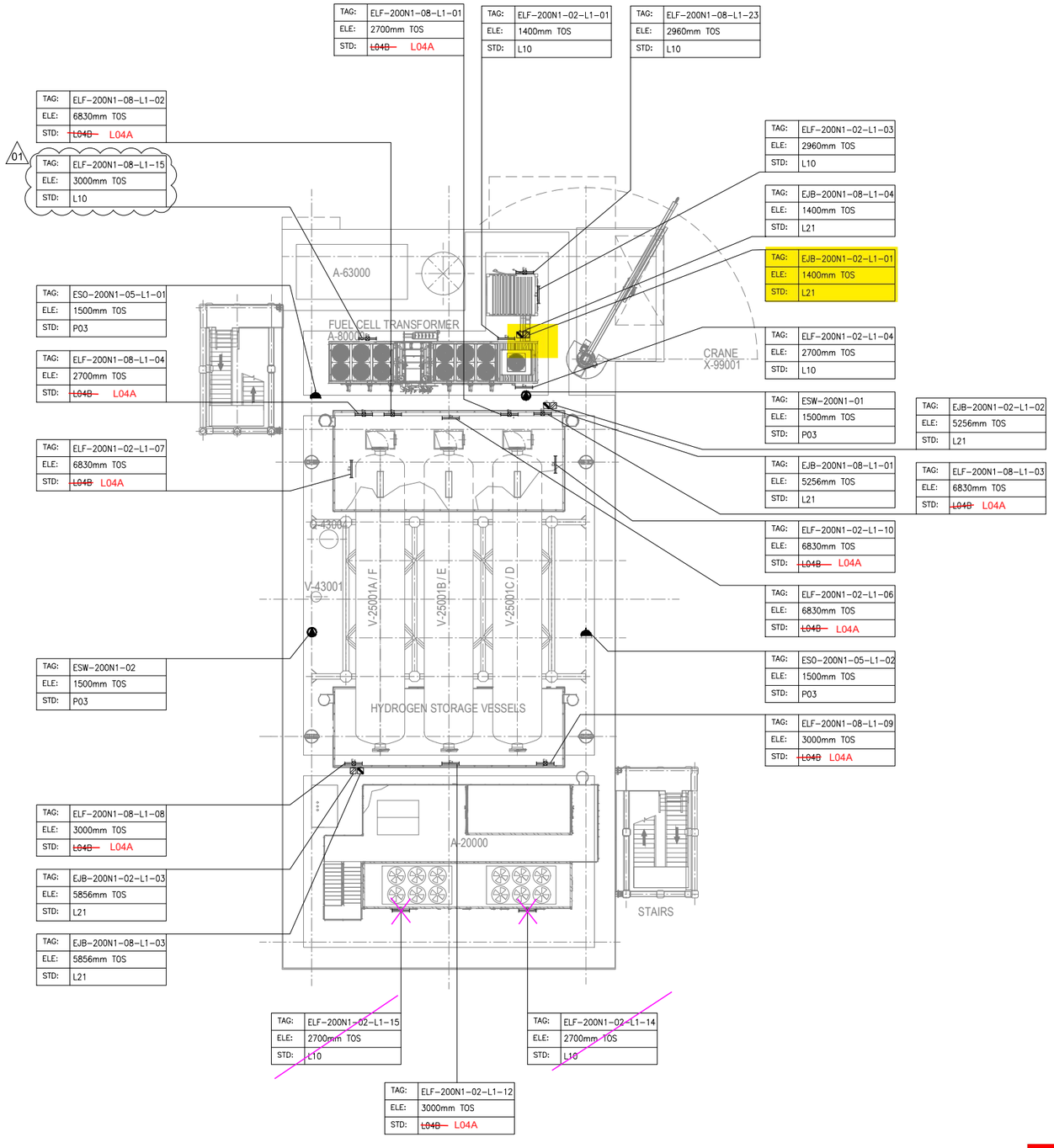
Remarks: Initial inspection should be detailed and carried out before equipment is brought into service as per IEC 60079-17

Please mark only one box as appropriate	
●	**Passed - Complete**
	Failed

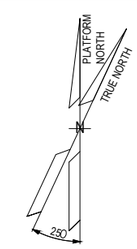
Page 3/3	Performed by	☐ WITNESS ☐ REVIEW	☐ WITNESS ☐ REVIEW
Company	ICS IMPIANTI	RM (ROSETTI MARINO)	
Name	Francesco Zucca	Gabriele Bertuccelli	
Date	2024-12-18	2025-01-23	
Signature	PROVERLIS Digitaly signed by Francesco Zucca 2024-12-18T10:37:16.232Z	PROVERLIS Digitaly signed by Gabriele Bertuccelli 2025-01-23T16:52:29.695Z	

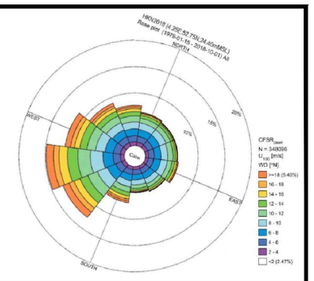
DRAWING NO. 123A90-DDL-EL-DL-20118

REV. 01



PLAN ON UPPER DECK
EL+30.310 T.O.S.





NOTES

1. ALL DIMENSIONS AND ELEVATIONS ARE GIVEN IN mm UNLESS OTHERWISE NOTED.
2. ELEVATIONS REFER TO T.O.S.
3. ELEVATION OF THE LAMPS ARE REFFERED TO THE BOTTOM OF THE LAMP.
4. FOR THE ELEVATION OF JB, REFER TO THE TYPICAL INSTALLATION.

LEGEND

- EMERGENCY LIGHTING JB
- 60W LED EMERGENCY LUMINARIES
- 60W LED EMERGENCY LUMINARIES FIXTURE POLE MOUNTED
- NORMAL LIGHTING JB
- 45W LED NORMAL LUMINARIES
- 45W LED NORMAL LUMINARIES FIXTURE POLE MOUNTED
- WELDING SOCKET WITH INTEGRATED JB
- SMALL POWER SOCKET WITH INTEGRATED JB

JB TAG:	JB-TAG
TAG:	TAG
ELE:	ELEVATION
STD:	STANDARD

REFERENCE DOCUMENTS

123A90-DDL-PP-DL-70070	PLOT PLAN - LOWER & UPPER DECK
123A90-DDL-EL-DL-20100	ELECTRICAL EQUIPMENT LAYOUT - TOP DECK
123A90-DDL-EL-DD-20091	ELECTRICAL TYPICAL INSTALLATION DETAILS - LIGHTING SYSTEM
123A90-DDL-EL-DD-20092	ELECTRICAL TYPICAL INSTALLATION DETAILS - POWER SYSTEM & CABLE INSTALLATION
123A90-DDL-EL-RE-20153	LIGHTING CALCULATION STUDY REPORT
123A90-DDL-ST-DD-90076	IDENTIFICATION PANELS ASSEMBLY AND DETAILS

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	02/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	28/05/24	ASR	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DL-20118**

REV.:	DATE:	SIGNATURE:
1_G	09/01/25	V.Ramponi

ROSETTI MARINO SpA

CROSSWIND

ROSETTI MARINO

TITLE :
BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET LAYOUT – TOP DECK

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK			SCALE 1:150
DRAWN ASR	CHECKED FMA/AMA	APPROVED FPA/DLO	DATE 01/08/24
A1	DRAWING NO. 123A90-DDL-EL-DL-20118	SHEET 2of2	REV. 01

File Name : 123A90-DDL-EL-DL-20118

FROM	TO

DESCRIPTION: LIGHTING & SMALL POWER DB BOP
TAG NUMBER: DP-200N1

CUBICLE/CB: +01/Q2

-X1

L1/2	10	BN
N/2	11	BU
		Y/G
		PE

P.E. BUS BAR

P-EJB-200N1-02-L1-01
3G4 mm²

DESCRIPTION: NORMAL LIGHTING UPPER DECK - CIRCUIT NO. 1
TAG NUMBER: EJB-200N1-02-L1-01

BN → L
BU → N
Y/G → PE

CUBICLE/CB: +02/Q3

-X1

L2/3	12	BN
N/3	13	BU
		Y/G
		PE

P.E. BUS BAR

P-EJB-200N1-03-L2-01
3G4 mm²

DESCRIPTION: NORMAL LIGHTING LOWER DECK - CIRCUIT NO. 1
TAG NUMBER: EJB-200N1-03-L2-01

BN → L
BU → N
Y/G → PE

CUBICLE/CB: +02/Q4

-X1

L3/4	14	BN
N/4	15	BU
		Y/G
		PE

P.E. BUS BAR

P-EJB-200N1-04-L3-01
3G4 mm²

DESCRIPTION: NORMAL LIGHTING - STAIRS
TAG NUMBER: EJB-200N1-04-L3-01

BN → L
BU → N
Y/G → PE

CUBICLE/CB: +03/Q5

-X1

L1/5	80	BN
N/5	81	BU
		Y/G
		PE

P.E. BUS BAR

P-ESO-200N1-05-L1-01
3G10 mm²

DESCRIPTION: SMALL POWER SOCKET JB(UPPER DECK)
TAG NUMBER: ESO-200N1-05-L1-01

BN (L) → BN
BU (N) → BU
Y/G (PE) → Y/G

P-ESO-200N1-05-L1-02
3G10 mm²

DESCRIPTION: SMALL POWER SOCKET JB(UPPER DECK)
TAG NUMBER: ESO-200N1-05-L1-02

BN → L
BU → N
Y/G → PE

VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DG-20149**

REV.:	DATE:	SIGNATURE:
2_I	20/01/25	G.Randi

ROSETTI MARINO SpA

CROSSWIND

ROSETTI MARINO

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	19/11/24	SAI	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	16/10/24	SAI	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	08/07/24	SAI	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL INTERCONNECTING WIRING DIAGRAM
LIGHTING & SMALL POWER DB BOP

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK | SCALE : 1:X

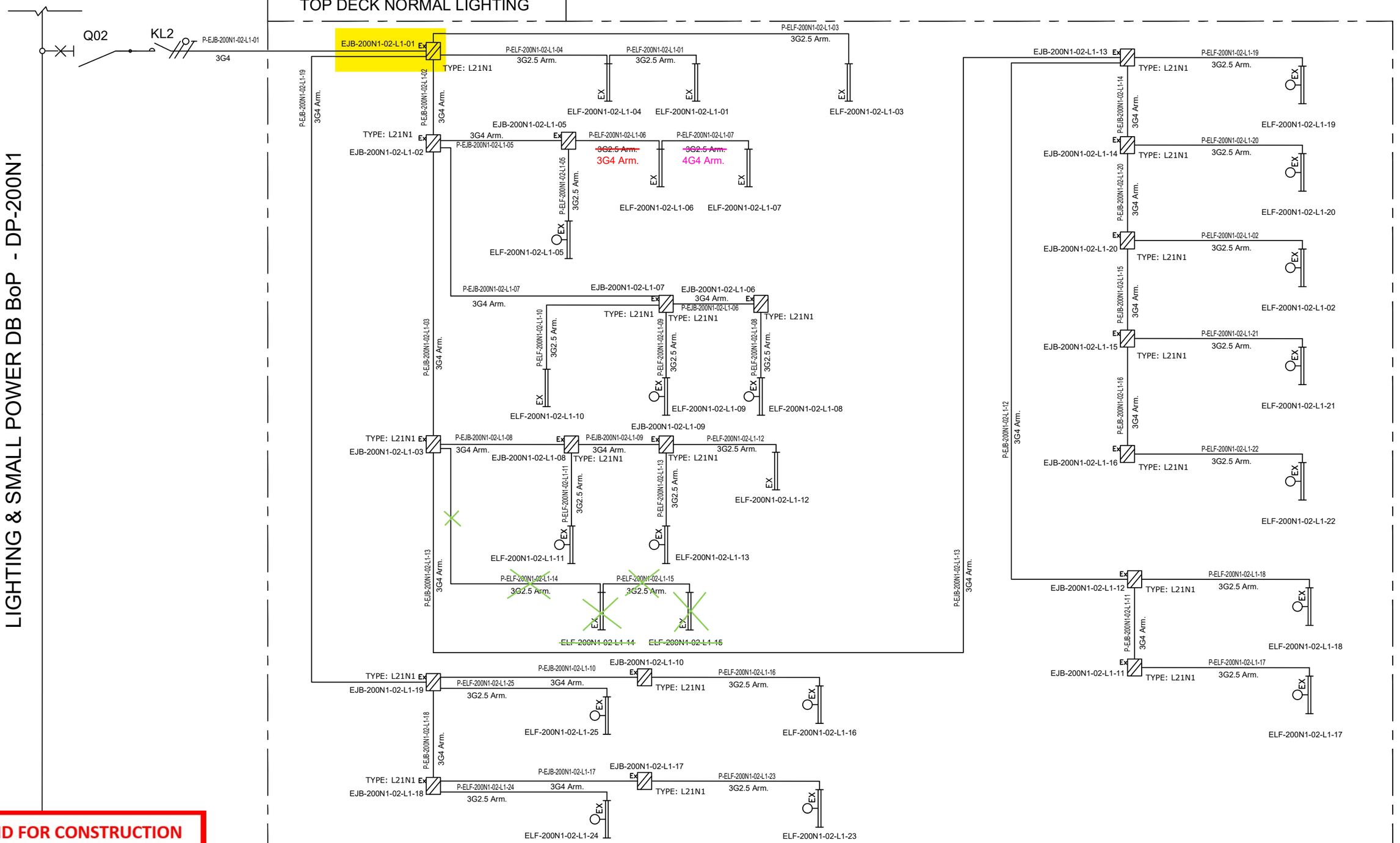
A3 | DRAWING NO. 123A90-DDL-EL-DG-20149 | SHEET 045 | REV. 02

F.to UNI A3: 420mmx297mm

File Name : 123A90-DDL-EL-DG-20149 Rev. 02

LIGHTING & SMALL POWER DB BoP - DP-200N1

TOP DECK NORMAL LIGHTING



VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DG-20125**

REV.:	DATE:	SIGNATURE:
2_G	16/01/25	G.Randi

ROSETTI MARINO SpA

CROSSWIND

ROSETTI MARINO

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	08/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	01/07/24	ASR	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

TITLE : BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET CIRCUIT DIAGRAM
TOP DECK–NORMAL LIGHTING

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE : NTS

A3

DRAWING NO. 123A90–DDL–EL–DG–20125

SHEET 010

REV. 01

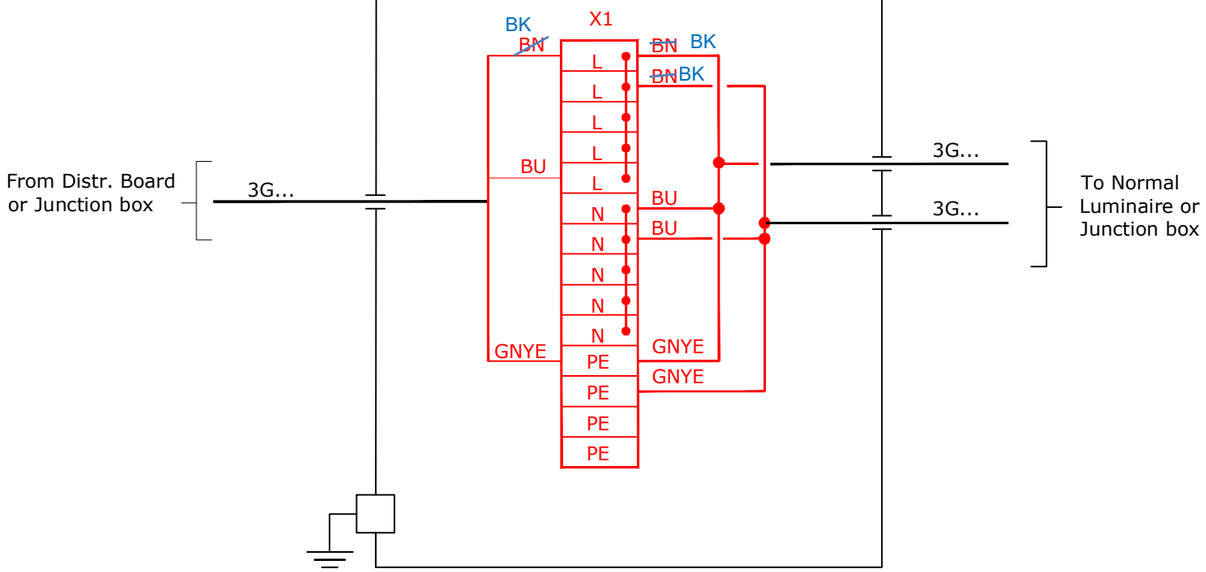
F.to UNI A3: 420mmx297mm

File Name : 123A90–DDL–EL–DG–20125

TYPE : L21N1 & L21N2

ITEM: NORMAL LIGHTING JUNCTION BOX

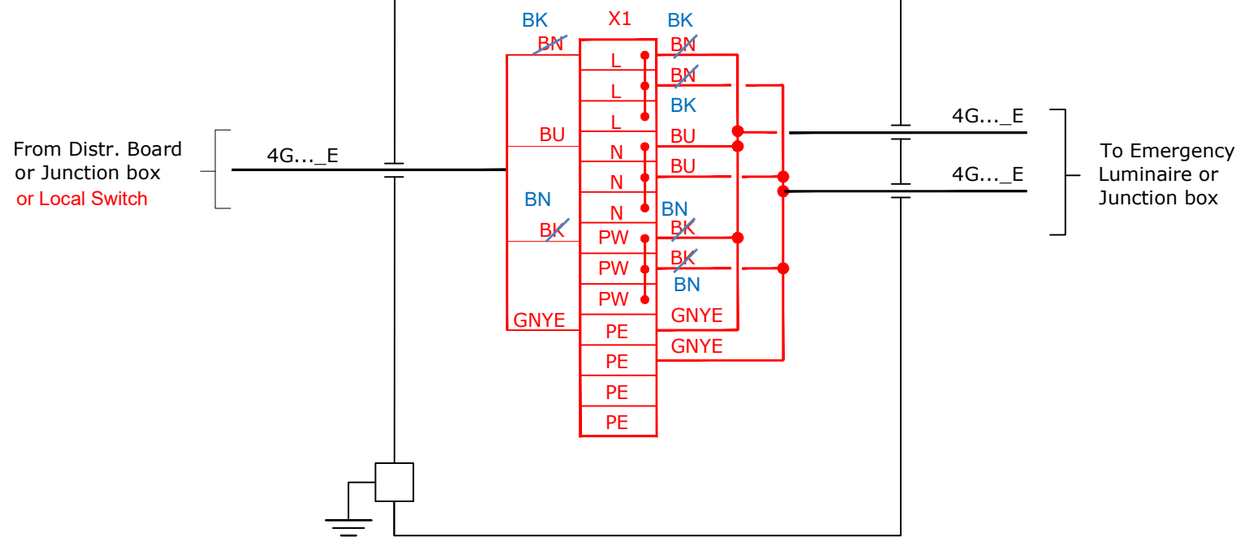
TAG : Typical



TYPE : L21E1 & L21E2

ITEM: EMERGENCY LIGHTING JUNCTION BOX

TAG : Typical



VALID FOR CONSTRUCTION

FDL DWG: **123A90-FDL-EL-DG-20125**

REV.:	DATE:	SIGNATURE:
2_G	16/01/25	G.Randi

ROSETTI MARINO SpA

CROSSWIND

ROSETTI MARINO

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	08/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)

TITLE : BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET CIRCUIT DIAGRAM
TYPICAL JB INTERCONNECTING DIAGRAM

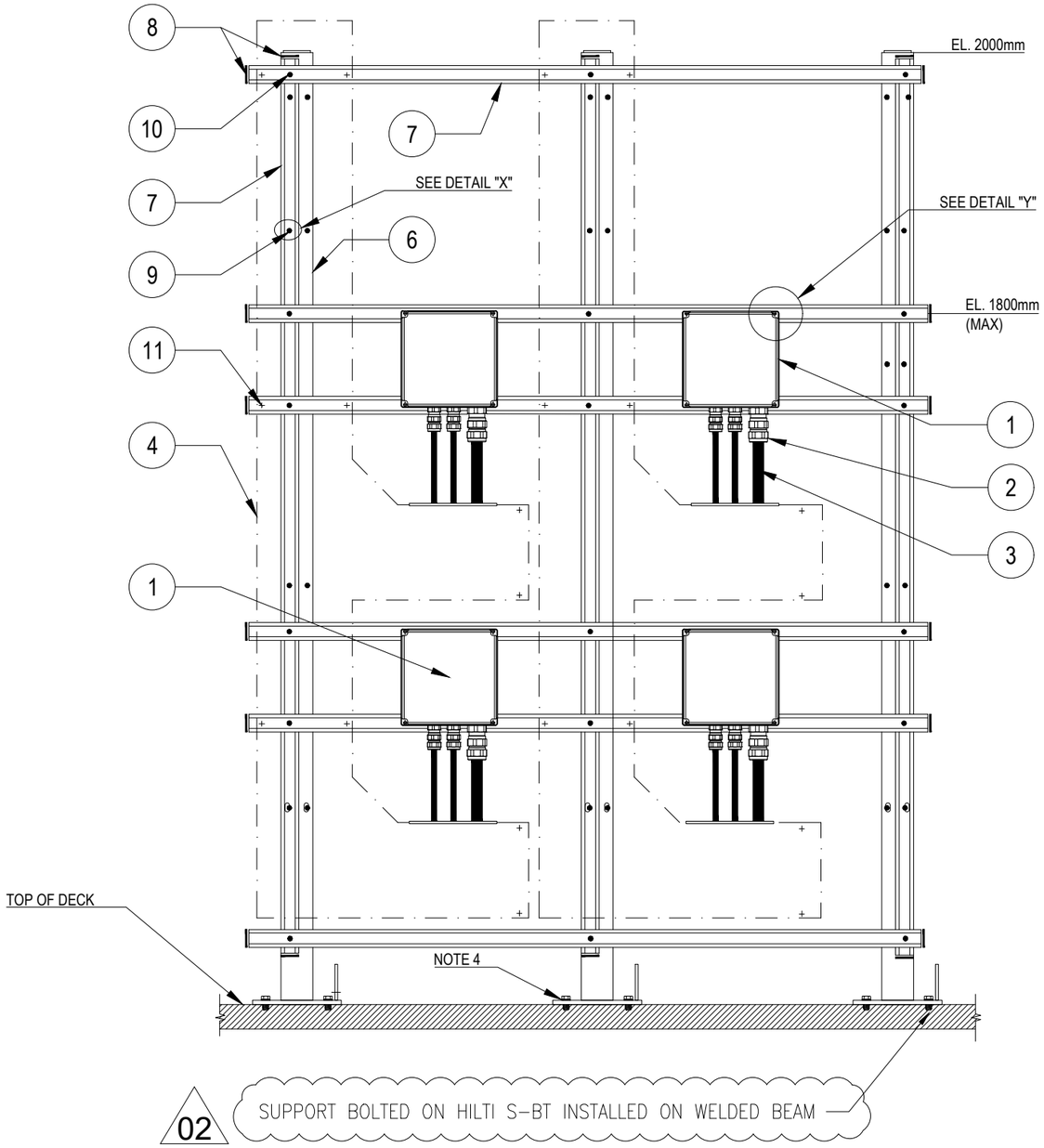
CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK | SCALE : NTS

A3	DRAWING NO.	SHEET	REV.
	123A90-DDL-EL-DG-20125	016	01

F.to UNI A3: 420mmx297mm

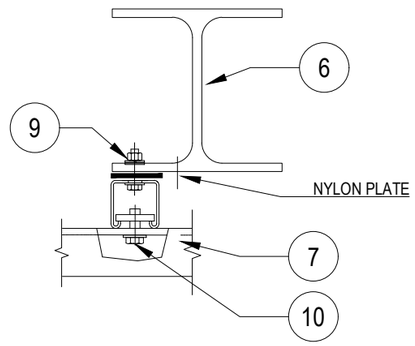
File Name : 123A90-DDL-EL-DG-20125

L21

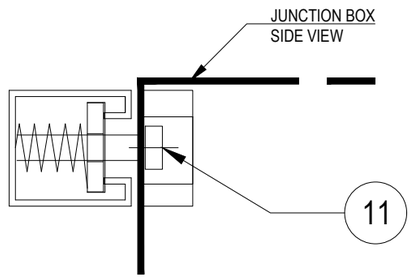


02 SUPPORT BOLTED ON HILTI S-BT INSTALLED ON WELDED BEAM

POS.	DESCRIPTION	MATERIAL	SIZE	Q.TY	NOTE
1	JUNCTION BOX (Ex)	GRP			
2	CABLE GLAND (Ex) FOR ARMOURED/UNARMOURED CABLE	NICK.PL.BRASS			NOTE 2
3	ARMOURED/UNARMOURED CABLE				
4	CABLE LADDER WITH COVER	AISI 316L			
6	PROFILE SUPPORT	PAINTED C.S			
7	SINGLE U-CHANNEL PERFORATED ON NO. 3 SIDE	AISI 316L	41x41x2		NOTE 1
8	PLUG FOR U-CHANNEL	LPDE			
9	HEXAGONAL BOLT M10X40 WITH LARGE PLANE WASHER, NYLON PLANE WASHER, PLANE WASHERS, GROWER SPRING WASHER AND NUT	AISI 316L	M10x40		
10	HEXAGONAL BOLT M12X30 COMPLETE WITH LARGE PLANE WASHER, PLANE WASHER AND NUT FOR U-CHANNEL WITH SPRING	AISI 316L	M12x30		
11	ALLEN KEY BOLT COMPLETE WITH PLANE WASHER, NUT FOR U-CHANNEL WITH SPRING	AISI 316L	M6x30		NOTE 3



DETAIL "X"



DETAIL "Y"

NOTES:

1) THE EXACT DIMENSIONS WILL BE DEFINED DURING ASSEMBLY PHASE.
2) CABLE GLAND COMPLETE WITH LOCKNUT, NYLON WASHER, SERRATED WASHER, EXTERNAL RUBBER RING AND EARTH TAG (IF NECESSARY).
3) FOR INSTRUMENT JUNCTION BOX USE HEXAGONAL BOLT M10X30 COMPLETE WITH PLANE WASHER, GROWER AND NUT FOR U-CHANNEL WITH SPRING
4) SUPPORT BOLTED ON HILTI S-BT INSTALLED ON THE DECK

VALID FOR CONSTRUCTION

REV.:	DATE:	SIGNATURE:
2_B	12/12/24	C.Pilato

ROSETTI MARINO SpA

CROSSWIND

ROSETTI MARINO

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	30/09/24	GRA	AMA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	04/07/24	NLK	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	21/11/23	SPS	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL TYPICAL INSTALLATION DETAILS-LIGHTING SYSTEM
JUNCTION BOXES MOUNTED RACK SUPPORT

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK | SCALE : NTS

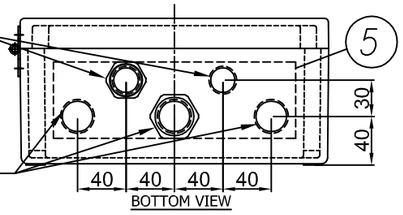
A3 | DRAWING NO. 123A90-DDL-EL-DD-20091 | SHEET 005 | REV. 02

F.to UNI A3: 420mmx297mm

File Name : 123A90-DDL-EL-DD-20091 REV.02.DWG

(10)(4) N°2 PASSING HOLES Ø20.2
C/W N°1 BNK PLUG M20 +
N°1 DUSTPROOF PVC PLUG

(3)(3) N°3 PASSING HOLES Ø25.2
C/W N°1 BNK PLUG M25 +
N°1 DUSTPROOF PVC PLUG



BOTTOM VIEW

(8) I2400722-B015I00029809

TECHNOR ITALSMEA
A COMPANY OF MARECHAL ELECTRIC
Via Italia 33 - 20060 Cassano (MI) ITALY

CE 0080 Ex II 2G II 2D
FIDI 21ATEX 0090X
IECEx FIDI 21.0015X
Year of construction:

MADE IN ITALY

TYPE: AQ-252612P
230VAC 50Hz 20A
Max Dis. P. 6W

Ex eb IIC T6 Gb
Ex tb IIIC T85°C Db
IP66
T.amb. -20/+40°C
Serial Nr.

WARNINGS : DO NOT OPEN WHEN ENERGIZED

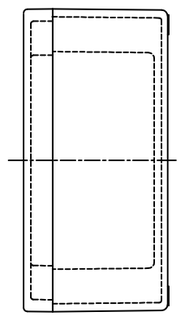
A002MAX

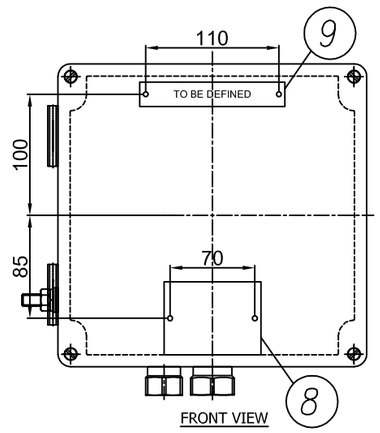
(9) PLATE DETAIL



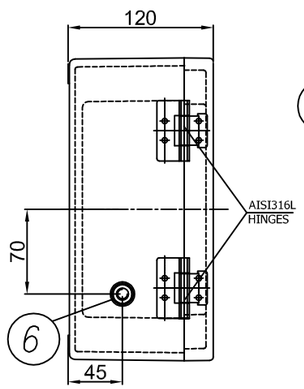
MATERIAL: LAMINATED PLASTIC
BACKGROUND: WHITE
LETTERS: BLACK

(7) JB for Normal Lighting have terminals bridge: L-L-L-L-L, N-N-N-N-N, PE-PE-PE-PE-PE - JB for Emergency Lighting have terminals bridge: L-L-L, N-N-N, PW-PW-PW, PE-PE-PE-PE-PE

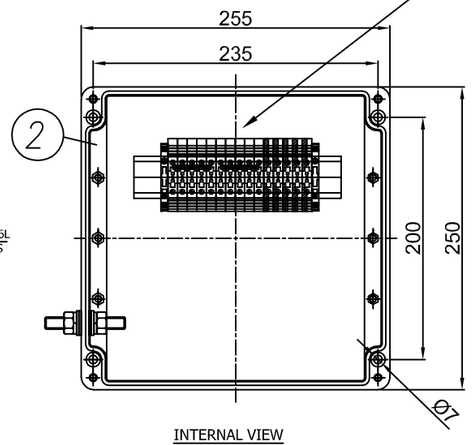

RIGHT VIEW



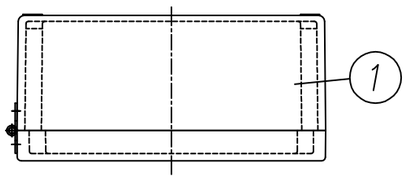
FRONT VIEW



LEFT VIEW



INTERNAL VIEW



TOP VIEW

ITEM	DESCRIPTION	Pcs Q.TY	NOTE/MAT.	CODE	MANUFACTURER
11	DUSTPROOF PVC PLUG Ø25	2	–	.	TECHNOR ITALSMEA
10	DUSTPROOF PVC PLUG Ø20	1	–	.	TECHNOR ITALSMEA
9	LAMINATED PLASTIC TAG 120X20	1	–	.	TECHNOR ITALSMEA
8	AISI316L CERTIFICATE PLATE 80X60	1	–	.	TECHNOR ITALSMEA
7	BEIGE TERMINAL BLOCK SIZE 6 SQMM EARTH TERMINAL BLOCK SIZE 6 SQMM	105	WDU–6 WPE–6	.	WEIDMULLER
6	AISI316L INT/EXT EARTH BOLT M10	1	BTP–10	.	TECHNOR ITALSMEA
5	BRASS CONTINUITY PLATE THK. 0.8 MM	1	–	.	TECHNOR ITALSMEA
4	NICKEL PLATED BRASS PLUG M20	1	T20	.	TECHNOR ITALSMEA
3	NICKEL PLATED BRASS PLUG M25	1	T25	.	TECHNOR ITALSMEA
2	INTERNAL MOUNTING PLATE	1	PS–2526	.	TECHNOR ITALSMEA
1	GRP ENCLOSURE	1	AQ–252612P	.	TECHNOR ITALSMEA

-UNPAINTED (BLACK NATURAL)
Q.TY 92, ITEM 20: 2JBXXGPEE, ELEJB02

Explosion Proof
Electrical Equipment
Materiali Elettrici Antideflagranti

TECHNOR ITALSMEA
A COMPANY OF MARECHAL ELECTRIC

CROSSWIND

ROSETTI MARINO

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
04	26/11/24	FB	OB	OB	ACCEPTED FOR CONSTRUCTION (AFC)
03	25/10/24	FB	OB	OB	ACCEPTED FOR CONSTRUCTION (AFC)
02	12/09/24	FB	OB	OB	ACCEPTED FOR CONSTRUCTION (AFC)
01	03/09/24	FB	OB	OB	ACCEPTED FOR CONSTRUCTION (AFC)
00	30/07/24	FB	OB	OB	ISSUE FOR REVIEW (IFR)

TITLE : BASE LOAD POWER HUB (BLPH)

Junction Box for Normal & Emergency Lighting

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE : NTS

A3

DRAWING NO. 1724001481-EL-DA-00003

SHEET 004

REV. 04

F.to UNI A3: 420mmx297mm

File Name : 1724001481-EL-DA-00003 Rev. 01

ENCLOSURE N°	TAG LIST	NORMAL LIGHTNING	EMERGENCY LIGHTNING
1	EJB-200N1-03-L2-04	X	
2	EJB-200N1-03-L2-03	X	
3	EJB-200N1-03-L2-01	X	
4	EJB-200N1-03-L2-02	X	
5	EJB-200N1-03-L2-12	X	
6	EJB-200N1-03-L2-11	X	
7	EJB-200N1-03-L2-10	X	
8	EJB-200N1-03-L2-09	X	
9	EJB-200N1-03-L2-08	X	
10	EJB-200N1-03-L2-07	X	
11	EJB-200N1-03-L2-06	X	
12	EJB-200N1-03-L2-05	X	
13	EJB-200N1-03-L2-14	X	
14	EJB-200N1-03-L2-13		X
15	EJB-200N1-09-L2-17		X
16	EJB-200N1-09-L2-01		X
17	EJB-200N1-09-L2-04		X
18	SPARE (TO BE PROVIDED BLANK)		X
19	EJB-200N1-09-L2-02		X
20	EJB-200N1-09-L2-15		X
21	EJB-200N1-09-L2-14		X
22	EJB-200N1-09-L2-13		X
23	EJB-200N1-09-L2-12		X
24	EJB-200N1-09-L2-11		X
25	EJB-200N1-09-L2-10		X
26	EJB-200N1-09-L2-09		X
27	EJB-200N1-09-L2-08		X
28	EJB-200N1-09-L2-07		X
29	EJB-200N1-09-L2-06		X
30	EJB-200N1-09-L2-05		X
31	EJB-200N1-09-L2-16	X	
32	EJB-200N1-04-L3-01	X	
33	EJB-200N1-04-L3-02	X	
34	EJB-200N1-10-L3-05		X
35	EJB-200N1-10-L3-06		X
36	EJB-200N1-10-L3-07		X
37	EJB-200N1-10-L3-08		X
38	EJB-200N1-10-L3-09		X
39	EJB-200N1-10-L3-02		X
40	EJB-200N1-10-L3-01		X
41	EJB-200N1-10-L3-03		X
42	EJB-200N1-10-L3-04		X
43	EJB-200N1-02-L1-03	X	
44	EJB-200N1-02-L1-02	X	
45	EJB-200N1-02-L1-01	X	
46	SPARE (TO BE PROVIDED BLANK)	X	
47	EJB-200N1-02-L1-10	X	
48	EJB-200N1-02-L1-19	X	
49	EJB-200N1-02-L1-18	X	

ENCLOSURE N°	TAG LIST	NORMAL LIGHTNING	EMERGENCY LIGHTNING
50	EJB-200N1-02-L1-17	X	
51	EJB-200N1-02-L1-16	X	
52	EJB-200N1-02-L1-15	X	
53	EJB-200N1-02-L1-14	X	
54	EJB-200N1-02-L1-13	X	
55	EJB-200N1-02-L1-12	X	
56	EJB-200N1-02-L1-11	X	
57	EJB-200N1-02-L1-06	X	
58	EJB-200N1-02-L1-05	X	
59	EJB-200N1-02-L1-07	X	
60	EJB-200N1-02-L1-08	X	
61	EJB-200N1-02-L1-09	X	
62	EJB-200N1-08-L1-03		X
63	SPARE (TO BE PROVIDED BLANK)		X
64	EJB-200N1-08-L1-01		X
65	EJB-200N1-08-L1-04		X
66	EJB-200N1-08-L1-19		X
67	EJB-200N1-08-L1-18		X
68	EJB-200N1-08-L1-17		X
69	EJB-200N1-08-L1-16		X
70	EJB-200N1-08-L1-15		X
71	EJB-200N1-08-L1-14		X
72	~~EJB-200N1-08-L1-13~~ EJB-200N1-02-L1-20	X	
73	EJB-200N1-08-L1-12		X
74	EJB-200N1-08-L1-11		X
75	EJB-200N1-08-L1-10		X
76	EJB-200N1-08-L1-20		X
77	EJB-200N1-08-L1-05		X
78	EJB-200N1-08-L1-06		X
79	EJB-200N1-08-L1-07		X
80	EJB-200N1-08-L1-09		X
81	EJB-200N1-08-L1-08		X
82	EJB-200F2-01	X	
83	EJB-200F2-02	X	
84	SPARE (TO BE PROVIDED BLANK)	X	
85	SPARE (TO BE PROVIDED BLANK)	X	
86	SPARE (TO BE PROVIDED BLANK)	X	
87	SPARE (TO BE PROVIDED BLANK)	X	
88	SPARE (TO BE PROVIDED BLANK)	X	
89	SPARE (TO BE PROVIDED BLANK)		X
90	SPARE (TO BE PROVIDED BLANK)		X
91	SPARE (TO BE PROVIDED BLANK)		X
92	SPARE (TO BE PROVIDED BLANK)		X

Q.TY 92, ITEM 20: 2JBXXGPEE, ELEJB02

Explosion Proof
Electrical Equipment
Materiali Elettrici Antideflagranti

TECHNOR ITALSMEA
A COMPANY OF MARECHAL ELECTRIC

CROSSWIND

ROSETTI MARINO

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
04	26/11/24	FB	OB	OB	ACCEPTED FOR CONSTRUCTION (AFC)
03	25/10/24	FB	OB	OB	ACCEPTED FOR CONSTRUCTION (AFC)
02	12/09/24	FB	OB	OB	ACCEPTED FOR CONSTRUCTION (AFC)
01	03/09/24	FB	OB	OB	ACCEPTED FOR CONSTRUCTION (AFC)
00	30/07/24	FB	OB	OB	ISSUE FOR REVIEW (IFR)

TITLE : BASE LOAD POWER HUB (BLPH)

Junction Box for Normal & Emergency Lighting–Tag List

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE : NTS

A3

DRAWING NO. 1724001481-EL-DA-00003

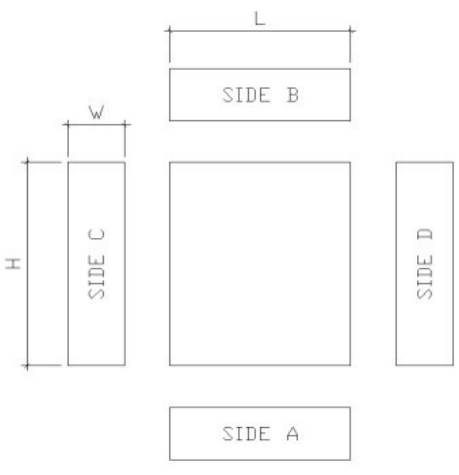
SHEET 005

REV. 04

F.to UNI A3: 420mmx297mm

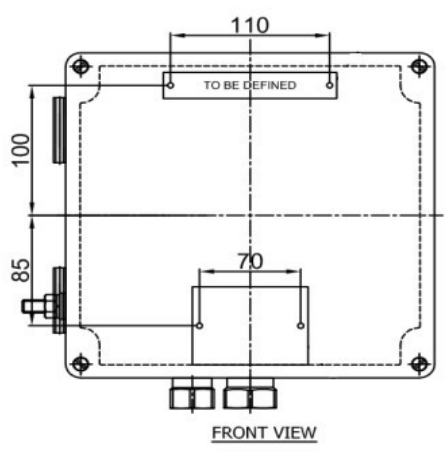
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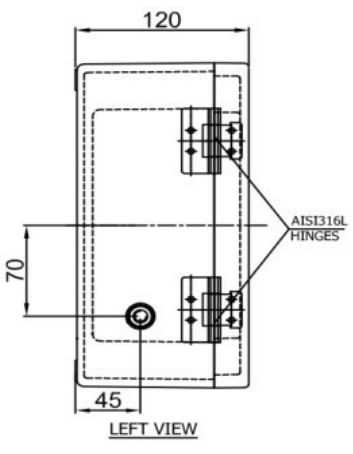
Row	Data Sheet for Control Stations, Junction Boxes and Sockets				Rev.
1	Junction Box for Normal & Emergency Lighting (Exdb)				
2	Item	Required	Manufacturer Proposal	Comments	
3	Model Number	by Vendor	AQ-252612P		01
4	Serial Number	by Vendor	B011041010004		01
5	Quantity	43+5(spare)		(39+9 spare)	01
6	Appkication	Lighting pole JB/Lighting JB			00
7	**Installation area**				
8	Indoor/Outdoor	Outdoor			00
9	Safe Area/Hazardous Area	Hazardous area			00
10	Zone 1/Zone 2	Zone-1			00
11	Temp. Class	Zone 1 Gas Group IIC (or) IIB + H2, T1	Ex eb IIC, T6 Gb		01
12	**Electrical input data**				
13	Voltage	230 V ac	230 V ac		01
14	Number of Phases	1ph + N + PE			00
15	**Material**				
16	Body	GRP	GRP		01
17	Execution	Ex eb	Ex eb		00
18	Protection Degree	IP56	IP 66		01
19	**Accessories**				
20	Hinged Cover	Required	AISI316L Hinges		01
21	Gasket	Required			00
22	Removable Gland Plates	Required	Brass Continuity plate 0.8mm thick		01
23	Internal Mounting Plate	Thickness 3mm threaded		connected to Internal ground bar	00
24	Internal Ground Bar	Required		connected to earth stud	00
25	Earth Stud	Required			00
26	Drainage Valve	Required			00
27	Pad lockable Cover	Required			00
28	Identification Label	Trafolite/ Stainless Steel	Laminated Plastic	for all label	01
29	**Side 'A'**				
30	Hubs Qty.	5	5		01
31	Size	No.3 M25, No.2 M20	No.3 Ø 25.2 mm, No.2 Ø 20.2 mm		01
32	Thread	ISO-M			00
33	Plug	No. 1 M20, No.1 M25	No. 1 Ø 20.2 mm, No.1 Ø 25.2 mm	nickel-plated brass	01
34	**Side 'B'**				
35	Hubs Qty.	Not Required			00
36	Size	NA			00
37	Thread	NA			00
38	**Side 'C'**				
39	Hubs Qty.	Not Required			00
40	Size	NA			00
41	Thread	NA			00
42	**Side 'D'**				
43	Hubs Qty.	Not Required			00
44	Size	NA			00
45	Thread	NA			00
46	**Terminals**				
47	Size [mm^2]	Suitable for 6 Sq.mm & 2.5 Sq.mm Cable	M25 & M20	suitable with wire-end ferrules DIN 46228	01
48	Qty.	n°5 for Ph // n°5 for N // n°5 for PE	n°5 for Ph // n°5 for N // n°5 for PE	Ex - jumpered	01
49	**Bonding Cable (yellow/Green)**				
50	Size [mm^2]	by vendor		6 mm^2	01
51	Qty.	Min. 0.15m			00
52	**Dimension**				
53	Height 'H' [mm]	by vendor	120 mm		01
54	Width 'W' [mm]	by vendor	250 mm		01
55	Length 'L' [mm]	by vendor	255 mm		01
56	Weight [Kg]	by vendor	2.65 Kg		01
57	JB Code (*)	Remarks			
58					



NOTES:

(*) Filled by Vendor





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Tag Number	Tag Description	Location	P.O.	Vendor	Manufacturer	Serial Number	Model Type Catalogue Number	Installation Zone	ATEX Certificate Number	Reference Document	ATEX Certification Marking	Notes / Comments	Skid / Package	Electrical Equip.	Barrier Calculation Ref.	Special Conditions of Safe Use Applicable	3D Location
CB-200F4B	AC UPS F&G - Battery Isolator-B	CONTAINER B-300 (LOWER DECK)	1724000372	3W Power	Cortem Spa		EJBC	Zone 1	EPT 20 ATEX 4075X	1724000372-EL-DG-00011	II 2GDEx db IIC T6 Gb Ex tb IIIC T 85°C Db	-	N/A	True	N/A	False	
EAT-200N1-01	Trace Heating - Remote Ambient Thermostat	LOWER DECK	1724001647	nVent	nVent	1244-022663	ETS-05-A2-E-A	Zone 1	Baseefa 13ATEX0137	1724001647-EL-DD-00004	II 2(1)G Ex eb ia mb [ia Ga] IIC T5 Gb - 40ºC ≤ Ta ≤ +60ºC II 2D Ex tb IIIC T100ºC Db	-	N/A	True	N/A	False	
EHT-1001-A	Self-regulating heat cable	LOWER DECK	1724001647	nVent	nVent	469145-000	3BTV2-CT	Zone 1	SGS20ATEX0048X	1724001647-EL-DD-00004	II 2 GD Ex 60079-30-1 eb IIC T6 Gb	-	N/A	True	N/A	True	
EHT-1002-A	Self-regulating heat cable	LOWER DECK	1724001647	nVent	nVent	469145-000	3BTV2-CT	Zone 1	SGS20ATEX0048X	1724001647-EL-DD-00004	II 2 GD Ex 60079-30-1 eb IIC T6 Gb	-	N/A	True	N/A	True	
EHT-1003-A	Self-regulating heat cable	LOWER DECK	1724001647	nVent	nVent	469145-000	3BTV2-CT	Zone 1	SGS20ATEX0048X	1724001647-EL-DD-00004	II 2 GD Ex 60079-30-1 eb IIC T6 Gb	-	N/A	True	N/A	True	
EHT-1004-A	Self-regulating heat cable	UPPER DECK	1724001647	nVent	nVent	469145-000	3BTV2-CT	Zone 1	SGS20ATEX0048X	1724001647-EL-DD-00004	II 2 GD Ex 60079-30-1 eb IIC T6 Gb	-	N/A	True	N/A	True	
EHT-1004-B	Self-regulating heat cable	UPPER DECK	1724001647	nVent	nVent	469145-000	3BTV2-CT	Zone 1	SGS20ATEX0048X	1724001647-EL-DD-00004	II 2 GD Ex 60079-30-1 eb IIC T6 Gb	-	N/A	True	N/A	True	
EHT-1005-A	Self-regulating heat cable	UPPER DECK	1724001647	nVent	nVent	469145-000	3BTV2-CT	Zone 1	SGS20ATEX0048X	1724001647-EL-DD-00004	II 2 GD Ex 60079-30-1 eb IIC T6 Gb	-	N/A	True	N/A	True	
EHT-1006-A	Self-regulating heat cable	UPPER DECK	1724001647	nVent	nVent	469145-000	3BTV2-CT	Zone 1	SGS20ATEX0048X	1724001647-EL-DD-00004	II 2 GD Ex 60079-30-1 eb IIC T6 Gb	-	N/A	True	N/A	True	
EHT-1007-A	Self-regulating heat cable	LOWER DECK	1724001647	nVent	nVent	469145-000	3BTV2-CT	Zone 1	SGS20ATEX0048X	1724001647-EL-DD-00004	II 2 GD Ex 60079-30-1 eb IIC T6 Gb	-	N/A	True	N/A	True	
EHT-2002-A	Self-regulating heat cable	UPPER DECK	1724001647	nVent	nVent	469145-000	3BTV2-CT	Zone 1	SGS20ATEX0048X	1724001647-EL-DD-00004	II 2 GD Ex 60079-30-1 eb IIC T6 Gb	-	N/A	True	N/A	True	
EJB-200F2-01	Top Obstruction Lights Junction Box	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990082	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	HAZARDOUS-AREA_8 HAZARDOUS-AREA_3
EJB-200F2-02	Intermediate obstruction lights junction box	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990083	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	HAZARDOUS-AREA_4
EJB-200N1-02-L1-01	Normal Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990045	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-02-L1-02	Normal Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990044	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-02-L1-03	Normal Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990043	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	HAZARDOUS-AREA_3
EJB-200N1-02-L1-05	Normal Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990058	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-02-L1-06	Normal Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990057	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-02-L1-07	Normal Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990059	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-02-L1-08	Normal Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990060	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-02-L1-09	Normal Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990061	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-02-L1-10	Normal Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990047	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-02-L1-11	Normal Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990056	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-02-L1-12	Normal Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990055	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-02-L1-13	Normal Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990054	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-02-L1-14	Normal Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990053	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-02-L1-15	Normal Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990052	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-02-L1-16	Normal Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990051	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-02-L1-17	Normal Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990050	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-02-L1-18	Normal Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990049	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-02-L1-19	Normal Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990048	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-02-L1-20	Normal Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990072	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-03-L2-01	Normal Lighting JB	LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990003	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-03-L2-02	Normal Lighting JB	LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990004	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-03-L2-03	Normal Lighting JB	LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990002	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-03-L2-04	Normal Lighting JB	LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990001	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-03-L2-05	Normal Lighting JB	LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990012	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-03-L2-06	Normal Lighting JB	LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990011	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-03-L2-07	Normal Lighting JB	LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990010	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-03-L2-08	Normal Lighting JB	LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990009	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-03-L2-09	Normal Lighting JB	LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990008	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-03-L2-10	Normal Lighting JB	LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990007	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-03-L2-11	Normal Lighting JB	LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990006	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-03-L2-12	Normal Lighting JB	LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990005	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-03-L2-13	Normal Lighting JB	LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990014	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-03-L2-14	Normal Lighting JB	LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990013	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-04-L3-01	Stair Normal Lighting JB	LOWER DECK STAIRS	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990032	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-04-L3-02	Stair Normal Lighting JB	LOWER DECK STAIRS	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990033	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-08-L1-01	Emergency Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990064	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-08-L1-03	Emergency Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990062	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	HAZARDOUS-AREA_3
EJB-200N1-08-L1-04	Emergency Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990065	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-08-L1-05	Emergency Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990077	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-08-L1-06	Emergency Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990078	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	

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[1] # EU – TYPE EXAMINATION CERTIFICATE

[2] Equipment or Protective Systems Intended for use in Potentially Explosive Atmospheres Directive 2014/34/EU.

[3] EU-Type Examination Certificate Number: **FIDI 21 ATEX 0090X** Issue: **1**

[4] Product: **Junction boxes, local control stations and local control panels**

Type: **AQ-***P / AQ-***AL / AR-***P / AR-***AL**
AQ-*P-HT / AQ-***AL-HT / AR-***P-HT / AR-***AL-HT**
SB-* / ST-***
EFE-* / EFXE-*** AL / EFXE-***SB / EFXE-***ST**
EFE-*-HT / EFXE-***AL-HT**

[5] Manufacturer: **Technor Italsmea S.p.A.**

[6] Address: **Via Italia 33, 20060 Gessate (MI), Italy**

[7] This product and any acceptable variation thereto is specified in the schedule to this certificate and documents therein referred to.

[8] FIDITAS Ltd., Notified Body number 2829 in accordance with Article 17 of Directive 2014/34/EU of the European Parliament and of the Council, dated 26 February 2014, certifies that this product has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of products intended for use in potentially explosive atmospheres given in Annex II of the Directive.

The examination and test results are recorded in confidential Report No: **FIDI 21 CR 075**

[9] Compliance with the Essential Health and Safety Requirements has been assured by compliance with:

EN IEC 60079-0:2018	**EN 60079-1:2014**	**EN IEC 60079-7:2015 / A1:2018**
EN 60079-11:2012	**EN 60079-18:2015/A1:2017**	**EN 60079-31:2014**

except in respect of those requirements listed at item 18 of the Schedule.

[10] If the sign 'X' is placed after the certificate number, it indicates that the product is subject to Specific Conditions of Use specified in the schedule to this certificate.

[11] This EU-Type Examination Certificate relates only to the design, examination and test of the specified product in accordance with Annex III. Further requirements of the Directive apply to the manufacturing process and supply of this products. These are not covered by this certificate.

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[12] The marking of the product shall include the following:



II 1 G	**Ex ia IIC/IIB T6...T4 Ga**(2) or
II 2(1) G or **II 2(2) G**	**Ex db eb ia/ib mb [**(3)**] IIC/IIB T6...T4 Gb**(1) or
II 2 G	**Ex eb IIC/IIB T6...T4 Gb**(1) or
II 2 D	**Ex tb IIIC T85°C...T135°C Db**

(1) Others type of protection additional to 'eb' depending to the components actually mounted.

(2) In case of enclosures containing 'eb' terminals and/or 'ia Ga' already certified components (with compatible marking) only.

(3) Associated equipment protection depending on the components actually mounted (see lists): e.g. [ia/ib/ia Ga/ia IIIC Da] and/or [ia IIIC Da] or [ia/ib/ia Ga/ia IIIC Da] and/or [ia/ib/ia Ga] [ia IIIC Da]

Our ref.: 21.CRT.400

Date: 23. 12.2021.

Fiditas d.o.o. ZAGREB

FIDITAS Ltd.
Certification department
Approved:

Marino Kelava, M.E.Eng.

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[13] **SCHEDULE**

[14] **EU - TYPE EXAMINATION CERTIFICATE No.:** **FIDI 21 ATEX 0090X**

[15] **Description of product**

Junction boxes, local control stations and local control panels are made of 'eb' and 'tb' enclosures in stainless steel, aluminium alloy or glass fiber reinforced polyester resin, of various dimensions, which shall house 'eb' and/or 'ia/ib' terminals and/or Ex components or Ex equipment made in different type of Ex protection. All Ex terminals, Ex components and Ex equipment are covered by their own ATEX certificates.

The terminals and components are be used according to data available in related component certificates, in relevant temperature range, voltage and current limitations. The terminals must be fitted in accordance with EN IEC 60079-0 and EN IEC 60079-7 with regards to creepage and clearance distances, and according to related safety instructions.

The cover is fixed to the body with screw, between body and cover a gasket guarantee the protection degree IP66 (IP66/67 depending on models). The cover of stainless-steel enclosure can be also fixed the body with looking devices, between body and cover a gasket guarantee the protection degree IP66. The IP degree of junction boxes, local control stations and local control panels depend on the components actually mounted. The walls and the bottom of the boxes can be drilled and taped with maximum size and maximum number of holes as specified in the manufacturer documents.

The cable glands or plugs, with separate ATEX certificate, made in type of protection 'eb' and/or 'tb' with appropriate IP protection are mounted according to related manufacturer's installation instructions. Each enclosure is provided with internal earthing certified terminal or earthing screw or bolt. Metal enclosures are provided by external earthing screw or bolt. Metal and polyester enclosures can be provided by passing through earthing terminals.

All enclosures can be provided by:
- Externally installed accessories as specified in manufacturer documents,
- Drain breath device type ECR3, included in this certificate,
- Internal/external earthing plate.

Model identification

Junction boxes

A(1)-(2) (3) (4) (5) (6)	(1) –	**Q**: Square size **R**: Rectangular size
	(2) (3) (4)	dimension, in cm
	(5)	Material **P**: Glass fiber reinforced polyester resin **AL**: Aluminium Alloy
	(6)	None: up to internal temperature of 105°C **HT**: up to internal temperature of 130°C
SB- (2) (3) (4)	(2) (3) (4)	dimension, in cm
ST- (2) (3) (4)	(2) (3) (4)	dimension, in cm

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Panel boards

EFE- (2) (3) (4) (6)	(2) (3) (4)	dimension, in cm
	(6)	None: up to internal temperature of 105°C **HT**: up to internal temperature of 130°C
EFXE- (2) (3) (4) (5) (6)	(2) (3) (4)	dimension, in cm
		Material
	(5)	**SB** or **ST**: stainless steel **AL**: Aluminium Alloy
	(6)	None: up to internal temperature of 105°C **HT**: up to internal temperature of 130°C

Technical data:

Electrical data:	According to Ex component to actually installed
Ambient temperature:	-50°C ÷ +95°C Other possible ranges are with: - min temperature: -50°C to -20 °C - max temperature of +40 °C to +95 °C
Mechanical protection:	IP66/IP67 depending on models IP66 without swing handle element IP55 with swing handle element

Temperature class and/or maximum surface temperature of any junction box or control panel depend on ambient temperature and internal power dissipation. The values that must be observed are given in relevant tables in this certificate.

For commercial reasons model name listed in the tables below can be modified as follows: first (2) and second (3) pair of digits can be reversed.

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Model sizes

Polyester High Temperature		Aluminium High Temperature	
AQ-080806P-HT	EFE-080806-HT	AQ-080806AL-HT	EFXE-080806AL-HT
AQ-080808P-HT	EFE-080808-HT	AR-081306AL-HT	EFXE-081306AL-HT
AR-081106P-HT	EFE-081106-HT	AR-081806AL-HT	EFXE-081806AL-HT
AR-081108P-HT	EFE-081108-HT	AR-082505AL-HT	EFXE-082505AL-HT
AR-081606P-HT	EFE-081606-HT	AQ-101008AL-HT	EFXE-101008AL-HT
AR-081608P-HT	EFE-081608-HT	AR-101608AL-HT	EFXE-101608AL-HT
AR-081906P-HT	EFE-081906-HT	AR-102008AL-HT	EFXE-102008AL-HT
AR-081908P-HT	EFE-081908-HT	AQ-121208AL-HT	EFXE-121208AL-HT
AR-082306P-HT	EFE-082306-HT	AQ-121209AL-HT	EFXE-121209AL-HT
AR-082308P-HT	EFE-082308-HT	AR-122208AL-HT	EFXE-122208AL-HT
AQ-121209P-HT	EFE-121209-HT	AR-122209AL-HT	EFXE-122209AL-HT
AR-122209P-HT	EFE-122209-HT	AR-123608AL-HT	EFXE-123608AL-HT
AQ-161609P-HT	EFE-161609-HT	AQ-141409AL-HT	EFXE-141409AL-HT
AR-162609P-HT	EFE-162609-HT	AR-142009AL-HT	EFXE-142009AL-HT
AR-163609P-HT	EFE-163609-HT	AQ-161609AL-HT	EFXE-161609AL-HT
AR-165609P-HT	EFE-165609-HT	AR-162609AL-HT	EFXE-162609AL-HT
AQ-202017P-HT	EFE-202017-HT	AR-163609AL-HT	EFXE-163609AL-HT
AR-203017P-HT	EFE-203017-HT	AR-165609AL-HT	EFXE-165609AL-HT
AQ-252612P-HT	EFE-252612-HT	AQ-181810AL-HT	EFXE-181810AL-HT
AQ-252616P-HT	EFE-252616-HT	AR-182810AL-HT	EFXE-182810AL-HT
AR-254012P-HT	EFE-254012-HT	AR-102311AL-HT	EFXE-102311AL-HT
AR-254016P-HT	EFE-254016-HT	AR-202311AL-HT	EFXE-202311AL-HT
AR-256012P-HT	EFE-256012-HT	AR-202318AL-HT	EFXE-202318AL-HT
AR-304020P-HT	EFE-304020-HT	AR-232811AL-HT	EFXE-232811AL-HT
AQ-363609P-HT	EFE-363609-HT	AR-233311AL-HT	EFXE-233311AL-HT
AR-406025P-HT	EFE-406025-HT	AR-233318AL-HT	EFXE-233318AL-HT
AQ-414012P-HT	EFE-414012-HT	AR-234011AL-HT	EFXE-234011AL-HT
AQ-414020P-HT	EFE-414020-HT	AR-234023AL-HT	EFXE-234023AL-HT
		AR-236011AL-HT	EFXE-236011AL-HT
		AR-314011AL-HT	EFXE-314011AL-HT
		AR-314014AL-HT	EFXE-314014AL-HT
		AR-314018AL-HT	EFXE-314018AL-HT
		AR-314023AL-HT	EFXE-314023AL-HT
		AR-316011AL-HT	EFXE-316011AL-HT
		AR-316018AL-HT	EFXE-316018AL-HT
		AQ-606020AL-HT	EFXE-606020AL-HT

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Polyester		Aluminium		Stainless steel	
AQ-080806P	EFE-080806	AQ-080806AL	EFXE-080806AL	SB-101210	EFXE-101210SB
AQ-080808P	EFE-080808	AR-081306AL	EFXE-081306AL	SB-151510	EFXE-151510SB
AR-081106P	EFE-081106	AR-081806AL	EFXE-081806AL	SB-142013	EFXE-142013SB
AR-081606P	EFE-081606	AR-081808AL	EFXE-081808AL	SB-202010	EFXE-202010SB
AR-081906P	EFE-081906	AR-082505AL	EFXE-082505AL	SB-202016	EFXE-202016SB
AQ-121209P	EFE-121209	AR-082508AL	EFXE-082508AL	SB-202713	EFXE-202713SB
AR-122209P	EFE-122209	AQ-101008AL	EFXE-101008AL	SB-272713	EFXE-272713SB
AQ-161609P	EFE-161609	AR-101508AL	EFXE-101508AL	SB-203016	EFXE-203016SB
AR-162609P	EFE-162609	AR-101608AL	EFXE-101608AL	SB-273513	EFXE-273513SB
AR-163609P	EFE-163609	AR-102008AL	EFXE-102008AL	SB-282816	EFXE-282816SB
AQ-252612P	EFE-252612	AQ-121208AL	EFXE-121208AL	SB-204016	EFXE-204016SB
AQ-252616P	EFE-252616	AR-122209AL	EFXE-122209AL	SB-353516	EFXE-353516SB
AR-254012P	EFE-254012	AQ-141409AL	EFXE-141409AL	SB-282827	EFXE-282827SB
AR-254016P	EFE-254016	AR-142009AL	EFXE-142009AL	SB-355016	EFXE-355016SB
AR-256012P	EFE-256012	AQ-161609AL	EFXE-161609AL	SB-383816	EFXE-383816SB
AQ-414012P	EFE-414012	AR-162410AL	EFXE-162410AL	SB-384516	EFXE-384516SB
		AR-162609AL	EFXE-162609AL	SB-385716	EFXE-385716SB
		AQ-181810AL	EFXE-181810AL	SB-505016	EFXE-505016SB
		AR-182810AL	EFXE-182810AL	SB-383827	EFXE-383827SB
		AR-202311AL	EFXE-202311AL	SB-575716	EFXE-575716SB
		AR-202318AL	EFXE-202318AL	SB-577620	EFXE-577620SB
		AR-232811AL	EFXE-232811AL	SB-575730	EFXE-575730SB
		AR-233312AL	EFXE-233312AL	SB-769520	EFXE-769520SB
		AR-233318AL	EFXE-233318AL	SB-1258040	EFXE-1258040SB

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Enclosure types (Stainless steel)	
ST-101210	EFXE-101210ST
ST-151510	EFXE-151510ST
ST-142013	EFXE-142013ST
ST-202010	EFXE-202010ST
ST-202016	EFXE-202016ST
ST-202713	EFXE-202713ST
ST-272713	EFXE-272713ST
ST-203016	EFXE-203016ST
ST-273513	EFXE-273513ST
ST-282816	EFXE-282816ST
ST-204016	EFXE-204016ST
ST-353516	EFXE-353516ST
ST-282827	EFXE-282827ST
ST-355016	EFXE-355016ST
ST-383816	EFXE-383816ST
ST-384516	EFXE-384516ST
ST-385716	EFXE-385716ST
ST-505016	EFXE-505016ST
ST-383827	EFXE-383827ST
ST-575716	EFXE-575716ST
ST-577620	EFXE-577620ST
ST-575730	EFXE-575730ST
ST-769520	EFXE-769520ST
ST-1258040	EFXE-1258040ST

Note 2 For stainless steel enclosures: dimensions (2) and (3) can be decreased or increased up to 20%, dimensions (4) can be increased up to 500 mm. Model name changes consequently.

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Power dissipation – HT glass fiber reinforced polyester resin enclosures

Enclosure types (polyester)		Maximum power dissipation (W) – Tamb. up to **40**°C							
		INTERNAL TEMP.60°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)	INTERNAL TEMP.127°C (T4/T135°C)
AQ-080806P-HT	EFE-080806-HT	3,5	5,2	7,0	7,8	9,6	10,4	11,3	15,2
AQ-080808P-HT	EFE-080808-HT	4,6	6,8	9,1	10,2	12,5	13,7	14,8	19,8
AR-081106P-HT	EFE-081106-HT	4,3	6,4	8,5	9,6	11,8	12,8	13,9	18,6
AR-081108P-HT	EFE-081108-HT	5,6	8,4	11,2	12,6	15,3	16,7	18,1	24,2
AR-081606P-HT	EFE-081606-HT	5,8	8,7	11,6	13,0	15,9	17,4	18,8	25.2
AR-081608P-HT	EFE-081608-HT	6,8	10,2	13,7	15,4	18,8	20,5	22,2	29,7
AR-081906P-HT	EFE-081906-HT	6,4	9,6	12,8	14,4	17,6	19,2	20,8	27,8
AR-081908P-HT	EFE-081908-HT	7,5	11,3	15,1	17,0	20,7	22,6	24,5	32,7
AR-082306P-HT	EFE-082306-HT	7,2	10,8	14,4	16,2	19,8	21,6	23,4	31,3
AR-082308P-HT	EFE-082308-HT	8,5	12,7	16,9	19,0	23,3	25,4	27,5	36,7
AQ-121209P-HT	EFE-121209-HT	8,0	12,0	15,9	17,9	21,9	23,9	25,9	34,7
AR-122209P-HT	EFE-122209-HT	10,8	16,2	21,6	24,3	29,7	32,4	35,1	47,0
AQ-161609P-HT	EFE-161609-HT	10,4	15,6	20,8	23,4	28,6	31,2	33,8	45,2
AR-162609P-HT	EFE-162609-HT	13,4	20,1	26,8	30,2	36,9	40,2	43,6	58,3
AR-163609P-HT	EFE-163609-HT	16,2	24,3	32,4	36,5	44,6	48,6	52,7	70,5
AR-165609P-HT	EFE-165609-HT	21,4	32,0	42,7	48,1	58,7	64,1	69,4	92,9
AQ-202017P-HT	EFE-202017-HT	18,0	26,9	35,9	40,4	49,4	53,9	58,4	78,1
AR-203017P-HT	EFE-203017-HT	20,9	31,3	41,7	47,0	57,4	62,6	67,8	90,8
AQ-252612P-HT	EFE-252612-HT	18,8	28,2	37,6	42,4	51,8	56,5	61,2	81,9
AQ-252616P-HT	EFE-252616-HT	20,8	31,1	41,5	46,7	57,1	62,3	67,5	90,3
AR-254012P-HT	EFE-254012-HT	22,8	34,2	45,7	51,4	62,8	68,5	74,2	99,3
AR-254016P-HT	EFE-254016-HT	26,2	39,3	52,4	58,9	72,0	78,6	85,1	113,9
AR-256012P-HT	EFE-256012-HT	29,0	43,6	58,1	65,3	79,9	87,1	94,4	126,3
AR-304020P-HT	EFE-304020-HT	32,3	48,5	64,7	72,7	88,9	97,0	105,1	140,7
AQ-363609P-HT	EFE-363609-HT	23,0	34,6	46,1	51,8	63,4	69,1	74,9	100,2
AR-406025P-HT	EFE-406025-HT	50,3	75,5	100,7	113,3	138,4	151,0	163,6	218,9
AQ-414012P-HT	EFE-414012-HT	29,1	43,7	58,2	65,5	80,1	87,3	94,6	126,6
AQ-414020P-HT	EFE-414020-HT	36,6	55,0	73,3	82,4	100,8	109,9	119,1	159,4

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Enclosure types (polyester)		Maximum power dissipation (W) – Tamb. up to **50**°C							
		INTERNAL TEMP.60°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)	INTERNAL TEMP.127°C (T4/T135°C)
AQ-080806P-HT	EFE-080806-HT	1,7	3,5	5,2	6,1	7,8	8,7	9,6	13,4
AQ-080808P-HT	EFE-080808-HT	2,3	4,6	6,8	8,0	10,2	11,4	12,5	17,5
AR-081106P-HT	EFE-081106-HT	2,1	4,3	6,4	7,5	9,6	10,7	11,8	16,5
AR-081108P-HT	EFE-081108-HT	2,8	5,6	8,4	9,8	12,6	13,9	15,3	21.5
AR-081606P-HT	EFE-081606-HT	2,9	5,8	8,7	10,1	13,0	14,5	15,9	22,3
AR-081608P-HT	EFE-081608-HT	3,4	6,8	10,2	11,9	15,4	17,1	18,8	26,3
AR-081906P-HT	EFE-081906-HT	3,2	6,4	9,6	11,2	14,4	16,0	17,6	24,6
AR-081908P-HT	EFE-081908-HT	3,8	7,5	11,3	13,2	17,0	18,8	20,7	29,0
AR-082306P-HT	EFE-082306-HT	3,6	7,2	10,8	12,6	16,2	18,0	19,8	27,7
AR-082308P-HT	EFE-082308-HT	4,2	8,5	12,7	14,8	19,0	21,1	23,3	32,5
AQ-121209P-HT	EFE-121209-HT	4,0	8,0	12,0	14,0	17,9	19,9	21,9	30,7
AR-122209P-HT	EFE-122209-HT	5,4	10,8	16,2	18,9	24,3	27,0	29,7	41,6
AQ-161609P-HT	EFE-161609-HT	5,2	10,4	15,6	18,2	23,4	26,0	28,6	40,0
AR-162609P-HT	EFE-162609-HT	6,7	13,4	20,1	23,5	30,2	33,5	36,9	51,6
AR-163609P-HT	EFE-163609-HT	8,1	16,2	24,3	28,4	36,5	40,5	44,6	62,3
AR-165609P-HT	EFE-165609-HT	10,7	21,4	32,0	37,4	48,1	53,4	58,7	82,2
AQ-202017P-HT	EFE-202017-HT	9,0	18,0	26,9	31,4	40,4	44,9	49,4	69,1
AR-203017P-HT	EFE-203017-HT	10,4	20,9	31,3	36,5	47,0	52,2	57,4	80,4
AQ-252612P-HT	EFE-252612-HT	9,4	18,8	28,2	32,9	42,4	47,1	51,8	72,5
AQ-252616P-HT	EFE-252616-HT	10,4	20,8	31,1	36,3	46,7	51,9	57,1	79,9
AR-254012P-HT	EFE-254012-HT	11,4	22,8	34,2	39,9	51,4	57,1	62,8	87,9
AR-254016P-HT	EFE-254016-HT	13,1	26,2	39,3	45,8	58,9	65,5	72,0	100,8
AR-256012P-HT	EFE-256012-HT	14,5	29,0	43,6	50,8	65,3	72,6	79,9	111,8
AR-304020P-HT	EFE-304020-HT	16,2	32,3	48,5	56,6	72,7	80,8	88,9	124,4
AQ-363609P-HT	EFE-363609-HT	11,5	23,0	34,6	40,3	51,8	57,6	63,4	88,7
AR-406025P-HT	EFE-406025-HT	25,2	50,3	75,5	88,1	113,3	125,8	138,4	193,8
AQ-414012P-HT	EFE-414012-HT	14,6	29,1	43,7	51,0	65,5	72,8	80,1	112,1
AQ-414020P-HT	EFE-414020-HT	18,3	36,6	55,0	64,1	82,4	91,6	100,8	141,1

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Enclosure types (polyester)		Maximum power dissipation (W) – Tamb. up to **55**°C							
		INTERNAL TEMP.65°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)	INTERNAL TEMP.127°C (T4/T135°C)
AQ-080806P-HT	EFE-080806-HT	1,7	2,6	4,4	5,2	7,0	7,8	8,7	12,5
AQ-080808P-HT	EFE-080808-HT	2,3	3,4	5,7	6,8	9,1	10,2	11,4	16,2
AR-081106P-HT	EFE-081106-HT	2,1	3,2	5,3	6,4	8,5	9,6	10,7	15,2
AR-081108P-HT	EFE-081108-HT	2,8	4,2	7,0	8,4	11,2	12,6	13,9	19,8
AR-081606P-HT	EFE-081606-HT	2,9	4,3	7,2	8,7	11,6	13,0	14,5	20,6
AR-081608P-HT	EFE-081608-HT	3,4	5,1	8,5	10,2	13,7	15,4	17,1	24,3
AR-081906P-HT	EFE-081906-HT	3,2	4,8	8,0	9,6	12,8	14,4	16,0	22,8
AR-081908P-HT	EFE-081908-HT	3,8	5,7	9,4	11,3	15,1	17,0	18,8	26,8
AR-082306P-HT	EFE-082306-HT	3,6	5,4	9,0	10,8	14,4	16,2	18,0	25,6
AR-082308P-HT	EFE-082308-HT	4,2	6,3	10,6	12,7	16,9	19,0	21,1	30,0
AQ-121209P-HT	EFE-121209-HT	4,0	6,0	10,0	12,0	15,9	17,9	19,9	28,3
AR-122209P-HT	EFE-122209-HT	5,4	8,1	13,5	16,2	21,6	24,3	27,0	38,3
AQ-161609P-HT	EFE-161609-HT	5,2	7,8	13,0	15,6	20,8	23,4	26,0	36,9
AR-162609P-HT	EFE-162609-HT	6,7	10,1	16,8	20,1	26,8	30,2	33,5	47,6
AR-163609P-HT	EFE-163609-HT	8,1	12,2	20,3	24,3	32,4	36,5	40,5	57,5
AR-165609P-HT	EFE-165609-HT	10,7	16,0	26,7	32,0	42,7	48,1	53,4	75,8
AQ-202017P-HT	EFE-202017-HT	9,0	13,5	22,4	26,9	35,9	40,4	44,9	63,7
AR-203017P-HT	EFE-203017-HT	10,4	15,7	26,1	31,3	41,7	47,0	52,2	74,0
AQ-252612P-HT	EFE-252612-HT	9,4	14,1	23,5	28,2	37,6	42,4	47,1	66,8
AQ-252616P-HT	EFE-252616-HT	10,4	15,6	26,0	31,1	41,5	46,7	51,9	73,7
AR-254012P-HT	EFE-254012-HT	11,4	17,1	28,5	34,2	45,7	51,4	57,1	81,0
AR-254016P-HT	EFE-254016-HT	13,1	19,6	32,7	39,3	52,4	58,9	65,5	92,9
AR-256012P-HT	EFE-256012-HT	14,5	21,8	36,3	43,6	58,1	65,3	72,6	103,0
AR-304020P-HT	EFE-304020-HT	16,2	24,2	40,4	48,5	64,7	72,7	80,8	114,7
AQ-363609P-HT	EFE-363609-HT	11,5	17,3	28,8	34,6	46,1	51,8	57,6	81,8
AR-406025P-HT	EFE-406025-HT	25,2	37,8	62,9	75,5	100,7	113,3	125,8	178,6
AQ-414012P-HT	EFE-414012-HT	14,6	21,8	36,4	43,7	58,2	65,5	72,8	103,0
AQ-414020P-HT	EFE-414020-HT	18,3	27,5	45,8	55,0	73,3	82,4	91,6	130,0

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Enclosure types (polyester)		Maximum power dissipation (W) – Tamb. up to **60**°C						
		INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)	INTERNAL TEMP.127°C (T4/T135°C)
AQ-080806P-HT	EFE-080806-HT	1,7	3,5	4,4	6,1	7,0	7,8	11,7
AQ-080808P-HT	EFE-080808-HT	2,3	4,6	5,7	8,0	9,1	10,2	15,2
AR-081106P-HT	EFE-081106-HT	2,1	4,3	5,3	7,5	8,5	9,6	14,3
AR-081108P-HT	EFE-081108-HT	2,8	5,6	7,0	9,8	11,2	12,6	18,7
AR-081606P-HT	EFE-081606-HT	2,9	5,8	7,2	10,1	11,6	13,0	19,4
AR-081608P-HT	EFE-081608-HT	3,4	6,8	8,5	11,9	13,7	15,4	22,9
AR-081906P-HT	EFE-081906-HT	3,2	6,4	8,0	11,2	12,8	14,4	21,4
AR-081908P-HT	EFE-081908-HT	3,8	7,5	9,4	13,2	15,1	17,0	25,3
AR-082306P-HT	EFE-082306-HT	3,6	7,2	9,0	12,6	14,4	16,2	24,1
AR-082308P-HT	EFE-082308-HT	4,2	8,5	10,6	14,8	16,9	19,0	28,3
AQ-121209P-HT	EFE-121209-HT	4,0	8,0	10,0	14,0	15,9	17,9	26,7
AR-122209P-HT	EFE-122209-HT	5,4	10,8	13,5	18,9	21,6	24,3	36,2
AQ-161609P-HT	EFE-161609-HT	5,2	10,4	13,0	18,2	20,8	23,4	34,8
AR-162609P-HT	EFE-162609-HT	6,7	13,4	16,8	23,5	26,8	30,2	44,9
AR-163609P-HT	EFE-163609-HT	8,1	16,2	20,3	28,4	32,4	36,5	54,2
AR-165609P-HT	EFE-165609-HT	10,7	21,4	26,7	37,4	42,7	48,1	71,5
AQ-202017P-HT	EFE-202017-HT	9,0	18,0	22,4	31,4	35,9	40,4	60,1
AR-203017P-HT	EFE-203017-HT	10,4	20,9	26,1	36,5	41,7	47,0	69,9
AQ-252612P-HT	EFE-252612-HT	9,4	18,8	23,5	32,9	37,6	42,4	63,0
AQ-252616P-HT	EFE-252616-HT	10,4	20,8	26,0	36,3	41,5	46,7	69,5
AR-254012P-HT	EFE-254012-HT	11,4	22,8	28,5	39,9	45,7	51,4	76,5
AR-254016P-HT	EFE-254016-HT	13,1	26,2	32,7	45,8	52,4	58,9	87,7
AR-256012P-HT	EFE-256012-HT	14,5	29,0	36,3	50,8	58,1	65,3	97,2
AR-304020P-HT	EFE-304020-HT	16,2	32,3	40,4	56,6	64,7	72,7	108,3
AQ-363609P-HT	EFE-363609-HT	11,5	23,0	28,8	40,3	46,1	51,8	77,1
AR-406025P-HT	EFE-406025-HT	25,2	50,3	62,9	88,1	100,7	113,3	168,7
AQ-414012P-HT	EFE-414012-HT	14,6	29,1	36,4	51,0	58,2	65,5	97,5
AQ-414020P-HT	EFE-414020-HT	18,3	36,6	45,8	64,1	73,3	82,4	122,7

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Enclosure types (polyester)		Maximum power dissipation (W) Tamb. up to **95**°C		
		INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)	INTERNAL TEMP.127°C (T4/T135°C)
AQ-080806P-HT	EFE-080806-HT	0,9	1,7	5,6
AQ-080808P-HT	EFE-080808-HT	1,1	2,3	7,3
AR-081106P-HT	EFE-081106-HT	1,1	2,1	6,5
AR-081108P-HT	EFE-081108-HT	1,4	2,8	9,0
AR-081606P-HT	EFE-081606-HT	1,4	2,9	9,2
AR-081608P-HT	EFE-081608-HT	1,7	3,4	10,9
AR-081906P-HT	EFE-081906-HT	1,6	3,2	10,2
AR-081908P-HT	EFE-081908-HT	1,9	3,8	12,1
AR-082306P-HT	EFE-082306-HT	1,8	3,6	11,5
AR-082308P-HT	EFE-082308-HT	2,1	4,2	13,5
AQ-121209P-HT	EFE-121209-HT	2,0	4,0	12,8
AR-122209P-HT	EFE-122209-HT	2,7	5,4	17,3
AQ-161609P-HT	EFE-161609-HT	2,6	5,2	16,6
AR-162609P-HT	EFE-162609-HT	3,4	6,7	21,5
AR-163609P-HT	EFE-163609-HT	4,1	8,1	26,0
AR-165609P-HT	EFE-165609-HT	5,3	10,7	34,2
AQ-202017P-HT	EFE-202017-HT	4,5	9,0	28,7
AR-203017P-HT	EFE-203017-HT	5,2	10,4	33,4
AQ-252612P-HT	EFE-252612-HT	4,7	9,4	30,1
AQ-252616P-HT	EFE-252616-HT	5,2	10,4	33,2
AR-254012P-HT	EFE-254012-HT	5,7	11,4	36,5
AR-254016P-HT	EFE-254016-HT	6,5	13,1	41,9
AR-256012P-HT	EFE-256012-HT	7,3	14,5	46,4
AR-304020P-HT	EFE-304020-HT	8,1	16,2	51,8
AQ-363609P-HT	EFE-363609-HT	5,8	11,5	36,8
AR-406025P-HT	EFE-406025-HT	12,6	25,2	80,6
AQ-414012P-HT	EFE-414012-HT	7,3	14,6	46,6
AQ-414020P-HT	EFE-414020-HT	9,2	18,3	58,6

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Power dissipation – HT aluminum alloy enclosures

Enclosure types (aluminium)		Maximum power dissipation (W) – Tamb. up to **40**°C							
		INTERNAL TEMP.60°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)	INTERNAL TEMP.130°C (T4/T135°C)
AQ-080806AL-HT	EFXE-080806AL-HT	5,2	7,8	10,4	11,7	14,3	15,6	16,9	23,4
AR-081306AL-HT	EFXE-081306AL-HT	7,0	10,6	14,1	15,9	19,4	21,2	23,0	31,8
AR-081806AL-HT	EFXE-081806AL-HT	8,9	13,3	17,8	20,0	24,5	26,7	28,9	40,0
AR-082505AL-HT	EFXE-082505AL-HT	10,9	16,4	21,9	24,7	30,1	32,9	35,6	49,4
AQ-101008AL-HT	EFXE-101008AL-HT	8,7	13,0	17,4	19,6	23,9	26,1	28,3	39,2
AR-101608AL-HT	EFXE-101608AL-HT	11,5	17,3	23,1	26,0	31,8	34,7	37,6	52,0
AR-102008AL-HT	EFXE-102008AL-HT	13,4	20,1	26,8	30,2	36,9	40,3	43,6	60,4
AQ-121208AL-HT	EFXE-121208AL-HT	10,8	16,2	21,6	24,3	29,7	32,4	35,1	48,6
AQ-121209AL-HT	EFXE-121209AL-HT	11,6	17,5	23,3	26,2	32,1	35,0	37,9	52,5
AR-122208AL-HT	EFXE-122208AL-HT	15,6	23,5	31,3	35,3	43,1	47,0	50,9	70,6
AR-122209AL-HT	EFXE-122209AL-HT	16,8	25,3	33,7	37,9	46,3	50,6	54,8	75,9
AR-123608AL-HT	EFXE-123608AL-HT	22,3	33,5	44,7	50,3	61,5	67,1	72,7	100,7
AQ-141409AL-HT	EFXE-141409AL-HT	13,7	20,6	27,5	31,0	37,9	41,3	44,8	62,0
AR-142009AL-HT	EFXE-142009AL-HT	17,1	25,7	34,2	38,5	47,1	51,4	55,7	77,1
AQ-161609AL-HT	EFXE-161609AL-HT	16,1	24,1	32,2	36,2	44,2	48,3	52,3	72,4
AR-162609AL-HT	EFXE-162609AL-HT	21,9	32,8	43,8	49,3	60,2	65,7	71,2	98,6
AR-163609AL-HT	EFXE-163609AL-HT	27,5	41,3	55,1	62,0	75,7	82,6	89,5	124,0
AR-165609AL-HT	EFXE-165609AL-HT	38,4	57,7	76,9	86,6	105,8	115,4	125,0	173,2
AQ-181810AL-HT	EFXE-181810AL-HT	19,7	29,6	39,5	44,4	54,3	59,2	64,2	88,8
AR-182810AL-HT	EFXE-182810AL-HT	26,1	39,1	52,2	58,7	71,8	78,3	84,8	117,5
AR-102311AL-HT	EFXE-102311AL-HT	18,2	27,3	36,5	41,0	50,1	54,7	59,3	82,1
AR-202311AL-HT	EFXE-202311AL-HT	26,1	39,1	52,2	58,7	71,7	78,3	84,8	117,4
AR-202318AL-HT	EFXE-202318AL-HT	35,9	53,9	71,8	80,8	98,8	107,8	116,8	161,7
AR-232811AL-HT	EFXE-232811AL-HT	31,6	47,5	63,3	71,3	87,1	95,0	103,0	142,6
AR-233311AL-HT	EFXE-233311AL-HT	35,3	52,9	70,6	79,4	97,0	105,9	114,7	158,8
AR-233318AL-HT	EFXE-233318AL-HT	47,5	71,3	95,1	107,0	130,8	142,7	154,6	214,1
AR-234011AL-HT	EFXE-234011AL-HT	40,2	60,4	80,5	90,6	110,7	120,8	130,9	181,2
AR-234023AL-HT	EFXE-234023AL-HT	62,2	93,3	124,5	140,0	171,2	186,7	202,3	280,1
AR-236011AL-HT	EFXE-236011AL-HT	54,1	81,2	108,3	121,9	148,9	162,5	176,0	243,8
AR-314011AL-HT	EFXE-314011AL-HT	48,6	72,9	97,2	109,3	133,6	145,8	157,9	218,7
AR-314014AL-HT	EFXE-314014AL-HT	54,9	82,4	109,9	123,7	151,2	164,9	178,7	247,4
AR-314018AL-HT	EFXE-314018AL-HT	63,8	95,7	127,6	143,5	175,4	191,4	207,3	287,1
AR-314023AL-HT	EFXE-314023AL-HT	73,5	110,3	147,1	165,5	202,3	220,7	239,1	331,0
AR-316011AL-HT	EFXE-316011AL-HT	64,0	96,0	128,1	144,1	176,1	192,1	208,1	288,2
AR-316018AL-HT	EFXE-316018AL-HT	82,7	124,1	165,5	186,2	227,6	248,3	268,9	372,4
AQ-606020AL-HT	EFXE-606020AL-HT	129,1	193,7	258,3	290,5	355,1	387,4	419,7	581,1

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Enclosure types (aluminium)		Maximum power dissipation (W) – Tamb. up to **50**°C							
		INTERNAL TEMP.60°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)	INTERNAL TEMP.130°C (T4/T135°C)
AQ-080806AL-HT	EFXE-080806AL-HT	2,6	5,2	7,8	9,1	11,7	13,0	14,3	20,8
AR-081306AL-HT	EFXE-081306AL-HT	3,5	7,0	10,6	12,3	15,9	17,7	19,4	28,3
AR-081806AL-HT	EFXE-081806AL-HT	4,4	8,9	13,3	15,5	20,0	22,2	24,5	35,6
AR-082505AL-HT	EFXE-082505AL-HT	5,4	10,9	16,4	19,2	24,7	27,4	30,1	43,9
AQ-101008AL-HT	EFXE-101008AL-HT	4,3	8,7	13,0	15,2	19,6	21,7	23,9	34,8
AR-101608AL-HT	EFXE-101608AL-HT	5,7	11,5	17,3	20,2	26,0	28,9	31,8	46,2
AR-102008AL-HT	EFXE-102008AL-HT	6,7	13,4	20,1	23,5	30,2	33,5	36,9	53,7
AQ-121208AL-HT	EFXE-121208AL-HT	5,4	10,8	16,2	18,9	24,3	27,0	29,7	43,2
AQ-121209AL-HT	EFXE-121209AL-HT	5,8	11,6	17,5	20,4	26,2	29,2	32,1	46,7
AR-122208AL-HT	EFXE-122208AL-HT	7,8	15,6	23,5	27,4	35,3	39,2	43,1	62,7
AR-122209AL-HT	EFXE-122209AL-HT	8,4	16,8	25,3	29,5	37,9	42,1	46,3	67,4
AR-123608AL-HT	EFXE-123608AL-HT	11,1	22,3	33,5	39,1	50,3	55,9	61,5	89,5
AQ-141409AL-HT	EFXE-141409AL-HT	6,8	13,7	20,6	24,1	31,0	34,4	37,9	55,1
AR-142009AL-HT	EFXE-142009AL-HT	8,5	17,1	25,7	30,0	38,5	42,8	47,1	68,5
AQ-161609AL-HT	EFXE-161609AL-HT	8,0	16,1	24,1	28,1	36,2	40,2	44,2	64,4
AR-162609AL-HT	EFXE-162609AL-HT	10,9	21,9	32,8	38,3	49,3	54,8	60,2	87,6
AR-163609AL-HT	EFXE-163609AL-HT	13,7	27,5	41,3	48,2	62,0	68,9	75,7	110,2
AR-165609AL-HT	EFXE-165609AL-HT	19,2	38,4	57,7	67,3	86,6	96,2	105,8	153,9
AQ-181810AL-HT	EFXE-181810AL-HT	9,8	19,7	29,6	34,5	44,4	49,3	54,3	79,0
AR-182810AL-HT	EFXE-182810AL-HT	13,0	26,1	39,1	45,7	58,7	65,2	71,8	104,4
AR-102311AL-HT	EFXE-102311AL-HT	9,1	18,2	27,3	31,9	41,0	45,6	50,1	73,0
AR-202311AL-HT	EFXE-202311AL-HT	13,0	26,1	39,1	45,6	58,7	65,2	71,7	104,4
AR-202318AL-HT	EFXE-202318AL-HT	17,9	35,9	53,9	62,8	80,8	89,8	98,8	143,7
AR-232811AL-HT	EFXE-232811AL-HT	15,8	31,6	47,5	55,4	71,3	79,2	87,1	126,7
AR-233311AL-HT	EFXE-233311AL-HT	17,6	35,3	52,9	61,7	79,4	88,2	97,0	141,2
AR-233318AL-HT	EFXE-233318AL-HT	23,7	47,5	71,3	83,2	107,0	118,9	130,8	190,3
AR-234011AL-HT	EFXE-234011AL-HT	20,1	40,2	60,4	70,5	90,6	100,7	110,7	161,1
AR-234023AL-HT	EFXE-234023AL-HT	31,1	62,2	93,3	108,9	140,0	155,6	171,2	249,0
AR-236011AL-HT	EFXE-236011AL-HT	27,0	54,1	81,2	94,8	121,9	135,4	148,9	216,7
AR-314011AL-HT	EFXE-314011AL-HT	24,3	48,6	72,9	85,0	109,3	121,5	133,6	194,4
AR-314014AL-HT	EFXE-314014AL-HT	27,4	54,9	82,4	96,2	123,7	137,4	151,2	219,9
AR-314018AL-HT	EFXE-314018AL-HT	31,9	63,8	95,7	111,6	143,5	159,5	175,4	255,2
AR-314023AL-HT	EFXE-314023AL-HT	36,7	73,5	110,3	128,7	165,5	183,9	202,3	294,2
AR-316011AL-HT	EFXE-316011AL-HT	32,0	64,0	96,0	112,0	144,1	160,1	176,1	256,2
AR-316018AL-HT	EFXE-316018AL-HT	41,3	82,7	124,1	144,8	186,2	206,9	227,6	331,0
AQ-606020AL-HT	EFXE-606020AL-HT	64,5	129,1	193,7	226,0	290,5	322,8	355,1	516,6

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Enclosure types (aluminium)		Maximum power dissipation (W) – Tamb. up to **55**°C							
		INTERNAL TEMP.65°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)	INTERNAL TEMP.130°C (T4/T135°C)
AQ-080806AL-HT	EFXE-080806AL-HT	2,6	3,9	6,5	7,8	10,4	11,7	13,0	19,5
AR-081306AL-HT	EFXE-081306AL-HT	3,5	5,3	8,8	10,6	14,1	15,9	17,7	26,5
AR-081806AL-HT	EFXE-081806AL-HT	4,4	6,6	11,1	13,3	17,8	20,0	22,2	33,4
AR-082505AL-HT	EFXE-082505AL-HT	5,4	8,2	13,7	16,4	21,9	24,7	27,4	41,1
AQ-101008AL-HT	EFXE-101008AL-HT	4,3	6,5	10,8	13,0	17,4	19,6	21,7	32,6
AR-101608AL-HT	EFXE-101608AL-HT	5,7	8,6	14,4	17,3	23,1	26,0	28,9	43,3
AR-102008AL-HT	EFXE-102008AL-HT	6,7	10,0	16,7	20,1	26,8	30,2	33,5	50,3
AQ-121208AL-HT	EFXE-121208AL-HT	5,4	8,1	13,5	16,2	21,6	24,3	27,0	40,5
AQ-121209AL-HT	EFXE-121209AL-HT	5,8	8,7	14,6	17,5	23,3	26,2	29,2	43,8
AR-122208AL-HT	EFXE-122208AL-HT	7,8	11,7	19,6	23,5	31,3	35,3	39,2	58,8
AR-122209AL-HT	EFXE-122209AL-HT	8,4	12,6	21,0	25,3	33,7	37,9	42,1	63,2
AR-123608AL-HT	EFXE-123608AL-HT	11,1	16,7	27,9	33,5	44,7	50,3	55,9	83,9
AQ-141409AL-HT	EFXE-141409AL-HT	6,8	10,3	17,2	20,6	27,5	31,0	34,4	51,7
AR-142009AL-HT	EFXE-142009AL-HT	8,5	12,8	21,4	25,7	34,2	38,5	42,8	64,3
AQ-161609AL-HT	EFXE-161609AL-HT	8,0	12,0	20,1	24,1	32,2	36,2	40,2	60,4
AR-162609AL-HT	EFXE-162609AL-HT	10,9	16,4	27,4	32,8	43,8	49,3	54,8	82,2
AR-163609AL-HT	EFXE-163609AL-HT	13,7	20,6	34,4	41,3	55,1	62,0	68,9	103,3
AR-165609AL-HT	EFXE-165609AL-HT	19,2	28,8	48,1	57,7	76,9	86,6	96,2	144,3
AQ-181810AL-HT	EFXE-181810AL-HT	9,8	14,8	24,6	29,6	39,5	44,4	49,3	74,0
AR-182810AL-HT	EFXE-182810AL-HT	13,0	19,5	32,6	39,1	52,2	58,7	65,2	97,9
AR-102311AL-HT	EFXE-102311AL-HT	9,1	13,6	22,8	27,3	36,5	41,0	45,6	68,4
AR-202311AL-HT	EFXE-202311AL-HT	13,0	19,5	32,6	39,1	52,2	58,7	65,2	97,9
AR-202318AL-HT	EFXE-202318AL-HT	17,9	26,9	44,9	53,9	71,8	80,8	89,8	134,7
AR-232811AL-HT	EFXE-232811AL-HT	15,8	23,7	39,6	47,5	63,3	71,3	79,2	118,8
AR-233311AL-HT	EFXE-233311AL-HT	17,6	26,4	44,1	52,9	70,6	79,4	88,2	132,3
AR-233318AL-HT	EFXE-233318AL-HT	23,7	35,6	59,4	71,3	95,1	107,0	118,9	178,4
AR-234011AL-HT	EFXE-234011AL-HT	20,1	30,2	50,3	60,4	80,5	90,6	100,7	151,0
AR-234023AL-HT	EFXE-234023AL-HT	31,1	46,6	77,8	93,3	124,5	140,0	155,6	233,4
AR-236011AL-HT	EFXE-236011AL-HT	27,0	40,6	67,7	81,2	108,3	121,9	135,4	203,1
AR-314011AL-HT	EFXE-314011AL-HT	24,3	36,4	60,7	72,9	97,2	109,3	121,5	182,3
AR-314014AL-HT	EFXE-314014AL-HT	27,4	41,2	68,7	82,4	109,9	123,7	137,4	206,2
AR-314018AL-HT	EFXE-314018AL-HT	31,9	47,8	79,7	95,7	127,6	143,5	159,5	239,2
AR-314023AL-HT	EFXE-314023AL-HT	36,7	55,1	91,9	110,3	147,1	165,5	183,9	275,8
AR-316011AL-HT	EFXE-316011AL-HT	32,0	48,0	80,0	96,0	128,1	144,1	160,1	240,1
AR-316018AL-HT	EFXE-316018AL-HT	41,3	62,0	103,4	124,1	165,5	186,2	206,9	310,3
AQ-606020AL-HT	EFXE-606020AL-HT	64,5	96,8	161,4	193,7	258,3	290,5	322,8	484,3

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Enclosure types (aluminium)		Maximum power dissipation (W) – Tamb. up to **60**°C						
		INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)	INTERNAL TEMP.130°C (T4/T135°C)
AQ-080806AL-HT	EFXE-080806AL-HT	2,6	5,2	6,5	9,1	10,4	11,7	18,2
AR-081306AL-HT	EFXE-081306AL-HT	3,5	7,0	8,8	12,3	14,1	15,9	24,7
AR-081806AL-HT	EFXE-081806AL-HT	4,4	8,9	11,1	15,5	17,8	20,0	31,1
AR-082505AL-HT	EFXE-082505AL-HT	5,4	10,9	13,7	19,2	21,9	24,7	38,4
AQ-101008AL-HT	EFXE-101008AL-HT	4,3	8,7	10,8	15,2	17,4	19,6	30,4
AR-101608AL-HT	EFXE-101608AL-HT	5,7	11,5	14,4	20,2	23,1	26,0	40,5
AR-102008AL-HT	EFXE-102008AL-HT	6,7	13,4	16,7	23,5	26,8	30,2	47,0
AQ-121208AL-HT	EFXE-121208AL-HT	5,4	10,8	13,5	18,9	21,6	24,3	37,8
AQ-121209AL-HT	EFXE-121209AL-HT	5,8	11,6	14,6	20,4	23,3	26,2	40,8
AR-122208AL-HT	EFXE-122208AL-HT	7,8	15,6	19,6	27,4	31,3	35,3	54,9
AR-122209AL-HT	EFXE-122209AL-HT	8,4	16,8	21,0	29,5	33,7	37,9	59,0
AR-123608AL-HT	EFXE-123608AL-HT	11,1	22,3	27,9	39,1	44,7	50,3	78,3
AQ-141409AL-HT	EFXE-141409AL-HT	6,8	13,7	17,2	24,1	27,5	31,0	48,2
AR-142009AL-HT	EFXE-142009AL-HT	8,5	17,1	21,4	30,0	34,2	38,5	60,0
AQ-161609AL-HT	EFXE-161609AL-HT	8,0	16,1	20,1	28,1	32,2	36,2	56,3
AR-162609AL-HT	EFXE-162609AL-HT	10,9	21,9	27,4	38,3	43,8	49,3	76,7
AR-163609AL-HT	EFXE-163609AL-HT	13,7	27,5	34,4	48,2	55,1	62,0	96,4
AR-165609AL-HT	EFXE-165609AL-HT	19,2	38,4	48,1	67,3	76,9	86,6	134,7
AQ-181810AL-HT	EFXE-181810AL-HT	9,8	19,7	24,6	34,5	39,5	44,4	69,1
AR-182810AL-HT	EFXE-182810AL-HT	13,0	26,1	32,6	45,7	52,2	58,7	91,4
AR-102311AL-HT	EFXE-102311AL-HT	9,1	18,2	22,8	31,9	36,5	41,0	63,8
AR-202311AL-HT	EFXE-202311AL-HT	13,0	26,1	32,6	45,6	52,2	58,7	91,3
AR-202318AL-HT	EFXE-202318AL-HT	17,9	35,9	44,9	62,8	71,8	80,8	125,7
AR-232811AL-HT	EFXE-232811AL-HT	15,8	31,6	39,6	55,4	63,3	71,3	110,9
AR-233311AL-HT	EFXE-233311AL-HT	17,6	35,3	44,1	61,7	70,6	79,4	123,5
AR-233318AL-HT	EFXE-233318AL-HT	23,7	47,5	59,4	83,2	95,1	107,0	166,5
AR-234011AL-HT	EFXE-234011AL-HT	20,1	40,2	50,3	70,5	80,5	90,6	141,0
AR-234023AL-HT	EFXE-234023AL-HT	31,1	62,2	77,8	108,9	124,5	140,0	217,9
AR-236011AL-HT	EFXE-236011AL-HT	27,0	54,1	67,7	94,8	108,3	121,9	189,6
AR-314011AL-HT	EFXE-314011AL-HT	24,3	48,6	60,7	85,0	97,2	109,3	170,1
AR-314014AL-HT	EFXE-314014AL-HT	27,4	54,9	68,7	96,2	109,9	123,7	192,4
AR-314018AL-HT	EFXE-314018AL-HT	31,9	63,8	79,7	111,6	127,6	143,5	223,3
AR-314023AL-HT	EFXE-314023AL-HT	36,7	73,5	91,9	128,7	147,1	165,5	257,4
AR-316011AL-HT	EFXE-316011AL-HT	32,0	64,0	80,0	112,0	128,1	144,1	224,1
AR-316018AL-HT	EFXE-316018AL-HT	41,3	82,7	103,4	144,8	165,5	186,2	289,6
AQ-606020AL-HT	EFXE-606020AL-HT	64,5	129,1	161,4	226,0	258,3	290,5	452,0

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Enclosure types (aluminium)		Maximum power dissipation (W) Tamb. up to **95**°C		
		INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)	INTERNAL TEMP.130°C (T4/T135°C)
AQ-080806AL-HT	EFXE-080806AL-HT	1,3	2,6	9,1
AR-081306AL-HT	EFXE-081306AL-HT	1,7	3,5	12,3
AR-081806AL-HT	EFXE-081806AL-HT	2,2	4,4	15,5
AR-082505AL-HT	EFXE-082505AL-HT	2,7	5,4	19,2
AQ-101008AL-HT	EFXE-101008AL-HT	2,1	4,3	15,2
AR-101608AL-HT	EFXE-101608AL-HT	2,8	5,7	20,2
AR-102008AL-HT	EFXE-102008AL-HT	3,3	6,7	23,5
AQ-121208AL-HT	EFXE-121208AL-HT	2,7	5,4	18,9
AQ-121209AL-HT	EFXE-121209AL-HT	2,9	5,8	20,4
AR-122208AL-HT	EFXE-122208AL-HT	3,9	7,8	27,4
AR-122209AL-HT	EFXE-122209AL-HT	4,2	8,4	29,5
AR-123608AL-HT	EFXE-123608AL-HT	5,5	11,1	39,1
AQ-141409AL-HT	EFXE-141409AL-HT	3,4	6,8	24,1
AR-142009AL-HT	EFXE-142009AL-HT	4,2	8,5	30,0
AQ-161609AL-HT	EFXE-161609AL-HT	4,0	8,0	28,1
AR-162609AL-HT	EFXE-162609AL-HT	5,4	10,9	38,3
AR-163609AL-HT	EFXE-163609AL-HT	6,8	13,7	48,2
AR-165609AL-HT	EFXE-165609AL-HT	9,6	19,2	67,3
AQ-181810AL-HT	EFXE-181810AL-HT	4,9	9,8	34,5
AR-182810AL-HT	EFXE-182810AL-HT	6,5	13,0	45,7
AR-102311AL-HT	EFXE-102311AL-HT	4,5	9,1	31,9
AR-202311AL-HT	EFXE-202311AL-HT	6,5	13,0	45,6
AR-202318AL-HT	EFXE-202318AL-HT	8,9	17,9	62,8
AR-232811AL-HT	EFXE-232811AL-HT	7,9	15,8	55,4
AR-233311AL-HT	EFXE-233311AL-HT	8,8	17,6	61,7
AR-233318AL-HT	EFXE-233318AL-HT	11,8	23,7	83,2
AR-234011AL-HT	EFXE-234011AL-HT	10,0	20,1	70,5
AR-234023AL-HT	EFXE-234023AL-HT	15,5	31,1	108,9
AR-236011AL-HT	EFXE-236011AL-HT	13,5	27,0	94,8
AR-314011AL-HT	EFXE-314011AL-HT	12,1	24,3	85,0
AR-314014AL-HT	EFXE-314014AL-HT	13,7	27,4	96,2
AR-314018AL-HT	EFXE-314018AL-HT	15,9	31,9	111,6
AR-314023AL-HT	EFXE-314023AL-HT	18,3	36,7	128,7
AR-316011AL-HT	EFXE-316011AL-HT	16,0	32,0	112,0
AR-316018AL-HT	EFXE-316018AL-HT	20,6	41,3	144,8
AQ-606020AL-HT	EFXE-606020AL-HT	32,2	64,5	226,0

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Power dissipation – Glass fiber reinforced polyester resin enclosures

Enclosure types (polyester)		Maximum power dissipation (W) – Tamb. up to **40**°C						
		INTERNAL TEMP.60°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
AQ-080806P	EFE-080806	3,4	5,2	6,9	7,8	9,5	10,4	11,3
AQ-080808P	EFE-080808	4,5	6,8	9,1	10,2	12,5	13,6	14,7
AR-081106P	EFE-081106	4,2	6,4	8,5	9,6	11,7	12,8	13,8
AR-081606P	EFE-081606	5,7	8,6	11,5	13,0	15,9	17,3	18,8
AR-081906P	EFE-081906	6,4	9,6	12,8	14,4	17,6	19,2	20,8
AQ-121209P	EFE-121209	7,9	11,9	15,9	17,9	21,9	23,9	25,9
AR-122209P	EFE-122209	10,8	16,2	21,6	24,3	29,7	32,4	35,1
AQ-161609P	EFE-161609	10,3	15,5	20,7	23,3	28,5	31,1	33,7
AR-162609P	EFE-162609	13,4	20,1	26,8	30,1	36,8	40,2	43,5
AR-163609P	EFE-163609	16,2	24,3	32,4	36,4	44,5	48,6	52,6
AQ-252612P	EFE-252612	18,8	28,2	37,6	42,3	51,7	56,4	61,1
AQ-252616P	EFE-252616	21,7	32,6	43,5	49,0	59,9	65,3	70,8
AR-254012P	EFE-254012	23,9	35,9	47,9	53,9	65,9	71,8	77,8
AR-254016P	EFE-254016	27,4	41,2	54,9	61,8	75,6	82,4	89,3
AR-256012P	EFE-256012	29,0	43,5	58,0	65,3	79,8	87,1	94,3
AQ-414012P	EFE-414012	29,1	43,6	58,2	65,5	80,0	87,3	94,6
AQ-414016P	EFE-414016	32,9	49,4	65,9	74,1	90,6	98,8	107,0

Enclosure types (polyester)		Maximum power dissipation (W) – Tamb. up to **50**°C						
		INTERNAL TEMP.60°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
AQ-080806P	EFE-080806	1,7	3,4	5,2	6,0	7,8	8,7	9,5
AQ-080808P	EFE-080808	2,2	4,5	6,8	7,9	10,2	11,3	12,5
AR-081106P	EFE-081106	2,1	4,2	6,4	7,4	9,6	10,6	11,7
AR-081606P	EFE-081606	2,8	5,7	8,6	10,1	13,0	14,4	15,9
AR-081906P	EFE-081906	3,2	6,4	9,6	11,2	14,4	16,0	17,6
AQ-121209P	EFE-121209	3,9	7,9	11,9	13,9	17,9	19,9	21,9
AR-122209P	EFE-122209	5,4	10,8	16,2	18,9	24,3	27,0	29,7
AQ-161609P	EFE-161609	5,1	10,3	15,5	18,1	23,3	25,9	28,5
AR-162609P	EFE-162609	6,7	13,4	20,1	23,4	30,1	33,5	36,8
AR-163609P	EFE-163609	8,1	16,2	24,3	28,3	36,4	40,5	44,5
AQ-252612P	EFE-252612	9,4	18,8	28,2	32,9	42,3	47,0	51,7
AQ-252616P	EFE-252616	10,8	21,7	32,6	38,1	49,0	54,4	59,9
AR-254012P	EFE-254012	11,9	23,9	35,9	41,9	53,9	59,9	65,9
AR-254016P	EFE-254016	13,7	27,4	41,2	48,1	61,8	68,7	75,6
AR-256012P	EFE-256012	14,5	29,0	43,5	50,8	65,3	72,6	79,8
AQ-414012P	EFE-414012	14,5	29,1	43,6	50,9	65,5	72,7	80,0
AQ-414016P	EFE-414016	16,4	32,9	49,4	57,6	74,1	82,3	90,6

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Enclosure types (polyester)		Maximum power dissipation (W) – Tamb. up to **55**°C						
		INTERNAL TEMP.65°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
AQ-080806P	EFE-080806	1,7	2,6	4,3	5,2	6,9	7,8	8,7
AQ-080808P	EFE-080808	2,2	3,4	5,6	6,8	9,1	10,2	11,3
AR-081106P	EFE-081106	2,1	3,2	5,3	6,4	8,5	9,6	10,6
AR-081606P	EFE-081606	2,8	4,3	7,2	8,6	11,5	13,0	14,4
AR-081906P	EFE-081906	3,2	4,8	8,0	9,6	12,8	14,4	16,0
AQ-121209P	EFE-121209	3,9	5,9	9,9	11,9	15,9	17,9	19,9
AR-122209P	EFE-122209	5,4	8,1	13,5	16,2	21,6	24,3	27,0
AQ-161609P	EFE-161609	5,1	7,7	12,9	15,5	20,7	23,3	25,9
AR-162609P	EFE-162609	6,7	10,0	16,7	20,1	26,8	30,1	33,5
AR-163609P	EFE-163609	8,1	12,1	20,2	24,3	32,4	36,4	40,5
AQ-252612P	EFE-252612	9,4	14,1	23,5	28,2	37,6	42,3	47,0
AQ-252616P	EFE-252616	10,8	16,3	27,2	32,6	43,5	49,0	54,4
AR-254012P	EFE-254012	11,9	17,9	29,9	35,9	47,9	53,9	59,9
AR-254016P	EFE-254016	13,7	20,6	34,3	41,2	54,9	61,8	68,7
AR-256012P	EFE-256012	14,5	21,7	36,3	43,5	58,0	65,3	72,6
AQ-414012P	EFE-414012	14,5	21,8	36,3	43,6	58,2	65,5	72,7
AQ-414016P	EFE-414016	16,4	24,7	41,1	49,4	65,9	74,1	82,3

Enclosure types (polyester)		Maximum power dissipation (W) – Tamb. up to **60**°C					
		INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
AQ-080806P	EFE-080806	1,7	3,4	4,3	6,0	6,9	7,8
AQ-080808P	EFE-080808	2,2	4,5	5,6	7,9	9,1	10,2
AR-081106P	EFE-081106	2,1	4,2	5,3	7,4	8,5	9,6
AR-081606P	EFE-081606	2,8	5,7	7,2	10,1	11,5	13,0
AR-081906P	EFE-081906	3,2	6,4	8,0	11,2	12,8	14,4
AQ-121209P	EFE-121209	3,9	7,9	9,9	13,9	15,9	17,9
AR-122209P	EFE-122209	5,4	10,8	13,5	18,9	21,6	24,3
AQ-161609P	EFE-161609	5,1	10,3	12,9	18,1	20,7	23,3
AR-162609P	EFE-162609	6,7	13,4	16,7	23,4	26,8	30,1
AR-163609P	EFE-163609	8,1	16,2	20,2	28,3	32,4	36,4
AQ-252612P	EFE-252612	9,4	18,8	23,5	32,9	37,6	42,3
AQ-252616P	EFE-252616	10,8	21,7	27,2	38,1	43,5	49,0
AR-254012P	EFE-254012	11,9	23,9	29,9	41,9	47,9	53,9
AR-254016P	EFE-254016	13,7	27,4	34,3	48,1	54,9	61,8
AR-256012P	EFE-256012	14,5	29,0	36,3	50,8	58,0	65,3
AQ-414012P	EFE-414012	14,5	29,1	36,3	50,9	58,2	65,5
AQ-414016P	EFE-414016	16,4	32,9	41,1	57,6	65,9	74,1

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Enclosure types (polyester)		Maximum power dissipation (W) – Tamb. up to **95**°C	
		INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
AQ-080806P	EFE-080806	0,8	1,7
AQ-080808P	EFE-080808	1,1	2,2
AR-081106P	EFE-081106	1,0	2,1
AR-081606P	EFE-081606	1,4	2,8
AR-081906P	EFE-081906	1,6	3,2
AQ-121209P	EFE-121209	1,9	3,9
AR-122209P	EFE-122209	2,7	5,4
AQ-161609P	EFE-161609	2,5	5,1
AR-162609P	EFE-162609	3,3	6,7
AR-163609P	EFE-163609	4,0	8,1
AQ-252612P	EFE-252612	4,7	9,4
AQ-252616P	EFE-252616	5,4	10,8
AR-254012P	EFE-254012	5,9	11,9
AR-254016P	EFE-254016	6,8	13,7
AR-256012P	EFE-256012	7,2	14,5
AQ-414012P	EFE-414012	7,2	14,5
AQ-414016P	EFE-414016	8,2	16,4

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Power dissipation – Aluminum alloy enclosures

Enclosure types (aluminium)		Maximum power dissipation (W) – Tamb. up to **40**°C						
		INTERNAL TEMP.60°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
AQ-080806AL	EFXE-080806AL	5,2	7,8	10,4	11,7	14,3	15,6	16,9
AR-081306AL	EFXE-081306AL	7,0	10,6	14,1	15,9	19,4	21,2	23,0
AR-081806AL	EFXE-081806AL	8,9	13,3	17,8	20,0	24,5	26,7	28,9
AR-081808AL	EFXE-081808AL	11,0	16,5	22,1	24,8	30,4	33,1	35,9
AR-082505AL	EFXE-082505AL	10,7	16,1	21,4	24,1	29,5	32,2	34,8
AR-082508AL	EFXE-082508AL	14,2	21,4	28,5	32,1	39,2	42,8	46,4
AQ-101008AL	EFXE-101008AL	8,7	13,0	17,4	19,6	23,9	26,1	28,3
AR-101508AL	EFXE-101508AL	11,1	16,6	22,2	24,9	30,5	33,3	36,0
AR-101608AL	EFXE-101608AL	11,5	17,3	23,1	26,0	31,8	34,7	37,6
AR-102008AL	EFXE-102008AL	13,4	20,1	26,8	30,2	36,9	40,3	43,6
AQ-121208AL	EFXE-121208AL	10,8	16,2	21,6	24,3	29,7	32,4	35,1
AR-122209AL	EFXE-122209AL	16,8	25,3	33,7	37,9	46,3	50,6	54,8
AQ-141409AL	EFXE-141409AL	13,7	20,6	27,5	31,0	37,9	41,3	44,8
AR-142009AL	EFXE-142009AL	17,1	25,7	34,2	38,5	47,1	51,4	55,7
AQ-161609AL	EFXE-161609AL	17,2	25,8	34,4	38,7	47,3	51,6	55,9
AR-162410AL	EFXE-162410AL	22,1	33,1	44,2	49,7	60,8	66,3	71,8
AR-162609AL	EFXE-162609AL	21,9	32,8	43,8	49,3	60,2	65,7	71,2
AQ-181810AL	EFXE-181810AL	19,7	29,6	39,5	44,4	54,3	59,2	64,2
AR-182810AL	EFXE-182810AL	26,1	39,1	52,2	58,7	71,8	78,3	84,8
AR-202311AL	EFXE-202311AL	25,8	38,7	51,6	58,0	71,0	77,4	83,9
AR-202318AL	EFXE-202318AL	35,5	53,3	71,1	80,0	97,8	106,7	115,6
AR-232811AL	EFXE-232811AL	31,6	47,5	63,3	71,3	87,1	95,0	103,0
AR-233312AL	EFXE-233312AL	37,0	55,6	74,1	83,4	101,9	111,2	120,5
AR-233318AL	EFXE-233318AL	47,5	71,3	95,1	107,0	130,8	142,7	154,6

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Enclosure types (aluminium)		Maximum power dissipation (W) – Tamb. up to **50**°C						
		INTERNAL TEMP.60°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
AQ-080806AL	EFXE-080806AL	2,6	5,2	7,8	9,1	11,7	13,0	14,3
AR-081306AL	EFXE-081306AL	3,5	7,0	10,6	12,3	15,9	17,7	19,4
AR-081806AL	EFXE-081806AL	4,4	8,9	13,3	15,5	20,0	22,2	24,5
AR-081808AL	EFXE-081808AL	5,5	11,0	16,5	19,3	24,8	27,6	30,4
AR-082505AL	EFXE-082505AL	5,3	10,7	16,1	18,7	24,1	26,8	29,5
AR-082508AL	EFXE-082508AL	7,1	14,2	21,4	24,9	32,1	35,7	39,2
AQ-101008AL	EFXE-101008AL	4,3	8,7	13,0	15,2	19,6	21,7	23,9
AR-101508AL	EFXE-101508AL	5,5	11,1	16,6	19,4	24,9	27,7	30,5
AR-101608AL	EFXE-101608AL	5,7	11,5	17,3	20,2	26,0	28,9	31,8
AR-102008AL	EFXE-102008AL	6,7	13,4	20,1	23,5	30,2	33,5	36,9
AQ-121208AL	EFXE-121208AL	5,4	10,8	16,2	18,9	24,3	27,0	29,7
AR-122209AL	EFXE-122209AL	8,4	16,8	25,3	29,5	37,9	42,1	46,3
AQ-141409AL	EFXE-141409AL	6,8	13,7	20,6	24,1	31,0	34,4	37,9
AR-142009AL	EFXE-142009AL	8,5	17,1	25,7	30,0	38,5	42,8	47,1
AQ-161609AL	EFXE-161609AL	8,6	17,2	25,8	30,1	38,7	43,0	47,3
AR-162410AL	EFXE-162410AL	11,0	22,1	33,1	38,7	49,7	55,3	60,8
AR-162609AL	EFXE-162609AL	10,9	21,9	32,8	38,3	49,3	54,8	60,2
AQ-181810AL	EFXE-181810AL	9,8	19,7	29,6	34,5	44,4	49,3	54,3
AR-182810AL	EFXE-182810AL	13,0	26,1	39,1	45,7	58,7	65,2	71,8
AR-202311AL	EFXE-202311AL	12,9	25,8	38,7	45,1	58,0	64,5	71,0
AR-202318AL	EFXE-202318AL	17,7	35,5	53,3	62,2	80,0	88,9	97,8
AR-232811AL	EFXE-232811AL	15,8	31,6	47,5	55,4	71,3	79,2	87,1
AR-233312AL	EFXE-233312AL	18,5	37,0	55,6	64,8	83,4	92,7	101,9
AR-233318AL	EFXE-233318AL	23,7	47,5	71,3	83,2	107,0	118,9	130,8

Enclosure types (aluminium)		Maximum power dissipation (W) – Tamb. up to **55**°C						
		INTERNAL TEMP.65°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
AQ-080806AL	EFXE-080806AL	2,6	3,9	6,5	7,8	10,4	11,7	13,0
AR-081306AL	EFXE-081306AL	3,5	5,3	8,8	10,6	14,1	15,9	17,7
AR-081806AL	EFXE-081806AL	4,4	6,6	11,1	13,3	17,8	20,0	22,2
AR-081808AL	EFXE-081808AL	5,5	8,2	13,8	16,5	22,1	24,8	27,6
AR-082505AL	EFXE-082505AL	5,3	8,0	13,4	16,1	21,4	24,1	26,8
AR-082508AL	EFXE-082508AL	7,1	10,7	17,8	21,4	28,5	32,1	35,7
AQ-101008AL	EFXE-101008AL	4,3	6,5	10,8	13,0	17,4	19,6	21,7
AR-101508AL	EFXE-101508AL	5,5	8,3	13,8	16,6	22,2	24,9	27,7
AR-101608AL	EFXE-101608AL	5,7	8,6	14,4	17,3	23,1	26,0	28,9
AR-102008AL	EFXE-102008AL	6,7	10,0	16,7	20,1	26,8	30,2	33,5
AQ-121208AL	EFXE-121208AL	5,4	8,1	13,5	16,2	21,6	24,3	27,0
AR-122209AL	EFXE-122209AL	8,4	12,6	21,0	25,3	33,7	37,9	42,1
AQ-141409AL	EFXE-141409AL	6,8	10,3	17,2	20,6	27,5	31,0	34,4
AR-142009AL	EFXE-142009AL	8,5	12,8	21,4	25,7	34,2	38,5	42,8
AQ-161609AL	EFXE-161609AL	8,6	12,9	21,5	25,8	34,4	38,7	43,0
AR-162410AL	EFXE-162410AL	11,0	16,5	27,6	33,1	44,2	49,7	55,3
AR-162609AL	EFXE-162609AL	10,9	16,4	27,4	32,8	43,8	49,3	54,8
AQ-181810AL	EFXE-181810AL	9,8	14,8	24,6	29,6	39,5	44,4	49,3
AR-182810AL	EFXE-182810AL	13,0	19,5	32,6	39,1	52,2	58,7	65,2
AR-202311AL	EFXE-202311AL	12,9	19,3	32,2	38,7	51,6	58,0	64,5
AR-202318AL	EFXE-202318AL	17,7	26,6	44,4	53,3	71,1	80,0	88,9
AR-232811AL	EFXE-232811AL	15,8	23,7	39,6	47,5	63,3	71,3	79,2
AR-233312AL	EFXE-233312AL	18,5	27,8	46,3	55,6	74,1	83,4	92,7
AR-233318AL	EFXE-233318AL	23,7	35,6	59,4	71,3	95,1	107,0	118,9

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Enclosure types (aluminium)		Maximum power dissipation (W) – Tamb. up to **60**°C					
		INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
AQ-080806AL	EFXE-080806AL	2,6	5,2	6,5	9,1	10,4	11,7
AR-081306AL	EFXE-081306AL	3,5	7,0	8,8	12,3	14,1	15,9
AR-081806AL	EFXE-081806AL	4,4	8,9	11,1	15,5	17,8	20,0
AR-081808AL	EFXE-081808AL	5,5	11,0	13,8	19,3	22,1	24,8
AR-082505AL	EFXE-082505AL	5,3	10,7	13,4	18,7	21,4	24,1
AR-082508AL	EFXE-082508AL	7,1	14,2	17,8	24,9	28,5	32,1
AQ-101008AL	EFXE-101008AL	4,3	8,7	10,8	15,2	17,4	19,6
AR-101508AL	EFXE-101508AL	5,5	11,1	13,8	19,4	22,2	24,9
AR-101608AL	EFXE-101608AL	5,7	11,5	14,4	20,2	23,1	26,0
AR-102008AL	EFXE-102008AL	6,7	13,4	16,7	23,5	26,8	30,2
AQ-121208AL	EFXE-121208AL	5,4	10,8	13,5	18,9	21,6	24,3
AR-122209AL	EFXE-122209AL	8,4	16,8	21,0	29,5	33,7	37,9
AQ-141409AL	EFXE-141409AL	6,8	13,7	17,2	24,1	27,5	31,0
AR-142009AL	EFXE-142009AL	8,5	17,1	21,4	30,0	34,2	38,5
AQ-161609AL	EFXE-161609AL	8,6	17,2	21,5	30,1	34,4	38,7
AR-162410AL	EFXE-162410AL	11,0	22,1	27,6	38,7	44,2	49,7
AR-162609AL	EFXE-162609AL	10,9	21,9	27,4	38,3	43,8	49,3
AQ-181810AL	EFXE-181810AL	9,8	19,7	24,6	34,5	39,5	44,4
AR-182810AL	EFXE-182810AL	13,0	26,1	32,6	45,7	52,2	58,7
AR-202311AL	EFXE-202311AL	12,9	25,8	32,2	45,1	51,6	58,0
AR-202318AL	EFXE-202318AL	17,7	35,5	44,4	62,2	71,1	80,0
AR-232811AL	EFXE-232811AL	15,8	31,6	39,6	55,4	63,3	71,3
AR-233312AL	EFXE-233312AL	18,5	37,0	46,3	64,8	74,1	83,4
AR-233318AL	EFXE-233318AL	23,7	47,5	59,4	83,2	95,1	107,0

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Enclosure types (aluminium)		Maximum power dissipation (W) – Tamb. up to **95**°C	
		INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
AQ-080806AL	EFXE-080806AL	1,3	2,6
AR-081306AL	EFXE-081306AL	1,7	3,5
AR-081806AL	EFXE-081806AL	2,2	4,4
AR-081808AL	EFXE-081808AL	2,7	5,5
AR-082505AL	EFXE-082505AL	2,6	5,3
AR-082508AL	EFXE-082508AL	3,5	7,1
AQ-101008AL	EFXE-101008AL	2,1	4,3
AR-101508AL	EFXE-101508AL	2,7	5,5
AR-101608AL	EFXE-101608AL	2,8	5,7
AR-102008AL	EFXE-102008AL	3,3	6,7
AQ-121208AL	EFXE-121208AL	2,7	5,4
AR-122209AL	EFXE-122209AL	4,2	8,4
AQ-141409AL	EFXE-141409AL	3,4	6,8
AR-142009AL	EFXE-142009AL	4,2	8,5
AQ-161609AL	EFXE-161609AL	4,3	8,6
AR-162410AL	EFXE-162410AL	5,5	11,0
AR-162609AL	EFXE-162609AL	5,4	10,9
AQ-181810AL	EFXE-181810AL	4,9	9,8
AR-182810AL	EFXE-182810AL	6,5	13,0
AR-202311AL	EFXE-202311AL	6,4	12,9
AR-202318AL	EFXE-202318AL	8,8	17,7
AR-232811AL	EFXE-232811AL	7,9	15,8
AR-233312AL	EFXE-233312AL	9,2	18,5
AR-233318AL	EFXE-233318AL	11,8	23,7

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Power dissipation – Stainless steel enclosures SB series

Enclosure types (stainless steel)		Maximum power dissipation (W) – Tamb. up to **40**°C						
		INTERNAL TEMP.60°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
SB-101210	EFXE-101210SB	5,5	8,3	11,1	12,5	15,3	16,7	18,1
SB-151510	EFXE-151510SB	8,0	12,0	16,0	18,0	22,0	24,0	26,1
SB-142013	EFXE-142013SB	10,4	15,7	20,9	23,5	28,8	31,4	34,0
SB-202010	EFXE-202010SB	10,7	16,1	21,4	24,1	29,5	32,2	34,8
SB-202016	EFXE-202016SB	13,9	20,8	27,8	31,3	38,3	41,7	45,2
SB-202713	EFXE-202713SB	14,4	21,6	28,9	32,5	39,7	43,3	46,9
SB-272713	EFXE-272713SB	16,7	25,1	33,5	37,7	46,0	50,2	54,4
SB-203016	EFXE-203016SB	17,1	25,7	34,3	38,6	47,2	51,4	55,7
SB-273513	EFXE-273513SB	19,2	28,9	38,5	43,3	53,0	57,8	62,6
SB-282816	EFXE-282816SB	19,3	29,0	38,7	43,6	53,3	58,1	63,0
SB-204016	EFXE-204016SB	20,2	30,3	40,4	45,5	55,6	60,6	65,7
SB-353516	EFXE-353516SB	24,4	36,6	48,8	54,9	67,1	73,2	79,3
SB-282827	EFXE-282827SB	26,2	39,3	52,5	59,0	72,2	78,7	85,3
SB-355016	EFXE-355016SB	29,7	44,5	59,4	66,8	81,7	89,1	96,6
SB-383816	EFXE-383816SB	26,6	39,9	53,2	59,8	73,1	79,8	86,5
SB-384516	EFXE-384516SB	29,1	43,7	58,3	65,6	80,2	87,5	94,8
SB-385716	EFXE-385716SB	33,4	50,1	66,8	75,2	91,9	100,3	108,7
SB-505016	EFXE-505016SB	35,8	53,8	71,7	80,7	98,6	107,6	116,6
SB-383827	EFXE-383827SB	35,1	52,7	70,2	79,0	96,6	105,4	114,2
SB-575716	EFXE-575716SB	41,5	62,3	83,1	93,5	114,3	124,7	135,1
SB-577620	EFXE-577620SB	53,9	80,9	107,9	121,3	148,3	161,8	175,3
SB-575730	EFXE-575730SB	55,8	83,7	111,6	125,6	153,5	167,5	181,4
SB-769520	EFXE-769520SB	72,2	108,3	144,4	162,4	198,5	216,6	234,6
SB-1258040	EFXE-1258040SB	72,2	108,3	144,4	162,4	198,5	216,6	234,6

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Enclosure types (Stainless steel)		Maximum power dissipation (W) – Tamb. up to **50**°C						
		INTERNAL TEMP.60°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
SB-101210	EFXE-101210SB	2,7	5,5	8,3	9,7	12,5	13,9	15,3
SB-151510	EFXE-151510SB	4,0	8,0	12,0	14,0	18,0	20,0	22,0
SB-142013	EFXE-142013SB	5,2	10,4	15,7	18,3	23,5	26,2	28,8
SB-202010	EFXE-202010SB	5,3	10,7	16,1	18,7	24,1	26,8	29,5
SB-202016	EFXE-202016SB	6,9	13,9	20,8	24,3	31,3	34,8	38,3
SB-202713	EFXE-202713SB	7,2	14,4	21,6	25,2	32,5	36,1	39,7
SB-272713	EFXE-272713SB	8,3	16,7	25,1	29,3	37,7	41,8	46,0
SB-203016	EFXE-203016SB	8,5	17,1	25,7	30,0	38,6	42,9	47,2
SB-273513	EFXE-273513SB	9,6	19,2	28,9	33,7	43,3	48,2	53,0
SB-282816	EFXE-282816SB	9,6	19,3	29,0	33,9	43,6	48,4	53,3
SB-204016	EFXE-204016SB	10,1	20,2	30,3	35,4	45,5	50,5	55,6
SB-353516	EFXE-353516SB	12,2	24,4	36,6	42,7	54,9	61,0	67,1
SB-282827	EFXE-282827SB	13,1	26,2	39,3	45,9	59,0	65,6	72,2
SB-355016	EFXE-355016SB	14,8	29,7	44,5	52,0	66,8	74,3	81,7
SB-383816	EFXE-383816SB	13,3	26,6	39,9	46,5	59,8	66,5	73,1
SB-384516	EFXE-384516SB	14,5	29,1	43,7	51,0	65,6	72,9	80,2
SB-385716	EFXE-385716SB	16,7	33,4	50,1	58,5	75,2	83,6	91,9
SB-505016	EFXE-505016SB	17,9	35,8	53,8	62,7	80,7	89,7	98,6
SB-383827	EFXE-383827SB	17,5	35,1	52,7	61,4	79,0	87,8	96,6
SB-575716	EFXE-575716SB	20,7	41,5	62,3	72,7	93,5	103,9	114,3
SB-577620	EFXE-577620SB	26,9	53,9	80,9	94,4	121,3	134,8	148,3
SB-575730	EFXE-575730SB	27,9	55,8	83,7	97,7	125,6	139,5	153,5
SB-769520	EFXE-769520SB	36,1	72,2	108,3	126,3	162,4	180,5	198,5
SB-1258040	EFXE-1258040SB	36,1	72,2	108,3	126,3	162,4	180,5	198,5

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Enclosure types (Stainless steel)		Maximum power dissipation (W) – Tamb. up to **55**°C						
		INTERNAL TEMP.65°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
SB-101210	EFXE-101210SB	2,7	4,1	6,9	8,3	11,1	12,5	13,9
SB-151510	EFXE-151510SB	4,0	6,0	10,0	12,0	16,0	18,0	20,0
SB-142013	EFXE-142013SB	5,2	7,8	13,1	15,7	20,9	23,5	26,2
SB-202010	EFXE-202010SB	5,3	8,0	13,4	16,1	21,4	24,1	26,8
SB-202016	EFXE-202016SB	6,9	10,4	17,4	20,8	27,8	31,3	34,8
SB-202713	EFXE-202713SB	7,2	10,8	18,0	21,6	28,9	32,5	36,1
SB-272713	EFXE-272713SB	8,3	12,5	20,9	25,1	33,5	37,7	41,8
SB-203016	EFXE-203016SB	8,5	12,8	21,4	25,7	34,3	38,6	42,9
SB-273513	EFXE-273513SB	9,6	14,4	24,1	28,9	38,5	43,3	48,2
SB-282816	EFXE-282816SB	9,6	14,5	24,2	29,0	38,7	43,6	48,4
SB-204016	EFXE-204016SB	10,1	15,1	25,2	30,3	40,4	45,5	50,5
SB-353516	EFXE-353516SB	12,2	18,3	30,5	36,6	48,8	54,9	61,0
SB-282827	EFXE-282827SB	13,1	19,6	32,8	39,3	52,5	59,0	65,6
SB-355016	EFXE-355016SB	14,8	22,2	37,1	44,5	59,4	66,8	74,3
SB-383816	EFXE-383816SB	13,3	19,9	33,2	39,9	53,2	59,8	66,5
SB-384516	EFXE-384516SB	14,5	21,8	36,4	43,7	58,3	65,6	72,9
SB-385716	EFXE-385716SB	16,7	25,0	41,8	50,1	66,8	75,2	83,6
SB-505016	EFXE-505016SB	17,9	26,9	44,8	53,8	71,7	80,7	89,7
SB-383827	EFXE-383827SB	17,5	26,3	43,9	52,7	70,2	79,0	87,8
SB-575716	EFXE-575716SB	20,7	31,1	51,9	62,3	83,1	93,5	103,9
SB-577620	EFXE-577620SB	26,9	40,4	67,4	80,9	107,9	121,3	134,8
SB-575730	EFXE-575730SB	27,9	41,8	69,7	83,7	111,6	125,6	139,5
SB-769520	EFXE-769520SB	36,1	54,1	90,2	108,3	144,4	162,4	180,5
SB-1258040	EFXE-1258040SB	36,1	54,1	90,2	108,3	144,4	162,4	180,5

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Enclosure types (Stainless steel)		Maximum power dissipation (W) – Tamb. up to **60**°C					
		INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
SB-101210	EFXE-101210SB	2,7	5,5	6,9	9,7	11,1	12,5
SB-151510	EFXE-151510SB	4,0	8,0	10,0	14,0	16,0	18,0
SB-142013	EFXE-142013SB	5,2	10,4	13,1	18,3	20,9	23,5
SB-202010	EFXE-202010SB	5,3	10,7	13,4	18,7	21,4	24,1
SB-202016	EFXE-202016SB	6,9	13,9	17,4	24,3	27,8	31,3
SB-202713	EFXE-202713SB	7,2	14,4	18,0	25,2	28,9	32,5
SB-272713	EFXE-272713SB	8,3	16,7	20,9	29,3	33,5	37,7
SB-203016	EFXE-203016SB	8,5	17,1	21,4	30,0	34,3	38,6
SB-273513	EFXE-273513SB	9,6	19,2	24,1	33,7	38,5	43,3
SB-282816	EFXE-282816SB	9,6	19,3	24,2	33,9	38,7	43,6
SB-204016	EFXE-204016SB	10,1	20,2	25,2	35,4	40,4	45,5
SB-353516	EFXE-353516SB	12,2	24,4	30,5	42,7	48,8	54,9
SB-282827	EFXE-282827SB	13,1	26,2	32,8	45,9	52,5	59,0
SB-355016	EFXE-355016SB	14,8	29,7	37,1	52,0	59,4	66,8
SB-383816	EFXE-383816SB	13,3	26,6	33,2	46,5	53,2	59,8
SB-384516	EFXE-384516SB	14,5	29,1	36,4	51,0	58,3	65,6
SB-385716	EFXE-385716SB	16,7	33,4	41,8	58,5	66,8	75,2
SB-505016	EFXE-505016SB	17,9	35,8	44,8	62,7	71,7	80,7
SB-383827	EFXE-383827SB	17,5	35,1	43,9	61,4	70,2	79,0
SB-575716	EFXE-575716SB	20,7	41,5	51,9	72,7	83,1	93,5
SB-577620	EFXE-577620SB	26,9	53,9	67,4	94,4	107,9	121,3
SB-575730	EFXE-575730SB	27,9	55,8	69,7	97,7	111,6	125,6
SB-769520	EFXE-769520SB	36,1	72,2	90,2	126,3	144,4	162,4
SB-1258040	EFXE-1258040SB	36,1	72,2	90,2	126,3	144,4	162,4

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Enclosure types (Stainless steel)		Maximum power dissipation (W) – Tamb. up to **95**°C	
		INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
SB-101210	EFXE-101210SB	1,3	2,7
SB-151510	EFXE-151510SB	2,0	4,0
SB-142013	EFXE-142013SB	2,6	5,2
SB-202010	EFXE-202010SB	2,6	5,3
SB-202016	EFXE-202016SB	3,4	6,9
SB-202713	EFXE-202713SB	3,6	7,2
SB-272713	EFXE-272713SB	4,1	8,3
SB-203016	EFXE-203016SB	4,2	8,5
SB-273513	EFXE-273513SB	4,8	9,6
SB-282816	EFXE-282816SB	4,8	9,6
SB-204016	EFXE-204016SB	5,0	10,1
SB-353516	EFXE-353516SB	6,1	12,2
SB-282827	EFXE-282827SB	6,5	13,1
SB-355016	EFXE-355016SB	7,4	14,8
SB-383816	EFXE-383816SB	6,6	13,3
SB-384516	EFXE-384516SB	7,2	14,5
SB-385716	EFXE-385716SB	8,3	16,7
SB-505016	EFXE-505016SB	8,9	17,9
SB-383827	EFXE-383827SB	8,7	17,5
SB-575716	EFXE-575716SB	10,3	20,7
SB-577620	EFXE-577620SB	13,4	26,9
SB-575730	EFXE-575730SB	13,9	27,9
SB-769520	EFXE-769520SB	18,0	36,1
SB-1258040	EFXE-1258040SB	18,0	36,1

Power dissipation – Stainless steel enclosures ST series

Enclosure types (Stainless steel)		Maximum power dissipation (W) – Tamb. up to **40**°C						
		INTERNAL TEMP.60°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
ST-101210	EFXE-101210ST	5,5	8,3	11,1	12,5	15,3	16,7	18,1
ST-151510	EFXE-151510ST	8,0	12,0	16,0	18,0	22,0	24,0	26,1
ST-142013	EFXE-142013ST	10,4	15,7	20,9	23,5	28,8	31,4	34,0
ST-202010	EFXE-202010ST	10,7	16,1	21,4	24,1	29,5	32,2	34,8
ST-202016	EFXE-202016ST	13,9	20,8	27,8	31,3	38,3	41,7	45,2
ST-202713	EFXE-202713ST	14,4	21,6	28,9	32,5	39,7	43,3	46,9
ST-272713	EFXE-272713ST	16,7	25,1	33,5	37,7	46,0	50,2	54,4
ST-203016	EFXE-203016ST	17,1	25,7	34,3	38,6	47,2	51,4	55,7
ST-273513	EFXE-273513ST	19,2	28,9	38,5	43,3	53,0	57,8	62,6
ST-282816	EFXE-282816ST	19,3	29,0	38,7	43,6	53,3	58,1	63,0
ST-204016	EFXE-204016ST	20,2	30,3	40,4	45,5	55,6	60,6	65,7
ST-353516	EFXE-353516ST	24,4	36,6	48,8	54,9	67,1	73,2	79,3
ST-282827	EFXE-282827ST	26,2	39,3	52,5	59,0	72,2	78,7	85,3
ST-355016	EFXE-355016ST	29,7	44,5	59,4	66,8	81,7	89,1	96,6
ST-383816	EFXE-383816ST	26,6	39,9	53,2	59,8	73,1	79,8	86,5
ST-384516	EFXE-384516ST	29,1	43,7	58,3	65,6	80,2	87,5	94,8
ST-385716	EFXE-385716ST	33,4	50,1	66,8	75,2	91,9	100,3	108,7
ST-505016	EFXE-505016ST	35,8	53,8	71,7	80,7	98,6	107,6	116,6
ST-383827	EFXE-383827ST	35,1	52,7	70,2	79,0	96,6	105,4	114,2
ST-575716	EFXE-575716ST	41,5	62,3	83,1	93,5	114,3	124,7	135,1
ST-577620	EFXE-577620ST	53,9	80,9	107,9	121,3	148,3	161,8	175,3
ST-575730	EFXE-575730ST	55,8	83,7	111,6	125,6	153,5	167,5	181,4
ST-769520	EFXE-769520ST	72,2	108,3	144,4	162,4	198,5	216,6	234,6
ST-1258040	EFXE-1258040ST	72,2	108,3	144,4	162,4	198,5	216,6	234,6

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Enclosure types (Stainless steel)		Maximum power dissipation (W) – Tamb. up to **50**°C						
		INTERNAL TEMP.60°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
ST-101210	EFXE-101210ST	2,7	5,5	8,3	9,7	12,5	13,9	15,3
ST-151510	EFXE-151510ST	4,0	8,0	12,0	14,0	18,0	20,0	22,0
ST-142013	EFXE-142013ST	5,2	10,4	15,7	18,3	23,5	26,2	28,8
ST-202010	EFXE-202010ST	5,3	10,7	16,1	18,7	24,1	26,8	29,5
ST-202016	EFXE-202016ST	6,9	13,9	20,8	24,3	31,3	34,8	38,3
ST-202713	EFXE-202713ST	7,2	14,4	21,6	25,2	32,5	36,1	39,7
ST-272713	EFXE-272713ST	8,3	16,7	25,1	29,3	37,7	41,8	46,0
ST-203016	EFXE-203016ST	8,5	17,1	25,7	30,0	38,6	42,9	47,2
ST-273513	EFXE-273513ST	9,6	19,2	28,9	33,7	43,3	48,2	53,0
ST-282816	EFXE-282816ST	9,6	19,3	29,0	33,9	43,6	48,4	53,3
ST-204016	EFXE-204016ST	10,1	20,2	30,3	35,4	45,5	50,5	55,6
ST-353516	EFXE-353516ST	12,2	24,4	36,6	42,7	54,9	61,0	67,1
ST-282827	EFXE-282827ST	13,1	26,2	39,3	45,9	59,0	65,6	72,2
ST-355016	EFXE-355016ST	14,8	29,7	44,5	52,0	66,8	74,3	81,7
ST-383816	EFXE-383816ST	13,3	26,6	39,9	46,5	59,8	66,5	73,1
ST-384516	EFXE-384516ST	14,5	29,1	43,7	51,0	65,6	72,9	80,2
ST-385716	EFXE-385716ST	16,7	33,4	50,1	58,5	75,2	83,6	91,9
ST-505016	EFXE-505016ST	17,9	35,8	53,8	62,7	80,7	89,7	98,6
ST-383827	EFXE-383827ST	17,5	35,1	52,7	61,4	79,0	87,8	96,6
ST-575716	EFXE-575716ST	20,7	41,5	62,3	72,7	93,5	103,9	114,3
ST-577620	EFXE-577620ST	26,9	53,9	80,9	94,4	121,3	134,8	148,3
ST-575730	EFXE-575730ST	27,9	55,8	83,7	97,7	125,6	139,5	153,5
ST-769520	EFXE-769520ST	36,1	72,2	108,3	126,3	162,4	180,5	198,5
ST-1258040	EFXE-1258040ST	36,1	72,2	108,3	126,3	162,4	180,5	198,5

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Enclosure types (Stainless steel)		Maximum power dissipation (W) – Tamb. up to **55**°C						
		INTERNAL TEMP.65°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
ST-101210	EFXE-101210ST	2,7	4,1	6,9	8,3	11,1	12,5	13,9
ST-151510	EFXE-151510ST	4,0	6,0	10,0	12,0	16,0	18,0	20,0
ST-142013	EFXE-142013ST	5,2	7,8	13,1	15,7	20,9	23,5	26,2
ST-202010	EFXE-202010ST	5,3	8,0	13,4	16,1	21,4	24,1	26,8
ST-202016	EFXE-202016ST	6,9	10,4	17,4	20,8	27,8	31,3	34,8
ST-202713	EFXE-202713ST	7,2	10,8	18,0	21,6	28,9	32,5	36,1
ST-272713	EFXE-272713ST	8,3	12,5	20,9	25,1	33,5	37,7	41,8
ST-203016	EFXE-203016ST	8,5	12,8	21,4	25,7	34,3	38,6	42,9
ST-273513	EFXE-273513ST	9,6	14,4	24,1	28,9	38,5	43,3	48,2
ST-282816	EFXE-282816ST	9,6	14,5	24,2	29,0	38,7	43,6	48,4
ST-204016	EFXE-204016ST	10,1	15,1	25,2	30,3	40,4	45,5	50,5
ST-353516	EFXE-353516ST	12,2	18,3	30,5	36,6	48,8	54,9	61,0
ST-282827	EFXE-282827ST	13,1	19,6	32,8	39,3	52,5	59,0	65,6
ST-355016	EFXE-355016ST	14,8	22,2	37,1	44,5	59,4	66,8	74,3
ST-383816	EFXE-383816ST	13,3	19,9	33,2	39,9	53,2	59,8	66,5
ST-384516	EFXE-384516ST	14,5	21,8	36,4	43,7	58,3	65,6	72,9
ST-385716	EFXE-385716ST	16,7	25,0	41,8	50,1	66,8	75,2	83,6
ST-505016	EFXE-505016ST	17,9	26,9	44,8	53,8	71,7	80,7	89,7
ST-383827	EFXE-383827ST	17,5	26,3	43,9	52,7	70,2	79,0	87,8
ST-575716	EFXE-575716ST	20,7	31,1	51,9	62,3	83,1	93,5	103,9
ST-577620	EFXE-577620ST	26,9	40,4	67,4	80,9	107,9	121,3	134,8
ST-575730	EFXE-575730ST	27,9	41,8	69,7	83,7	111,6	125,6	139,5
ST-769520	EFXE-769520ST	36,1	54,1	90,2	108,3	144,4	162,4	180,5
ST-1258040	EFXE-1258040ST	36,1	54,1	90,2	108,3	144,4	162,4	180,5

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Enclosure types (Stainless steel)		Maximum power dissipation (W) – Tamb. up to **60**°C					
		INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
ST-101210	EFXE-101210ST	2,7	5,5	6,9	9,7	11,1	12,5
ST-151510	EFXE-151510ST	4,0	8,0	10,0	14,0	16,0	18,0
ST-142013	EFXE-142013ST	5,2	10,4	13,1	18,3	20,9	23,5
ST-202010	EFXE-202010ST	5,3	10,7	13,4	18,7	21,4	24,1
ST-202016	EFXE-202016ST	6,9	13,9	17,4	24,3	27,8	31,3
ST-202713	EFXE-202713ST	7,2	14,4	18,0	25,2	28,9	32,5
ST-272713	EFXE-272713ST	8,3	16,7	20,9	29,3	33,5	37,7
ST-203016	EFXE-203016ST	8,5	17,1	21,4	30,0	34,3	38,6
ST-273513	EFXE-273513ST	9,6	19,2	24,1	33,7	38,5	43,3
ST-282816	EFXE-282816ST	9,6	19,3	24,2	33,9	38,7	43,6
ST-204016	EFXE-204016ST	10,1	20,2	25,2	35,4	40,4	45,5
ST-353516	EFXE-353516ST	12,2	24,4	30,5	42,7	48,8	54,9
ST-282827	EFXE-282827ST	13,1	26,2	32,8	45,9	52,5	59,0
ST-355016	EFXE-355016ST	14,8	29,7	37,1	52,0	59,4	66,8
ST-383816	EFXE-383816ST	13,3	26,6	33,2	46,5	53,2	59,8
ST-384516	EFXE-384516ST	14,5	29,1	36,4	51,0	58,3	65,6
ST-385716	EFXE-385716ST	16,7	33,4	41,8	58,5	66,8	75,2
ST-505016	EFXE-505016ST	17,9	35,8	44,8	62,7	71,7	80,7
ST-383827	EFXE-383827ST	17,5	35,1	43,9	61,4	70,2	79,0
ST-575716	EFXE-575716ST	20,7	41,5	51,9	72,7	83,1	93,5
ST-577620	EFXE-577620ST	26,9	53,9	67,4	94,4	107,9	121,3
ST-575730	EFXE-575730ST	27,9	55,8	69,7	97,7	111,6	125,6
ST-769520	EFXE-769520ST	36,1	72,2	90,2	126,3	144,4	162,4
ST-1258040	EFXE-1258040ST	36,1	72,2	90,2	126,3	144,4	162,4

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Enclosure types (Stainless steel)		Maximum power dissipation (W) – Tamb. up to **95**°C	
		INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
ST-101210	EFXE-101210ST	1,3	2,7
ST-151510	EFXE-151510ST	2,0	4,0
ST-142013	EFXE-142013ST	2,6	5,2
ST-202010	EFXE-202010ST	2,6	5,3
ST-202016	EFXE-202016ST	3,4	6,9
ST-202713	EFXE-202713ST	3,6	7,2
ST-272713	EFXE-272713ST	4,1	8,3
ST-203016	EFXE-203016ST	4,2	8,5
ST-273513	EFXE-273513ST	4,8	9,6
ST-282816	EFXE-282816ST	4,8	9,6
ST-204016	EFXE-204016ST	5,0	10,1
ST-353516	EFXE-353516ST	6,1	12,2
ST-282827	EFXE-282827ST	6,5	13,1
ST-355016	EFXE-355016ST	7,4	14,8
ST-383816	EFXE-383816ST	6,6	13,3
ST-384516	EFXE-384516ST	7,2	14,5
ST-385716	EFXE-385716ST	8,3	16,7
ST-505016	EFXE-505016ST	8,9	17,9
ST-383827	EFXE-383827ST	8,7	17,5
ST-575716	EFXE-575716ST	10,3	20,7
ST-577620	EFXE-577620ST	13,4	26,9
ST-575730	EFXE-575730ST	13,9	27,9
ST-769520	EFXE-769520ST	18,0	36,1
ST-1258040	EFXE-1258040ST	18,0	36,1

Maximum Power Dissipation calculation

The values specified in the tables as per clause 2.1.1 may be modified within the maximum admitted Tamb and maximum admitted internal temperature as follows.

$$Pdiss\ (W) = \frac{Tmax - Tamb}{Rth}$$

$Rth = A \times (\text{enclosure surface in } mm^2 \text{ except enclosure bottom})^B$

Legend:
Rth – Thermal resistance [K/W].
Tmax – Maximum allowed temperature inside enclosure.
Tamb – Ambient temperature of enclosure
A and B - coefficients determined for each series o enclosure. Exact values are given in manufacturer's documentation.

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[16] Confidential Report No. FIDI 21 CR 075

[16.1] Routine testing

Junction boxes, local control stations and local control panels fitted with wiring, shall be subject to a routine dielectric strength test according to the clause 7.1 of IEC 60079-7.

[17] Specific Conditions of Use

- Enclosures marked with warning label: "WARNING – POTENTIAL ELECTROSTATIC CHARGING HAZARD – SEE INSTRUCTIONS" must be cleaned only by damp cloth or antistatic products.
- Apparatus equipped with drain / venting valve Technor Italsmea model ECR3:
  - the valve cannot be open when an explosive dust atmosphere is present.
  - The valve can be open when an explosive gas atmosphere is present: when open, the equipment reaches the protection degree IP44.
  - When the valve is left in open position, it should be protected from light exposure.
- On the intrinsic safety terminals, the user must only connect devices with compatible intrinsic safety parameters according to EN 60079-14.

[18] Essential Health and Safety Requirements

Covered by the conformity with harmonized standards listed under item 9.

[19] Drawings and Documents

Title:	Drawing No.:	Rev. level:	Date:
Technical note	TN2111	0	17.11.2021
Instruction for use	TN2111 Annex A	0	08.11.2021
Apparatus list	TN2111 Annex B	0	17.11.2021
Drawings:			
Cable entries, plug, adaptors coupling systems	AC2111, sheet 1	0	10.11.2021
Example of operator arrangements for AQ-AR-EFE	AC2111, sheet 2	0	10.11.2021
Example of operator arrangements for SB-ST-EFEXE	AC2111, sheet 3	0	10.11.2021
Example terminals and earth bus bar	AC2111, sheet 4	0	10.11.2021
Drain / breath device type ECR3	AC2111, sheet 5	0	10.11.2021
Marking label SB..., ST..., AQ..., AR...	AC2111, sheet 6	0	10.11.2021
Marking label SB..., ST..., AQ..., AR...	AC2111, sheet 7	0	10.11.2021

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[1] **SUPPLEMENTARY EU – TYPE EXAMINATION CERTIFICATE**

[2] Equipment or Protective Systems Intended for use in Potentially Explosive Atmospheres Directive 2014/34/EU.

[3] Supplementary EU-Type Examination Certificate Number: **FIDI 21 ATEX 0090X/1**

[4] Product: **Junction boxes, local control stations and local control panels**

Type: **AQ-***P / AQ-***AL / AR-***P / AR-***AL**
AQ-*P-HT / AQ-***AL-HT / AR-***P-HT / AR-***AL-HT**
SB-* / ST-***
EFE-* / EFXE-*** AL/ EFXE-***SB / EFXE-***ST**
EFE-*-HT / EFXE-***AL-HT**

[5] Manufacturer: **Technor Italsmea S.p.A.**

[6] Address: **Via Italia 33, 20060 Gessate (MI), Italy**

[7] This supplementary certificate extends EU – Type Examination Certificate to apply to product designed and constructed in accordance with the specification set out in the Schedule of the said certificate but having any variations specified in the Schedule to this certificate and the documents therein referred to.

[8] FIDITAS Ltd., Notified Body number 2829 in accordance with Article 17 of Directive 2014/34/EU of the European Parliament and of the Council, dated 26 February 2014, certifies that this product has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of products intended for use in potentially explosive atmospheres given in Annex II of the Directive.

[9] The examination and test results are recorded in confidential Report No: **FIDI 23 CR 019**

[10] The marking of the product shall include the following:

II 1 G	**Ex ia IIC/IIB T6...T4 Ga**(2) or
II 2(1) G or **II 2(2) G**	**Ex db eb ia/ib mb [**(3)**] IIC/IIB T6...T4 Gb**(1) or
II 2 G	**Ex eb IIC/IIB T6...T4 Gb**(1) or
II 2 D	**Ex tb IIIC T85°C...T135°C Db**

(1) Others type of protection additional to 'eb' depending to the components actually mounted.

(2) In case of enclosures containing 'eb' terminals and/or 'ia Ga' already certified components (with compatible marking) only.

(3) Associated equipment protection depending on the components actually mounted (see lists): e.g. [ia/ib/ia Ga/ia IIIC Da] and/or [ia IIIC Da] or [ia/ib/ia Ga/ia IIIC Da] and/or [ia/ib/ia Ga] [ia IIIC Da]

FIDITAS Ltd.
Certification department
Approved:

Marino Kelava, M.E.Eng.

Our ref.: 23.CRT.071

Date: 19.04.2023

Fiditas d.o.o. ZAGREB

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[11] **SCHEDULE**

[12] **SUPPLEMENTARY EU - TYPE EXAMINATION CERTIFICATE No.: FIDI 21 ATEX 0090X /1**

[13] Description of the variation to the Product

New Ex products added:

- Surge voltage protection unit type: PLUGTRAB PT2 or PT4 – PHOENIX CONTACT; II 1G> Ex ia IIC T4...T6 Ga; KEMA 00 ATEX 1099X;
- SITRANS TH230/420, type: 7NG0317, 0310; 0410 TR320/TR420 7NG0327; 7NG0320; TYPE 7NG0420; Siemens AG; II 1G Ex ia IIC T6...T4 Ga; II 2(1)G Ex ib [ia Ga] IIC T6...T4 Gb; DEKRA 17 ATEX 0116X
- Enhanced Model 644 Temperature Transmitter, ROSEMOUNT INCORPORATED, II 1G Ex ia IIC T6...T4 Ga; DEKRA 21ATEX0003X,
- Temperature Transmitter type: 5434D; 5431D; 6431D; 5435D; 5437D; 5437D; 5437B; 6437D, II 1G Ex ia IIC T6...T4 Ga; II 2(1)G Ex ib [ia Ga] IIC T6...T4 Gb; DEKRA 16 ATEX 0047X,
- Controls Units and / or Junction Boxes Type: GUB..., TECHNOR ITALSMEA; II 2G Ex db (*) IIC T(*) Gb; INERIS 22 ATEX 0008X
- Cable Transit Device type: CF 8 Ex, CF 32 Ex, CF 16 Ex, C RS T...Ex, RS..B Ex, SF...Ex, SFX...B Ex, B...B Ex, R...B Ex and RO...B; ROXTEC INTERNATIONAL AB, II 2G Ex e IIC Gb, II 2D Ex tb IIC Db; NEMKO 12 ATEX 1278X
- Cable Transit Device type: HD 16 Ex, HD 24 Ex, HD 32 Ex and HDLC Ex, ROXTEC INTERNATIONAL AB, II 2G Ex eb IIC Gb, II 2D Ex tb IIIC Db, PRESAFE 15 ATEX 6419X
- Control stations and junction boxes type: CP..., TECHNOR ITALSMEA, II 2G Ex db IIC T6 or T5 or T4 Gb or II 2(1)G Ex db [ia Ga] IIC T6 Gb(***) or II 2(2)G Ex db [ib] IIC T6 Gb (***); INERIS 03 ATEX 0009X
- Industrial plug and socket type: DXN1, MARECHAL ELECTRIC, II 2G Ex db eb IIC T5 or T6; II 2D Ex tb IIIC T90°C/T70°C; LCIE 99 ATEX6027X
- Industrial plug and socket type: DXN3, MARECHAL ELECTRIC; II 2G Ex db eb IIC T5 or T6; II 2D Ex tb IIIC T90°C/T70°C; LCIE 05 ATEX 6149X
- Industrial plug and socket type: DXN6, MARECHAL ELECTRIC, II 2G Ex db eb IIC T5 or T6; II 2D Ex tb IIIC T90°C/T70°C; LCIE 05 ATEX 6150X
- Industrial plug and socket type: PXN12C, MARECHAL ELECTRIC, II 2G Ex eb IIC T*; II 2G Ex ia or ib IIC T*; II 2D Ex tb IIIC T* Db; LCIE 07 ATEX 6070X
- Industrial plug and socket type: DXN25C, MARECHAL ELECTRIC; II 2G Ex eb IIC T*; II 2G Ex ia or ib IIC T6; II2D Ex tb IIIC T*; LCIE 09ATEX3050X
- Industrial plug and socket type: DXN37C, MARECHAL ELECTRIC; II 2G Ex eb IIC T*; II 2G Ex ia or ib IIC T6; II2D Ex tb IIIC T*; LCIE 07ATEX6071X
- Industrial plug and socket type: SPeX, MARECHAL ELECTRIC, II 2G Ex eb IIC T*; II2D Ex tb IIIC T* Db; LCIE 07ATEX6073X
- Industrial plug and socket type: DXA1, MARECHAL ELECTRIC, II 2G Ex db eb IIC T* Gb; II 2D Ex tb IIC T*°C Db; LCIE 15ATEX 3033X
- Industrial plug and socket type: PNCX, MARECHAL ELECTRIC, II 2G Ex IIC T6 Gb; II 2D Ex tb IIIC T72°C Db; LCIE 16ATEX3001X
- Terminal type: WDU 240, WEIDMULLER, II 2G Ex eb IIC Gb; KEMA 01 ATEX 2186U.

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[14] Confidential Report No. FIDI 23 CR 019

[14.1] Routine testing

No change to specified in the initial certificate.

[15] Specific Conditions of Use

Addditional to those specified the initial certificate:

- Manufacturer must obey relevant specific condition of use of Ex equipment and/or schedule of limitation of Ex components installed in/on the product and forward to the end user if relevant for the installation and use.

[16] Essential Health and Safety Requirements

Compliance with the Essential Health and Safety Requirements is not affected by this variation.

[17] Drawings and Documents

Title:	Drawing No.:	Rev. level:	Date:
Technical note	TN2111	1	20.01.2023
Instruction for use	TN2111 Annex A	1	20.01.2023
Apparatus list	TN2111 Annex B	1	20.01.2023

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IECEx Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION
IEC Certification System for Explosive Atmospheres

for rules and details of the IECEx Scheme visit www.iecex.com

Certificate No.:	**IECEx FIDI 21.0015X**	Page 1 of 4	Certificate history: Issue 0 (2022-02-18)
Status:	**Current**	Issue No: 1	
Date of Issue:	2023-05-04		

Applicant: **Technor Italsmea S.p.A.**
Via Italia 33
20060 Gessate (MI)
Italy

Equipment: **Junction boxes, local control stations and local control panels**

Optional accessory: Model reference: AQ-***P / AQ-***AL / AR-***P / AR-***AL / AQ-***P-HT / AQ-***AL-HT / AR-***P-HT / AR-***AL-HT / SB-*** / ST-*** / EFE-*** / EFXE-*** AL/ EFXE-***SB / EFXE-***ST / EFE-***-HT / EFXE-***AL-HT

Type of Protection: **Flameproof enclosure 'db'; Intrinsic safety 'ia/ib'; Increased safety 'eb'; Encapsulation 'mb', Protection by enclosure 'tb'**

Marking: **Ex ia IIC/IIB T6...T4 Ga**(2) or

Ex db eb ia/ib mb [(3)] IIC/IIB T6...T4 Gb(1) or

Ex eb IIC/IIB T6...T4 Gb(1) or

Ex tb IIIC T85°C...T135°C Db

(1) Others type of protection additional to Ex e/eb depending to the components actually mounted.

(2) In case of enclosures containing Ex e/Ex eb terminals and/or Ex ia Ga already certified components (with compatible marking) only.

(3) Associated equipment protection depending on the components actually mounted (see lists): e.g. [ia/ib/ia Ga/ia IIIC Da] and/or [ia IIIC Da] or [ia/ib/ia Ga/ia IIIC Da] and/or [ia/ib/ia Ga] [ia IIIC Da]

Approved for issue on behalf of the IECEx Certification Body: **Marino Kelava**

Position: **Certification Signatory**

Signature:
(for printed version)

Date:
(for printed version)

1. This certificate and schedule may only be reproduced in full.
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Certificate issued by:

Fiditas Ltd
Slavka Tomerlina 44
HR-10361 Zagreb-Sesvete
Croatia

Fiditas
explosion safety solutions

IECEx Certificate of Conformity

Certificate No.: **IECEx FIDI 21.0015X**

Date of issue: 2023-05-04 Issue No: 1

Manufacturer: **Technor Italsmea S.p.A.**
Via Italia 33
20060 Gessate (MI)
Italy

Manufacturing locations:

This certificate is issued as verification that a sample(s), representative of production, was assessed and tested and found to comply with the IEC Standard list below and that the manufacturer's quality system, relating to the Ex products covered by this certificate, was assessed and found to comply with the IECEx Quality system requirements.This certificate is granted subject to the conditions as set out in IECEx Scheme Rules, IECEx 02 and Operational Documents as amended

STANDARDS :
The equipment and any acceptable variations to it specified in the schedule of this certificate and the identified documents, was found to comply with the following standards

IEC 60079-0:2017 Explosive atmospheres - Part 0: Equipment - General requirements
Edition:7.0

IEC 60079-1:2014-06 Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"
Edition:7.0

IEC 60079-11:2011 Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"
Edition:6.0

IEC 60079-18:2017 Explosive atmospheres - Part 18: Protection by encapsulation "m"
Edition:4.1

IEC 60079-31:2013 Explosive atmospheres - Part 31: Equipment dust ignition protection by enclosure "t"
Edition:2

IEC 60079-7:2017 Explosive atmospheres - Part 7: Equipment protection by increased safety "e"
Edition:5.1

This Certificate **does not** indicate compliance with safety and performance requirements other than those expressly included in the Standards listed above.

TEST & ASSESSMENT REPORTS:
A sample(s) of the equipment listed has successfully met the examination and test requirements as recorded in:

Test Reports:

HR/FIDI/ExTR21.0016/00 HR/FIDI/ExTR21.0016/01

Quality Assessment Report:

FR/INE/QAR08.0002/15

IECEx Certificate of Conformity

EQUIPMENT:
Equipment and systems covered by this Certificate are as follows:

Junction boxes, local control stations and local control panels series AQ-…..; AR-…..; SB…..; EFE-…..; EFXE-….. use certified enclosures of various sizes, manufactured by Technor Italsmea S.p.A., type: AQ-.... ; AR-....; SB-...; ST- …, certificate IECEx FIDI 21.0012U.

Enclosures coded …-HT are made in glass fiber reinforced polyester resin or in aluminum, and covered by IECEx component certificates: IECEx PTB 08.0003U, enclosure type: 26.****** and IECEx PTB 08.0003U, enclosure type: 25.******.

Enclosures may be equipped with certified Ex equipment or Ex components and Ex terminals listed in manufacturer's documentation. Certified Ex equipment or Ex components and Ex terminals must be used according to data available in related component or equipment certificates, in particular relevant temperature range, voltage and current limitations. The cable glands or plugs, with separate IECEx certificate, made in type of protection ‘eb’ and/or ‘tb’ with appropriate IP protection are mounted according to related manufacturer’s installation instructions. Each enclosure is provided with internal earthing certified terminal or earthing screw or bolt. Metal enclosures are provided by external earthing screw or bolt. Metal and polyester enclosures can be provided by passing through earthing terminals.

All enclosures can be provided by:
- Externally installed accessories as specified in manufacturer documents,
- Drain breath device type ECR3, included in this certificate,
- Internal/external earthing plate.

For other description see Annex.

SPECIFIC CONDITIONS OF USE: YES as shown below:

- Enclosures marked with warning label: “WARNING – POTENTIAL ELECTROSTATIC CHARGING HAZARD – SEE INSTRUCTIONS” must be cleaned only by damp cloth or antistatic products.
- Apparatus equipped with drain / venting valve Technor Italsmea model ECR3:
  - the valve cannot be open when an explosive dust atmosphere is present.
  - The valve can be open when an explosive gas atmosphere is present: when open, the equipment reaches the protection degree IP44.
  - When the valve is left in open position, it should be protected from light exposure.
- On the intrinsic safety terminals, the user must only connect devices with compatible intrinsic safety parameters according to IEC 60079-14.

IECEx Certificate of Conformity

DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)
New IECEx certified Ex products added in the Apparatus list according to list given in HR/FIDI/ ExTR 21.0016/01.

Annex:

IECEx FIDI 21.0015X Technor Equipment Annex1 issue1.pdf

Technical description (continued from original certificate)

Model identification

Junction boxes

A(1)-(2) (3) (4) (5) (6)	(1) –	**Q**: Square size **R**: Rectangular size
	(2) (3) (4)	dimension, in cm
	(5)	Material **P**: Glass fiber reinforced polyester resin **AL**: Aluminium Alloy
	(6)	None: up to internal temperature of 105°C **HT**: up to internal temperature of 130°C
SB- (2) (3) (4)	(2) (3) (4)	dimension, in cm
ST- (2) (3) (4)	(2) (3) (4)	dimension, in cm

Panel boards

EFE- (2) (3) (4) (6)	(2) (3) (4)	dimension, in cm
	(6)	None: up to internal temperature of 105°C **HT**: up to internal temperature of 130°C
EFXE- (2) (3) (4) (5) (6)	(2) (3) (4)	dimension, in cm
	(5)	Material **SB** or **ST**: stainless steel **AL**: Aluminium Alloy
	(6)	None: up to internal temperature of 105°C **HT**: up to internal temperature of 130°C

Technical data:

Electrical data:	According to Ex component to actually installed
Ambient temperature:	-50°C to +95°C Other possible ranges are with: - min temperature: -50°C to -20 °C - max temperature of +40 °C to +95 °C
Mechanical protection:	IP55, IP66 or IP67 depending on model

Temperature class and/or maximum surface temperature of any junction box or control panel depend on ambient temperature and internal power dissipation. The values that must be observed are given in relevant tables in this certificate.

For commercial reasons model name listed in the tables below can be modified as follows: first (2) and second (3) pair of digits can be reversed.

Models sizes

Polyester High Temperature		Aluminium High Temperature	
AQ-080806P-HT	EFE-080806-HT	AQ-080806AL-HT	EFXE-080806AL-HT
AQ-080808P-HT	EFE-080808-HT	AR-081306AL-HT	EFXE-081306AL-HT
AR-081106P-HT	EFE-081106-HT	AR-081806AL-HT	EFXE-081806AL-HT
AR-081108P-HT	EFE-081108-HT	AR-082505AL-HT	EFXE-082505AL-HT
AR-081606P-HT	EFE-081606-HT	AQ-101008AL-HT	EFXE-101008AL-HT
AR-081608P-HT	EFE-081608-HT	AR-101608AL-HT	EFXE-101608AL-HT
AR-081906P-HT	EFE-081906-HT	AR-102008AL-HT	EFXE-102008AL-HT
AR-081908P-HT	EFE-081908-HT	AQ-121208AL-HT	EFXE-121208AL-HT
AR-082306P-HT	EFE-082306-HT	AQ-121209AL-HT	EFXE-121209AL-HT
AR-082308P-HT	EFE-082308-HT	AR-122208AL-HT	EFXE-122208AL-HT
AQ-121209P-HT	EFE-121209-HT	AR-122209AL-HT	EFXE-122209AL-HT
AR-122209P-HT	EFE-122209-HT	AR-123608AL-HT	EFXE-123608AL-HT
AQ-161609P-HT	EFE-161609-HT	AQ-141409AL-HT	EFXE-141409AL-HT
AR-162609P-HT	EFE-162609-HT	AR-142009AL-HT	EFXE-142009AL-HT
AR-163609P-HT	EFE-163609-HT	AQ-161609AL-HT	EFXE-161609AL-HT
AR-165609P-HT	EFE-165609-HT	AR-162609AL-HT	EFXE-162609AL-HT
AQ-202017P-HT	EFE-202017-HT	AR-163609AL-HT	EFXE-163609AL-HT
AR-203017P-HT	EFE-203017-HT	AR-165609AL-HT	EFXE-165609AL-HT
AQ-252612P-HT	EFE-252612-HT	AQ-181810AL-HT	EFXE-181810AL-HT
AQ-252616P-HT	EFE-252616-HT	AR-182810AL-HT	EFXE-182810AL-HT
AR-254012P-HT	EFE-254012-HT	AR-102311AL-HT	EFXE-102311AL-HT
AR-254016P-HT	EFE-254016-HT	AR-202311AL-HT	EFXE-202311AL-HT
AR-256012P-HT	EFE-256012-HT	AR-202318AL-HT	EFXE-202318AL-HT
AR-304020P-HT	EFE-304020-HT	AR-232811AL-HT	EFXE-232811AL-HT
AQ-363609P-HT	EFE-363609-HT	AR-233311AL-HT	EFXE-233311AL-HT
AR-406025P-HT	EFE-406025-HT	AR-233318AL-HT	EFXE-233318AL-HT
AQ-414012P-HT	EFE-414012-HT	AR-234011AL-HT	EFXE-234011AL-HT
AQ-414020P-HT	EFE-414020-HT	AR-234023AL-HT	EFXE-234023AL-HT
		AR-236011AL-HT	EFXE-236011AL-HT
		AR-314011AL-HT	EFXE-314011AL-HT
		AR-314014AL-HT	EFXE-314014AL-HT
		AR-314018AL-HT	EFXE-314018AL-HT
		AR-314023AL-HT	EFXE-314023AL-HT
		AR-316011AL-HT	EFXE-316011AL-HT
		AR-316018AL-HT	EFXE-316018AL-HT
		AQ-606020AL-HT	EFXE-606020AL-HT

Polyester		Aluminium		Stainless steel	
AQ-080806P	EFE-080806	AQ-080806AL	EFXE-080806AL	SB-101210	EFXE-101210SB
AQ-080808P	EFE-080808	AR-081306AL	EFXE-081306AL	SB-151510	EFXE-151510SB
AR-081106P	EFE-081106	AR-081806AL	EFXE-081806AL	SB-142013	EFXE-142013SB
AR-081606P	EFE-081606	AR-081808AL	EFXE-081808AL	SB-202010	EFXE-202010SB
AR-081906P	EFE-081906	AR-082505AL	EFXE-082505AL	SB-202016	EFXE-202016SB
AQ-121209P	EFE-121209	AR-082508AL	EFXE-082508AL	SB-202713	EFXE-202713SB
AR-122209P	EFE-122209	AQ-101008AL	EFXE-101008AL	SB-272713	EFXE-272713SB
AQ-161609P	EFE-161609	AR-101508AL	EFXE-101508AL	SB-203016	EFXE-203016SB
AR-162609P	EFE-162609	AR-101608AL	EFXE-101608AL	SB-273513	EFXE-273513SB
AR-163609P	EFE-163609	AR-102008AL	EFXE-102008AL	SB-282816	EFXE-282816SB
AQ-252612P	EFE-252612	AQ-121208AL	EFXE-121208AL	SB-204016	EFXE-204016SB
AQ-252616P	EFE-252616	AR-122209AL	EFXE-122209AL	SB-353516	EFXE-353516SB
AR-254012P	EFE-254012	AQ-141409AL	EFXE-141409AL	SB-282827	EFXE-282827SB
AR-254016P	EFE-254016	AR-142009AL	EFXE-142009AL	SB-355016	EFXE-355016SB
AR-256012P	EFE-256012	AQ-161609AL	EFXE-161609AL	SB-383816	EFXE-383816SB
AQ-414012P	EFE-414012	AR-162410AL	EFXE-162410AL	SB-384516	EFXE-384516SB
		AR-162609AL	EFXE-162609AL	SB-385716	EFXE-385716SB
		AQ-181810AL	EFXE-181810AL	SB-505016	EFXE-505016SB
		AR-182810AL	EFXE-182810AL	SB-383827	EFXE-383827SB
		AR-202311AL	EFXE-202311AL	SB-575716	EFXE-575716SB
		AR-202318AL	EFXE-202318AL	SB-577620	EFXE-577620SB
		AR-232811AL	EFXE-232811AL	SB-575730	EFXE-575730SB
		AR-233312AL	EFXE-233312AL	SB-769520	EFXE-769520SB
		AR-233318AL	EFXE-233318AL	SB-1258040	EFXE-1258040SB

Enclosure types (Stainless steel)	
ST-101210	EFXE-101210ST
ST-151510	EFXE-151510ST
ST-142013	EFXE-142013ST
ST-202010	EFXE-202010ST
ST-202016	EFXE-202016ST
ST-202713	EFXE-202713ST
ST-272713	EFXE-272713ST
ST-203016	EFXE-203016ST
ST-273513	EFXE-273513ST
ST-282816	EFXE-282816ST
ST-204016	EFXE-204016ST
ST-353516	EFXE-353516ST
ST-282827	EFXE-282827ST
ST-355016	EFXE-355016ST
ST-383816	EFXE-383816ST
ST-384516	EFXE-384516ST
ST-385716	EFXE-385716ST
ST-505016	EFXE-505016ST
ST-383827	EFXE-383827ST
ST-575716	EFXE-575716ST
ST-577620	EFXE-577620ST
ST-575730	EFXE-575730ST
ST-769520	EFXE-769520ST
ST-1258040	EFXE-1258040ST

Note 2 For stainless steel enclosures: dimensions (2) and (3) can be decreased or increased up to 20%, dimensions (4) can be increased up to 500 mm. Model name changes consequently.

Power dissipation – HT glass fiber reinforced polyester resin enclosures

Enclosure types (polyester)		Maximum power dissipation (W) – Tamb. up to **40**°C							
		INTERNAL TEMP.60°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)	INTERNAL TEMP.127°C (T4/T135°C)
AQ-080806P-HT	EFE-080806-HT	3,5	5,2	7,0	7,8	9,6	10,4	11,3	15,2
AQ-080808P-HT	EFE-080808-HT	4,6	6,8	9,1	10,2	12,5	13,7	14,8	19,8
AR-081106P-HT	EFE-081106-HT	4,3	6,4	8,5	9,6	11,8	12,8	13,9	18,6
AR-081108P-HT	EFE-081108-HT	5,6	8,4	11,2	12,6	15,3	16,7	18,1	24,2
AR-081606P-HT	EFE-081606-HT	5,8	8,7	11,6	13,0	15,9	17,4	18,8	25.2
AR-081608P-HT	EFE-081608-HT	6,8	10,2	13,7	15,4	18,8	20,5	22,2	29,7
AR-081906P-HT	EFE-081906-HT	6,4	9,6	12,8	14,4	17,6	19,2	20,8	27,8
AR-081908P-HT	EFE-081908-HT	7,5	11,3	15,1	17,0	20,7	22,6	24,5	32,7
AR-082306P-HT	EFE-082306-HT	7,2	10,8	14,4	16,2	19,8	21,6	23,4	31,3
AR-082308P-HT	EFE-082308-HT	8,5	12,7	16,9	19,0	23,3	25,4	27,5	36,7
AQ-121209P-HT	EFE-121209-HT	8,0	12,0	15,9	17,9	21,9	23,9	25,9	34,7
AR-122209P-HT	EFE-122209-HT	10,8	16,2	21,6	24,3	29,7	32,4	35,1	47,0
AQ-161609P-HT	EFE-161609-HT	10,4	15,6	20,8	23,4	28,6	31,2	33,8	45,2
AR-162609P-HT	EFE-162609-HT	13,4	20,1	26,8	30,2	36,9	40,2	43,6	58,3
AR-163609P-HT	EFE-163609-HT	16,2	24,3	32,4	36,5	44,6	48,6	52,7	70,5
AR-165609P-HT	EFE-165609-HT	21,4	32,0	42,7	48,1	58,7	64,1	69,4	92,9
AQ-202017P-HT	EFE-202017-HT	18,0	26,9	35,9	40,4	49,4	53,9	58,4	78,1
AR-203017P-HT	EFE-203017-HT	20,9	31,3	41,7	47,0	57,4	62,6	67,8	90,8
AQ-252612P-HT	EFE-252612-HT	18,8	28,2	37,6	42,4	51,8	56,5	61,2	81,9
AQ-252616P-HT	EFE-252616-HT	20,8	31,1	41,5	46,7	57,1	62,3	67,5	90,3
AR-254012P-HT	EFE-254012-HT	22,8	34,2	45,7	51,4	62,8	68,5	74,2	99,3
AR-254016P-HT	EFE-254016-HT	26,2	39,3	52,4	58,9	72,0	78,6	85,1	113,9
AR-256012P-HT	EFE-256012-HT	29,0	43,6	58,1	65,3	79,9	87,1	94,4	126,3
AR-304020P-HT	EFE-304020-HT	32,3	48,5	64,7	72,7	88,9	97,0	105,1	140,7
AQ-363609P-HT	EFE-363609-HT	23,0	34,6	46,1	51,8	63,4	69,1	74,9	100,2
AR-406025P-HT	EFE-406025-HT	50,3	75,5	100,7	113,3	138,4	151,0	163,6	218,9
AQ-414012P-HT	EFE-414012-HT	29,1	43,7	58,2	65,5	80,1	87,3	94,6	126,6
AQ-414020P-HT	EFE-414020-HT	36,6	55,0	73,3	82,4	100,8	109,9	119,1	159,4

Enclosure types (polyester)		Maximum power dissipation (W) – Tamb. up to **50**°C							
		INTERNAL TEMP.60°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)	INTERNAL TEMP.127°C (T4/T135°C)
AQ-080806P-HT	EFE-080806-HT	1,7	3,5	5,2	6,1	7,8	8,7	9,6	13,4
AQ-080808P-HT	EFE-080808-HT	2,3	4,6	6,8	8,0	10,2	11,4	12,5	17,5
AR-081106P-HT	EFE-081106-HT	2,1	4,3	6,4	7,5	9,6	10,7	11,8	16,5
AR-081108P-HT	EFE-081108-HT	2,8	5,6	8,4	9,8	12,6	13,9	15,3	21.5
AR-081606P-HT	EFE-081606-HT	2,9	5,8	8,7	10,1	13,0	14,5	15,9	22,3
AR-081608P-HT	EFE-081608-HT	3,4	6,8	10,2	11,9	15,4	17,1	18,8	26,3
AR-081906P-HT	EFE-081906-HT	3,2	6,4	9,6	11,2	14,4	16,0	17,6	24,6
AR-081908P-HT	EFE-081908-HT	3,8	7,5	11,3	13,2	17,0	18,8	20,7	29,0
AR-082306P-HT	EFE-082306-HT	3,6	7,2	10,8	12,6	16,2	18,0	19,8	27,7
AR-082308P-HT	EFE-082308-HT	4,2	8,5	12,7	14,8	19,0	21,1	23,3	32,5
AQ-121209P-HT	EFE-121209-HT	4,0	8,0	12,0	14,0	17,9	19,9	21,9	30,7
AR-122209P-HT	EFE-122209-HT	5,4	10,8	16,2	18,9	24,3	27,0	29,7	41,6
AQ-161609P-HT	EFE-161609-HT	5,2	10,4	15,6	18,2	23,4	26,0	28,6	40,0
AR-162609P-HT	EFE-162609-HT	6,7	13,4	20,1	23,5	30,2	33,5	36,9	51,6
AR-163609P-HT	EFE-163609-HT	8,1	16,2	24,3	28,4	36,5	40,5	44,6	62,3
AR-165609P-HT	EFE-165609-HT	10,7	21,4	32,0	37,4	48,1	53,4	58,7	82,2
AQ-202017P-HT	EFE-202017-HT	9,0	18,0	26,9	31,4	40,4	44,9	49,4	69,1
AR-203017P-HT	EFE-203017-HT	10,4	20,9	31,3	36,5	47,0	52,2	57,4	80,4
AQ-252612P-HT	EFE-252612-HT	9,4	18,8	28,2	32,9	42,4	47,1	51,8	72,5
AQ-252616P-HT	EFE-252616-HT	10,4	20,8	31,1	36,3	46,7	51,9	57,1	79,9
AR-254012P-HT	EFE-254012-HT	11,4	22,8	34,2	39,9	51,4	57,1	62,8	87,9
AR-254016P-HT	EFE-254016-HT	13,1	26,2	39,3	45,8	58,9	65,5	72,0	100,8
AR-256012P-HT	EFE-256012-HT	14,5	29,0	43,6	50,8	65,3	72,6	79,9	111,8
AR-304020P-HT	EFE-304020-HT	16,2	32,3	48,5	56,6	72,7	80,8	88,9	124,4
AQ-363609P-HT	EFE-363609-HT	11,5	23,0	34,6	40,3	51,8	57,6	63,4	88,7
AR-406025P-HT	EFE-406025-HT	25,2	50,3	75,5	88,1	113,3	125,8	138,4	193,8
AQ-414012P-HT	EFE-414012-HT	14,6	29,1	43,7	51,0	65,5	72,8	80,1	112,1
AQ-414020P-HT	EFE-414020-HT	18,3	36,6	55,0	64,1	82,4	91,6	100,8	141,1

Enclosure types (polyester)		Maximum power dissipation (W) – Tamb. up to **55**°C							
		INTERNAL TEMP.65°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)	INTERNAL TEMP.127°C (T4/T135°C)
AQ-080806P-HT	EFE-080806-HT	1,7	2,6	4,4	5,2	7,0	7,8	8,7	12,5
AQ-080808P-HT	EFE-080808-HT	2,3	3,4	5,7	6,8	9,1	10,2	11,4	16,2
AR-081106P-HT	EFE-081106-HT	2,1	3,2	5,3	6,4	8,5	9,6	10,7	15,2
AR-081108P-HT	EFE-081108-HT	2,8	4,2	7,0	8,4	11,2	12,6	13,9	19,8
AR-081606P-HT	EFE-081606-HT	2,9	4,3	7,2	8,7	11,6	13,0	14,5	20,6
AR-081608P-HT	EFE-081608-HT	3,4	5,1	8,5	10,2	13,7	15,4	17,1	24,3
AR-081906P-HT	EFE-081906-HT	3,2	4,8	8,0	9,6	12,8	14,4	16,0	22,8
AR-081908P-HT	EFE-081908-HT	3,8	5,7	9,4	11,3	15,1	17,0	18,8	26,8
AR-082306P-HT	EFE-082306-HT	3,6	5,4	9,0	10,8	14,4	16,2	18,0	25,6
AR-082308P-HT	EFE-082308-HT	4,2	6,3	10,6	12,7	16,9	19,0	21,1	30,0
AQ-121209P-HT	EFE-121209-HT	4,0	6,0	10,0	12,0	15,9	17,9	19,9	28,3
AR-122209P-HT	EFE-122209-HT	5,4	8,1	13,5	16,2	21,6	24,3	27,0	38,3
AQ-161609P-HT	EFE-161609-HT	5,2	7,8	13,0	15,6	20,8	23,4	26,0	36,9
AR-162609P-HT	EFE-162609-HT	6,7	10,1	16,8	20,1	26,8	30,2	33,5	47,6
AR-163609P-HT	EFE-163609-HT	8,1	12,2	20,3	24,3	32,4	36,5	40,5	57,5
AR-165609P-HT	EFE-165609-HT	10,7	16,0	26,7	32,0	42,7	48,1	53,4	75,8
AQ-202017P-HT	EFE-202017-HT	9,0	13,5	22,4	26,9	35,9	40,4	44,9	63,7
AR-203017P-HT	EFE-203017-HT	10,4	15,7	26,1	31,3	41,7	47,0	52,2	74,0
AQ-252612P-HT	EFE-252612-HT	9,4	14,1	23,5	28,2	37,6	42,4	47,1	66,8
AQ-252616P-HT	EFE-252616-HT	10,4	15,6	26,0	31,1	41,5	46,7	51,9	73,7
AR-254012P-HT	EFE-254012-HT	11,4	17,1	28,5	34,2	45,7	51,4	57,1	81,0
AR-254016P-HT	EFE-254016-HT	13,1	19,6	32,7	39,3	52,4	58,9	65,5	92,9
AR-256012P-HT	EFE-256012-HT	14,5	21,8	36,3	43,6	58,1	65,3	72,6	103,0
AR-304020P-HT	EFE-304020-HT	16,2	24,2	40,4	48,5	64,7	72,7	80,8	114,7
AQ-363609P-HT	EFE-363609-HT	11,5	17,3	28,8	34,6	46,1	51,8	57,6	81,8
AR-406025P-HT	EFE-406025-HT	25,2	37,8	62,9	75,5	100,7	113,3	125,8	178,6
AQ-414012P-HT	EFE-414012-HT	14,6	21,8	36,4	43,7	58,2	65,5	72,8	103,0
AQ-414020P-HT	EFE-414020-HT	18,3	27,5	45,8	55,0	73,3	82,4	91,6	130,0

Enclosure types (polyester)		Maximum power dissipation (W) – Tamb. up to **60**°C						
		INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)	INTERNAL TEMP.127°C (T4/T135°C)
AQ-080806P-HT	EFE-080806-HT	1,7	3,5	4,4	6,1	7,0	7,8	11,7
AQ-080808P-HT	EFE-080808-HT	2,3	4,6	5,7	8,0	9,1	10,2	15,2
AR-081106P-HT	EFE-081106-HT	2,1	4,3	5,3	7,5	8,5	9,6	14,3
AR-081108P-HT	EFE-081108-HT	2,8	5,6	7,0	9,8	11,2	12,6	18,7
AR-081606P-HT	EFE-081606-HT	2,9	5,8	7,2	10,1	11,6	13,0	19,4
AR-081608P-HT	EFE-081608-HT	3,4	6,8	8,5	11,9	13,7	15,4	22,9
AR-081906P-HT	EFE-081906-HT	3,2	6,4	8,0	11,2	12,8	14,4	21,4
AR-081908P-HT	EFE-081908-HT	3,8	7,5	9,4	13,2	15,1	17,0	25,3
AR-082306P-HT	EFE-082306-HT	3,6	7,2	9,0	12,6	14,4	16,2	24,1
AR-082308P-HT	EFE-082308-HT	4,2	8,5	10,6	14,8	16,9	19,0	28,3
AQ-121209P-HT	EFE-121209-HT	4,0	8,0	10,0	14,0	15,9	17,9	26,7
AR-122209P-HT	EFE-122209-HT	5,4	10,8	13,5	18,9	21,6	24,3	36,2
AQ-161609P-HT	EFE-161609-HT	5,2	10,4	13,0	18,2	20,8	23,4	34,8
AR-162609P-HT	EFE-162609-HT	6,7	13,4	16,8	23,5	26,8	30,2	44,9
AR-163609P-HT	EFE-163609-HT	8,1	16,2	20,3	28,4	32,4	36,5	54,2
AR-165609P-HT	EFE-165609-HT	10,7	21,4	26,7	37,4	42,7	48,1	71,5
AQ-202017P-HT	EFE-202017-HT	9,0	18,0	22,4	31,4	35,9	40,4	60,1
AR-203017P-HT	EFE-203017-HT	10,4	20,9	26,1	36,5	41,7	47,0	69,9
AQ-252612P-HT	EFE-252612-HT	9,4	18,8	23,5	32,9	37,6	42,4	63,0
AQ-252616P-HT	EFE-252616-HT	10,4	20,8	26,0	36,3	41,5	46,7	69,5
AR-254012P-HT	EFE-254012-HT	11,4	22,8	28,5	39,9	45,7	51,4	76,5
AR-254016P-HT	EFE-254016-HT	13,1	26,2	32,7	45,8	52,4	58,9	87,7
AR-256012P-HT	EFE-256012-HT	14,5	29,0	36,3	50,8	58,1	65,3	97,2
AR-304020P-HT	EFE-304020-HT	16,2	32,3	40,4	56,6	64,7	72,7	108,3
AQ-363609P-HT	EFE-363609-HT	11,5	23,0	28,8	40,3	46,1	51,8	77,1
AR-406025P-HT	EFE-406025-HT	25,2	50,3	62,9	88,1	100,7	113,3	168,7
AQ-414012P-HT	EFE-414012-HT	14,6	29,1	36,4	51,0	58,2	65,5	97,5
AQ-414020P-HT	EFE-414020-HT	18,3	36,6	45,8	64,1	73,3	82,4	122,7

Enclosure types (polyester)		Maximum power dissipation (W) Tamb. up to **95**°C		
		INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)	INTERNAL TEMP.127°C (T4/T135°C)
AQ-080806P-HT	EFE-080806-HT	0,9	1,7	5,6
AQ-080808P-HT	EFE-080808-HT	1,1	2,3	7,3
AR-081106P-HT	EFE-081106-HT	1,1	2,1	6,5
AR-081108P-HT	EFE-081108-HT	1,4	2,8	9,0
AR-081606P-HT	EFE-081606-HT	1,4	2,9	9,2
AR-081608P-HT	EFE-081608-HT	1,7	3,4	10,9
AR-081906P-HT	EFE-081906-HT	1,6	3,2	10,2
AR-081908P-HT	EFE-081908-HT	1,9	3,8	12,1
AR-082306P-HT	EFE-082306-HT	1,8	3,6	11,5
AR-082308P-HT	EFE-082308-HT	2,1	4,2	13,5
AQ-121209P-HT	EFE-121209-HT	2,0	4,0	12,8
AR-122209P-HT	EFE-122209-HT	2,7	5,4	17,3
AQ-161609P-HT	EFE-161609-HT	2,6	5,2	16,6
AR-162609P-HT	EFE-162609-HT	3,4	6,7	21,5
AR-163609P-HT	EFE-163609-HT	4,1	8,1	26,0
AR-165609P-HT	EFE-165609-HT	5,3	10,7	34,2
AQ-202017P-HT	EFE-202017-HT	4,5	9,0	28,7
AR-203017P-HT	EFE-203017-HT	5,2	10,4	33,4
AQ-252612P-HT	EFE-252612-HT	4,7	9,4	30,1
AQ-252616P-HT	EFE-252616-HT	5,2	10,4	33,2
AR-254012P-HT	EFE-254012-HT	5,7	11,4	36,5
AR-254016P-HT	EFE-254016-HT	6,5	13,1	41,9
AR-256012P-HT	EFE-256012-HT	7,3	14,5	46,4
AR-304020P-HT	EFE-304020-HT	8,1	16,2	51,8
AQ-363609P-HT	EFE-363609-HT	5,8	11,5	36,8
AR-406025P-HT	EFE-406025-HT	12,6	25,2	80,6
AQ-414012P-HT	EFE-414012-HT	7,3	14,6	46,6
AQ-414020P-HT	EFE-414020-HT	9,2	18,3	58,6

Power dissipation – HT aluminium alloy enclosures

Enclosure types (aluminium)		Maximum power dissipation (W) – Tamb. up to **40**°C							
		INTERNAL TEMP.60°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)	INTERNAL TEMP.130°C (T4/T135°C)
AQ-080806AL-HT	EFXE-080806AL-HT	5,2	7,8	10,4	11,7	14,3	15,6	16,9	23,4
AR-081306AL-HT	EFXE-081306AL-HT	7,0	10,6	14,1	15,9	19,4	21,2	23,0	31,8
AR-081806AL-HT	EFXE-081806AL-HT	8,9	13,3	17,8	20,0	24,5	26,7	28,9	40,0
AR-082505AL-HT	EFXE-082505AL-HT	10,9	16,4	21,9	24,7	30,1	32,9	35,6	49,4
AQ-101008AL-HT	EFXE-101008AL-HT	8,7	13,0	17,4	19,6	23,9	26,1	28,3	39,2
AR-101608AL-HT	EFXE-101608AL-HT	11,5	17,3	23,1	26,0	31,8	34,7	37,6	52,0
AR-102008AL-HT	EFXE-102008AL-HT	13,4	20,1	26,8	30,2	36,9	40,3	43,6	60,4
AQ-121208AL-HT	EFXE-121208AL-HT	10,8	16,2	21,6	24,3	29,7	32,4	35,1	48,6
AQ-121209AL-HT	EFXE-121209AL-HT	11,6	17,5	23,3	26,2	32,1	35,0	37,9	52,5
AR-122208AL-HT	EFXE-122208AL-HT	15,6	23,5	31,3	35,3	43,1	47,0	50,9	70,6
AR-122209AL-HT	EFXE-122209AL-HT	16,8	25,3	33,7	37,9	46,3	50,6	54,8	75,9
AR-123608AL-HT	EFXE-123608AL-HT	22,3	33,5	44,7	50,3	61,5	67,1	72,7	100,7
AQ-141409AL-HT	EFXE-141409AL-HT	13,7	20,6	27,5	31,0	37,9	41,3	44,8	62,0
AR-142009AL-HT	EFXE-142009AL-HT	17,1	25,7	34,2	38,5	47,1	51,4	55,7	77,1
AQ-161609AL-HT	EFXE-161609AL-HT	16,1	24,1	32,2	36,2	44,2	48,3	52,3	72,4
AR-162609AL-HT	EFXE-162609AL-HT	21,9	32,8	43,8	49,3	60,2	65,7	71,2	98,6
AR-163609AL-HT	EFXE-163609AL-HT	27,5	41,3	55,1	62,0	75,7	82,6	89,5	124,0
AR-165609AL-HT	EFXE-165609AL-HT	38,4	57,7	76,9	86,6	105,8	115,4	125,0	173,2
AQ-181810AL-HT	EFXE-181810AL-HT	19,7	29,6	39,5	44,4	54,3	59,2	64,2	88,8
AR-182810AL-HT	EFXE-182810AL-HT	26,1	39,1	52,2	58,7	71,8	78,3	84,8	117,5
AR-102311AL-HT	EFXE-102311AL-HT	18,2	27,3	36,5	41,0	50,1	54,7	59,3	82,1
AR-202311AL-HT	EFXE-202311AL-HT	26,1	39,1	52,2	58,7	71,7	78,3	84,8	117,4
AR-202318AL-HT	EFXE-202318AL-HT	35,9	53,9	71,8	80,8	98,8	107,8	116,8	161,7
AR-232811AL-HT	EFXE-232811AL-HT	31,6	47,5	63,3	71,3	87,1	95,0	103,0	142,6
AR-233311AL-HT	EFXE-233311AL-HT	35,3	52,9	70,6	79,4	97,0	105,9	114,7	158,8
AR-233318AL-HT	EFXE-233318AL-HT	47,5	71,3	95,1	107,0	130,8	142,7	154,6	214,1
AR-234011AL-HT	EFXE-234011AL-HT	40,2	60,4	80,5	90,6	110,7	120,8	130,9	181,2
AR-234023AL-HT	EFXE-234023AL-HT	62,2	93,3	124,5	140,0	171,2	186,7	202,3	280,1
AR-236011AL-HT	EFXE-236011AL-HT	54,1	81,2	108,3	121,9	148,9	162,5	176,0	243,8
AR-314011AL-HT	EFXE-314011AL-HT	48,6	72,9	97,2	109,3	133,6	145,8	157,9	218,7
AR-314014AL-HT	EFXE-314014AL-HT	54,9	82,4	109,9	123,7	151,2	164,9	178,7	247,4
AR-314018AL-HT	EFXE-314018AL-HT	63,8	95,7	127,6	143,5	175,4	191,4	207,3	287,1
AR-314023AL-HT	EFXE-314023AL-HT	73,5	110,3	147,1	165,5	202,3	220,7	239,1	331,0
AR-316011AL-HT	EFXE-316011AL-HT	64,0	96,0	128,1	144,1	176,1	192,1	208,1	288,2
AR-316018AL-HT	EFXE-316018AL-HT	82,7	124,1	165,5	186,2	227,6	248,3	268,9	372,4
AQ-606020AL-HT	EFXE-606020AL-HT	129,1	193,7	258,3	290,5	355,1	387,4	419,7	581,1

Enclosure types (aluminium)		Maximum power dissipation (W) – Tamb. up to **50**°C							
		INTERNAL TEMP.60°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)	INTERNAL TEMP.130°C (T4/T135°C)
AQ-080806AL-HT	EFXE-080806AL-HT	2,6	5,2	7,8	9,1	11,7	13,0	14,3	20,8
AR-081306AL-HT	EFXE-081306AL-HT	3,5	7,0	10,6	12,3	15,9	17,7	19,4	28,3
AR-081806AL-HT	EFXE-081806AL-HT	4,4	8,9	13,3	15,5	20,0	22,2	24,5	35,6
AR-082505AL-HT	EFXE-082505AL-HT	5,4	10,9	16,4	19,2	24,7	27,4	30,1	43,9
AQ-101008AL-HT	EFXE-101008AL-HT	4,3	8,7	13,0	15,2	19,6	21,7	23,9	34,8
AR-101608AL-HT	EFXE-101608AL-HT	5,7	11,5	17,3	20,2	26,0	28,9	31,8	46,2
AR-102008AL-HT	EFXE-102008AL-HT	6,7	13,4	20,1	23,5	30,2	33,5	36,9	53,7
AQ-121208AL-HT	EFXE-121208AL-HT	5,4	10,8	16,2	18,9	24,3	27,0	29,7	43,2
AQ-121209AL-HT	EFXE-121209AL-HT	5,8	11,6	17,5	20,4	26,2	29,2	32,1	46,7
AR-122208AL-HT	EFXE-122208AL-HT	7,8	15,6	23,5	27,4	35,3	39,2	43,1	62,7
AR-122209AL-HT	EFXE-122209AL-HT	8,4	16,8	25,3	29,5	37,9	42,1	46,3	67,4
AR-123608AL-HT	EFXE-123608AL-HT	11,1	22,3	33,5	39,1	50,3	55,9	61,5	89,5
AQ-141409AL-HT	EFXE-141409AL-HT	6,8	13,7	20,6	24,1	31,0	34,4	37,9	55,1
AR-142009AL-HT	EFXE-142009AL-HT	8,5	17,1	25,7	30,0	38,5	42,8	47,1	68,5
AQ-161609AL-HT	EFXE-161609AL-HT	8,0	16,1	24,1	28,1	36,2	40,2	44,2	64,4
AR-162609AL-HT	EFXE-162609AL-HT	10,9	21,9	32,8	38,3	49,3	54,8	60,2	87,6
AR-163609AL-HT	EFXE-163609AL-HT	13,7	27,5	41,3	48,2	62,0	68,9	75,7	110,2
AR-165609AL-HT	EFXE-165609AL-HT	19,2	38,4	57,7	67,3	86,6	96,2	105,8	153,9
AQ-181810AL-HT	EFXE-181810AL-HT	9,8	19,7	29,6	34,5	44,4	49,3	54,3	79,0
AR-182810AL-HT	EFXE-182810AL-HT	13,0	26,1	39,1	45,7	58,7	65,2	71,8	104,4
AR-102311AL-HT	EFXE-102311AL-HT	9,1	18,2	27,3	31,9	41,0	45,6	50,1	73,0
AR-202311AL-HT	EFXE-202311AL-HT	13,0	26,1	39,1	45,6	58,7	65,2	71,7	104,4
AR-202318AL-HT	EFXE-202318AL-HT	17,9	35,9	53,9	62,8	80,8	89,8	98,8	143,7
AR-232811AL-HT	EFXE-232811AL-HT	15,8	31,6	47,5	55,4	71,3	79,2	87,1	126,7
AR-233311AL-HT	EFXE-233311AL-HT	17,6	35,3	52,9	61,7	79,4	88,2	97,0	141,2
AR-233318AL-HT	EFXE-233318AL-HT	23,7	47,5	71,3	83,2	107,0	118,9	130,8	190,3
AR-234011AL-HT	EFXE-234011AL-HT	20,1	40,2	60,4	70,5	90,6	100,7	110,7	161,1
AR-234023AL-HT	EFXE-234023AL-HT	31,1	62,2	93,3	108,9	140,0	155,6	171,2	249,0
AR-236011AL-HT	EFXE-236011AL-HT	27,0	54,1	81,2	94,8	121,9	135,4	148,9	216,7
AR-314011AL-HT	EFXE-314011AL-HT	24,3	48,6	72,9	85,0	109,3	121,5	133,6	194,4
AR-314014AL-HT	EFXE-314014AL-HT	27,4	54,9	82,4	96,2	123,7	137,4	151,2	219,9
AR-314018AL-HT	EFXE-314018AL-HT	31,9	63,8	95,7	111,6	143,5	159,5	175,4	255,2
AR-314023AL-HT	EFXE-314023AL-HT	36,7	73,5	110,3	128,7	165,5	183,9	202,3	294,2
AR-316011AL-HT	EFXE-316011AL-HT	32,0	64,0	96,0	112,0	144,1	160,1	176,1	256,2
AR-316018AL-HT	EFXE-316018AL-HT	41,3	82,7	124,1	144,8	186,2	206,9	227,6	331,0
AQ-606020AL-HT	EFXE-606020AL-HT	64,5	129,1	193,7	226,0	290,5	322,8	355,1	516,6

Enclosure types (aluminium)		Maximum power dissipation (W) – Tamb. up to **55**°C							
		INTERNAL TEMP.65°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)	INTERNAL TEMP.130°C (T4/T135°C)
AQ-080806AL-HT	EFXE-080806AL-HT	2,6	3,9	6,5	7,8	10,4	11,7	13,0	19,5
AR-081306AL-HT	EFXE-081306AL-HT	3,5	5,3	8,8	10,6	14,1	15,9	17,7	26,5
AR-081806AL-HT	EFXE-081806AL-HT	4,4	6,6	11,1	13,3	17,8	20,0	22,2	33,4
AR-082505AL-HT	EFXE-082505AL-HT	5,4	8,2	13,7	16,4	21,9	24,7	27,4	41,1
AQ-101008AL-HT	EFXE-101008AL-HT	4,3	6,5	10,8	13,0	17,4	19,6	21,7	32,6
AR-101608AL-HT	EFXE-101608AL-HT	5,7	8,6	14,4	17,3	23,1	26,0	28,9	43,3
AR-102008AL-HT	EFXE-102008AL-HT	6,7	10,0	16,7	20,1	26,8	30,2	33,5	50,3
AQ-121208AL-HT	EFXE-121208AL-HT	5,4	8,1	13,5	16,2	21,6	24,3	27,0	40,5
AQ-121209AL-HT	EFXE-121209AL-HT	5,8	8,7	14,6	17,5	23,3	26,2	29,2	43,8
AR-122208AL-HT	EFXE-122208AL-HT	7,8	11,7	19,6	23,5	31,3	35,3	39,2	58,8
AR-122209AL-HT	EFXE-122209AL-HT	8,4	12,6	21,0	25,3	33,7	37,9	42,1	63,2
AR-123608AL-HT	EFXE-123608AL-HT	11,1	16,7	27,9	33,5	44,7	50,3	55,9	83,9
AQ-141409AL-HT	EFXE-141409AL-HT	6,8	10,3	17,2	20,6	27,5	31,0	34,4	51,7
AR-142009AL-HT	EFXE-142009AL-HT	8,5	12,8	21,4	25,7	34,2	38,5	42,8	64,3
AQ-161609AL-HT	EFXE-161609AL-HT	8,0	12,0	20,1	24,1	32,2	36,2	40,2	60,4
AR-162609AL-HT	EFXE-162609AL-HT	10,9	16,4	27,4	32,8	43,8	49,3	54,8	82,2
AR-163609AL-HT	EFXE-163609AL-HT	13,7	20,6	34,4	41,3	55,1	62,0	68,9	103,3
AR-165609AL-HT	EFXE-165609AL-HT	19,2	28,8	48,1	57,7	76,9	86,6	96,2	144,3
AQ-181810AL-HT	EFXE-181810AL-HT	9,8	14,8	24,6	29,6	39,5	44,4	49,3	74,0
AR-182810AL-HT	EFXE-182810AL-HT	13,0	19,5	32,6	39,1	52,2	58,7	65,2	97,9
AR-102311AL-HT	EFXE-102311AL-HT	9,1	13,6	22,8	27,3	36,5	41,0	45,6	68,4
AR-202311AL-HT	EFXE-202311AL-HT	13,0	19,5	32,6	39,1	52,2	58,7	65,2	97,9
AR-202318AL-HT	EFXE-202318AL-HT	17,9	26,9	44,9	53,9	71,8	80,8	89,8	134,7
AR-232811AL-HT	EFXE-232811AL-HT	15,8	23,7	39,6	47,5	63,3	71,3	79,2	118,8
AR-233311AL-HT	EFXE-233311AL-HT	17,6	26,4	44,1	52,9	70,6	79,4	88,2	132,3
AR-233318AL-HT	EFXE-233318AL-HT	23,7	35,6	59,4	71,3	95,1	107,0	118,9	178,4
AR-234011AL-HT	EFXE-234011AL-HT	20,1	30,2	50,3	60,4	80,5	90,6	100,7	151,0
AR-234023AL-HT	EFXE-234023AL-HT	31,1	46,6	77,8	93,3	124,5	140,0	155,6	233,4
AR-236011AL-HT	EFXE-236011AL-HT	27,0	40,6	67,7	81,2	108,3	121,9	135,4	203,1
AR-314011AL-HT	EFXE-314011AL-HT	24,3	36,4	60,7	72,9	97,2	109,3	121,5	182,3
AR-314014AL-HT	EFXE-314014AL-HT	27,4	41,2	68,7	82,4	109,9	123,7	137,4	206,2
AR-314018AL-HT	EFXE-314018AL-HT	31,9	47,8	79,7	95,7	127,6	143,5	159,5	239,2
AR-314023AL-HT	EFXE-314023AL-HT	36,7	55,1	91,9	110,3	147,1	165,5	183,9	275,8
AR-316011AL-HT	EFXE-316011AL-HT	32,0	48,0	80,0	96,0	128,1	144,1	160,1	240,1
AR-316018AL-HT	EFXE-316018AL-HT	41,3	62,0	103,4	124,1	165,5	186,2	206,9	310,3
AQ-606020AL-HT	EFXE-606020AL-HT	64,5	96,8	161,4	193,7	258,3	290,5	322,8	484,3

Enclosure types (aluminium)		Maximum power dissipation (W) – Tamb. up to **60**°C						
		INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)	INTERNAL TEMP.130°C (T4/T135°C)
AQ-080806AL-HT	EFXE-080806AL-HT	2,6	5,2	6,5	9,1	10,4	11,7	18,2
AR-081306AL-HT	EFXE-081306AL-HT	3,5	7,0	8,8	12,3	14,1	15,9	24,7
AR-081806AL-HT	EFXE-081806AL-HT	4,4	8,9	11,1	15,5	17,8	20,0	31,1
AR-082505AL-HT	EFXE-082505AL-HT	5,4	10,9	13,7	19,2	21,9	24,7	38,4
AQ-101008AL-HT	EFXE-101008AL-HT	4,3	8,7	10,8	15,2	17,4	19,6	30,4
AR-101608AL-HT	EFXE-101608AL-HT	5,7	11,5	14,4	20,2	23,1	26,0	40,5
AR-102008AL-HT	EFXE-102008AL-HT	6,7	13,4	16,7	23,5	26,8	30,2	47,0
AQ-121208AL-HT	EFXE-121208AL-HT	5,4	10,8	13,5	18,9	21,6	24,3	37,8
AQ-121209AL-HT	EFXE-121209AL-HT	5,8	11,6	14,6	20,4	23,3	26,2	40,8
AR-122208AL-HT	EFXE-122208AL-HT	7,8	15,6	19,6	27,4	31,3	35,3	54,9
AR-122209AL-HT	EFXE-122209AL-HT	8,4	16,8	21,0	29,5	33,7	37,9	59,0
AR-123608AL-HT	EFXE-123608AL-HT	11,1	22,3	27,9	39,1	44,7	50,3	78,3
AQ-141409AL-HT	EFXE-141409AL-HT	6,8	13,7	17,2	24,1	27,5	31,0	48,2
AR-142009AL-HT	EFXE-142009AL-HT	8,5	17,1	21,4	30,0	34,2	38,5	60,0
AQ-161609AL-HT	EFXE-161609AL-HT	8,0	16,1	20,1	28,1	32,2	36,2	56,3
AR-162609AL-HT	EFXE-162609AL-HT	10,9	21,9	27,4	38,3	43,8	49,3	76,7
AR-163609AL-HT	EFXE-163609AL-HT	13,7	27,5	34,4	48,2	55,1	62,0	96,4
AR-165609AL-HT	EFXE-165609AL-HT	19,2	38,4	48,1	67,3	76,9	86,6	134,7
AQ-181810AL-HT	EFXE-181810AL-HT	9,8	19,7	24,6	34,5	39,5	44,4	69,1
AR-182810AL-HT	EFXE-182810AL-HT	13,0	26,1	32,6	45,7	52,2	58,7	91,4
AR-102311AL-HT	EFXE-102311AL-HT	9,1	18,2	22,8	31,9	36,5	41,0	63,8
AR-202311AL-HT	EFXE-202311AL-HT	13,0	26,1	32,6	45,6	52,2	58,7	91,3
AR-202318AL-HT	EFXE-202318AL-HT	17,9	35,9	44,9	62,8	71,8	80,8	125,7
AR-232811AL-HT	EFXE-232811AL-HT	15,8	31,6	39,6	55,4	63,3	71,3	110,9
AR-233311AL-HT	EFXE-233311AL-HT	17,6	35,3	44,1	61,7	70,6	79,4	123,5
AR-233318AL-HT	EFXE-233318AL-HT	23,7	47,5	59,4	83,2	95,1	107,0	166,5
AR-234011AL-HT	EFXE-234011AL-HT	20,1	40,2	50,3	70,5	80,5	90,6	141,0
AR-234023AL-HT	EFXE-234023AL-HT	31,1	62,2	77,8	108,9	124,5	140,0	217,9
AR-236011AL-HT	EFXE-236011AL-HT	27,0	54,1	67,7	94,8	108,3	121,9	189,6
AR-314011AL-HT	EFXE-314011AL-HT	24,3	48,6	60,7	85,0	97,2	109,3	170,1
AR-314014AL-HT	EFXE-314014AL-HT	27,4	54,9	68,7	96,2	109,9	123,7	192,4
AR-314018AL-HT	EFXE-314018AL-HT	31,9	63,8	79,7	111,6	127,6	143,5	223,3
AR-314023AL-HT	EFXE-314023AL-HT	36,7	73,5	91,9	128,7	147,1	165,5	257,4
AR-316011AL-HT	EFXE-316011AL-HT	32,0	64,0	80,0	112,0	128,1	144,1	224,1
AR-316018AL-HT	EFXE-316018AL-HT	41,3	82,7	103,4	144,8	165,5	186,2	289,6
AQ-606020AL-HT	EFXE-606020AL-HT	64,5	129,1	161,4	226,0	258,3	290,5	452,0

Enclosure types (aluminium)		Maximum power dissipation (W) Tamb. up to **95**°C		
		INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)	INTERNAL TEMP.130°C (T4/T135°C)
AQ-080806AL-HT	EFXE-080806AL-HT	1,3	2,6	9,1
AR-081306AL-HT	EFXE-081306AL-HT	1,7	3,5	12,3
AR-081806AL-HT	EFXE-081806AL-HT	2,2	4,4	15,5
AR-082505AL-HT	EFXE-082505AL-HT	2,7	5,4	19,2
AQ-101008AL-HT	EFXE-101008AL-HT	2,1	4,3	15,2
AR-101608AL-HT	EFXE-101608AL-HT	2,8	5,7	20,2
AR-102008AL-HT	EFXE-102008AL-HT	3,3	6,7	23,5
AQ-121208AL-HT	EFXE-121208AL-HT	2,7	5,4	18,9
AQ-121209AL-HT	EFXE-121209AL-HT	2,9	5,8	20,4
AR-122208AL-HT	EFXE-122208AL-HT	3,9	7,8	27,4
AR-122209AL-HT	EFXE-122209AL-HT	4,2	8,4	29,5
AR-123608AL-HT	EFXE-123608AL-HT	5,5	11,1	39,1
AQ-141409AL-HT	EFXE-141409AL-HT	3,4	6,8	24,1
AR-142009AL-HT	EFXE-142009AL-HT	4,2	8,5	30,0
AQ-161609AL-HT	EFXE-161609AL-HT	4,0	8,0	28,1
AR-162609AL-HT	EFXE-162609AL-HT	5,4	10,9	38,3
AR-163609AL-HT	EFXE-163609AL-HT	6,8	13,7	48,2
AR-165609AL-HT	EFXE-165609AL-HT	9,6	19,2	67,3
AQ-181810AL-HT	EFXE-181810AL-HT	4,9	9,8	34,5
AR-182810AL-HT	EFXE-182810AL-HT	6,5	13,0	45,7
AR-102311AL-HT	EFXE-102311AL-HT	4,5	9,1	31,9
AR-202311AL-HT	EFXE-202311AL-HT	6,5	13,0	45,6
AR-202318AL-HT	EFXE-202318AL-HT	8,9	17,9	62,8
AR-232811AL-HT	EFXE-232811AL-HT	7,9	15,8	55,4
AR-233311AL-HT	EFXE-233311AL-HT	8,8	17,6	61,7
AR-233318AL-HT	EFXE-233318AL-HT	11,8	23,7	83,2
AR-234011AL-HT	EFXE-234011AL-HT	10,0	20,1	70,5
AR-234023AL-HT	EFXE-234023AL-HT	15,5	31,1	108,9
AR-236011AL-HT	EFXE-236011AL-HT	13,5	27,0	94,8
AR-314011AL-HT	EFXE-314011AL-HT	12,1	24,3	85,0
AR-314014AL-HT	EFXE-314014AL-HT	13,7	27,4	96,2
AR-314018AL-HT	EFXE-314018AL-HT	15,9	31,9	111,6
AR-314023AL-HT	EFXE-314023AL-HT	18,3	36,7	128,7
AR-316011AL-HT	EFXE-316011AL-HT	16,0	32,0	112,0
AR-316018AL-HT	EFXE-316018AL-HT	20,6	41,3	144,8
AQ-606020AL-HT	EFXE-606020AL-HT	32,2	64,5	226,0

Power dissipation – Glass fiber reinforced polyester resin enclosures

Enclosure types (polyester)		Maximum power dissipation (W) – Tamb. up to **40**°C						
		INTERNAL TEMP.60°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
AQ-080806P	EFE-080806	3,4	5,2	6,9	7,8	9,5	10,4	11,3
AQ-080808P	EFE-080808	4,5	6,8	9,1	10,2	12,5	13,6	14,7
AR-081106P	EFE-081106	4,2	6,4	8,5	9,6	11,7	12,8	13,8
AR-081606P	EFE-081606	5,7	8,6	11,5	13,0	15,9	17,3	18,8
AR-081906P	EFE-081906	6,4	9,6	12,8	14,4	17,6	19,2	20,8
AQ-121209P	EFE-121209	7,9	11,9	15,9	17,9	21,9	23,9	25,9
AR-122209P	EFE-122209	10,8	16,2	21,6	24,3	29,7	32,4	35,1
AQ-161609P	EFE-161609	10,3	15,5	20,7	23,3	28,5	31,1	33,7
AR-162609P	EFE-162609	13,4	20,1	26,8	30,1	36,8	40,2	43,5
AR-163609P	EFE-163609	16,2	24,3	32,4	36,4	44,5	48,6	52,6
AQ-252612P	EFE-252612	18,8	28,2	37,6	42,3	51,7	56,4	61,1
AQ-252616P	EFE-252616	21,7	32,6	43,5	49,0	59,9	65,3	70,8
AR-254012P	EFE-254012	23,9	35,9	47,9	53,9	65,9	71,8	77,8
AR-254016P	EFE-254016	27,4	41,2	54,9	61,8	75,6	82,4	89,3
AR-256012P	EFE-256012	29,0	43,5	58,0	65,3	79,8	87,1	94,3
AQ-414012P	EFE-414012	29,1	43,6	58,2	65,5	80,0	87,3	94,6
AQ-414016P	EFE-414016	32,9	49,4	65,9	74,1	90,6	98,8	107,0

Enclosure types (polyester)		Maximum power dissipation (W) – Tamb. up to **50**°C						
		INTERNAL TEMP.60°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
AQ-080806P	EFE-080806	1,7	3,4	5,2	6,0	7,8	8,7	9,5
AQ-080808P	EFE-080808	2,2	4,5	6,8	7,9	10,2	11,3	12,5
AR-081106P	EFE-081106	2,1	4,2	6,4	7,4	9,6	10,6	11,7
AR-081606P	EFE-081606	2,8	5,7	8,6	10,1	13,0	14,4	15,9
AR-081906P	EFE-081906	3,2	6,4	9,6	11,2	14,4	16,0	17,6
AQ-121209P	EFE-121209	3,9	7,9	11,9	13,9	17,9	19,9	21,9
AR-122209P	EFE-122209	5,4	10,8	16,2	18,9	24,3	27,0	29,7
AQ-161609P	EFE-161609	5,1	10,3	15,5	18,1	23,3	25,9	28,5
AR-162609P	EFE-162609	6,7	13,4	20,1	23,4	30,1	33,5	36,8
AR-163609P	EFE-163609	8,1	16,2	24,3	28,3	36,4	40,5	44,5
AQ-252612P	EFE-252612	9,4	18,8	28,2	32,9	42,3	47,0	51,7
AQ-252616P	EFE-252616	10,8	21,7	32,6	38,1	49,0	54,4	59,9
AR-254012P	EFE-254012	11,9	23,9	35,9	41,9	53,9	59,9	65,9
AR-254016P	EFE-254016	13,7	27,4	41,2	48,1	61,8	68,7	75,6
AR-256012P	EFE-256012	14,5	29,0	43,5	50,8	65,3	72,6	79,8
AQ-414012P	EFE-414012	14,5	29,1	43,6	50,9	65,5	72,7	80,0
AQ-414016P	EFE-414016	16,4	32,9	49,4	57,6	74,1	82,3	90,6

Enclosure types (polyester)		Maximum power dissipation (W) – Tamb. up to **55**°C						
		INTERNAL TEMP.65°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
AQ-080806P	EFE-080806	1,7	2,6	4,3	5,2	6,9	7,8	8,7
AQ-080808P	EFE-080808	2,2	3,4	5,6	6,8	9,1	10,2	11,3
AR-081106P	EFE-081106	2,1	3,2	5,3	6,4	8,5	9,6	10,6
AR-081606P	EFE-081606	2,8	4,3	7,2	8,6	11,5	13,0	14,4
AR-081906P	EFE-081906	3,2	4,8	8,0	9,6	12,8	14,4	16,0
AQ-121209P	EFE-121209	3,9	5,9	9,9	11,9	15,9	17,9	19,9
AR-122209P	EFE-122209	5,4	8,1	13,5	16,2	21,6	24,3	27,0
AQ-161609P	EFE-161609	5,1	7,7	12,9	15,5	20,7	23,3	25,9
AR-162609P	EFE-162609	6,7	10,0	16,7	20,1	26,8	30,1	33,5
AR-163609P	EFE-163609	8,1	12,1	20,2	24,3	32,4	36,4	40,5
AQ-252612P	EFE-252612	9,4	14,1	23,5	28,2	37,6	42,3	47,0
AQ-252616P	EFE-252616	10,8	16,3	27,2	32,6	43,5	49,0	54,4
AR-254012P	EFE-254012	11,9	17,9	29,9	35,9	47,9	53,9	59,9
AR-254016P	EFE-254016	13,7	20,6	34,3	41,2	54,9	61,8	68,7
AR-256012P	EFE-256012	14,5	21,7	36,3	43,5	58,0	65,3	72,6
AQ-414012P	EFE-414012	14,5	21,8	36,3	43,6	58,2	65,5	72,7
AQ-414016P	EFE-414016	16,4	24,7	41,1	49,4	65,9	74,1	82,3

Enclosure types (polyester)		Maximum power dissipation (W) – Tamb. up to **60**°C					
		INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
AQ-080806P	EFE-080806	1,7	3,4	4,3	6,0	6,9	7,8
AQ-080808P	EFE-080808	2,2	4,5	5,6	7,9	9,1	10,2
AR-081106P	EFE-081106	2,1	4,2	5,3	7,4	8,5	9,6
AR-081606P	EFE-081606	2,8	5,7	7,2	10,1	11,5	13,0
AR-081906P	EFE-081906	3,2	6,4	8,0	11,2	12,8	14,4
AQ-121209P	EFE-121209	3,9	7,9	9,9	13,9	15,9	17,9
AR-122209P	EFE-122209	5,4	10,8	13,5	18,9	21,6	24,3
AQ-161609P	EFE-161609	5,1	10,3	12,9	18,1	20,7	23,3
AR-162609P	EFE-162609	6,7	13,4	16,7	23,4	26,8	30,1
AR-163609P	EFE-163609	8,1	16,2	20,2	28,3	32,4	36,4
AQ-252612P	EFE-252612	9,4	18,8	23,5	32,9	37,6	42,3
AQ-252616P	EFE-252616	10,8	21,7	27,2	38,1	43,5	49,0
AR-254012P	EFE-254012	11,9	23,9	29,9	41,9	47,9	53,9
AR-254016P	EFE-254016	13,7	27,4	34,3	48,1	54,9	61,8
AR-256012P	EFE-256012	14,5	29,0	36,3	50,8	58,0	65,3
AQ-414012P	EFE-414012	14,5	29,1	36,3	50,9	58,2	65,5
AQ-414016P	EFE-414016	16,4	32,9	41,1	57,6	65,9	74,1

Enclosure types (polyester)		Maximum power dissipation (W) – Tamb. up to **95**°C	
		INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
AQ-080806P	EFE-080806	0,8	1,7
AQ-080808P	EFE-080808	1,1	2,2
AR-081106P	EFE-081106	1,0	2,1
AR-081606P	EFE-081606	1,4	2,8
AR-081906P	EFE-081906	1,6	3,2
AQ-121209P	EFE-121209	1,9	3,9
AR-122209P	EFE-122209	2,7	5,4
AQ-161609P	EFE-161609	2,5	5,1
AR-162609P	EFE-162609	3,3	6,7
AR-163609P	EFE-163609	4,0	8,1
AQ-252612P	EFE-252612	4,7	9,4
AQ-252616P	EFE-252616	5,4	10,8
AR-254012P	EFE-254012	5,9	11,9
AR-254016P	EFE-254016	6,8	13,7
AR-256012P	EFE-256012	7,2	14,5
AQ-414012P	EFE-414012	7,2	14,5
AQ-414016P	EFE-414016	8,2	16,4

Power dissipation – Aluminium alloy enclosures

Enclosure types (aluminium)		Maximum power dissipation (W) – Tamb. up to **40**°C						
		INTERNAL TEMP.60°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
AQ-080806AL	EFXE-080806AL	5,2	7,8	10,4	11,7	14,3	15,6	16,9
AR-081306AL	EFXE-081306AL	7,0	10,6	14,1	15,9	19,4	21,2	23,0
AR-081806AL	EFXE-081806AL	8,9	13,3	17,8	20,0	24,5	26,7	28,9
AR-081808AL	EFXE-081808AL	11,0	16,5	22,1	24,8	30,4	33,1	35,9
AR-082505AL	EFXE-082505AL	10,7	16,1	21,4	24,1	29,5	32,2	34,8
AR-082508AL	EFXE-082508AL	14,2	21,4	28,5	32,1	39,2	42,8	46,4
AQ-101008AL	EFXE-101008AL	8,7	13,0	17,4	19,6	23,9	26,1	28,3
AR-101508AL	EFXE-101508AL	11,1	16,6	22,2	24,9	30,5	33,3	36,0
AR-101608AL	EFXE-101608AL	11,5	17,3	23,1	26,0	31,8	34,7	37,6
AR-102008AL	EFXE-102008AL	13,4	20,1	26,8	30,2	36,9	40,3	43,6
AQ-121208AL	EFXE-121208AL	10,8	16,2	21,6	24,3	29,7	32,4	35,1
AR-122209AL	EFXE-122209AL	16,8	25,3	33,7	37,9	46,3	50,6	54,8
AQ-141409AL	EFXE-141409AL	13,7	20,6	27,5	31,0	37,9	41,3	44,8
AR-142009AL	EFXE-142009AL	17,1	25,7	34,2	38,5	47,1	51,4	55,7
AQ-161609AL	EFXE-161609AL	17,2	25,8	34,4	38,7	47,3	51,6	55,9
AR-162410AL	EFXE-162410AL	22,1	33,1	44,2	49,7	60,8	66,3	71,8
AR-162609AL	EFXE-162609AL	21,9	32,8	43,8	49,3	60,2	65,7	71,2
AQ-181810AL	EFXE-181810AL	19,7	29,6	39,5	44,4	54,3	59,2	64,2
AR-182810AL	EFXE-182810AL	26,1	39,1	52,2	58,7	71,8	78,3	84,8
AR-202311AL	EFXE-202311AL	25,8	38,7	51,6	58,0	71,0	77,4	83,9
AR-202318AL	EFXE-202318AL	35,5	53,3	71,1	80,0	97,8	106,7	115,6
AR-232811AL	EFXE-232811AL	31,6	47,5	63,3	71,3	87,1	95,0	103,0
AR-233312AL	EFXE-233312AL	37,0	55,6	74,1	83,4	101,9	111,2	120,5
AR-233318AL	EFXE-233318AL	47,5	71,3	95,1	107,0	130,8	142,7	154,6

Enclosure types (aluminium)		Maximum power dissipation (W) – Tamb. up to **50**°C						
		INTERNAL TEMP.60°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
AQ-080806AL	EFXE-080806AL	2,6	5,2	7,8	9,1	11,7	13,0	14,3
AR-081306AL	EFXE-081306AL	3,5	7,0	10,6	12,3	15,9	17,7	19,4
AR-081806AL	EFXE-081806AL	4,4	8,9	13,3	15,5	20,0	22,2	24,5
AR-081808AL	EFXE-081808AL	5,5	11,0	16,5	19,3	24,8	27,6	30,4
AR-082505AL	EFXE-082505AL	5,3	10,7	16,1	18,7	24,1	26,8	29,5
AR-082508AL	EFXE-082508AL	7,1	14,2	21,4	24,9	32,1	35,7	39,2
AQ-101008AL	EFXE-101008AL	4,3	8,7	13,0	15,2	19,6	21,7	23,9
AR-101508AL	EFXE-101508AL	5,5	11,1	16,6	19,4	24,9	27,7	30,5
AR-101608AL	EFXE-101608AL	5,7	11,5	17,3	20,2	26,0	28,9	31,8
AR-102008AL	EFXE-102008AL	6,7	13,4	20,1	23,5	30,2	33,5	36,9
AQ-121208AL	EFXE-121208AL	5,4	10,8	16,2	18,9	24,3	27,0	29,7
AR-122209AL	EFXE-122209AL	8,4	16,8	25,3	29,5	37,9	42,1	46,3
AQ-141409AL	EFXE-141409AL	6,8	13,7	20,6	24,1	31,0	34,4	37,9
AR-142009AL	EFXE-142009AL	8,5	17,1	25,7	30,0	38,5	42,8	47,1
AQ-161609AL	EFXE-161609AL	8,6	17,2	25,8	30,1	38,7	43,0	47,3
AR-162410AL	EFXE-162410AL	11,0	22,1	33,1	38,7	49,7	55,3	60,8
AR-162609AL	EFXE-162609AL	10,9	21,9	32,8	38,3	49,3	54,8	60,2
AQ-181810AL	EFXE-181810AL	9,8	19,7	29,6	34,5	44,4	49,3	54,3
AR-182810AL	EFXE-182810AL	13,0	26,1	39,1	45,7	58,7	65,2	71,8
AR-202311AL	EFXE-202311AL	12,9	25,8	38,7	45,1	58,0	64,5	71,0
AR-202318AL	EFXE-202318AL	17,7	35,5	53,3	62,2	80,0	88,9	97,8
AR-232811AL	EFXE-232811AL	15,8	31,6	47,5	55,4	71,3	79,2	87,1
AR-233312AL	EFXE-233312AL	18,5	37,0	55,6	64,8	83,4	92,7	101,9
AR-233318AL	EFXE-233318AL	23,7	47,5	71,3	83,2	107,0	118,9	130,8

Enclosure types (aluminium)		Maximum power dissipation (W) – Tamb. up to **55**°C						
		INTERNAL TEMP.65°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
AQ-080806AL	EFXE-080806AL	2,6	3,9	6,5	7,8	10,4	11,7	13,0
AR-081306AL	EFXE-081306AL	3,5	5,3	8,8	10,6	14,1	15,9	17,7
AR-081806AL	EFXE-081806AL	4,4	6,6	11,1	13,3	17,8	20,0	22,2
AR-081808AL	EFXE-081808AL	5,5	8,2	13,8	16,5	22,1	24,8	27,6
AR-082505AL	EFXE-082505AL	5,3	8,0	13,4	16,1	21,4	24,1	26,8
AR-082508AL	EFXE-082508AL	7,1	10,7	17,8	21,4	28,5	32,1	35,7
AQ-101008AL	EFXE-101008AL	4,3	6,5	10,8	13,0	17,4	19,6	21,7
AR-101508AL	EFXE-101508AL	5,5	8,3	13,8	16,6	22,2	24,9	27,7
AR-101608AL	EFXE-101608AL	5,7	8,6	14,4	17,3	23,1	26,0	28,9
AR-102008AL	EFXE-102008AL	6,7	10,0	16,7	20,1	26,8	30,2	33,5
AQ-121208AL	EFXE-121208AL	5,4	8,1	13,5	16,2	21,6	24,3	27,0
AR-122209AL	EFXE-122209AL	8,4	12,6	21,0	25,3	33,7	37,9	42,1
AQ-141409AL	EFXE-141409AL	6,8	10,3	17,2	20,6	27,5	31,0	34,4
AR-142009AL	EFXE-142009AL	8,5	12,8	21,4	25,7	34,2	38,5	42,8
AQ-161609AL	EFXE-161609AL	8,6	12,9	21,5	25,8	34,4	38,7	43,0
AR-162410AL	EFXE-162410AL	11,0	16,5	27,6	33,1	44,2	49,7	55,3
AR-162609AL	EFXE-162609AL	10,9	16,4	27,4	32,8	43,8	49,3	54,8
AQ-181810AL	EFXE-181810AL	9,8	14,8	24,6	29,6	39,5	44,4	49,3
AR-182810AL	EFXE-182810AL	13,0	19,5	32,6	39,1	52,2	58,7	65,2
AR-202311AL	EFXE-202311AL	12,9	19,3	32,2	38,7	51,6	58,0	64,5
AR-202318AL	EFXE-202318AL	17,7	26,6	44,4	53,3	71,1	80,0	88,9
AR-232811AL	EFXE-232811AL	15,8	23,7	39,6	47,5	63,3	71,3	79,2
AR-233312AL	EFXE-233312AL	18,5	27,8	46,3	55,6	74,1	83,4	92,7
AR-233318AL	EFXE-233318AL	23,7	35,6	59,4	71,3	95,1	107,0	118,9

Enclosure types (aluminium)		Maximum power dissipation (W) – Tamb. up to **60**°C					
		INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
AQ-080806AL	EFXE-080806AL	2,6	5,2	6,5	9,1	10,4	11,7
AR-081306AL	EFXE-081306AL	3,5	7,0	8,8	12,3	14,1	15,9
AR-081806AL	EFXE-081806AL	4,4	8,9	11,1	15,5	17,8	20,0
AR-081808AL	EFXE-081808AL	5,5	11,0	13,8	19,3	22,1	24,8
AR-082505AL	EFXE-082505AL	5,3	10,7	13,4	18,7	21,4	24,1
AR-082508AL	EFXE-082508AL	7,1	14,2	17,8	24,9	28,5	32,1
AQ-101008AL	EFXE-101008AL	4,3	8,7	10,8	15,2	17,4	19,6
AR-101508AL	EFXE-101508AL	5,5	11,1	13,8	19,4	22,2	24,9
AR-101608AL	EFXE-101608AL	5,7	11,5	14,4	20,2	23,1	26,0
AR-102008AL	EFXE-102008AL	6,7	13,4	16,7	23,5	26,8	30,2
AQ-121208AL	EFXE-121208AL	5,4	10,8	13,5	18,9	21,6	24,3
AR-122209AL	EFXE-122209AL	8,4	16,8	21,0	29,5	33,7	37,9
AQ-141409AL	EFXE-141409AL	6,8	13,7	17,2	24,1	27,5	31,0
AR-142009AL	EFXE-142009AL	8,5	17,1	21,4	30,0	34,2	38,5
AQ-161609AL	EFXE-161609AL	8,6	17,2	21,5	30,1	34,4	38,7
AR-162410AL	EFXE-162410AL	11,0	22,1	27,6	38,7	44,2	49,7
AR-162609AL	EFXE-162609AL	10,9	21,9	27,4	38,3	43,8	49,3
AQ-181810AL	EFXE-181810AL	9,8	19,7	24,6	34,5	39,5	44,4
AR-182810AL	EFXE-182810AL	13,0	26,1	32,6	45,7	52,2	58,7
AR-202311AL	EFXE-202311AL	12,9	25,8	32,2	45,1	51,6	58,0
AR-202318AL	EFXE-202318AL	17,7	35,5	44,4	62,2	71,1	80,0
AR-232811AL	EFXE-232811AL	15,8	31,6	39,6	55,4	63,3	71,3
AR-233312AL	EFXE-233312AL	18,5	37,0	46,3	64,8	74,1	83,4
AR-233318AL	EFXE-233318AL	23,7	47,5	59,4	83,2	95,1	107,0

Enclosure types (aluminium)		Maximum power dissipation (W) – Tamb. up to **95**°C	
		INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
AQ-080806AL	EFXE-080806AL	1,3	2,6
AR-081306AL	EFXE-081306AL	1,7	3,5
AR-081806AL	EFXE-081806AL	2,2	4,4
AR-081808AL	EFXE-081808AL	2,7	5,5
AR-082505AL	EFXE-082505AL	2,6	5,3
AR-082508AL	EFXE-082508AL	3,5	7,1
AQ-101008AL	EFXE-101008AL	2,1	4,3
AR-101508AL	EFXE-101508AL	2,7	5,5
AR-101608AL	EFXE-101608AL	2,8	5,7
AR-102008AL	EFXE-102008AL	3,3	6,7
AQ-121208AL	EFXE-121208AL	2,7	5,4
AR-122209AL	EFXE-122209AL	4,2	8,4
AQ-141409AL	EFXE-141409AL	3,4	6,8
AR-142009AL	EFXE-142009AL	4,2	8,5
AQ-161609AL	EFXE-161609AL	4,3	8,6
AR-162410AL	EFXE-162410AL	5,5	11,0
AR-162609AL	EFXE-162609AL	5,4	10,9
AQ-181810AL	EFXE-181810AL	4,9	9,8
AR-182810AL	EFXE-182810AL	6,5	13,0
AR-202311AL	EFXE-202311AL	6,4	12,9
AR-202318AL	EFXE-202318AL	8,8	17,7
AR-232811AL	EFXE-232811AL	7,9	15,8
AR-233312AL	EFXE-233312AL	9,2	18,5
AR-233318AL	EFXE-233318AL	11,8	23,7

Power dissipation – Stainless steel enclosures SB series

Enclosure types (stainless steel)		Maximum power dissipation (W) – Tamb. up to **40**°C						
		INTERNAL TEMP.60°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
SB-101210	EFXE-101210SB	5,5	8,3	11,1	12,5	15,3	16,7	18,1
SB-151510	EFXE-151510SB	8,0	12,0	16,0	18,0	22,0	24,0	26,1
SB-142013	EFXE-142013SB	10,4	15,7	20,9	23,5	28,8	31,4	34,0
SB-202010	EFXE-202010SB	10,7	16,1	21,4	24,1	29,5	32,2	34,8
SB-202016	EFXE-202016SB	13,9	20,8	27,8	31,3	38,3	41,7	45,2
SB-202713	EFXE-202713SB	14,4	21,6	28,9	32,5	39,7	43,3	46,9
SB-272713	EFXE-272713SB	16,7	25,1	33,5	37,7	46,0	50,2	54,4
SB-203016	EFXE-203016SB	17,1	25,7	34,3	38,6	47,2	51,4	55,7
SB-273513	EFXE-273513SB	19,2	28,9	38,5	43,3	53,0	57,8	62,6
SB-282816	EFXE-282816SB	19,3	29,0	38,7	43,6	53,3	58,1	63,0
SB-204016	EFXE-204016SB	20,2	30,3	40,4	45,5	55,6	60,6	65,7
SB-353516	EFXE-353516SB	24,4	36,6	48,8	54,9	67,1	73,2	79,3
SB-282827	EFXE-282827SB	26,2	39,3	52,5	59,0	72,2	78,7	85,3
SB-355016	EFXE-355016SB	29,7	44,5	59,4	66,8	81,7	89,1	96,6
SB-383816	EFXE-383816SB	26,6	39,9	53,2	59,8	73,1	79,8	86,5
SB-384516	EFXE-384516SB	29,1	43,7	58,3	65,6	80,2	87,5	94,8
SB-385716	EFXE-385716SB	33,4	50,1	66,8	75,2	91,9	100,3	108,7
SB-505016	EFXE-505016SB	35,8	53,8	71,7	80,7	98,6	107,6	116,6
SB-383827	EFXE-383827SB	35,1	52,7	70,2	79,0	96,6	105,4	114,2
SB-575716	EFXE-575716SB	41,5	62,3	83,1	93,5	114,3	124,7	135,1
SB-577620	EFXE-577620SB	53,9	80,9	107,9	121,3	148,3	161,8	175,3
SB-575730	EFXE-575730SB	55,8	83,7	111,6	125,6	153,5	167,5	181,4
SB-769520	EFXE-769520SB	72,2	108,3	144,4	162,4	198,5	216,6	234,6
SB-1258040	EFXE-1258040SB	72,2	108,3	144,4	162,4	198,5	216,6	234,6

Enclosure types (Stainless steel)		Maximum power dissipation (W) – Tamb. up to **50**°C						
		INTERNAL TEMP.60°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
SB-101210	EFXE-101210SB	2,7	5,5	8,3	9,7	12,5	13,9	15,3
SB-151510	EFXE-151510SB	4,0	8,0	12,0	14,0	18,0	20,0	22,0
SB-142013	EFXE-142013SB	5,2	10,4	15,7	18,3	23,5	26,2	28,8
SB-202010	EFXE-202010SB	5,3	10,7	16,1	18,7	24,1	26,8	29,5
SB-202016	EFXE-202016SB	6,9	13,9	20,8	24,3	31,3	34,8	38,3
SB-202713	EFXE-202713SB	7,2	14,4	21,6	25,2	32,5	36,1	39,7
SB-272713	EFXE-272713SB	8,3	16,7	25,1	29,3	37,7	41,8	46,0
SB-203016	EFXE-203016SB	8,5	17,1	25,7	30,0	38,6	42,9	47,2
SB-273513	EFXE-273513SB	9,6	19,2	28,9	33,7	43,3	48,2	53,0
SB-282816	EFXE-282816SB	9,6	19,3	29,0	33,9	43,6	48,4	53,3
SB-204016	EFXE-204016SB	10,1	20,2	30,3	35,4	45,5	50,5	55,6
SB-353516	EFXE-353516SB	12,2	24,4	36,6	42,7	54,9	61,0	67,1
SB-282827	EFXE-282827SB	13,1	26,2	39,3	45,9	59,0	65,6	72,2
SB-355016	EFXE-355016SB	14,8	29,7	44,5	52,0	66,8	74,3	81,7
SB-383816	EFXE-383816SB	13,3	26,6	39,9	46,5	59,8	66,5	73,1
SB-384516	EFXE-384516SB	14,5	29,1	43,7	51,0	65,6	72,9	80,2
SB-385716	EFXE-385716SB	16,7	33,4	50,1	58,5	75,2	83,6	91,9
SB-505016	EFXE-505016SB	17,9	35,8	53,8	62,7	80,7	89,7	98,6
SB-383827	EFXE-383827SB	17,5	35,1	52,7	61,4	79,0	87,8	96,6
SB-575716	EFXE-575716SB	20,7	41,5	62,3	72,7	93,5	103,9	114,3
SB-577620	EFXE-577620SB	26,9	53,9	80,9	94,4	121,3	134,8	148,3
SB-575730	EFXE-575730SB	27,9	55,8	83,7	97,7	125,6	139,5	153,5
SB-769520	EFXE-769520SB	36,1	72,2	108,3	126,3	162,4	180,5	198,5
SB-1258040	EFXE-1258040SB	36,1	72,2	108,3	126,3	162,4	180,5	198,5

Enclosure types (Stainless steel)		Maximum power dissipation (W) – Tamb. up to **55**°C						
		INTERNAL TEMP.65°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
SB-101210	EFXE-101210SB	2,7	4,1	6,9	8,3	11,1	12,5	13,9
SB-151510	EFXE-151510SB	4,0	6,0	10,0	12,0	16,0	18,0	20,0
SB-142013	EFXE-142013SB	5,2	7,8	13,1	15,7	20,9	23,5	26,2
SB-202010	EFXE-202010SB	5,3	8,0	13,4	16,1	21,4	24,1	26,8
SB-202016	EFXE-202016SB	6,9	10,4	17,4	20,8	27,8	31,3	34,8
SB-202713	EFXE-202713SB	7,2	10,8	18,0	21,6	28,9	32,5	36,1
SB-272713	EFXE-272713SB	8,3	12,5	20,9	25,1	33,5	37,7	41,8
SB-203016	EFXE-203016SB	8,5	12,8	21,4	25,7	34,3	38,6	42,9
SB-273513	EFXE-273513SB	9,6	14,4	24,1	28,9	38,5	43,3	48,2
SB-282816	EFXE-282816SB	9,6	14,5	24,2	29,0	38,7	43,6	48,4
SB-204016	EFXE-204016SB	10,1	15,1	25,2	30,3	40,4	45,5	50,5
SB-353516	EFXE-353516SB	12,2	18,3	30,5	36,6	48,8	54,9	61,0
SB-282827	EFXE-282827SB	13,1	19,6	32,8	39,3	52,5	59,0	65,6
SB-355016	EFXE-355016SB	14,8	22,2	37,1	44,5	59,4	66,8	74,3
SB-383816	EFXE-383816SB	13,3	19,9	33,2	39,9	53,2	59,8	66,5
SB-384516	EFXE-384516SB	14,5	21,8	36,4	43,7	58,3	65,6	72,9
SB-385716	EFXE-385716SB	16,7	25,0	41,8	50,1	66,8	75,2	83,6
SB-505016	EFXE-505016SB	17,9	26,9	44,8	53,8	71,7	80,7	89,7
SB-383827	EFXE-383827SB	17,5	26,3	43,9	52,7	70,2	79,0	87,8
SB-575716	EFXE-575716SB	20,7	31,1	51,9	62,3	83,1	93,5	103,9
SB-577620	EFXE-577620SB	26,9	40,4	67,4	80,9	107,9	121,3	134,8
SB-575730	EFXE-575730SB	27,9	41,8	69,7	83,7	111,6	125,6	139,5
SB-769520	EFXE-769520SB	36,1	54,1	90,2	108,3	144,4	162,4	180,5
SB-1258040	EFXE-1258040SB	36,1	54,1	90,2	108,3	144,4	162,4	180,5

Enclosure types (Stainless steel)		Maximum power dissipation (W) – Tamb. up to **60**°C					
		INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
SB-101210	EFXE-101210SB	2,7	5,5	6,9	9,7	11,1	12,5
SB-151510	EFXE-151510SB	4,0	8,0	10,0	14,0	16,0	18,0
SB-142013	EFXE-142013SB	5,2	10,4	13,1	18,3	20,9	23,5
SB-202010	EFXE-202010SB	5,3	10,7	13,4	18,7	21,4	24,1
SB-202016	EFXE-202016SB	6,9	13,9	17,4	24,3	27,8	31,3
SB-202713	EFXE-202713SB	7,2	14,4	18,0	25,2	28,9	32,5
SB-272713	EFXE-272713SB	8,3	16,7	20,9	29,3	33,5	37,7
SB-203016	EFXE-203016SB	8,5	17,1	21,4	30,0	34,3	38,6
SB-273513	EFXE-273513SB	9,6	19,2	24,1	33,7	38,5	43,3
SB-282816	EFXE-282816SB	9,6	19,3	24,2	33,9	38,7	43,6
SB-204016	EFXE-204016SB	10,1	20,2	25,2	35,4	40,4	45,5
SB-353516	EFXE-353516SB	12,2	24,4	30,5	42,7	48,8	54,9
SB-282827	EFXE-282827SB	13,1	26,2	32,8	45,9	52,5	59,0
SB-355016	EFXE-355016SB	14,8	29,7	37,1	52,0	59,4	66,8
SB-383816	EFXE-383816SB	13,3	26,6	33,2	46,5	53,2	59,8
SB-384516	EFXE-384516SB	14,5	29,1	36,4	51,0	58,3	65,6
SB-385716	EFXE-385716SB	16,7	33,4	41,8	58,5	66,8	75,2
SB-505016	EFXE-505016SB	17,9	35,8	44,8	62,7	71,7	80,7
SB-383827	EFXE-383827SB	17,5	35,1	43,9	61,4	70,2	79,0
SB-575716	EFXE-575716SB	20,7	41,5	51,9	72,7	83,1	93,5
SB-577620	EFXE-577620SB	26,9	53,9	67,4	94,4	107,9	121,3
SB-575730	EFXE-575730SB	27,9	55,8	69,7	97,7	111,6	125,6
SB-769520	EFXE-769520SB	36,1	72,2	90,2	126,3	144,4	162,4
SB-1258040	EFXE-1258040SB	36,1	72,2	90,2	126,3	144,4	162,4

Enclosure types (Stainless steel)		Maximum power dissipation (W) – Tamb. up to **95**°C	
		INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
SB-101210	EFXE-101210SB	1,3	2,7
SB-151510	EFXE-151510SB	2,0	4,0
SB-142013	EFXE-142013SB	2,6	5,2
SB-202010	EFXE-202010SB	2,6	5,3
SB-202016	EFXE-202016SB	3,4	6,9
SB-202713	EFXE-202713SB	3,6	7,2
SB-272713	EFXE-272713SB	4,1	8,3
SB-203016	EFXE-203016SB	4,2	8,5
SB-273513	EFXE-273513SB	4,8	9,6
SB-282816	EFXE-282816SB	4,8	9,6
SB-204016	EFXE-204016SB	5,0	10,1
SB-353516	EFXE-353516SB	6,1	12,2
SB-282827	EFXE-282827SB	6,5	13,1
SB-355016	EFXE-355016SB	7,4	14,8
SB-383816	EFXE-383816SB	6,6	13,3
SB-384516	EFXE-384516SB	7,2	14,5
SB-385716	EFXE-385716SB	8,3	16,7
SB-505016	EFXE-505016SB	8,9	17,9
SB-383827	EFXE-383827SB	8,7	17,5
SB-575716	EFXE-575716SB	10,3	20,7
SB-577620	EFXE-577620SB	13,4	26,9
SB-575730	EFXE-575730SB	13,9	27,9
SB-769520	EFXE-769520SB	18,0	36,1
SB-1258040	EFXE-1258040SB	18,0	36,1

Power dissipation – Stainless steel enclosures ST series

Enclosure types (Stainless steel)		Maximum power dissipation (W) – Tamb. up to **40**°C						
		INTERNAL TEMP.60°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
ST-101210	EFXE-101210ST	5,5	8,3	11,1	12,5	15,3	16,7	18,1
ST-151510	EFXE-151510ST	8,0	12,0	16,0	18,0	22,0	24,0	26,1
ST-142013	EFXE-142013ST	10,4	15,7	20,9	23,5	28,8	31,4	34,0
ST-202010	EFXE-202010ST	10,7	16,1	21,4	24,1	29,5	32,2	34,8
ST-202016	EFXE-202016ST	13,9	20,8	27,8	31,3	38,3	41,7	45,2
ST-202713	EFXE-202713ST	14,4	21,6	28,9	32,5	39,7	43,3	46,9
ST-272713	EFXE-272713ST	16,7	25,1	33,5	37,7	46,0	50,2	54,4
ST-203016	EFXE-203016ST	17,1	25,7	34,3	38,6	47,2	51,4	55,7
ST-273513	EFXE-273513ST	19,2	28,9	38,5	43,3	53,0	57,8	62,6
ST-282816	EFXE-282816ST	19,3	29,0	38,7	43,6	53,3	58,1	63,0
ST-204016	EFXE-204016ST	20,2	30,3	40,4	45,5	55,6	60,6	65,7
ST-353516	EFXE-353516ST	24,4	36,6	48,8	54,9	67,1	73,2	79,3
ST-282827	EFXE-282827ST	26,2	39,3	52,5	59,0	72,2	78,7	85,3
ST-355016	EFXE-355016ST	29,7	44,5	59,4	66,8	81,7	89,1	96,6
ST-383816	EFXE-383816ST	26,6	39,9	53,2	59,8	73,1	79,8	86,5
ST-384516	EFXE-384516ST	29,1	43,7	58,3	65,6	80,2	87,5	94,8
ST-385716	EFXE-385716ST	33,4	50,1	66,8	75,2	91,9	100,3	108,7
ST-505016	EFXE-505016ST	35,8	53,8	71,7	80,7	98,6	107,6	116,6
ST-383827	EFXE-383827ST	35,1	52,7	70,2	79,0	96,6	105,4	114,2
ST-575716	EFXE-575716ST	41,5	62,3	83,1	93,5	114,3	124,7	135,1
ST-577620	EFXE-577620ST	53,9	80,9	107,9	121,3	148,3	161,8	175,3
ST-575730	EFXE-575730ST	55,8	83,7	111,6	125,6	153,5	167,5	181,4
ST-769520	EFXE-769520ST	72,2	108,3	144,4	162,4	198,5	216,6	234,6
ST-1258040	EFXE-1258040ST	72,2	108,3	144,4	162,4	198,5	216,6	234,6

Enclosure types (Stainless steel)		Maximum power dissipation (W) – Tamb. up to **50**°C						
		INTERNAL TEMP.60°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
ST-101210	EFXE-101210ST	2,7	5,5	8,3	9,7	12,5	13,9	15,3
ST-151510	EFXE-151510ST	4,0	8,0	12,0	14,0	18,0	20,0	22,0
ST-142013	EFXE-142013ST	5,2	10,4	15,7	18,3	23,5	26,2	28,8
ST-202010	EFXE-202010ST	5,3	10,7	16,1	18,7	24,1	26,8	29,5
ST-202016	EFXE-202016ST	6,9	13,9	20,8	24,3	31,3	34,8	38,3
ST-202713	EFXE-202713ST	7,2	14,4	21,6	25,2	32,5	36,1	39,7
ST-272713	EFXE-272713ST	8,3	16,7	25,1	29,3	37,7	41,8	46,0
ST-203016	EFXE-203016ST	8,5	17,1	25,7	30,0	38,6	42,9	47,2
ST-273513	EFXE-273513ST	9,6	19,2	28,9	33,7	43,3	48,2	53,0
ST-282816	EFXE-282816ST	9,6	19,3	29,0	33,9	43,6	48,4	53,3
ST-204016	EFXE-204016ST	10,1	20,2	30,3	35,4	45,5	50,5	55,6
ST-353516	EFXE-353516ST	12,2	24,4	36,6	42,7	54,9	61,0	67,1
ST-282827	EFXE-282827ST	13,1	26,2	39,3	45,9	59,0	65,6	72,2
ST-355016	EFXE-355016ST	14,8	29,7	44,5	52,0	66,8	74,3	81,7
ST-383816	EFXE-383816ST	13,3	26,6	39,9	46,5	59,8	66,5	73,1
ST-384516	EFXE-384516ST	14,5	29,1	43,7	51,0	65,6	72,9	80,2
ST-385716	EFXE-385716ST	16,7	33,4	50,1	58,5	75,2	83,6	91,9
ST-505016	EFXE-505016ST	17,9	35,8	53,8	62,7	80,7	89,7	98,6
ST-383827	EFXE-383827ST	17,5	35,1	52,7	61,4	79,0	87,8	96,6
ST-575716	EFXE-575716ST	20,7	41,5	62,3	72,7	93,5	103,9	114,3
ST-577620	EFXE-577620ST	26,9	53,9	80,9	94,4	121,3	134,8	148,3
ST-575730	EFXE-575730ST	27,9	55,8	83,7	97,7	125,6	139,5	153,5
ST-769520	EFXE-769520ST	36,1	72,2	108,3	126,3	162,4	180,5	198,5
ST-1258040	EFXE-1258040ST	36,1	72,2	108,3	126,3	162,4	180,5	198,5

Enclosure types (Stainless steel)		Maximum power dissipation (W) – Tamb. up to **55**°C						
		INTERNAL TEMP.65°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
ST-101210	EFXE-101210ST	2,7	4,1	6,9	8,3	11,1	12,5	13,9
ST-151510	EFXE-151510ST	4,0	6,0	10,0	12,0	16,0	18,0	20,0
ST-142013	EFXE-142013ST	5,2	7,8	13,1	15,7	20,9	23,5	26,2
ST-202010	EFXE-202010ST	5,3	8,0	13,4	16,1	21,4	24,1	26,8
ST-202016	EFXE-202016ST	6,9	10,4	17,4	20,8	27,8	31,3	34,8
ST-202713	EFXE-202713ST	7,2	10,8	18,0	21,6	28,9	32,5	36,1
ST-272713	EFXE-272713ST	8,3	12,5	20,9	25,1	33,5	37,7	41,8
ST-203016	EFXE-203016ST	8,5	12,8	21,4	25,7	34,3	38,6	42,9
ST-273513	EFXE-273513ST	9,6	14,4	24,1	28,9	38,5	43,3	48,2
ST-282816	EFXE-282816ST	9,6	14,5	24,2	29,0	38,7	43,6	48,4
ST-204016	EFXE-204016ST	10,1	15,1	25,2	30,3	40,4	45,5	50,5
ST-353516	EFXE-353516ST	12,2	18,3	30,5	36,6	48,8	54,9	61,0
ST-282827	EFXE-282827ST	13,1	19,6	32,8	39,3	52,5	59,0	65,6
ST-355016	EFXE-355016ST	14,8	22,2	37,1	44,5	59,4	66,8	74,3
ST-383816	EFXE-383816ST	13,3	19,9	33,2	39,9	53,2	59,8	66,5
ST-384516	EFXE-384516ST	14,5	21,8	36,4	43,7	58,3	65,6	72,9
ST-385716	EFXE-385716ST	16,7	25,0	41,8	50,1	66,8	75,2	83,6
ST-505016	EFXE-505016ST	17,9	26,9	44,8	53,8	71,7	80,7	89,7
ST-383827	EFXE-383827ST	17,5	26,3	43,9	52,7	70,2	79,0	87,8
ST-575716	EFXE-575716ST	20,7	31,1	51,9	62,3	83,1	93,5	103,9
ST-577620	EFXE-577620ST	26,9	40,4	67,4	80,9	107,9	121,3	134,8
ST-575730	EFXE-575730ST	27,9	41,8	69,7	83,7	111,6	125,6	139,5
ST-769520	EFXE-769520ST	36,1	54,1	90,2	108,3	144,4	162,4	180,5
ST-1258040	EFXE-1258040ST	36,1	54,1	90,2	108,3	144,4	162,4	180,5

Enclosure types (Stainless steel)		Maximum power dissipation (W) – Tamb. up to **60**°C					
		INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
ST-101210	EFXE-101210ST	2,7	5,5	6,9	9,7	11,1	12,5
ST-151510	EFXE-151510ST	4,0	8,0	10,0	14,0	16,0	18,0
ST-142013	EFXE-142013ST	5,2	10,4	13,1	18,3	20,9	23,5
ST-202010	EFXE-202010ST	5,3	10,7	13,4	18,7	21,4	24,1
ST-202016	EFXE-202016ST	6,9	13,9	17,4	24,3	27,8	31,3
ST-202713	EFXE-202713ST	7,2	14,4	18,0	25,2	28,9	32,5
ST-272713	EFXE-272713ST	8,3	16,7	20,9	29,3	33,5	37,7
ST-203016	EFXE-203016ST	8,5	17,1	21,4	30,0	34,3	38,6
ST-273513	EFXE-273513ST	9,6	19,2	24,1	33,7	38,5	43,3
ST-282816	EFXE-282816ST	9,6	19,3	24,2	33,9	38,7	43,6
ST-204016	EFXE-204016ST	10,1	20,2	25,2	35,4	40,4	45,5
ST-353516	EFXE-353516ST	12,2	24,4	30,5	42,7	48,8	54,9
ST-282827	EFXE-282827ST	13,1	26,2	32,8	45,9	52,5	59,0
ST-355016	EFXE-355016ST	14,8	29,7	37,1	52,0	59,4	66,8
ST-383816	EFXE-383816ST	13,3	26,6	33,2	46,5	53,2	59,8
ST-384516	EFXE-384516ST	14,5	29,1	36,4	51,0	58,3	65,6
ST-385716	EFXE-385716ST	16,7	33,4	41,8	58,5	66,8	75,2
ST-505016	EFXE-505016ST	17,9	35,8	44,8	62,7	71,7	80,7
ST-383827	EFXE-383827ST	17,5	35,1	43,9	61,4	70,2	79,0
ST-575716	EFXE-575716ST	20,7	41,5	51,9	72,7	83,1	93,5
ST-577620	EFXE-577620ST	26,9	53,9	67,4	94,4	107,9	121,3
ST-575730	EFXE-575730ST	27,9	55,8	69,7	97,7	111,6	125,6
ST-769520	EFXE-769520ST	36,1	72,2	90,2	126,3	144,4	162,4
ST-1258040	EFXE-1258040ST	36,1	72,2	90,2	126,3	144,4	162,4

Enclosure types (Stainless steel)		Maximum power dissipation (W) – Tamb. up to **95**°C	
		INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
ST-101210	EFXE-101210ST	1,3	2,7
ST-151510	EFXE-151510ST	2,0	4,0
ST-142013	EFXE-142013ST	2,6	5,2
ST-202010	EFXE-202010ST	2,6	5,3
ST-202016	EFXE-202016ST	3,4	6,9
ST-202713	EFXE-202713ST	3,6	7,2
ST-272713	EFXE-272713ST	4,1	8,3
ST-203016	EFXE-203016ST	4,2	8,5
ST-273513	EFXE-273513ST	4,8	9,6
ST-282816	EFXE-282816ST	4,8	9,6
ST-204016	EFXE-204016ST	5,0	10,1
ST-353516	EFXE-353516ST	6,1	12,2
ST-282827	EFXE-282827ST	6,5	13,1
ST-355016	EFXE-355016ST	7,4	14,8
ST-383816	EFXE-383816ST	6,6	13,3
ST-384516	EFXE-384516ST	7,2	14,5
ST-385716	EFXE-385716ST	8,3	16,7
ST-505016	EFXE-505016ST	8,9	17,9
ST-383827	EFXE-383827ST	8,7	17,5
ST-575716	EFXE-575716ST	10,3	20,7
ST-577620	EFXE-577620ST	13,4	26,9
ST-575730	EFXE-575730ST	13,9	27,9
ST-769520	EFXE-769520ST	18,0	36,1
ST-1258040	EFXE-1258040ST	18,0	36,1

Maximum Power Dissipation calculation

The values specified in the tables as per clause 2.1.1 may be modified within the maximum admitted Tamb and maximum admitted internal temperature as follows.

$$Pdiss\ (W) = \frac{Tmax - Tamb}{Rth}$$

$Rth = A \times (\text{enclosure surface in } mm^2 \text{ except enclosure bottom})^B$

Legend:
Rth – Thermal resistance [K/W].
Tmax – Maximum allowed temperature inside enclosure.
Tamb – Ambient temperature of enclosure
A and B - coefficients determined for each series of enclosure. Exact values are given in manufacturer's documentation.

Warning labels:

WARNING – DO NOT OPEN WHEN ENERGIZED (*)
(*) Not mandatory for apparatus with protection type Ex ia Ga and Ex ib Gb.

WARNING – POTENTIAL ELECTROSTATIC CHARGING HAZARD – SEE INSTRUCTIONS

To be added when the enclosures or parts of them have a surface resistance more than 10^9 Ω or 10^{11} Ω according to IEC 60079-0 Clause 7.4.2 a), as applicable, and as per following cases:

- are equipped with transparent parts made of polycarbonate.
- for category II 2 G / EPL Gb Gas group IIC: are painted and the paint layer thickness is > 0.2mm.
- for category II 2 G / EPL Gb Gas group IIB: are painted and the paint layer thickness is > 2mm.
- for category II 2 D / EPL Db: are painted and the paint layer thickness is > 2mm.
- for category II 2 G / EPL Gb Gas group IIC: not conductive individual materials (labels), applied on painted enclosures, have exposed (chargeable area) > 2000mm^2 or, not conductive individual materials (labels), applied on unpainted (conductive earthed surface) enclosures, have exposed (chargeable area) > 8000mm^2.
- for category II 2 G /EPL Gb Gas group IIB: not conductive individual materials (labels), applied on painted enclosures, have exposed (chargeable area) > 10000mm^2 or, not conductive individual materials (labels), applied on unpainted (conductive earthed surface) enclosures, have exposed (chargeable area) > 40000mm^2.

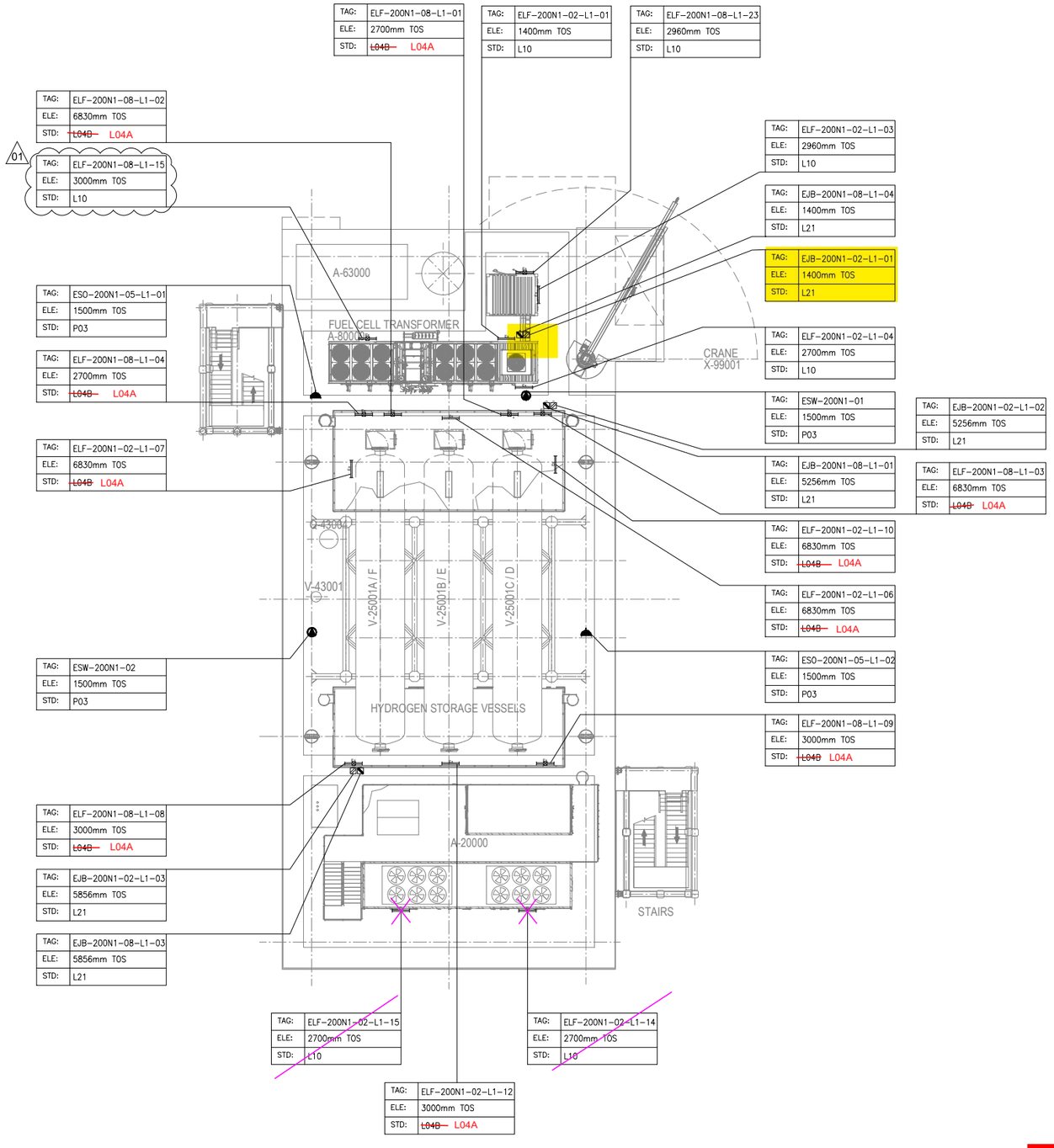
OPEN THE VALVE ONLY WHEN THE APPARATUS IS DE-ENERGIZED AND ONLY WHEN AN EXPLOSIVE DUST ATMOSPHERE IS NOT PRESENT
To be added on Ex tb apparatus equipped with the drain / venting device ECR3.

Other warnings depend on the components actually mounted, according to the component manufacturer's documentation.

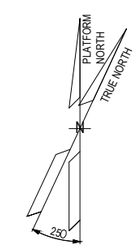
The tables below state the maximum power dissipation values (W) related to the internal temperature (Tint) and ambient temperature (Tamb).

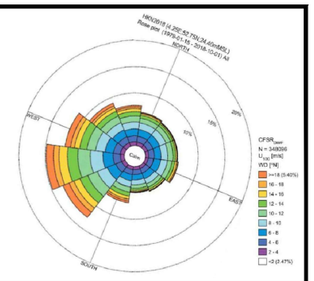
DRAWING NO. 123A90-DDL-EL-DL-20118

REV. 01



PLAN ON UPPER DECK
EL+30.310 T.O.S.





NOTES

1. ALL DIMENSIONS AND ELEVATIONS ARE GIVEN IN mm UNLESS OTHERWISE NOTED.
2. ELEVATIONS REFER TO T.O.S.
3. ELEVATION OF THE LAMPS ARE REFFERED TO THE BOTTOM OF THE LAMP.
4. FOR THE ELEVATION OF JB, REFER TO THE TYPICAL INSTALLATION.

LEGEND

- EMERGENCY LIGHTING JB
- 60W LED EMERGENCY LUMINARIES
- 60W LED EMERGENCY LUMINARIES FIXTURE POLE MOUNTED
- NORMAL LIGHTING JB
- 45W LED NORMAL LUMINARIES
- 45W LED NORMAL LUMINARIES FIXTURE POLE MOUNTED
- WELDING SOCKET WITH INTEGRATED JB
- SMALL POWER SOCKET WITH INTEGRATED JB

JB TAG:	JB-TAG
TAG:	TAG
ELE:	ELEVATION
STD:	STANDARD

REFERENCE DOCUMENTS

123A90-DDL-PP-DL-70070	PLOT PLAN - LOWER & UPPER DECK
123A90-DDL-EL-DL-20100	ELECTRICAL EQUIPMENT LAYOUT - TOP DECK
123A90-DDL-EL-DD-20091	ELECTRICAL TYPICAL INSTALLATION DETAILS - LIGHTING SYSTEM
123A90-DDL-EL-DD-20092	ELECTRICAL TYPICAL INSTALLATION DETAILS - POWER SYSTEM & CABLE INSTALLATION
123A90-DDL-EL-RE-20153	LIGHTING CALCULATION STUDY REPORT
123A90-DDL-ST-DD-90076	IDENTIFICATION PANELS ASSEMBLY AND DETAILS

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	02/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	28/05/24	ASR	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DL-20118**

REV.:	DATE:	SIGNATURE:
1_G	09/01/25	V.Ramponi

ROSETTI MARINO SpA

CROSSWIND

ROSETTI MARINO

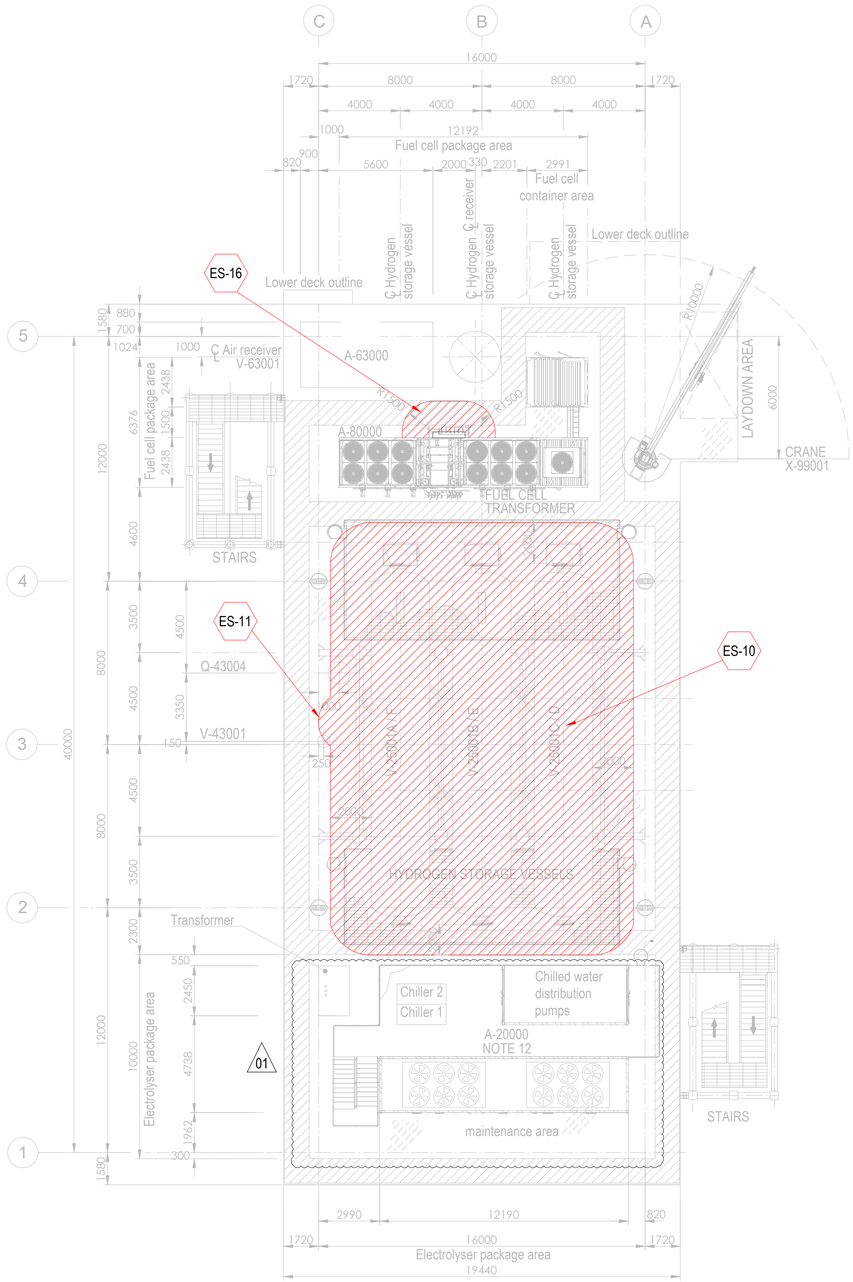
TITLE :
BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET LAYOUT – TOP DECK

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK			SCALE 1:150
DRAWN ASR	CHECKED FMA/AMA	APPROVED FPA/DLO	DATE 01/08/24
A1	DRAWING NO. 123A90-DDL-EL-DL-20118	SHEET 2of2	REV. 01

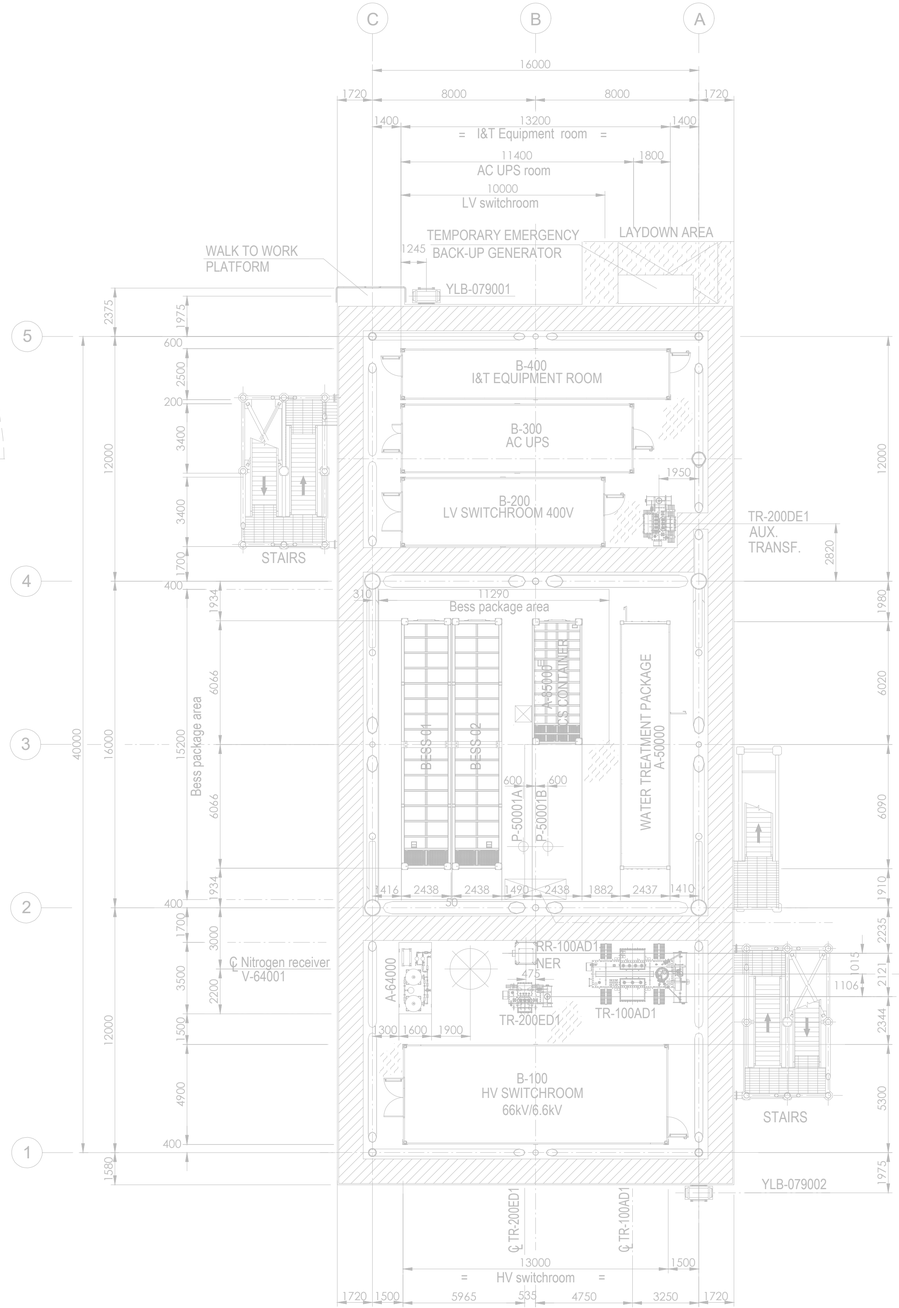
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DRAWING NO. 123A90-DDL-SAF-DL-30022

REV. 01



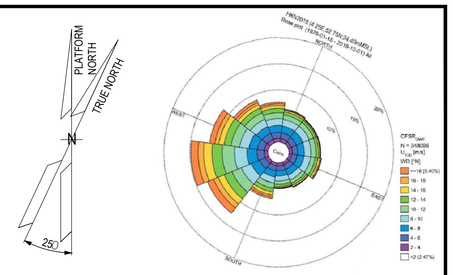
PLAN ON UPPER DECK
EL+30.310 T.O.S.



PLAN ON LOWER DECK
EL+23.310 T.O.S.

Tag No.	Equipment Tag	Description	Material	Ventilation Type
01	P-50001 A/B	SEA WATER LIFT PUMPS	SEA WATER	NATURAL (OPEN AREA)
02	Q-43004	HYDROGEN VENT	HYDROGEN	NATURAL (OPEN AREA)
03	V-43001	HYDROGEN VENT KO DRUM	HYDROGEN	NATURAL (OPEN AREA)
04	V-25001 (A/B/C/D/E/F)	HYDROGEN STORAGE VESSELS	HYDROGEN	NATURAL (OPEN AREA)
05	V-63001	AIR RECEIVER	INSTRUMENT AIR	NATURAL (OPEN AREA)
06	A-20000	ELECTROLYSER PACKAGE		
07	A-63000	INSTRUMENT AIR PACKAGE		
08	A-80000	FUEL CELL PACKAGE		
09	A-85000	BESS PACKAGE		
10	YLB-079001/2	LIFE RAFTS		
11	A-50000	WATER TREATMENT PACKAGE		

Tag No.	Equipment Tag	Description	Material	Ventilation Type
12	A-64000	NITROGEN SYSTEM		
13	B-100	HV SWITCHROOM 66kV/6.6kV		
14	B-200	LV SWITCHROOM 400V		
15	B-300	AC UPS EQUIPMENT ROOM		
16	B-400	I&T EQUIPMENT ROOM		
17	TR-100AD1	TRANSFORMER MAIN 66kV/6.6kV		
18	RR-100AD1-NER	NEUTRAL EARTHING RESISTOR		
19	TR-200DE1	TRANSFORMER AUX. 6.6kV/0.4kV		
20	TR-200ED1	SOLAR TRANSFORMER PV FARM EQUIPMENT		
21	X-99001	CRANE		
22	V-64001	NITROGEN RECEIVER		



1. ALL DIMENSIONS IN mm U.N.O
2. ALL ELEVATIONS IN METERS.
3. PLATFORM NORTH DIRECTION IS N 25°W.
4. VENT TOP SHALL BE REACHEABLE FOR MAINTENANCE PURPOSE.
5. THE BESS IS CONSIDERED SAFE AREA EXCEPT EXTRACTORES FROM BATTERIES , CURRENTLY NOT SHOWN IN DRAWINGS, SINCE INFORMATION FROM VENDOR IS NOT YET AVAILABLE.[ES17]
6. THE LOCATION OF EMISSION SOURCES ON THE LAYOUT ARE ONLY INDICATIVE. EMISSION SOURCES CONSIDERED ARE PRESENT WITHIN THE EXTENSION OF HAZARDOUS CLASSIFIED AREAS SHOWN ON THE LAYOUT. THIS IS BECAUSE VALVES AND FLANGES,WHICH ARE CONSIDERED POTENTIAL SOURCES OF RELEASE POINTS FOR FLAMMABLE GAS ARE NOT SHOWN ON CURRENT LAYOUT PROVIDED. THE SAME APPLIES TO THE EMISSION SOURCES FOR CPI'S ITEM.
7. IDENTIFIED EMISSION SOURCES DETAIL

EMISSION SOURCE No.	IDENTIFIED AREAS
ES10	HYDROGEN STORAGE VESSLES
ES11	HYDROGEN VENT KO DRUM
ES16	FUEL CELL

01

ZONE 0 | ZONE 1 | ZONE 2 | ES EMISSION SOURCES

01

01

123A90-DDL-PP-DS-70071	PLOT PLAN - BELOW LOWER DECK
123A90-DDL-PP-DS-70072	PLOT PLAN - ELEVATION LOOKING NORTH & EAST

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	27/08/24	MMA	CCA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	08/02/24	MMA	CCA	DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND

ROSETTI MARINO

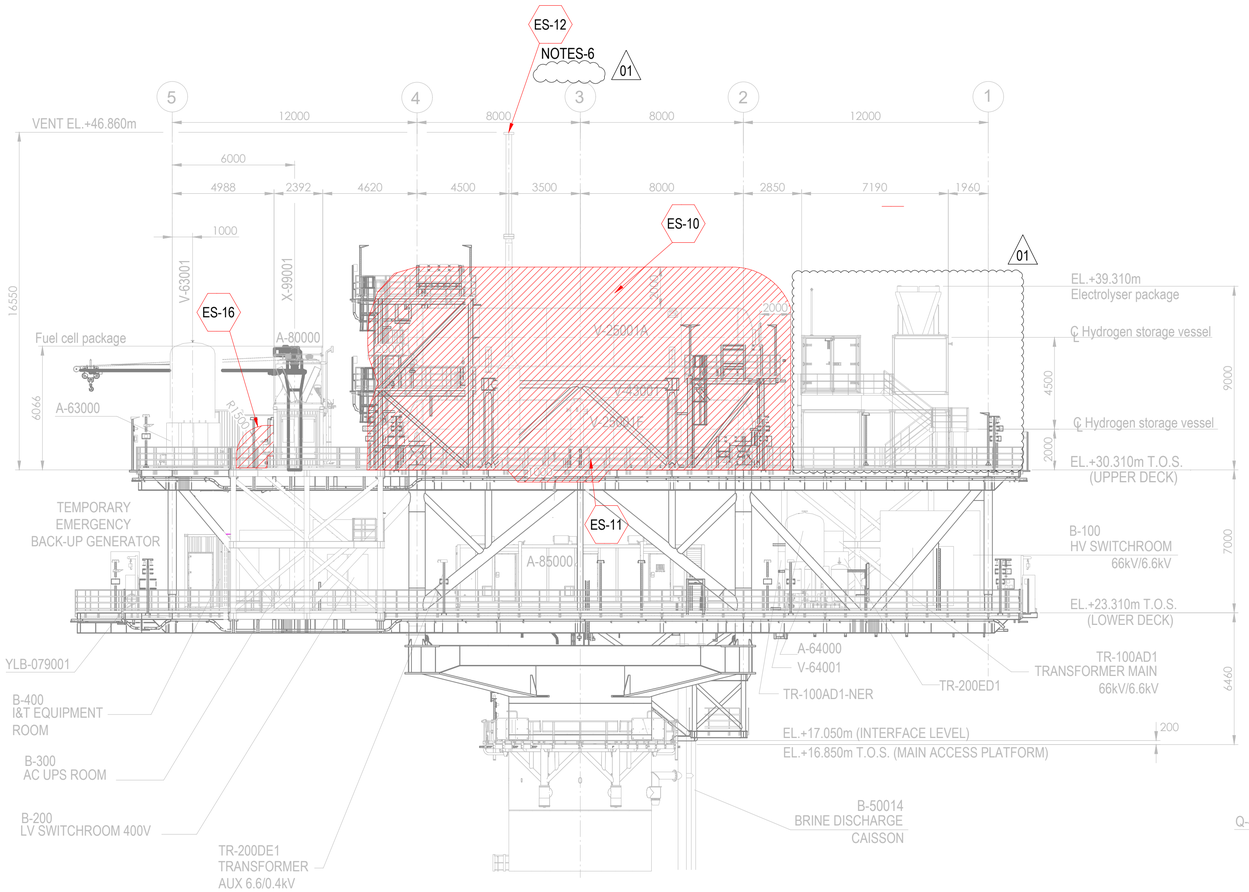
TITLE : BASE LOAD POWER HUB (BLPH)
HAZARDOUS AREA CLASSIFICATION
LOWER & UPPER DECK

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK		SCALE 1:150
DRAWN M. MAGNI	CHECKED C. CARACCIOLO	APPROVED D. LO STERZO	DATE 03/07/24
A1	DRAWING NO. 123A90-DDL-SAF-DL-30022	SHEET 001	REV. 01

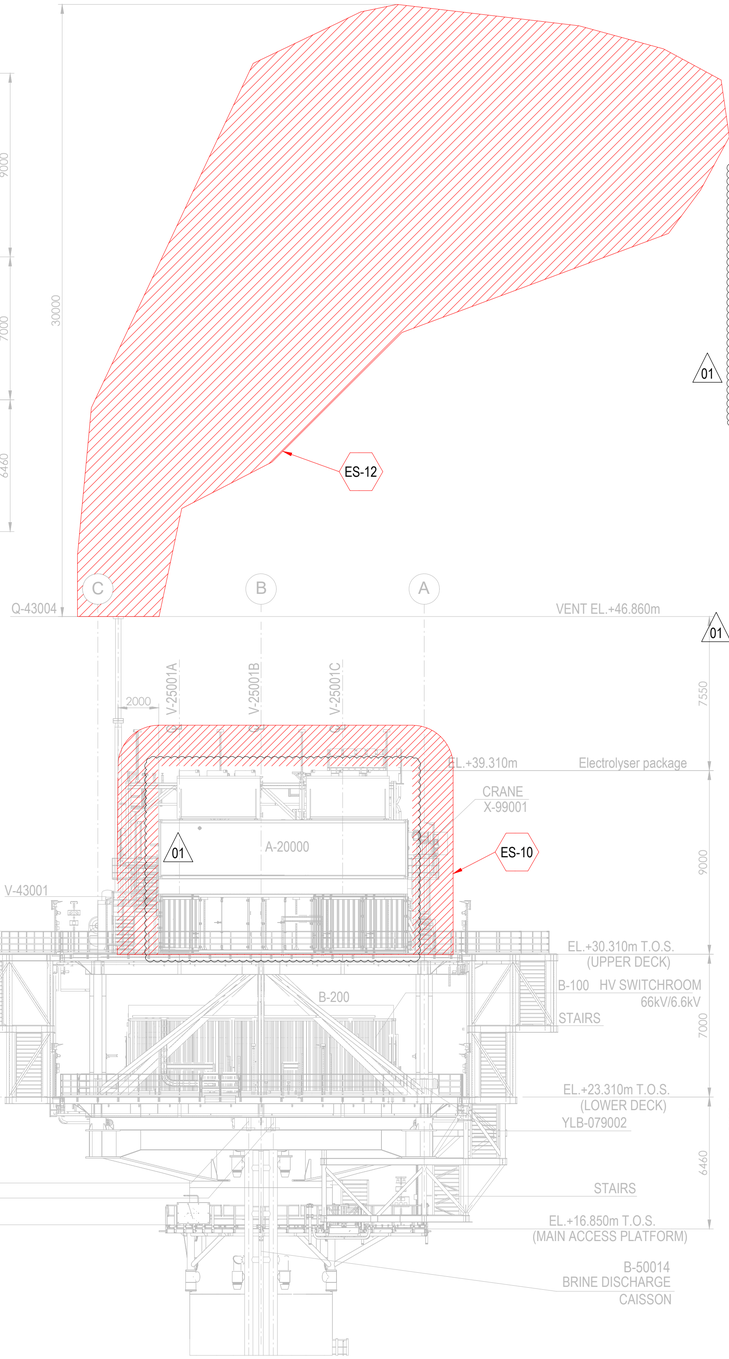
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DRAWING NO. 123A90-DDL-SAF-DL-30024

REV. 01



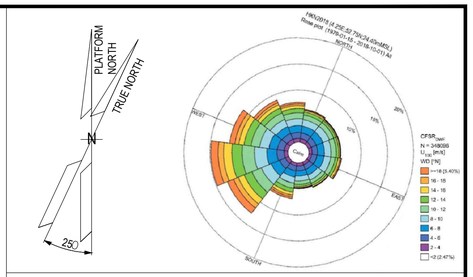
ELEVATION LOOKING EAST



ELEVATION LOOKING NORTH

01

Tag No.	Equipment Tag	Description	Material	Ventilation Type
01	P-50001 A/B	SEA WATER LIFT PUMPS	SEA WATER	NATURAL (OPEN AREA)
02	Q-43004	HYDROGEN VENT	HYDROGEN	NATURAL (OPEN AREA)
03	V-43001	HYDROGEN VENT KO DRUM	HYDROGEN	NATURAL (OPEN AREA)
04	V-25001 (A/B/C/D/E/F)	HYDROGEN STORAGE VESSELS	HYDROGEN	NATURAL (OPEN AREA)
05	V-63001	INSTRUMENT AIR RECEIVER	INSTRUMENT AIR	NATURAL (OPEN AREA)
06	A-20000	ELECTROLYSER PACKAGE		
07	A-63000	INSTRUMENT AIR PACKAGE		
08	A-80000	FUEL CELL PACKAGE		
09	A-85000	BESS PACKAGE		
10	YLB-079001/2	LIFE RAFTS		
11	B-100	HV SWITCHROOM 66kV/6.6kV		
12	B-200	LV SWITCHROOM 400V		
13	B-300	AC UPS EQUIPMENT ROOM		
14	B-400	I&T EQUIPMENT ROOM		
15	TR-100AD1	TRANSFORMER MAIN 66kV/6.6kV		
16	TR-100AD1-NER	NEUTRAL EARTHING RESISTOR		
17	TR-200DE1	TRANSFORMER AUX. 6.6kV/0.4kV		
18	TR-200ED1	SOLAR TRANSFORMER PV FARM EQUIPMENT		
19	X-99001	CRANE		
20	V-64001	NITROGEN RECEIVER		



NOTES

1. ALL DIMENSIONS IN mm U.N.O
2. ALL ELEVATIONS IN METERS.
3. PLATFORM NORTH DIRECTION IS N 25°W.
4. VENT TOP SHALL BE REACHEABLE FOR MAINTENANCE PURPOSE.
5. THE BESS IS CONSIDERED SAFE AREA EXCEPT EXTRACTORES FROM BATTERIES , CURRENTLY NOT SHOWN IN DRAWINGS, SINCE INFORMATION FROM VENDOR IS NOT YET AVAILABLE.[ES17]
6. (ES12) IS SHOWN ONLY ON ELEVATION LOOKING NORTH ON THIS LAYOUT
7. THE LOCATION OF EMISSION SOURCES ON THE LAYOUT ARE ONLY INDICATIVE. EMISSION SOURCES CONSIDERED ARE PRESENT WITHIN THE EXTENSION OF HAZARDOUS CLASSIFIED AREAS SHOWN ON THE LAYOUT. THIS IS BECAUSE VALVES AND FLANGES,WHICH ARE CONSIDERED POTENTIAL SOURCES OF RELEASE POINTS FOR FLAMMABLE GAS ARE NOT SHOWN ON CURRENT LAYOUT PROVIDED. THE SAME APPLIES TO THE EMISSION SOURCES FOR CPI'S ITEM.
8. IDENTIFIED EMISSION SOURCES DETAIL

EMISSION SOURCE No.	IDENTIFIED AREAS
ES10	HYDROGEN STORAGE VESSLES
ES11	HYDROGEN VENT KO DRUM
ES12	HYDROGEN VENT
ES16	FUEL CELL

01

LEGEND

ZONE 0 | ZONE 1 | ZONE 2 | ES EMISSION SOURCES

01

REFERENCE DOCUMENTS

123A90-DDL-PP-DS-70070	PLOT PLAN - LOWER & UPPER DECK
123A90-DDL-PP-DS-70071	PLOT PLAN - BELOW LOWER DECK

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	27/08/24	MMA	CCA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	08/02/24	MMA	CCA	DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND | ROSETTI MARINO

TITLE :
BASE LOAD POWER HUB (BLPH)
HAZARDOUS AREA CLASSIFICATION
ELEVATION LOOKING NORTH & EAST

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK			SCALE 1:150
DRAWN M. MAGNI	CHECKED C. CARACCIOLO	APPROVED D. LO STERZO	DATE 03/07/24

A1	DRAWING NO. 123A90-DDL-SAF-DL-30024	SHEET 001	REV. 01

File Name : 123A90-DDL-SAF-DL-30024 Rev.01

FROM	TO

DESCRIPTION: LIGHTING & SMALL POWER DB BOP
TAG NUMBER: DP-200N1

CUBICLE/CB: +01/Q2

-X1

L1/2	10	BN
N/2	11	BU
		Y/G
		PE

P.E. BUS BAR

P-EJB-200N1-02-L1-01
3G4 mm²

DESCRIPTION: NORMAL LIGHTING UPPER DECK - CIRCUIT NO. 1
TAG NUMBER: EJB-200N1-02-L1-01

BN → L
BU → N
Y/G → PE

CUBICLE/CB: +02/Q3

-X1

L2/3	12	BN
N/3	13	BU
		Y/G
		PE

P.E. BUS BAR

P-EJB-200N1-03-L2-01
3G4 mm²

DESCRIPTION: NORMAL LIGHTING LOWER DECK - CIRCUIT NO. 1
TAG NUMBER: EJB-200N1-03-L2-01

BN → L
BU → N
Y/G → PE

CUBICLE/CB: +02/Q4

-X1

L3/4	14	BN
N/4	15	BU
		Y/G
		PE

P.E. BUS BAR

P-EJB-200N1-04-L3-01
3G4 mm²

DESCRIPTION: NORMAL LIGHTING - STAIRS
TAG NUMBER: EJB-200N1-04-L3-01

BN → L
BU → N
Y/G → PE

CUBICLE/CB: +03/Q5

-X1

L1/5	80	BN
N/5	81	BU
		Y/G
		PE

P.E. BUS BAR

P-ESO-200N1-05-L1-01
3G10 mm²

DESCRIPTION: SMALL POWER SOCKET JB(UPPER DECK)
TAG NUMBER: ESO-200N1-05-L1-01

BN (L) → BN
BU (N) → BU
Y/G (PE) → Y/G

P-ESO-200N1-05-L1-02
3G10 mm²

DESCRIPTION: SMALL POWER SOCKET JB(UPPER DECK)
TAG NUMBER: ESO-200N1-05-L1-02

BN → L
BU → N
Y/G → PE

VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DG-20149**

REV.:	DATE:	SIGNATURE:
2_I	20/01/25	G.Randi

ROSETTI MARINO SpA

CROSSWIND

ROSETTI MARINO

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	19/11/24	SAI	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	16/10/24	SAI	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	08/07/24	SAI	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL INTERCONNECTING WIRING DIAGRAM
LIGHTING & SMALL POWER DB BOP

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK | SCALE : 1:X

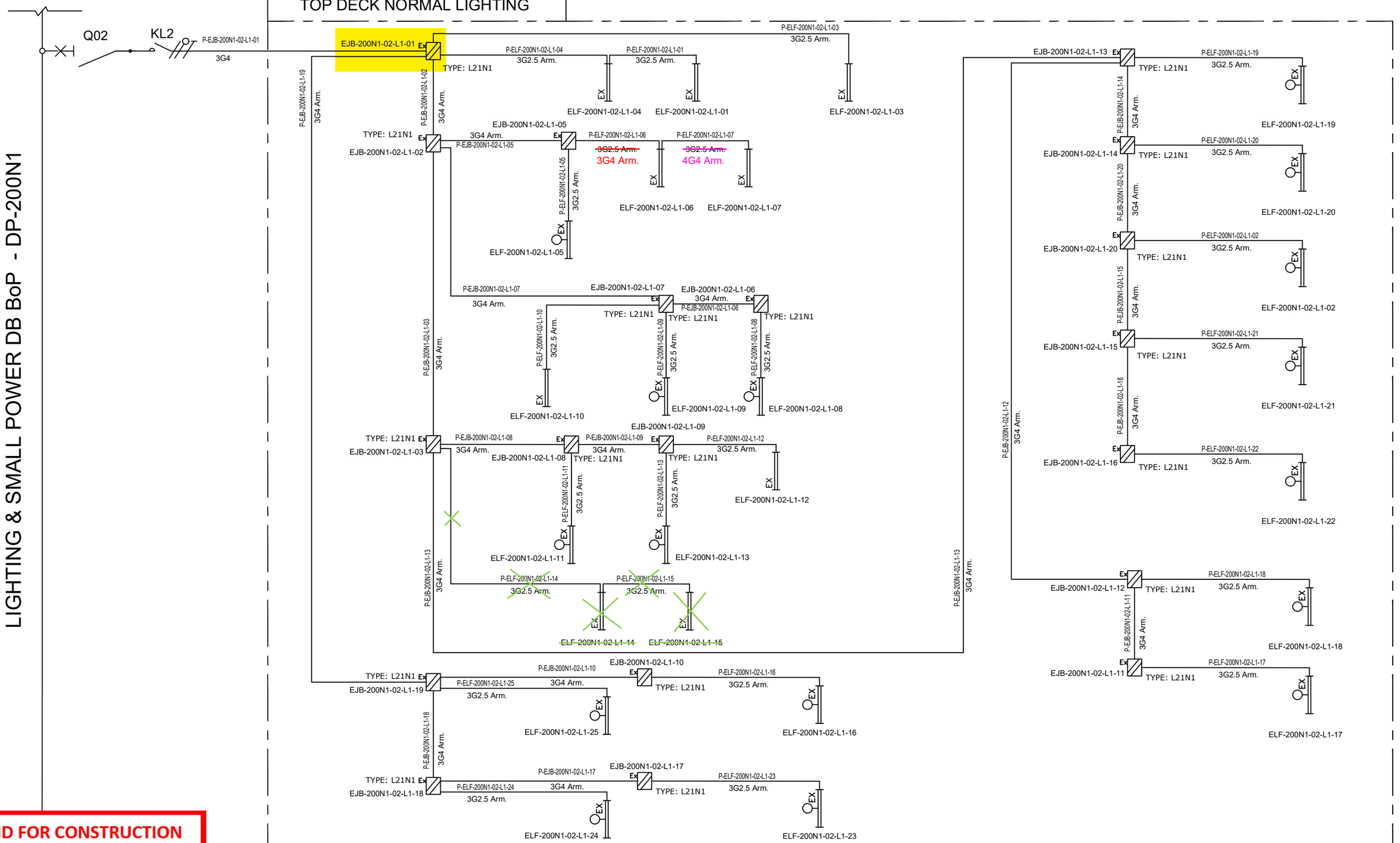
A3 | DRAWING NO. 123A90-DDL-EL-DG-20149 | SHEET 045 | REV. 02

F.to UNI A3: 420mmx297mm

File Name : 123A90-DDL-EL-DG-20149 Rev. 02

LIGHTING & SMALL POWER DB BoP - DP-200N1

TOP DECK NORMAL LIGHTING



VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DG-20125**

REV.:	DATE:	SIGNATURE:
2_G	16/01/25	G.Randi

ROSETTI MARINO SpA

CROSSWIND

ROSETTI MARINO

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	08/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	01/07/24	ASR	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

TITLE : BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET CIRCUIT DIAGRAM
TOP DECK–NORMAL LIGHTING

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE : NTS

A3

DRAWING NO. 123A90–DDL–EL–DG–20125

SHEET 010

REV. 01

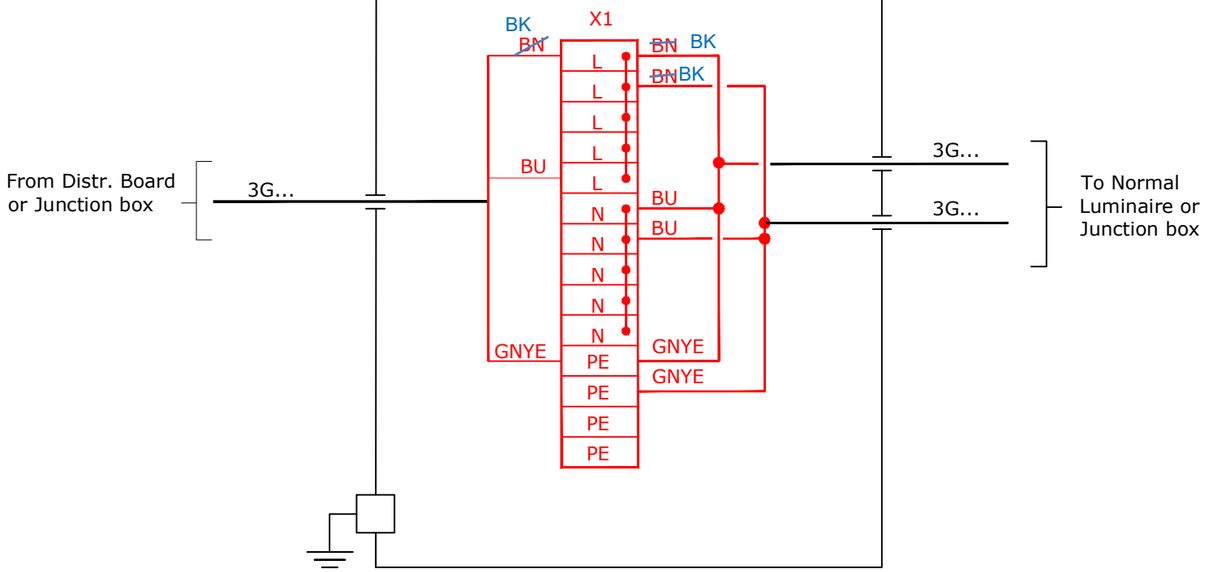
F.to UNI A3: 420mmx297mm

File Name : 123A90–DDL–EL–DG–20125

TYPE : L21N1 & L21N2

ITEM: NORMAL LIGHTING JUNCTION BOX

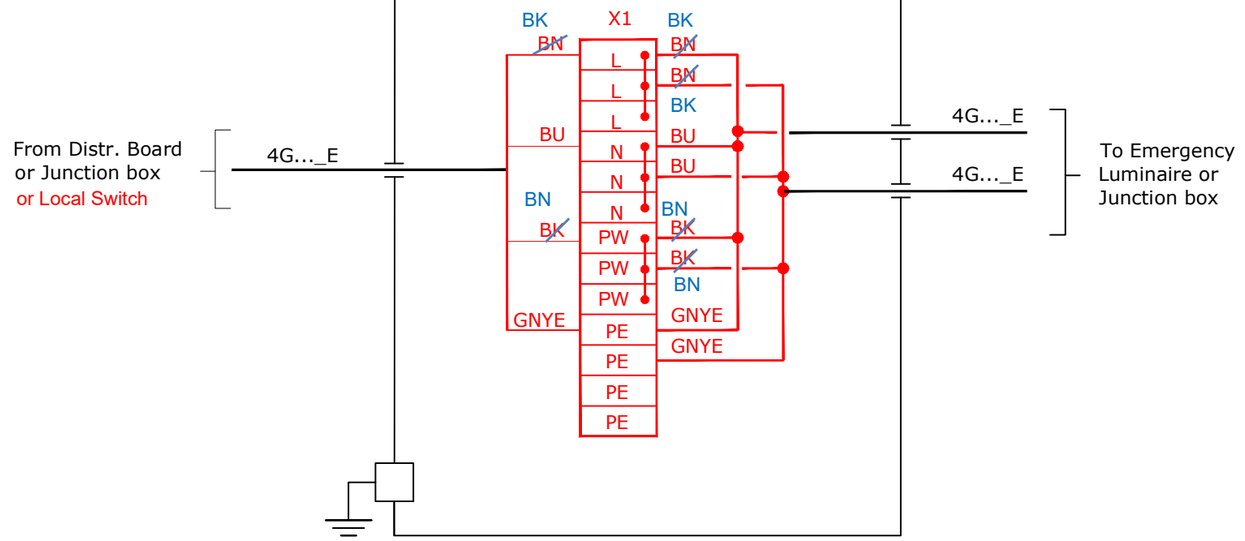
TAG : Typical



TYPE : L21E1 & L21E2

ITEM: EMERGENCY LIGHTING JUNCTION BOX

TAG : Typical



VALID FOR CONSTRUCTION

FDL DWG: **123A90-FDL-EL-DG-20125**

REV.:	DATE:	SIGNATURE:
2_G	16/01/25	G.Randi

ROSETTI MARINO SpA

CROSSWIND

ROSETTI MARINO

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	08/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)

TITLE : BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET CIRCUIT DIAGRAM
TYPICAL JB INTERCONNECTING DIAGRAM

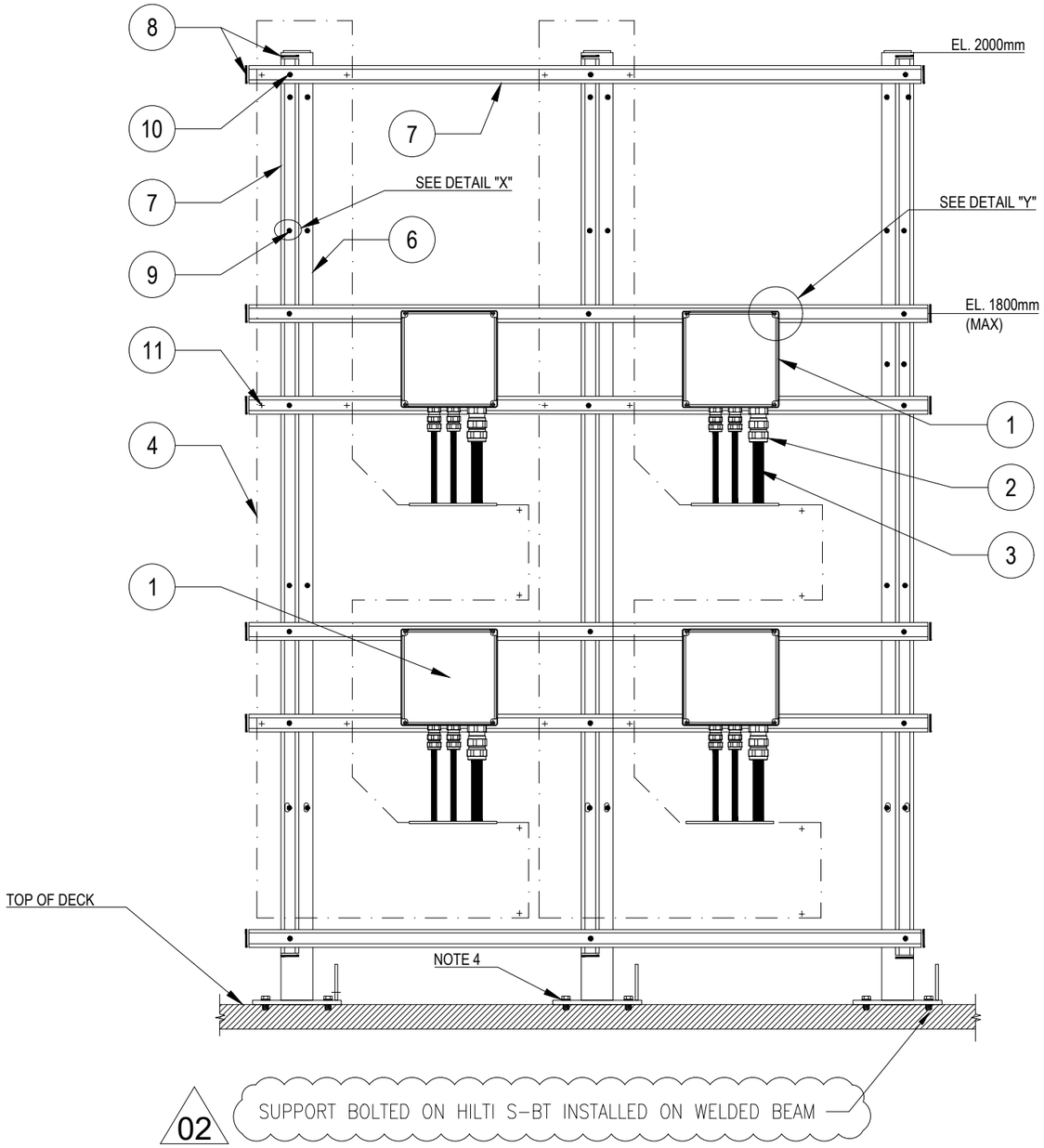
CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK | SCALE : NTS

A3	DRAWING NO.	SHEET	REV.
	123A90-DDL-EL-DG-20125	016	01

F.to UNI A3: 420mmx297mm

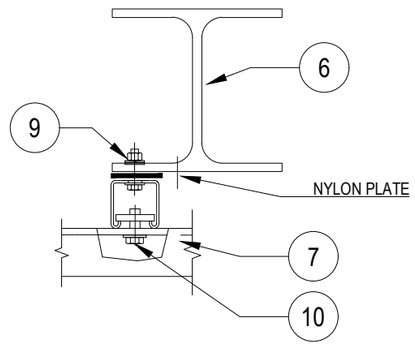
File Name : 123A90-DDL-EL-DG-20125

L21

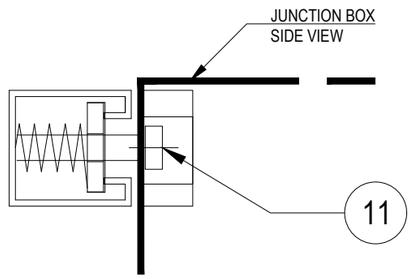


02 SUPPORT BOLTED ON HILTI S-BT INSTALLED ON WELDED BEAM

POS.	DESCRIPTION	MATERIAL	SIZE	Q.TY	NOTE
1	JUNCTION BOX (Ex)	GRP			
2	CABLE GLAND (Ex) FOR ARMOURED/UNARMOURED CABLE	NICK.PL.BRASS			NOTE 2
3	ARMOURED/UNARMOURED CABLE				
4	CABLE LADDER WITH COVER	AISI 316L			
6	PROFILE SUPPORT	PAINTED C.S			
7	SINGLE U-CHANNEL PERFORATED ON NO. 3 SIDE	AISI 316L	41x41x2		NOTE 1
8	PLUG FOR U-CHANNEL	LPDE			
9	HEXAGONAL BOLT M10X40 WITH LARGE PLANE WASHER, NYLON PLANE WASHER, PLANE WASHERS, GROWER SPRING WASHER AND NUT	AISI 316L	M10x40		
10	HEXAGONAL BOLT M12X30 COMPLETE WITH LARGE PLANE WASHER, PLANE WASHER AND NUT FOR U-CHANNEL WITH SPRING	AISI 316L	M12x30		
11	ALLEN KEY BOLT COMPLETE WITH PLANE WASHER, NUT FOR U-CHANNEL WITH SPRING	AISI 316L	M6x30		NOTE 3



DETAIL "X"



DETAIL "Y"

NOTES:

1) THE EXACT DIMENSIONS WILL BE DEFINED DURING ASSEMBLY PHASE.
2) CABLE GLAND COMPLETE WITH LOCKNUT, NYLON WASHER, SERRATED WASHER, EXTERNAL RUBBER RING AND EARTH TAG (IF NECESSARY).
3) FOR INSTRUMENT JUNCTION BOX USE HEXAGONAL BOLT M10X30 COMPLETE WITH PLANE WASHER, GROWER AND NUT FOR U-CHANNEL WITH SPRING
4) SUPPORT BOLTED ON HILTI S-BT INSTALLED ON THE DECK

VALID FOR CONSTRUCTION

REV.:	DATE:	SIGNATURE:
2_B	12/12/24	C.Pilato

ROSETTI MARINO SpA

CROSSWIND

ROSETTI MARINO

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	30/09/24	GRA	AMA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	04/07/24	NLK	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	21/11/23	SPS	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL TYPICAL INSTALLATION DETAILS-LIGHTING SYSTEM
JUNCTION BOXES MOUNTED RACK SUPPORT

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK | SCALE : NTS

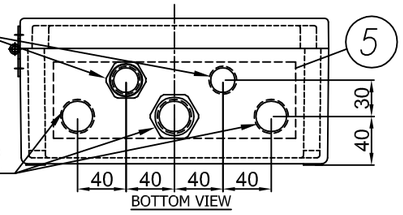
A3 | DRAWING NO. 123A90-DDL-EL-DD-20091 | SHEET 005 | REV. 02

F.to UNI A3: 420mmx297mm

File Name : 123A90-DDL-EL-DD-20091 REV.02.DWG

(10)(4) N°2 PASSING HOLES Ø20.2
C/W N°1 BNK PLUG M20 +
N°1 DUSTPROOF PVC PLUG

(3)(3) N°3 PASSING HOLES Ø25.2
C/W N°1 BNK PLUG M25 +
N°1 DUSTPROOF PVC PLUG



BOTTOM VIEW

(8) I2400722-B015I00029809

TECHNOR ITALSMEA
A COMPANY OF MARECHAL ELECTRIC
Via Italia 33 - 20060 Cassano (MI) ITALY

CE 0080 Ex II 2G II 2D
FIDI 21ATEX 0090X
IECEx FIDI 21.0015X
Year of construction:

MADE IN ITALY

TYPE: AQ-252612P
230VAC 50Hz 20A
Max Dis. P. 6W

Ex eb IIC T6 Gb
Ex tb IIIC T85°C Db
IP66
T.amb. -20/+40°C
Serial Nr.

WARNINGS : DO NOT OPEN WHEN ENERGIZED

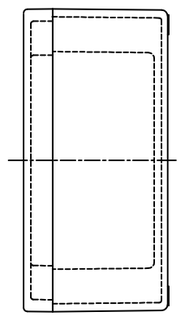
A002MAX

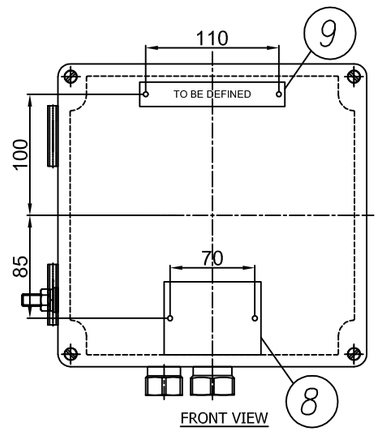
(9) PLATE DETAIL



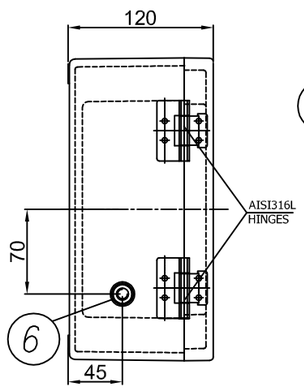
MATERIAL: LAMINATED PLASTIC
BACKGROUND: WHITE
LETTERS: BLACK

(7) JB for Normal Lighting have terminals bridge: L-L-L-L-L, N-N-N-N-N, PE-PE-PE-PE-PE - JB for Emergency Lighting have terminals bridge: L-L-L, N-N-N, PW-PW-PW, PE-PE-PE-PE-PE

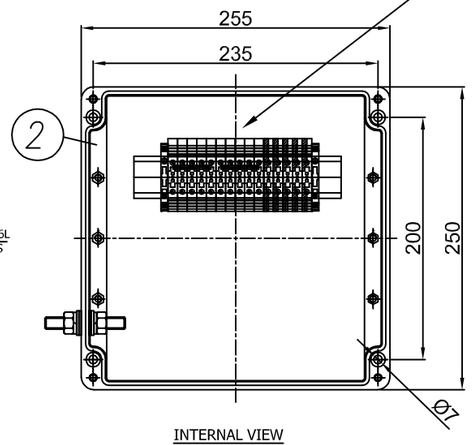

RIGHT VIEW



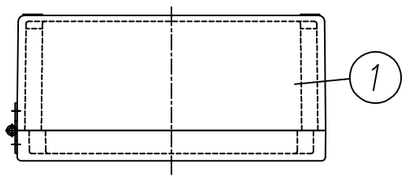
FRONT VIEW



LEFT VIEW



INTERNAL VIEW



TOP VIEW

ITEM	DESCRIPTION	Pcs Q.TY	NOTE/MAT.	CODE	MANUFACTURER
11	DUSTPROOF PVC PLUG Ø25	2	–	.	TECHNOR ITALSMEA
10	DUSTPROOF PVC PLUG Ø20	1	–	.	TECHNOR ITALSMEA
9	LAMINATED PLASTIC TAG 120X20	1	–	.	TECHNOR ITALSMEA
8	AISI316L CERTIFICATE PLATE 80X60	1	–	.	TECHNOR ITALSMEA
7	BEIGE TERMINAL BLOCK SIZE 6 SQMM EARTH TERMINAL BLOCK SIZE 6 SQMM	105	WDU–6 WPE–6	.	WEIDMULLER
6	AISI316L INT/EXT EARTH BOLT M10	1	BTP–10	.	TECHNOR ITALSMEA
5	BRASS CONTINUITY PLATE THK. 0.8 MM	1	–	.	TECHNOR ITALSMEA
4	NICKEL PLATED BRASS PLUG M20	1	T20	.	TECHNOR ITALSMEA
3	NICKEL PLATED BRASS PLUG M25	1	T25	.	TECHNOR ITALSMEA
2	INTERNAL MOUNTING PLATE	1	PS–2526	.	TECHNOR ITALSMEA
1	GRP ENCLOSURE	1	AQ–252612P	.	TECHNOR ITALSMEA

-UNPAINTED (BLACK NATURAL)
Q.TY 92, ITEM 20: 2JBXXGPEE, ELEJB02

Explosion Proof
Electrical Equipment
Materiali Elettrici Antideflagranti

TECHNOR ITALSMEA
A COMPANY OF MARECHAL ELECTRIC

CROSSWIND

ROSETTI MARINO

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
04	26/11/24	FB	OB	OB	ACCEPTED FOR CONSTRUCTION (AFC)
03	25/10/24	FB	OB	OB	ACCEPTED FOR CONSTRUCTION (AFC)
02	12/09/24	FB	OB	OB	ACCEPTED FOR CONSTRUCTION (AFC)
01	03/09/24	FB	OB	OB	ACCEPTED FOR CONSTRUCTION (AFC)
00	30/07/24	FB	OB	OB	ISSUE FOR REVIEW (IFR)

TITLE : BASE LOAD POWER HUB (BLPH)

Junction Box for Normal & Emergency Lighting

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE : NTS

A3

DRAWING NO. 1724001481-EL-DA-00003

SHEET 004

REV. 04

F.to UNI A3: 420mmx297mm

File Name : 1724001481-EL-DA-00003 Rev. 01

ENCLOSURE N°	TAG LIST	NORMAL LIGHTNING	EMERGENCY LIGHTNING
1	EJB-200N1-03-L2-04	X	
2	EJB-200N1-03-L2-03	X	
3	EJB-200N1-03-L2-01	X	
4	EJB-200N1-03-L2-02	X	
5	EJB-200N1-03-L2-12	X	
6	EJB-200N1-03-L2-11	X	
7	EJB-200N1-03-L2-10	X	
8	EJB-200N1-03-L2-09	X	
9	EJB-200N1-03-L2-08	X	
10	EJB-200N1-03-L2-07	X	
11	EJB-200N1-03-L2-06	X	
12	EJB-200N1-03-L2-05	X	
13	EJB-200N1-03-L2-14	X	
14	EJB-200N1-03-L2-13		X
15	EJB-200N1-09-L2-17		X
16	EJB-200N1-09-L2-01		X
17	EJB-200N1-09-L2-04		X
18	SPARE (TO BE PROVIDED BLANK)		X
19	EJB-200N1-09-L2-02		X
20	EJB-200N1-09-L2-15		X
21	EJB-200N1-09-L2-14		X
22	EJB-200N1-09-L2-13		X
23	EJB-200N1-09-L2-12		X
24	EJB-200N1-09-L2-11		X
25	EJB-200N1-09-L2-10		X
26	EJB-200N1-09-L2-09		X
27	EJB-200N1-09-L2-08		X
28	EJB-200N1-09-L2-07		X
29	EJB-200N1-09-L2-06		X
30	EJB-200N1-09-L2-05		X
31	EJB-200N1-09-L2-16	X	
32	EJB-200N1-04-L3-01	X	
33	EJB-200N1-04-L3-02	X	
34	EJB-200N1-10-L3-05		X
35	EJB-200N1-10-L3-06		X
36	EJB-200N1-10-L3-07		X
37	EJB-200N1-10-L3-08		X
38	EJB-200N1-10-L3-09		X
39	EJB-200N1-10-L3-02		X
40	EJB-200N1-10-L3-01		X
41	EJB-200N1-10-L3-03		X
42	EJB-200N1-10-L3-04		X
43	EJB-200N1-02-L1-03	X	
44	EJB-200N1-02-L1-02	X	
45	EJB-200N1-02-L1-01	X	
46	SPARE (TO BE PROVIDED BLANK)	X	
47	EJB-200N1-02-L1-10	X	
48	EJB-200N1-02-L1-19	X	
49	EJB-200N1-02-L1-18	X	

ENCLOSURE N°	TAG LIST	NORMAL LIGHTNING	EMERGENCY LIGHTNING
50	EJB-200N1-02-L1-17	X	
51	EJB-200N1-02-L1-16	X	
52	EJB-200N1-02-L1-15	X	
53	EJB-200N1-02-L1-14	X	
54	EJB-200N1-02-L1-13	X	
55	EJB-200N1-02-L1-12	X	
56	EJB-200N1-02-L1-11	X	
57	EJB-200N1-02-L1-06	X	
58	EJB-200N1-02-L1-05	X	
59	EJB-200N1-02-L1-07	X	
60	EJB-200N1-02-L1-08	X	
61	EJB-200N1-02-L1-09	X	
62	EJB-200N1-08-L1-03		X
63	SPARE (TO BE PROVIDED BLANK)		X
64	EJB-200N1-08-L1-01		X
65	EJB-200N1-08-L1-04		X
66	EJB-200N1-08-L1-19		X
67	EJB-200N1-08-L1-18		X
68	EJB-200N1-08-L1-17		X
69	EJB-200N1-08-L1-16		X
70	EJB-200N1-08-L1-15		X
71	EJB-200N1-08-L1-14		X
72	~~EJB-200N1-08-L1-13~~ EJB-200N1-02-L1-20	X	
73	EJB-200N1-08-L1-12		X
74	EJB-200N1-08-L1-11		X
75	EJB-200N1-08-L1-10		X
76	EJB-200N1-08-L1-20		X
77	EJB-200N1-08-L1-05		X
78	EJB-200N1-08-L1-06		X
79	EJB-200N1-08-L1-07		X
80	EJB-200N1-08-L1-09		X
81	EJB-200N1-08-L1-08		X
82	EJB-200F2-01	X	
83	EJB-200F2-02	X	
84	SPARE (TO BE PROVIDED BLANK)	X	
85	SPARE (TO BE PROVIDED BLANK)	X	
86	SPARE (TO BE PROVIDED BLANK)	X	
87	SPARE (TO BE PROVIDED BLANK)	X	
88	SPARE (TO BE PROVIDED BLANK)	X	
89	SPARE (TO BE PROVIDED BLANK)		X
90	SPARE (TO BE PROVIDED BLANK)		X
91	SPARE (TO BE PROVIDED BLANK)		X
92	SPARE (TO BE PROVIDED BLANK)		X

Q.TY 92, ITEM 20: 2JBXXGPEE, ELEJB02

Explosion Proof
Electrical Equipment
Materiali Elettrici Antideflagranti

TECHNOR ITALSMEA
A COMPANY OF MARECHAL ELECTRIC

CROSSWIND

ROSETTI MARINO

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
04	26/11/24	FB	OB	OB	ACCEPTED FOR CONSTRUCTION (AFC)
03	25/10/24	FB	OB	OB	ACCEPTED FOR CONSTRUCTION (AFC)
02	12/09/24	FB	OB	OB	ACCEPTED FOR CONSTRUCTION (AFC)
01	03/09/24	FB	OB	OB	ACCEPTED FOR CONSTRUCTION (AFC)
00	30/07/24	FB	OB	OB	ISSUE FOR REVIEW (IFR)

TITLE : BASE LOAD POWER HUB (BLPH)

Junction Box for Normal & Emergency Lighting–Tag List

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE : NTS

A3

DRAWING NO. 1724001481-EL-DA-00003

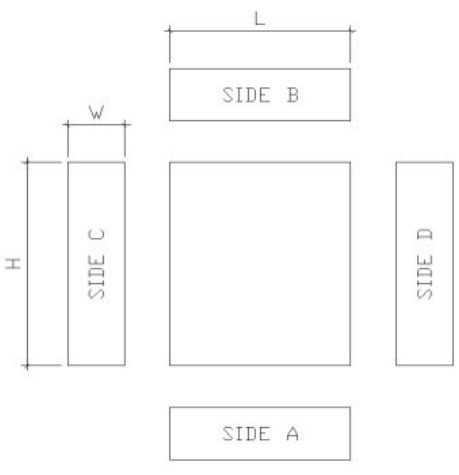
SHEET 005

REV. 04

F.to UNI A3: 420mmx297mm

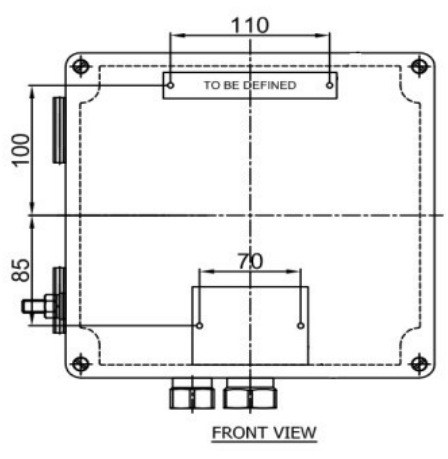
File Name : 1724001481-EL-DA-00003 Rev. 01

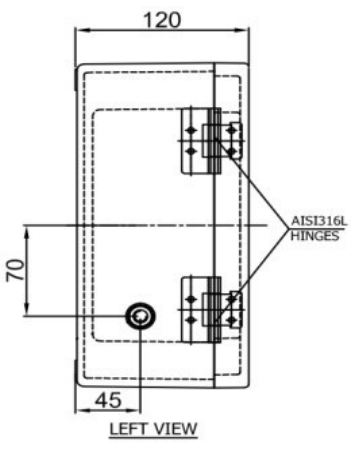
Row	Data Sheet for Control Stations, Junction Boxes and Sockets				Rev.
1	Junction Box for Normal & Emergency Lighting (Exdb)				
2	Item	Required	Manufacturer Proposal	Comments	
3	Model Number	by Vendor	AQ-252612P		01
4	Serial Number	by Vendor	B011041010004		01
5	Quantity	43+5(spare)		(39+9 spare)	01
6	Appkication	Lighting pole JB/Lighting JB			00
7	**Installation area**				
8	Indoor/Outdoor	Outdoor			00
9	Safe Area/Hazardous Area	Hazardous area			00
10	Zone 1/Zone 2	Zone-1			00
11	Temp. Class	Zone 1 Gas Group IIC (or) IIB + H2, T1	Ex eb IIC, T6 Gb		01
12	**Electrical input data**				
13	Voltage	230 V ac	230 V ac		01
14	Number of Phases	1ph + N + PE			00
15	**Material**				
16	Body	GRP	GRP		01
17	Execution	Ex eb	Ex eb		00
18	Protection Degree	IP56	IP 66		01
19	**Accessories**				
20	Hinged Cover	Required	AISI316L Hinges		01
21	Gasket	Required			00
22	Removable Gland Plates	Required	Brass Continuity plate 0.8mm thick		01
23	Internal Mounting Plate	Thickness 3mm threaded		connected to Internal ground bar	00
24	Internal Ground Bar	Required		connected to earth stud	00
25	Earth Stud	Required			00
26	Drainage Valve	Required			00
27	Pad lockable Cover	Required			00
28	Identification Label	Trafolite/ Stainless Steel	Laminated Plastic	for all label	01
29	**Side 'A'**				
30	Hubs Qty.	5	5		01
31	Size	No.3 M25, No.2 M20	No.3 Ø 25.2 mm, No.2 Ø 20.2 mm		01
32	Thread	ISO-M			00
33	Plug	No. 1 M20, No.1 M25	No. 1 Ø 20.2 mm, No.1 Ø 25.2 mm	nickel-plated brass	01
34	**Side 'B'**				
35	Hubs Qty.	Not Required			00
36	Size	NA			00
37	Thread	NA			00
38	**Side 'C'**				
39	Hubs Qty.	Not Required			00
40	Size	NA			00
41	Thread	NA			00
42	**Side 'D'**				
43	Hubs Qty.	Not Required			00
44	Size	NA			00
45	Thread	NA			00
46	**Terminals**				
47	Size [mm^2]	Suitable for 6 Sq.mm & 2.5 Sq.mm Cable	M25 & M20	suitable with wire-end ferrules DIN 46228	01
48	Qty.	n°5 for Ph // n°5 for N // n°5 for PE	n°5 for Ph // n°5 for N // n°5 for PE	Ex - jumpered	01
49	**Bonding Cable (yellow/Green)**				
50	Size [mm^2]	by vendor		6 mm^2	01
51	Qty.	Min. 0.15m			00
52	**Dimension**				
53	Height 'H' [mm]	by vendor	120 mm		01
54	Width 'W' [mm]	by vendor	250 mm		01
55	Length 'L' [mm]	by vendor	255 mm		01
56	Weight [Kg]	by vendor	2.65 Kg		01
57	JB Code (*)	Remarks			
58					



NOTES:

(*) Filled by Vendor





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Its distribution is electronically controlled. Once printed shall be considered as "NOT CONTROLLED" copy

Tag Number	Tag Description	Location	P.O.	Vendor	Manufacturer	Serial Number	Model Type Catalogue Number	Installation Zone	ATEX Certificate Number	Reference Document	ATEX Certification Marking	Notes / Comments	Skid / Package	Electrical Equip.	Barrier Calculation Ref.	Special Conditions of Safe Use Applicable	3D Location
CB-200F4B	AC UPS F&G - Battery Isolator-B	CONTAINER B-300 (LOWER DECK)	1724000372	3W Power	Cortem Spa		EJBC	Zone 1	EPT 20 ATEX 4075X	1724000372-EL-DG-00011	II 2GDEx db IIC T6 Gb Ex tb IIIC T 85°C Db	-	N/A	True	N/A	False	
EAT-200N1-01	Trace Heating - Remote Ambient Thermostat	LOWER DECK	1724001647	nVent	nVent	1244-022663	ETS-05-A2-E-A	Zone 1	Baseefa 13ATEX0137	1724001647-EL-DD-00004	II 2(1)G Ex eb ia mb [ia Ga] IIC T5 Gb - 40ºC ≤ Ta ≤ +60ºC II 2D Ex tb IIIC T100ºC Db	-	N/A	True	N/A	False	
EHT-1001-A	Self-regulating heat cable	LOWER DECK	1724001647	nVent	nVent	469145-000	3BTV2-CT	Zone 1	SGS20ATEX0048X	1724001647-EL-DD-00004	II 2 GD Ex 60079-30-1 eb IIC T6 Gb	-	N/A	True	N/A	True	
EHT-1002-A	Self-regulating heat cable	LOWER DECK	1724001647	nVent	nVent	469145-000	3BTV2-CT	Zone 1	SGS20ATEX0048X	1724001647-EL-DD-00004	II 2 GD Ex 60079-30-1 eb IIC T6 Gb	-	N/A	True	N/A	True	
EHT-1003-A	Self-regulating heat cable	LOWER DECK	1724001647	nVent	nVent	469145-000	3BTV2-CT	Zone 1	SGS20ATEX0048X	1724001647-EL-DD-00004	II 2 GD Ex 60079-30-1 eb IIC T6 Gb	-	N/A	True	N/A	True	
EHT-1004-A	Self-regulating heat cable	UPPER DECK	1724001647	nVent	nVent	469145-000	3BTV2-CT	Zone 1	SGS20ATEX0048X	1724001647-EL-DD-00004	II 2 GD Ex 60079-30-1 eb IIC T6 Gb	-	N/A	True	N/A	True	
EHT-1004-B	Self-regulating heat cable	UPPER DECK	1724001647	nVent	nVent	469145-000	3BTV2-CT	Zone 1	SGS20ATEX0048X	1724001647-EL-DD-00004	II 2 GD Ex 60079-30-1 eb IIC T6 Gb	-	N/A	True	N/A	True	
EHT-1005-A	Self-regulating heat cable	UPPER DECK	1724001647	nVent	nVent	469145-000	3BTV2-CT	Zone 1	SGS20ATEX0048X	1724001647-EL-DD-00004	II 2 GD Ex 60079-30-1 eb IIC T6 Gb	-	N/A	True	N/A	True	
EHT-1006-A	Self-regulating heat cable	UPPER DECK	1724001647	nVent	nVent	469145-000	3BTV2-CT	Zone 1	SGS20ATEX0048X	1724001647-EL-DD-00004	II 2 GD Ex 60079-30-1 eb IIC T6 Gb	-	N/A	True	N/A	True	
EHT-1007-A	Self-regulating heat cable	LOWER DECK	1724001647	nVent	nVent	469145-000	3BTV2-CT	Zone 1	SGS20ATEX0048X	1724001647-EL-DD-00004	II 2 GD Ex 60079-30-1 eb IIC T6 Gb	-	N/A	True	N/A	True	
EHT-2002-A	Self-regulating heat cable	UPPER DECK	1724001647	nVent	nVent	469145-000	3BTV2-CT	Zone 1	SGS20ATEX0048X	1724001647-EL-DD-00004	II 2 GD Ex 60079-30-1 eb IIC T6 Gb	-	N/A	True	N/A	True	
EJB-200F2-01	Top Obstruction Lights Junction Box	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990082	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	HAZARDOUS-AREA_8 HAZARDOUS-AREA_3
EJB-200F2-02	Intermediate obstruction lights junction box	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990083	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	HAZARDOUS-AREA_4
EJB-200N1-02-L1-01	Normal Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990045	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-02-L1-02	Normal Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990044	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-02-L1-03	Normal Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990043	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	HAZARDOUS-AREA_3
EJB-200N1-02-L1-05	Normal Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990058	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-02-L1-06	Normal Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990057	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-02-L1-07	Normal Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990059	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-02-L1-08	Normal Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990060	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-02-L1-09	Normal Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990061	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-02-L1-10	Normal Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990047	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-02-L1-11	Normal Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990056	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-02-L1-12	Normal Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990055	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-02-L1-13	Normal Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990054	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-02-L1-14	Normal Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990053	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-02-L1-15	Normal Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990052	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-02-L1-16	Normal Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990051	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-02-L1-17	Normal Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990050	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-02-L1-18	Normal Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990049	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-02-L1-19	Normal Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990048	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-02-L1-20	Normal Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990072	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-03-L2-01	Normal Lighting JB	LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990003	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-03-L2-02	Normal Lighting JB	LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990004	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-03-L2-03	Normal Lighting JB	LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990002	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-03-L2-04	Normal Lighting JB	LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990001	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-03-L2-05	Normal Lighting JB	LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990012	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-03-L2-06	Normal Lighting JB	LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990011	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-03-L2-07	Normal Lighting JB	LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990010	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-03-L2-08	Normal Lighting JB	LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990009	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-03-L2-09	Normal Lighting JB	LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990008	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-03-L2-10	Normal Lighting JB	LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990007	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-03-L2-11	Normal Lighting JB	LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990006	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-03-L2-12	Normal Lighting JB	LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990005	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-03-L2-13	Normal Lighting JB	LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990014	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-03-L2-14	Normal Lighting JB	LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990013	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-04-L3-01	Stair Normal Lighting JB	LOWER DECK STAIRS	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990032	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-04-L3-02	Stair Normal Lighting JB	LOWER DECK STAIRS	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990033	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-08-L1-01	Emergency Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990064	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-08-L1-03	Emergency Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990062	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	HAZARDOUS-AREA_3
EJB-200N1-08-L1-04	Emergency Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990065	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-08-L1-05	Emergency Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990077	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-08-L1-06	Emergency Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990078	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	

Fiditas
explosion safety solutions

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[1] # EU – TYPE EXAMINATION CERTIFICATE

[2] Equipment or Protective Systems Intended for use in Potentially Explosive Atmospheres Directive 2014/34/EU.

[3] EU-Type Examination Certificate Number: **FIDI 21 ATEX 0090X** Issue: **1**

[4] Product: **Junction boxes, local control stations and local control panels**

Type: **AQ-***P / AQ-***AL / AR-***P / AR-***AL**
AQ-*P-HT / AQ-***AL-HT / AR-***P-HT / AR-***AL-HT**
SB-* / ST-***
EFE-* / EFXE-*** AL / EFXE-***SB / EFXE-***ST**
EFE-*-HT / EFXE-***AL-HT**

[5] Manufacturer: **Technor Italsmea S.p.A.**

[6] Address: **Via Italia 33, 20060 Gessate (MI), Italy**

[7] This product and any acceptable variation thereto is specified in the schedule to this certificate and documents therein referred to.

[8] FIDITAS Ltd., Notified Body number 2829 in accordance with Article 17 of Directive 2014/34/EU of the European Parliament and of the Council, dated 26 February 2014, certifies that this product has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of products intended for use in potentially explosive atmospheres given in Annex II of the Directive.

The examination and test results are recorded in confidential Report No: **FIDI 21 CR 075**

[9] Compliance with the Essential Health and Safety Requirements has been assured by compliance with:

EN IEC 60079-0:2018	**EN 60079-1:2014**	**EN IEC 60079-7:2015 / A1:2018**
EN 60079-11:2012	**EN 60079-18:2015/A1:2017**	**EN 60079-31:2014**

except in respect of those requirements listed at item 18 of the Schedule.

[10] If the sign 'X' is placed after the certificate number, it indicates that the product is subject to Specific Conditions of Use specified in the schedule to this certificate.

[11] This EU-Type Examination Certificate relates only to the design, examination and test of the specified product in accordance with Annex III. Further requirements of the Directive apply to the manufacturing process and supply of this products. These are not covered by this certificate.

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This certificate may only be reproduced in its entirety, without any change, schedule included

[12] The marking of the product shall include the following:



II 1 G	**Ex ia IIC/IIB T6...T4 Ga**(2) or
II 2(1) G or **II 2(2) G**	**Ex db eb ia/ib mb [**(3)**] IIC/IIB T6...T4 Gb**(1) or
II 2 G	**Ex eb IIC/IIB T6...T4 Gb**(1) or
II 2 D	**Ex tb IIIC T85°C...T135°C Db**

(1) Others type of protection additional to 'eb' depending to the components actually mounted.

(2) In case of enclosures containing 'eb' terminals and/or 'ia Ga' already certified components (with compatible marking) only.

(3) Associated equipment protection depending on the components actually mounted (see lists): e.g. [ia/ib/ia Ga/ia IIIC Da] and/or [ia IIIC Da] or [ia/ib/ia Ga/ia IIIC Da] and/or [ia/ib/ia Ga] [ia IIIC Da]

Our ref.: 21.CRT.400

Date: 23. 12.2021.

Fiditas d.o.o. ZAGREB

FIDITAS Ltd.
Certification department
Approved:

Marino Kelava, M.E.Eng.

Fiditas Ltd. Karlovačka cesta 197, 10250 Zagreb-Lučko, Croatia
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[13] **SCHEDULE**

[14] **EU - TYPE EXAMINATION CERTIFICATE No.:** **FIDI 21 ATEX 0090X**

[15] **Description of product**

Junction boxes, local control stations and local control panels are made of 'eb' and 'tb' enclosures in stainless steel, aluminium alloy or glass fiber reinforced polyester resin, of various dimensions, which shall house 'eb' and/or 'ia/ib' terminals and/or Ex components or Ex equipment made in different type of Ex protection. All Ex terminals, Ex components and Ex equipment are covered by their own ATEX certificates.

The terminals and components are be used according to data available in related component certificates, in relevant temperature range, voltage and current limitations. The terminals must be fitted in accordance with EN IEC 60079-0 and EN IEC 60079-7 with regards to creepage and clearance distances, and according to related safety instructions.

The cover is fixed to the body with screw, between body and cover a gasket guarantee the protection degree IP66 (IP66/67 depending on models). The cover of stainless-steel enclosure can be also fixed the body with looking devices, between body and cover a gasket guarantee the protection degree IP66. The IP degree of junction boxes, local control stations and local control panels depend on the components actually mounted. The walls and the bottom of the boxes can be drilled and taped with maximum size and maximum number of holes as specified in the manufacturer documents.

The cable glands or plugs, with separate ATEX certificate, made in type of protection 'eb' and/or 'tb' with appropriate IP protection are mounted according to related manufacturer's installation instructions. Each enclosure is provided with internal earthing certified terminal or earthing screw or bolt. Metal enclosures are provided by external earthing screw or bolt. Metal and polyester enclosures can be provided by passing through earthing terminals.

All enclosures can be provided by:
- Externally installed accessories as specified in manufacturer documents,
- Drain breath device type ECR3, included in this certificate,
- Internal/external earthing plate.

Model identification

Junction boxes

A(1)-(2) (3) (4) (5) (6)	(1) –	**Q**: Square size **R**: Rectangular size
	(2) (3) (4)	dimension, in cm
	(5)	Material **P**: Glass fiber reinforced polyester resin **AL**: Aluminium Alloy
	(6)	None: up to internal temperature of 105°C **HT**: up to internal temperature of 130°C
SB- (2) (3) (4)	(2) (3) (4)	dimension, in cm
ST- (2) (3) (4)	(2) (3) (4)	dimension, in cm

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Panel boards

EFE- (2) (3) (4) (6)	(2) (3) (4)	dimension, in cm
	(6)	None: up to internal temperature of 105°C **HT**: up to internal temperature of 130°C
EFXE- (2) (3) (4) (5) (6)	(2) (3) (4)	dimension, in cm
		Material
	(5)	**SB** or **ST**: stainless steel **AL**: Aluminium Alloy
	(6)	None: up to internal temperature of 105°C **HT**: up to internal temperature of 130°C

Technical data:

Electrical data:	According to Ex component to actually installed
Ambient temperature:	-50°C ÷ +95°C Other possible ranges are with: - min temperature: -50°C to -20 °C - max temperature of +40 °C to +95 °C
Mechanical protection:	IP66/IP67 depending on models IP66 without swing handle element IP55 with swing handle element

Temperature class and/or maximum surface temperature of any junction box or control panel depend on ambient temperature and internal power dissipation. The values that must be observed are given in relevant tables in this certificate.

For commercial reasons model name listed in the tables below can be modified as follows: first (2) and second (3) pair of digits can be reversed.

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Model sizes

Polyester High Temperature		Aluminium High Temperature	
AQ-080806P-HT	EFE-080806-HT	AQ-080806AL-HT	EFXE-080806AL-HT
AQ-080808P-HT	EFE-080808-HT	AR-081306AL-HT	EFXE-081306AL-HT
AR-081106P-HT	EFE-081106-HT	AR-081806AL-HT	EFXE-081806AL-HT
AR-081108P-HT	EFE-081108-HT	AR-082505AL-HT	EFXE-082505AL-HT
AR-081606P-HT	EFE-081606-HT	AQ-101008AL-HT	EFXE-101008AL-HT
AR-081608P-HT	EFE-081608-HT	AR-101608AL-HT	EFXE-101608AL-HT
AR-081906P-HT	EFE-081906-HT	AR-102008AL-HT	EFXE-102008AL-HT
AR-081908P-HT	EFE-081908-HT	AQ-121208AL-HT	EFXE-121208AL-HT
AR-082306P-HT	EFE-082306-HT	AQ-121209AL-HT	EFXE-121209AL-HT
AR-082308P-HT	EFE-082308-HT	AR-122208AL-HT	EFXE-122208AL-HT
AQ-121209P-HT	EFE-121209-HT	AR-122209AL-HT	EFXE-122209AL-HT
AR-122209P-HT	EFE-122209-HT	AR-123608AL-HT	EFXE-123608AL-HT
AQ-161609P-HT	EFE-161609-HT	AQ-141409AL-HT	EFXE-141409AL-HT
AR-162609P-HT	EFE-162609-HT	AR-142009AL-HT	EFXE-142009AL-HT
AR-163609P-HT	EFE-163609-HT	AQ-161609AL-HT	EFXE-161609AL-HT
AR-165609P-HT	EFE-165609-HT	AR-162609AL-HT	EFXE-162609AL-HT
AQ-202017P-HT	EFE-202017-HT	AR-163609AL-HT	EFXE-163609AL-HT
AR-203017P-HT	EFE-203017-HT	AR-165609AL-HT	EFXE-165609AL-HT
AQ-252612P-HT	EFE-252612-HT	AQ-181810AL-HT	EFXE-181810AL-HT
AQ-252616P-HT	EFE-252616-HT	AR-182810AL-HT	EFXE-182810AL-HT
AR-254012P-HT	EFE-254012-HT	AR-102311AL-HT	EFXE-102311AL-HT
AR-254016P-HT	EFE-254016-HT	AR-202311AL-HT	EFXE-202311AL-HT
AR-256012P-HT	EFE-256012-HT	AR-202318AL-HT	EFXE-202318AL-HT
AR-304020P-HT	EFE-304020-HT	AR-232811AL-HT	EFXE-232811AL-HT
AQ-363609P-HT	EFE-363609-HT	AR-233311AL-HT	EFXE-233311AL-HT
AR-406025P-HT	EFE-406025-HT	AR-233318AL-HT	EFXE-233318AL-HT
AQ-414012P-HT	EFE-414012-HT	AR-234011AL-HT	EFXE-234011AL-HT
AQ-414020P-HT	EFE-414020-HT	AR-234023AL-HT	EFXE-234023AL-HT
		AR-236011AL-HT	EFXE-236011AL-HT
		AR-314011AL-HT	EFXE-314011AL-HT
		AR-314014AL-HT	EFXE-314014AL-HT
		AR-314018AL-HT	EFXE-314018AL-HT
		AR-314023AL-HT	EFXE-314023AL-HT
		AR-316011AL-HT	EFXE-316011AL-HT
		AR-316018AL-HT	EFXE-316018AL-HT
		AQ-606020AL-HT	EFXE-606020AL-HT

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Polyester		Aluminium		Stainless steel	
AQ-080806P	EFE-080806	AQ-080806AL	EFXE-080806AL	SB-101210	EFXE-101210SB
AQ-080808P	EFE-080808	AR-081306AL	EFXE-081306AL	SB-151510	EFXE-151510SB
AR-081106P	EFE-081106	AR-081806AL	EFXE-081806AL	SB-142013	EFXE-142013SB
AR-081606P	EFE-081606	AR-081808AL	EFXE-081808AL	SB-202010	EFXE-202010SB
AR-081906P	EFE-081906	AR-082505AL	EFXE-082505AL	SB-202016	EFXE-202016SB
AQ-121209P	EFE-121209	AR-082508AL	EFXE-082508AL	SB-202713	EFXE-202713SB
AR-122209P	EFE-122209	AQ-101008AL	EFXE-101008AL	SB-272713	EFXE-272713SB
AQ-161609P	EFE-161609	AR-101508AL	EFXE-101508AL	SB-203016	EFXE-203016SB
AR-162609P	EFE-162609	AR-101608AL	EFXE-101608AL	SB-273513	EFXE-273513SB
AR-163609P	EFE-163609	AR-102008AL	EFXE-102008AL	SB-282816	EFXE-282816SB
AQ-252612P	EFE-252612	AQ-121208AL	EFXE-121208AL	SB-204016	EFXE-204016SB
AQ-252616P	EFE-252616	AR-122209AL	EFXE-122209AL	SB-353516	EFXE-353516SB
AR-254012P	EFE-254012	AQ-141409AL	EFXE-141409AL	SB-282827	EFXE-282827SB
AR-254016P	EFE-254016	AR-142009AL	EFXE-142009AL	SB-355016	EFXE-355016SB
AR-256012P	EFE-256012	AQ-161609AL	EFXE-161609AL	SB-383816	EFXE-383816SB
AQ-414012P	EFE-414012	AR-162410AL	EFXE-162410AL	SB-384516	EFXE-384516SB
		AR-162609AL	EFXE-162609AL	SB-385716	EFXE-385716SB
		AQ-181810AL	EFXE-181810AL	SB-505016	EFXE-505016SB
		AR-182810AL	EFXE-182810AL	SB-383827	EFXE-383827SB
		AR-202311AL	EFXE-202311AL	SB-575716	EFXE-575716SB
		AR-202318AL	EFXE-202318AL	SB-577620	EFXE-577620SB
		AR-232811AL	EFXE-232811AL	SB-575730	EFXE-575730SB
		AR-233312AL	EFXE-233312AL	SB-769520	EFXE-769520SB
		AR-233318AL	EFXE-233318AL	SB-1258040	EFXE-1258040SB

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Enclosure types (Stainless steel)	
ST-101210	EFXE-101210ST
ST-151510	EFXE-151510ST
ST-142013	EFXE-142013ST
ST-202010	EFXE-202010ST
ST-202016	EFXE-202016ST
ST-202713	EFXE-202713ST
ST-272713	EFXE-272713ST
ST-203016	EFXE-203016ST
ST-273513	EFXE-273513ST
ST-282816	EFXE-282816ST
ST-204016	EFXE-204016ST
ST-353516	EFXE-353516ST
ST-282827	EFXE-282827ST
ST-355016	EFXE-355016ST
ST-383816	EFXE-383816ST
ST-384516	EFXE-384516ST
ST-385716	EFXE-385716ST
ST-505016	EFXE-505016ST
ST-383827	EFXE-383827ST
ST-575716	EFXE-575716ST
ST-577620	EFXE-577620ST
ST-575730	EFXE-575730ST
ST-769520	EFXE-769520ST
ST-1258040	EFXE-1258040ST

Note 2 For stainless steel enclosures: dimensions (2) and (3) can be decreased or increased up to 20%, dimensions (4) can be increased up to 500 mm. Model name changes consequently.

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Power dissipation – HT glass fiber reinforced polyester resin enclosures

Enclosure types (polyester)		Maximum power dissipation (W) – Tamb. up to **40**°C							
		INTERNAL TEMP.60°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)	INTERNAL TEMP.127°C (T4/T135°C)
AQ-080806P-HT	EFE-080806-HT	3,5	5,2	7,0	7,8	9,6	10,4	11,3	15,2
AQ-080808P-HT	EFE-080808-HT	4,6	6,8	9,1	10,2	12,5	13,7	14,8	19,8
AR-081106P-HT	EFE-081106-HT	4,3	6,4	8,5	9,6	11,8	12,8	13,9	18,6
AR-081108P-HT	EFE-081108-HT	5,6	8,4	11,2	12,6	15,3	16,7	18,1	24,2
AR-081606P-HT	EFE-081606-HT	5,8	8,7	11,6	13,0	15,9	17,4	18,8	25.2
AR-081608P-HT	EFE-081608-HT	6,8	10,2	13,7	15,4	18,8	20,5	22,2	29,7
AR-081906P-HT	EFE-081906-HT	6,4	9,6	12,8	14,4	17,6	19,2	20,8	27,8
AR-081908P-HT	EFE-081908-HT	7,5	11,3	15,1	17,0	20,7	22,6	24,5	32,7
AR-082306P-HT	EFE-082306-HT	7,2	10,8	14,4	16,2	19,8	21,6	23,4	31,3
AR-082308P-HT	EFE-082308-HT	8,5	12,7	16,9	19,0	23,3	25,4	27,5	36,7
AQ-121209P-HT	EFE-121209-HT	8,0	12,0	15,9	17,9	21,9	23,9	25,9	34,7
AR-122209P-HT	EFE-122209-HT	10,8	16,2	21,6	24,3	29,7	32,4	35,1	47,0
AQ-161609P-HT	EFE-161609-HT	10,4	15,6	20,8	23,4	28,6	31,2	33,8	45,2
AR-162609P-HT	EFE-162609-HT	13,4	20,1	26,8	30,2	36,9	40,2	43,6	58,3
AR-163609P-HT	EFE-163609-HT	16,2	24,3	32,4	36,5	44,6	48,6	52,7	70,5
AR-165609P-HT	EFE-165609-HT	21,4	32,0	42,7	48,1	58,7	64,1	69,4	92,9
AQ-202017P-HT	EFE-202017-HT	18,0	26,9	35,9	40,4	49,4	53,9	58,4	78,1
AR-203017P-HT	EFE-203017-HT	20,9	31,3	41,7	47,0	57,4	62,6	67,8	90,8
AQ-252612P-HT	EFE-252612-HT	18,8	28,2	37,6	42,4	51,8	56,5	61,2	81,9
AQ-252616P-HT	EFE-252616-HT	20,8	31,1	41,5	46,7	57,1	62,3	67,5	90,3
AR-254012P-HT	EFE-254012-HT	22,8	34,2	45,7	51,4	62,8	68,5	74,2	99,3
AR-254016P-HT	EFE-254016-HT	26,2	39,3	52,4	58,9	72,0	78,6	85,1	113,9
AR-256012P-HT	EFE-256012-HT	29,0	43,6	58,1	65,3	79,9	87,1	94,4	126,3
AR-304020P-HT	EFE-304020-HT	32,3	48,5	64,7	72,7	88,9	97,0	105,1	140,7
AQ-363609P-HT	EFE-363609-HT	23,0	34,6	46,1	51,8	63,4	69,1	74,9	100,2
AR-406025P-HT	EFE-406025-HT	50,3	75,5	100,7	113,3	138,4	151,0	163,6	218,9
AQ-414012P-HT	EFE-414012-HT	29,1	43,7	58,2	65,5	80,1	87,3	94,6	126,6
AQ-414020P-HT	EFE-414020-HT	36,6	55,0	73,3	82,4	100,8	109,9	119,1	159,4

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Enclosure types (polyester)		Maximum power dissipation (W) – Tamb. up to **50**°C							
		INTERNAL TEMP.60°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)	INTERNAL TEMP.127°C (T4/T135°C)
AQ-080806P-HT	EFE-080806-HT	1,7	3,5	5,2	6,1	7,8	8,7	9,6	13,4
AQ-080808P-HT	EFE-080808-HT	2,3	4,6	6,8	8,0	10,2	11,4	12,5	17,5
AR-081106P-HT	EFE-081106-HT	2,1	4,3	6,4	7,5	9,6	10,7	11,8	16,5
AR-081108P-HT	EFE-081108-HT	2,8	5,6	8,4	9,8	12,6	13,9	15,3	21.5
AR-081606P-HT	EFE-081606-HT	2,9	5,8	8,7	10,1	13,0	14,5	15,9	22,3
AR-081608P-HT	EFE-081608-HT	3,4	6,8	10,2	11,9	15,4	17,1	18,8	26,3
AR-081906P-HT	EFE-081906-HT	3,2	6,4	9,6	11,2	14,4	16,0	17,6	24,6
AR-081908P-HT	EFE-081908-HT	3,8	7,5	11,3	13,2	17,0	18,8	20,7	29,0
AR-082306P-HT	EFE-082306-HT	3,6	7,2	10,8	12,6	16,2	18,0	19,8	27,7
AR-082308P-HT	EFE-082308-HT	4,2	8,5	12,7	14,8	19,0	21,1	23,3	32,5
AQ-121209P-HT	EFE-121209-HT	4,0	8,0	12,0	14,0	17,9	19,9	21,9	30,7
AR-122209P-HT	EFE-122209-HT	5,4	10,8	16,2	18,9	24,3	27,0	29,7	41,6
AQ-161609P-HT	EFE-161609-HT	5,2	10,4	15,6	18,2	23,4	26,0	28,6	40,0
AR-162609P-HT	EFE-162609-HT	6,7	13,4	20,1	23,5	30,2	33,5	36,9	51,6
AR-163609P-HT	EFE-163609-HT	8,1	16,2	24,3	28,4	36,5	40,5	44,6	62,3
AR-165609P-HT	EFE-165609-HT	10,7	21,4	32,0	37,4	48,1	53,4	58,7	82,2
AQ-202017P-HT	EFE-202017-HT	9,0	18,0	26,9	31,4	40,4	44,9	49,4	69,1
AR-203017P-HT	EFE-203017-HT	10,4	20,9	31,3	36,5	47,0	52,2	57,4	80,4
AQ-252612P-HT	EFE-252612-HT	9,4	18,8	28,2	32,9	42,4	47,1	51,8	72,5
AQ-252616P-HT	EFE-252616-HT	10,4	20,8	31,1	36,3	46,7	51,9	57,1	79,9
AR-254012P-HT	EFE-254012-HT	11,4	22,8	34,2	39,9	51,4	57,1	62,8	87,9
AR-254016P-HT	EFE-254016-HT	13,1	26,2	39,3	45,8	58,9	65,5	72,0	100,8
AR-256012P-HT	EFE-256012-HT	14,5	29,0	43,6	50,8	65,3	72,6	79,9	111,8
AR-304020P-HT	EFE-304020-HT	16,2	32,3	48,5	56,6	72,7	80,8	88,9	124,4
AQ-363609P-HT	EFE-363609-HT	11,5	23,0	34,6	40,3	51,8	57,6	63,4	88,7
AR-406025P-HT	EFE-406025-HT	25,2	50,3	75,5	88,1	113,3	125,8	138,4	193,8
AQ-414012P-HT	EFE-414012-HT	14,6	29,1	43,7	51,0	65,5	72,8	80,1	112,1
AQ-414020P-HT	EFE-414020-HT	18,3	36,6	55,0	64,1	82,4	91,6	100,8	141,1

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Enclosure types (polyester)		Maximum power dissipation (W) – Tamb. up to **55**°C							
		INTERNAL TEMP.65°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)	INTERNAL TEMP.127°C (T4/T135°C)
AQ-080806P-HT	EFE-080806-HT	1,7	2,6	4,4	5,2	7,0	7,8	8,7	12,5
AQ-080808P-HT	EFE-080808-HT	2,3	3,4	5,7	6,8	9,1	10,2	11,4	16,2
AR-081106P-HT	EFE-081106-HT	2,1	3,2	5,3	6,4	8,5	9,6	10,7	15,2
AR-081108P-HT	EFE-081108-HT	2,8	4,2	7,0	8,4	11,2	12,6	13,9	19,8
AR-081606P-HT	EFE-081606-HT	2,9	4,3	7,2	8,7	11,6	13,0	14,5	20,6
AR-081608P-HT	EFE-081608-HT	3,4	5,1	8,5	10,2	13,7	15,4	17,1	24,3
AR-081906P-HT	EFE-081906-HT	3,2	4,8	8,0	9,6	12,8	14,4	16,0	22,8
AR-081908P-HT	EFE-081908-HT	3,8	5,7	9,4	11,3	15,1	17,0	18,8	26,8
AR-082306P-HT	EFE-082306-HT	3,6	5,4	9,0	10,8	14,4	16,2	18,0	25,6
AR-082308P-HT	EFE-082308-HT	4,2	6,3	10,6	12,7	16,9	19,0	21,1	30,0
AQ-121209P-HT	EFE-121209-HT	4,0	6,0	10,0	12,0	15,9	17,9	19,9	28,3
AR-122209P-HT	EFE-122209-HT	5,4	8,1	13,5	16,2	21,6	24,3	27,0	38,3
AQ-161609P-HT	EFE-161609-HT	5,2	7,8	13,0	15,6	20,8	23,4	26,0	36,9
AR-162609P-HT	EFE-162609-HT	6,7	10,1	16,8	20,1	26,8	30,2	33,5	47,6
AR-163609P-HT	EFE-163609-HT	8,1	12,2	20,3	24,3	32,4	36,5	40,5	57,5
AR-165609P-HT	EFE-165609-HT	10,7	16,0	26,7	32,0	42,7	48,1	53,4	75,8
AQ-202017P-HT	EFE-202017-HT	9,0	13,5	22,4	26,9	35,9	40,4	44,9	63,7
AR-203017P-HT	EFE-203017-HT	10,4	15,7	26,1	31,3	41,7	47,0	52,2	74,0
AQ-252612P-HT	EFE-252612-HT	9,4	14,1	23,5	28,2	37,6	42,4	47,1	66,8
AQ-252616P-HT	EFE-252616-HT	10,4	15,6	26,0	31,1	41,5	46,7	51,9	73,7
AR-254012P-HT	EFE-254012-HT	11,4	17,1	28,5	34,2	45,7	51,4	57,1	81,0
AR-254016P-HT	EFE-254016-HT	13,1	19,6	32,7	39,3	52,4	58,9	65,5	92,9
AR-256012P-HT	EFE-256012-HT	14,5	21,8	36,3	43,6	58,1	65,3	72,6	103,0
AR-304020P-HT	EFE-304020-HT	16,2	24,2	40,4	48,5	64,7	72,7	80,8	114,7
AQ-363609P-HT	EFE-363609-HT	11,5	17,3	28,8	34,6	46,1	51,8	57,6	81,8
AR-406025P-HT	EFE-406025-HT	25,2	37,8	62,9	75,5	100,7	113,3	125,8	178,6
AQ-414012P-HT	EFE-414012-HT	14,6	21,8	36,4	43,7	58,2	65,5	72,8	103,0
AQ-414020P-HT	EFE-414020-HT	18,3	27,5	45,8	55,0	73,3	82,4	91,6	130,0

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Enclosure types (polyester)		Maximum power dissipation (W) – Tamb. up to **60**°C						
		INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)	INTERNAL TEMP.127°C (T4/T135°C)
AQ-080806P-HT	EFE-080806-HT	1,7	3,5	4,4	6,1	7,0	7,8	11,7
AQ-080808P-HT	EFE-080808-HT	2,3	4,6	5,7	8,0	9,1	10,2	15,2
AR-081106P-HT	EFE-081106-HT	2,1	4,3	5,3	7,5	8,5	9,6	14,3
AR-081108P-HT	EFE-081108-HT	2,8	5,6	7,0	9,8	11,2	12,6	18,7
AR-081606P-HT	EFE-081606-HT	2,9	5,8	7,2	10,1	11,6	13,0	19,4
AR-081608P-HT	EFE-081608-HT	3,4	6,8	8,5	11,9	13,7	15,4	22,9
AR-081906P-HT	EFE-081906-HT	3,2	6,4	8,0	11,2	12,8	14,4	21,4
AR-081908P-HT	EFE-081908-HT	3,8	7,5	9,4	13,2	15,1	17,0	25,3
AR-082306P-HT	EFE-082306-HT	3,6	7,2	9,0	12,6	14,4	16,2	24,1
AR-082308P-HT	EFE-082308-HT	4,2	8,5	10,6	14,8	16,9	19,0	28,3
AQ-121209P-HT	EFE-121209-HT	4,0	8,0	10,0	14,0	15,9	17,9	26,7
AR-122209P-HT	EFE-122209-HT	5,4	10,8	13,5	18,9	21,6	24,3	36,2
AQ-161609P-HT	EFE-161609-HT	5,2	10,4	13,0	18,2	20,8	23,4	34,8
AR-162609P-HT	EFE-162609-HT	6,7	13,4	16,8	23,5	26,8	30,2	44,9
AR-163609P-HT	EFE-163609-HT	8,1	16,2	20,3	28,4	32,4	36,5	54,2
AR-165609P-HT	EFE-165609-HT	10,7	21,4	26,7	37,4	42,7	48,1	71,5
AQ-202017P-HT	EFE-202017-HT	9,0	18,0	22,4	31,4	35,9	40,4	60,1
AR-203017P-HT	EFE-203017-HT	10,4	20,9	26,1	36,5	41,7	47,0	69,9
AQ-252612P-HT	EFE-252612-HT	9,4	18,8	23,5	32,9	37,6	42,4	63,0
AQ-252616P-HT	EFE-252616-HT	10,4	20,8	26,0	36,3	41,5	46,7	69,5
AR-254012P-HT	EFE-254012-HT	11,4	22,8	28,5	39,9	45,7	51,4	76,5
AR-254016P-HT	EFE-254016-HT	13,1	26,2	32,7	45,8	52,4	58,9	87,7
AR-256012P-HT	EFE-256012-HT	14,5	29,0	36,3	50,8	58,1	65,3	97,2
AR-304020P-HT	EFE-304020-HT	16,2	32,3	40,4	56,6	64,7	72,7	108,3
AQ-363609P-HT	EFE-363609-HT	11,5	23,0	28,8	40,3	46,1	51,8	77,1
AR-406025P-HT	EFE-406025-HT	25,2	50,3	62,9	88,1	100,7	113,3	168,7
AQ-414012P-HT	EFE-414012-HT	14,6	29,1	36,4	51,0	58,2	65,5	97,5
AQ-414020P-HT	EFE-414020-HT	18,3	36,6	45,8	64,1	73,3	82,4	122,7

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Enclosure types (polyester)		Maximum power dissipation (W) Tamb. up to **95**°C		
		INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)	INTERNAL TEMP.127°C (T4/T135°C)
AQ-080806P-HT	EFE-080806-HT	0,9	1,7	5,6
AQ-080808P-HT	EFE-080808-HT	1,1	2,3	7,3
AR-081106P-HT	EFE-081106-HT	1,1	2,1	6,5
AR-081108P-HT	EFE-081108-HT	1,4	2,8	9,0
AR-081606P-HT	EFE-081606-HT	1,4	2,9	9,2
AR-081608P-HT	EFE-081608-HT	1,7	3,4	10,9
AR-081906P-HT	EFE-081906-HT	1,6	3,2	10,2
AR-081908P-HT	EFE-081908-HT	1,9	3,8	12,1
AR-082306P-HT	EFE-082306-HT	1,8	3,6	11,5
AR-082308P-HT	EFE-082308-HT	2,1	4,2	13,5
AQ-121209P-HT	EFE-121209-HT	2,0	4,0	12,8
AR-122209P-HT	EFE-122209-HT	2,7	5,4	17,3
AQ-161609P-HT	EFE-161609-HT	2,6	5,2	16,6
AR-162609P-HT	EFE-162609-HT	3,4	6,7	21,5
AR-163609P-HT	EFE-163609-HT	4,1	8,1	26,0
AR-165609P-HT	EFE-165609-HT	5,3	10,7	34,2
AQ-202017P-HT	EFE-202017-HT	4,5	9,0	28,7
AR-203017P-HT	EFE-203017-HT	5,2	10,4	33,4
AQ-252612P-HT	EFE-252612-HT	4,7	9,4	30,1
AQ-252616P-HT	EFE-252616-HT	5,2	10,4	33,2
AR-254012P-HT	EFE-254012-HT	5,7	11,4	36,5
AR-254016P-HT	EFE-254016-HT	6,5	13,1	41,9
AR-256012P-HT	EFE-256012-HT	7,3	14,5	46,4
AR-304020P-HT	EFE-304020-HT	8,1	16,2	51,8
AQ-363609P-HT	EFE-363609-HT	5,8	11,5	36,8
AR-406025P-HT	EFE-406025-HT	12,6	25,2	80,6
AQ-414012P-HT	EFE-414012-HT	7,3	14,6	46,6
AQ-414020P-HT	EFE-414020-HT	9,2	18,3	58,6

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Power dissipation – HT aluminum alloy enclosures

Enclosure types (aluminium)		Maximum power dissipation (W) – Tamb. up to **40**°C							
		INTERNAL TEMP.60°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)	INTERNAL TEMP.130°C (T4/T135°C)
AQ-080806AL-HT	EFXE-080806AL-HT	5,2	7,8	10,4	11,7	14,3	15,6	16,9	23,4
AR-081306AL-HT	EFXE-081306AL-HT	7,0	10,6	14,1	15,9	19,4	21,2	23,0	31,8
AR-081806AL-HT	EFXE-081806AL-HT	8,9	13,3	17,8	20,0	24,5	26,7	28,9	40,0
AR-082505AL-HT	EFXE-082505AL-HT	10,9	16,4	21,9	24,7	30,1	32,9	35,6	49,4
AQ-101008AL-HT	EFXE-101008AL-HT	8,7	13,0	17,4	19,6	23,9	26,1	28,3	39,2
AR-101608AL-HT	EFXE-101608AL-HT	11,5	17,3	23,1	26,0	31,8	34,7	37,6	52,0
AR-102008AL-HT	EFXE-102008AL-HT	13,4	20,1	26,8	30,2	36,9	40,3	43,6	60,4
AQ-121208AL-HT	EFXE-121208AL-HT	10,8	16,2	21,6	24,3	29,7	32,4	35,1	48,6
AQ-121209AL-HT	EFXE-121209AL-HT	11,6	17,5	23,3	26,2	32,1	35,0	37,9	52,5
AR-122208AL-HT	EFXE-122208AL-HT	15,6	23,5	31,3	35,3	43,1	47,0	50,9	70,6
AR-122209AL-HT	EFXE-122209AL-HT	16,8	25,3	33,7	37,9	46,3	50,6	54,8	75,9
AR-123608AL-HT	EFXE-123608AL-HT	22,3	33,5	44,7	50,3	61,5	67,1	72,7	100,7
AQ-141409AL-HT	EFXE-141409AL-HT	13,7	20,6	27,5	31,0	37,9	41,3	44,8	62,0
AR-142009AL-HT	EFXE-142009AL-HT	17,1	25,7	34,2	38,5	47,1	51,4	55,7	77,1
AQ-161609AL-HT	EFXE-161609AL-HT	16,1	24,1	32,2	36,2	44,2	48,3	52,3	72,4
AR-162609AL-HT	EFXE-162609AL-HT	21,9	32,8	43,8	49,3	60,2	65,7	71,2	98,6
AR-163609AL-HT	EFXE-163609AL-HT	27,5	41,3	55,1	62,0	75,7	82,6	89,5	124,0
AR-165609AL-HT	EFXE-165609AL-HT	38,4	57,7	76,9	86,6	105,8	115,4	125,0	173,2
AQ-181810AL-HT	EFXE-181810AL-HT	19,7	29,6	39,5	44,4	54,3	59,2	64,2	88,8
AR-182810AL-HT	EFXE-182810AL-HT	26,1	39,1	52,2	58,7	71,8	78,3	84,8	117,5
AR-102311AL-HT	EFXE-102311AL-HT	18,2	27,3	36,5	41,0	50,1	54,7	59,3	82,1
AR-202311AL-HT	EFXE-202311AL-HT	26,1	39,1	52,2	58,7	71,7	78,3	84,8	117,4
AR-202318AL-HT	EFXE-202318AL-HT	35,9	53,9	71,8	80,8	98,8	107,8	116,8	161,7
AR-232811AL-HT	EFXE-232811AL-HT	31,6	47,5	63,3	71,3	87,1	95,0	103,0	142,6
AR-233311AL-HT	EFXE-233311AL-HT	35,3	52,9	70,6	79,4	97,0	105,9	114,7	158,8
AR-233318AL-HT	EFXE-233318AL-HT	47,5	71,3	95,1	107,0	130,8	142,7	154,6	214,1
AR-234011AL-HT	EFXE-234011AL-HT	40,2	60,4	80,5	90,6	110,7	120,8	130,9	181,2
AR-234023AL-HT	EFXE-234023AL-HT	62,2	93,3	124,5	140,0	171,2	186,7	202,3	280,1
AR-236011AL-HT	EFXE-236011AL-HT	54,1	81,2	108,3	121,9	148,9	162,5	176,0	243,8
AR-314011AL-HT	EFXE-314011AL-HT	48,6	72,9	97,2	109,3	133,6	145,8	157,9	218,7
AR-314014AL-HT	EFXE-314014AL-HT	54,9	82,4	109,9	123,7	151,2	164,9	178,7	247,4
AR-314018AL-HT	EFXE-314018AL-HT	63,8	95,7	127,6	143,5	175,4	191,4	207,3	287,1
AR-314023AL-HT	EFXE-314023AL-HT	73,5	110,3	147,1	165,5	202,3	220,7	239,1	331,0
AR-316011AL-HT	EFXE-316011AL-HT	64,0	96,0	128,1	144,1	176,1	192,1	208,1	288,2
AR-316018AL-HT	EFXE-316018AL-HT	82,7	124,1	165,5	186,2	227,6	248,3	268,9	372,4
AQ-606020AL-HT	EFXE-606020AL-HT	129,1	193,7	258,3	290,5	355,1	387,4	419,7	581,1

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Enclosure types (aluminium)		Maximum power dissipation (W) – Tamb. up to **50**°C							
		INTERNAL TEMP.60°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)	INTERNAL TEMP.130°C (T4/T135°C)
AQ-080806AL-HT	EFXE-080806AL-HT	2,6	5,2	7,8	9,1	11,7	13,0	14,3	20,8
AR-081306AL-HT	EFXE-081306AL-HT	3,5	7,0	10,6	12,3	15,9	17,7	19,4	28,3
AR-081806AL-HT	EFXE-081806AL-HT	4,4	8,9	13,3	15,5	20,0	22,2	24,5	35,6
AR-082505AL-HT	EFXE-082505AL-HT	5,4	10,9	16,4	19,2	24,7	27,4	30,1	43,9
AQ-101008AL-HT	EFXE-101008AL-HT	4,3	8,7	13,0	15,2	19,6	21,7	23,9	34,8
AR-101608AL-HT	EFXE-101608AL-HT	5,7	11,5	17,3	20,2	26,0	28,9	31,8	46,2
AR-102008AL-HT	EFXE-102008AL-HT	6,7	13,4	20,1	23,5	30,2	33,5	36,9	53,7
AQ-121208AL-HT	EFXE-121208AL-HT	5,4	10,8	16,2	18,9	24,3	27,0	29,7	43,2
AQ-121209AL-HT	EFXE-121209AL-HT	5,8	11,6	17,5	20,4	26,2	29,2	32,1	46,7
AR-122208AL-HT	EFXE-122208AL-HT	7,8	15,6	23,5	27,4	35,3	39,2	43,1	62,7
AR-122209AL-HT	EFXE-122209AL-HT	8,4	16,8	25,3	29,5	37,9	42,1	46,3	67,4
AR-123608AL-HT	EFXE-123608AL-HT	11,1	22,3	33,5	39,1	50,3	55,9	61,5	89,5
AQ-141409AL-HT	EFXE-141409AL-HT	6,8	13,7	20,6	24,1	31,0	34,4	37,9	55,1
AR-142009AL-HT	EFXE-142009AL-HT	8,5	17,1	25,7	30,0	38,5	42,8	47,1	68,5
AQ-161609AL-HT	EFXE-161609AL-HT	8,0	16,1	24,1	28,1	36,2	40,2	44,2	64,4
AR-162609AL-HT	EFXE-162609AL-HT	10,9	21,9	32,8	38,3	49,3	54,8	60,2	87,6
AR-163609AL-HT	EFXE-163609AL-HT	13,7	27,5	41,3	48,2	62,0	68,9	75,7	110,2
AR-165609AL-HT	EFXE-165609AL-HT	19,2	38,4	57,7	67,3	86,6	96,2	105,8	153,9
AQ-181810AL-HT	EFXE-181810AL-HT	9,8	19,7	29,6	34,5	44,4	49,3	54,3	79,0
AR-182810AL-HT	EFXE-182810AL-HT	13,0	26,1	39,1	45,7	58,7	65,2	71,8	104,4
AR-102311AL-HT	EFXE-102311AL-HT	9,1	18,2	27,3	31,9	41,0	45,6	50,1	73,0
AR-202311AL-HT	EFXE-202311AL-HT	13,0	26,1	39,1	45,6	58,7	65,2	71,7	104,4
AR-202318AL-HT	EFXE-202318AL-HT	17,9	35,9	53,9	62,8	80,8	89,8	98,8	143,7
AR-232811AL-HT	EFXE-232811AL-HT	15,8	31,6	47,5	55,4	71,3	79,2	87,1	126,7
AR-233311AL-HT	EFXE-233311AL-HT	17,6	35,3	52,9	61,7	79,4	88,2	97,0	141,2
AR-233318AL-HT	EFXE-233318AL-HT	23,7	47,5	71,3	83,2	107,0	118,9	130,8	190,3
AR-234011AL-HT	EFXE-234011AL-HT	20,1	40,2	60,4	70,5	90,6	100,7	110,7	161,1
AR-234023AL-HT	EFXE-234023AL-HT	31,1	62,2	93,3	108,9	140,0	155,6	171,2	249,0
AR-236011AL-HT	EFXE-236011AL-HT	27,0	54,1	81,2	94,8	121,9	135,4	148,9	216,7
AR-314011AL-HT	EFXE-314011AL-HT	24,3	48,6	72,9	85,0	109,3	121,5	133,6	194,4
AR-314014AL-HT	EFXE-314014AL-HT	27,4	54,9	82,4	96,2	123,7	137,4	151,2	219,9
AR-314018AL-HT	EFXE-314018AL-HT	31,9	63,8	95,7	111,6	143,5	159,5	175,4	255,2
AR-314023AL-HT	EFXE-314023AL-HT	36,7	73,5	110,3	128,7	165,5	183,9	202,3	294,2
AR-316011AL-HT	EFXE-316011AL-HT	32,0	64,0	96,0	112,0	144,1	160,1	176,1	256,2
AR-316018AL-HT	EFXE-316018AL-HT	41,3	82,7	124,1	144,8	186,2	206,9	227,6	331,0
AQ-606020AL-HT	EFXE-606020AL-HT	64,5	129,1	193,7	226,0	290,5	322,8	355,1	516,6

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Enclosure types (aluminium)		Maximum power dissipation (W) – Tamb. up to **55**°C							
		INTERNAL TEMP.65°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)	INTERNAL TEMP.130°C (T4/T135°C)
AQ-080806AL-HT	EFXE-080806AL-HT	2,6	3,9	6,5	7,8	10,4	11,7	13,0	19,5
AR-081306AL-HT	EFXE-081306AL-HT	3,5	5,3	8,8	10,6	14,1	15,9	17,7	26,5
AR-081806AL-HT	EFXE-081806AL-HT	4,4	6,6	11,1	13,3	17,8	20,0	22,2	33,4
AR-082505AL-HT	EFXE-082505AL-HT	5,4	8,2	13,7	16,4	21,9	24,7	27,4	41,1
AQ-101008AL-HT	EFXE-101008AL-HT	4,3	6,5	10,8	13,0	17,4	19,6	21,7	32,6
AR-101608AL-HT	EFXE-101608AL-HT	5,7	8,6	14,4	17,3	23,1	26,0	28,9	43,3
AR-102008AL-HT	EFXE-102008AL-HT	6,7	10,0	16,7	20,1	26,8	30,2	33,5	50,3
AQ-121208AL-HT	EFXE-121208AL-HT	5,4	8,1	13,5	16,2	21,6	24,3	27,0	40,5
AQ-121209AL-HT	EFXE-121209AL-HT	5,8	8,7	14,6	17,5	23,3	26,2	29,2	43,8
AR-122208AL-HT	EFXE-122208AL-HT	7,8	11,7	19,6	23,5	31,3	35,3	39,2	58,8
AR-122209AL-HT	EFXE-122209AL-HT	8,4	12,6	21,0	25,3	33,7	37,9	42,1	63,2
AR-123608AL-HT	EFXE-123608AL-HT	11,1	16,7	27,9	33,5	44,7	50,3	55,9	83,9
AQ-141409AL-HT	EFXE-141409AL-HT	6,8	10,3	17,2	20,6	27,5	31,0	34,4	51,7
AR-142009AL-HT	EFXE-142009AL-HT	8,5	12,8	21,4	25,7	34,2	38,5	42,8	64,3
AQ-161609AL-HT	EFXE-161609AL-HT	8,0	12,0	20,1	24,1	32,2	36,2	40,2	60,4
AR-162609AL-HT	EFXE-162609AL-HT	10,9	16,4	27,4	32,8	43,8	49,3	54,8	82,2
AR-163609AL-HT	EFXE-163609AL-HT	13,7	20,6	34,4	41,3	55,1	62,0	68,9	103,3
AR-165609AL-HT	EFXE-165609AL-HT	19,2	28,8	48,1	57,7	76,9	86,6	96,2	144,3
AQ-181810AL-HT	EFXE-181810AL-HT	9,8	14,8	24,6	29,6	39,5	44,4	49,3	74,0
AR-182810AL-HT	EFXE-182810AL-HT	13,0	19,5	32,6	39,1	52,2	58,7	65,2	97,9
AR-102311AL-HT	EFXE-102311AL-HT	9,1	13,6	22,8	27,3	36,5	41,0	45,6	68,4
AR-202311AL-HT	EFXE-202311AL-HT	13,0	19,5	32,6	39,1	52,2	58,7	65,2	97,9
AR-202318AL-HT	EFXE-202318AL-HT	17,9	26,9	44,9	53,9	71,8	80,8	89,8	134,7
AR-232811AL-HT	EFXE-232811AL-HT	15,8	23,7	39,6	47,5	63,3	71,3	79,2	118,8
AR-233311AL-HT	EFXE-233311AL-HT	17,6	26,4	44,1	52,9	70,6	79,4	88,2	132,3
AR-233318AL-HT	EFXE-233318AL-HT	23,7	35,6	59,4	71,3	95,1	107,0	118,9	178,4
AR-234011AL-HT	EFXE-234011AL-HT	20,1	30,2	50,3	60,4	80,5	90,6	100,7	151,0
AR-234023AL-HT	EFXE-234023AL-HT	31,1	46,6	77,8	93,3	124,5	140,0	155,6	233,4
AR-236011AL-HT	EFXE-236011AL-HT	27,0	40,6	67,7	81,2	108,3	121,9	135,4	203,1
AR-314011AL-HT	EFXE-314011AL-HT	24,3	36,4	60,7	72,9	97,2	109,3	121,5	182,3
AR-314014AL-HT	EFXE-314014AL-HT	27,4	41,2	68,7	82,4	109,9	123,7	137,4	206,2
AR-314018AL-HT	EFXE-314018AL-HT	31,9	47,8	79,7	95,7	127,6	143,5	159,5	239,2
AR-314023AL-HT	EFXE-314023AL-HT	36,7	55,1	91,9	110,3	147,1	165,5	183,9	275,8
AR-316011AL-HT	EFXE-316011AL-HT	32,0	48,0	80,0	96,0	128,1	144,1	160,1	240,1
AR-316018AL-HT	EFXE-316018AL-HT	41,3	62,0	103,4	124,1	165,5	186,2	206,9	310,3
AQ-606020AL-HT	EFXE-606020AL-HT	64,5	96,8	161,4	193,7	258,3	290,5	322,8	484,3

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Enclosure types (aluminium)		Maximum power dissipation (W) – Tamb. up to **60**°C						
		INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)	INTERNAL TEMP.130°C (T4/T135°C)
AQ-080806AL-HT	EFXE-080806AL-HT	2,6	5,2	6,5	9,1	10,4	11,7	18,2
AR-081306AL-HT	EFXE-081306AL-HT	3,5	7,0	8,8	12,3	14,1	15,9	24,7
AR-081806AL-HT	EFXE-081806AL-HT	4,4	8,9	11,1	15,5	17,8	20,0	31,1
AR-082505AL-HT	EFXE-082505AL-HT	5,4	10,9	13,7	19,2	21,9	24,7	38,4
AQ-101008AL-HT	EFXE-101008AL-HT	4,3	8,7	10,8	15,2	17,4	19,6	30,4
AR-101608AL-HT	EFXE-101608AL-HT	5,7	11,5	14,4	20,2	23,1	26,0	40,5
AR-102008AL-HT	EFXE-102008AL-HT	6,7	13,4	16,7	23,5	26,8	30,2	47,0
AQ-121208AL-HT	EFXE-121208AL-HT	5,4	10,8	13,5	18,9	21,6	24,3	37,8
AQ-121209AL-HT	EFXE-121209AL-HT	5,8	11,6	14,6	20,4	23,3	26,2	40,8
AR-122208AL-HT	EFXE-122208AL-HT	7,8	15,6	19,6	27,4	31,3	35,3	54,9
AR-122209AL-HT	EFXE-122209AL-HT	8,4	16,8	21,0	29,5	33,7	37,9	59,0
AR-123608AL-HT	EFXE-123608AL-HT	11,1	22,3	27,9	39,1	44,7	50,3	78,3
AQ-141409AL-HT	EFXE-141409AL-HT	6,8	13,7	17,2	24,1	27,5	31,0	48,2
AR-142009AL-HT	EFXE-142009AL-HT	8,5	17,1	21,4	30,0	34,2	38,5	60,0
AQ-161609AL-HT	EFXE-161609AL-HT	8,0	16,1	20,1	28,1	32,2	36,2	56,3
AR-162609AL-HT	EFXE-162609AL-HT	10,9	21,9	27,4	38,3	43,8	49,3	76,7
AR-163609AL-HT	EFXE-163609AL-HT	13,7	27,5	34,4	48,2	55,1	62,0	96,4
AR-165609AL-HT	EFXE-165609AL-HT	19,2	38,4	48,1	67,3	76,9	86,6	134,7
AQ-181810AL-HT	EFXE-181810AL-HT	9,8	19,7	24,6	34,5	39,5	44,4	69,1
AR-182810AL-HT	EFXE-182810AL-HT	13,0	26,1	32,6	45,7	52,2	58,7	91,4
AR-102311AL-HT	EFXE-102311AL-HT	9,1	18,2	22,8	31,9	36,5	41,0	63,8
AR-202311AL-HT	EFXE-202311AL-HT	13,0	26,1	32,6	45,6	52,2	58,7	91,3
AR-202318AL-HT	EFXE-202318AL-HT	17,9	35,9	44,9	62,8	71,8	80,8	125,7
AR-232811AL-HT	EFXE-232811AL-HT	15,8	31,6	39,6	55,4	63,3	71,3	110,9
AR-233311AL-HT	EFXE-233311AL-HT	17,6	35,3	44,1	61,7	70,6	79,4	123,5
AR-233318AL-HT	EFXE-233318AL-HT	23,7	47,5	59,4	83,2	95,1	107,0	166,5
AR-234011AL-HT	EFXE-234011AL-HT	20,1	40,2	50,3	70,5	80,5	90,6	141,0
AR-234023AL-HT	EFXE-234023AL-HT	31,1	62,2	77,8	108,9	124,5	140,0	217,9
AR-236011AL-HT	EFXE-236011AL-HT	27,0	54,1	67,7	94,8	108,3	121,9	189,6
AR-314011AL-HT	EFXE-314011AL-HT	24,3	48,6	60,7	85,0	97,2	109,3	170,1
AR-314014AL-HT	EFXE-314014AL-HT	27,4	54,9	68,7	96,2	109,9	123,7	192,4
AR-314018AL-HT	EFXE-314018AL-HT	31,9	63,8	79,7	111,6	127,6	143,5	223,3
AR-314023AL-HT	EFXE-314023AL-HT	36,7	73,5	91,9	128,7	147,1	165,5	257,4
AR-316011AL-HT	EFXE-316011AL-HT	32,0	64,0	80,0	112,0	128,1	144,1	224,1
AR-316018AL-HT	EFXE-316018AL-HT	41,3	82,7	103,4	144,8	165,5	186,2	289,6
AQ-606020AL-HT	EFXE-606020AL-HT	64,5	129,1	161,4	226,0	258,3	290,5	452,0

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Enclosure types (aluminium)		Maximum power dissipation (W) Tamb. up to **95**°C		
		INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)	INTERNAL TEMP.130°C (T4/T135°C)
AQ-080806AL-HT	EFXE-080806AL-HT	1,3	2,6	9,1
AR-081306AL-HT	EFXE-081306AL-HT	1,7	3,5	12,3
AR-081806AL-HT	EFXE-081806AL-HT	2,2	4,4	15,5
AR-082505AL-HT	EFXE-082505AL-HT	2,7	5,4	19,2
AQ-101008AL-HT	EFXE-101008AL-HT	2,1	4,3	15,2
AR-101608AL-HT	EFXE-101608AL-HT	2,8	5,7	20,2
AR-102008AL-HT	EFXE-102008AL-HT	3,3	6,7	23,5
AQ-121208AL-HT	EFXE-121208AL-HT	2,7	5,4	18,9
AQ-121209AL-HT	EFXE-121209AL-HT	2,9	5,8	20,4
AR-122208AL-HT	EFXE-122208AL-HT	3,9	7,8	27,4
AR-122209AL-HT	EFXE-122209AL-HT	4,2	8,4	29,5
AR-123608AL-HT	EFXE-123608AL-HT	5,5	11,1	39,1
AQ-141409AL-HT	EFXE-141409AL-HT	3,4	6,8	24,1
AR-142009AL-HT	EFXE-142009AL-HT	4,2	8,5	30,0
AQ-161609AL-HT	EFXE-161609AL-HT	4,0	8,0	28,1
AR-162609AL-HT	EFXE-162609AL-HT	5,4	10,9	38,3
AR-163609AL-HT	EFXE-163609AL-HT	6,8	13,7	48,2
AR-165609AL-HT	EFXE-165609AL-HT	9,6	19,2	67,3
AQ-181810AL-HT	EFXE-181810AL-HT	4,9	9,8	34,5
AR-182810AL-HT	EFXE-182810AL-HT	6,5	13,0	45,7
AR-102311AL-HT	EFXE-102311AL-HT	4,5	9,1	31,9
AR-202311AL-HT	EFXE-202311AL-HT	6,5	13,0	45,6
AR-202318AL-HT	EFXE-202318AL-HT	8,9	17,9	62,8
AR-232811AL-HT	EFXE-232811AL-HT	7,9	15,8	55,4
AR-233311AL-HT	EFXE-233311AL-HT	8,8	17,6	61,7
AR-233318AL-HT	EFXE-233318AL-HT	11,8	23,7	83,2
AR-234011AL-HT	EFXE-234011AL-HT	10,0	20,1	70,5
AR-234023AL-HT	EFXE-234023AL-HT	15,5	31,1	108,9
AR-236011AL-HT	EFXE-236011AL-HT	13,5	27,0	94,8
AR-314011AL-HT	EFXE-314011AL-HT	12,1	24,3	85,0
AR-314014AL-HT	EFXE-314014AL-HT	13,7	27,4	96,2
AR-314018AL-HT	EFXE-314018AL-HT	15,9	31,9	111,6
AR-314023AL-HT	EFXE-314023AL-HT	18,3	36,7	128,7
AR-316011AL-HT	EFXE-316011AL-HT	16,0	32,0	112,0
AR-316018AL-HT	EFXE-316018AL-HT	20,6	41,3	144,8
AQ-606020AL-HT	EFXE-606020AL-HT	32,2	64,5	226,0

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Power dissipation – Glass fiber reinforced polyester resin enclosures

Enclosure types (polyester)		Maximum power dissipation (W) – Tamb. up to **40**°C						
		INTERNAL TEMP.60°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
AQ-080806P	EFE-080806	3,4	5,2	6,9	7,8	9,5	10,4	11,3
AQ-080808P	EFE-080808	4,5	6,8	9,1	10,2	12,5	13,6	14,7
AR-081106P	EFE-081106	4,2	6,4	8,5	9,6	11,7	12,8	13,8
AR-081606P	EFE-081606	5,7	8,6	11,5	13,0	15,9	17,3	18,8
AR-081906P	EFE-081906	6,4	9,6	12,8	14,4	17,6	19,2	20,8
AQ-121209P	EFE-121209	7,9	11,9	15,9	17,9	21,9	23,9	25,9
AR-122209P	EFE-122209	10,8	16,2	21,6	24,3	29,7	32,4	35,1
AQ-161609P	EFE-161609	10,3	15,5	20,7	23,3	28,5	31,1	33,7
AR-162609P	EFE-162609	13,4	20,1	26,8	30,1	36,8	40,2	43,5
AR-163609P	EFE-163609	16,2	24,3	32,4	36,4	44,5	48,6	52,6
AQ-252612P	EFE-252612	18,8	28,2	37,6	42,3	51,7	56,4	61,1
AQ-252616P	EFE-252616	21,7	32,6	43,5	49,0	59,9	65,3	70,8
AR-254012P	EFE-254012	23,9	35,9	47,9	53,9	65,9	71,8	77,8
AR-254016P	EFE-254016	27,4	41,2	54,9	61,8	75,6	82,4	89,3
AR-256012P	EFE-256012	29,0	43,5	58,0	65,3	79,8	87,1	94,3
AQ-414012P	EFE-414012	29,1	43,6	58,2	65,5	80,0	87,3	94,6
AQ-414016P	EFE-414016	32,9	49,4	65,9	74,1	90,6	98,8	107,0

Enclosure types (polyester)		Maximum power dissipation (W) – Tamb. up to **50**°C						
		INTERNAL TEMP.60°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
AQ-080806P	EFE-080806	1,7	3,4	5,2	6,0	7,8	8,7	9,5
AQ-080808P	EFE-080808	2,2	4,5	6,8	7,9	10,2	11,3	12,5
AR-081106P	EFE-081106	2,1	4,2	6,4	7,4	9,6	10,6	11,7
AR-081606P	EFE-081606	2,8	5,7	8,6	10,1	13,0	14,4	15,9
AR-081906P	EFE-081906	3,2	6,4	9,6	11,2	14,4	16,0	17,6
AQ-121209P	EFE-121209	3,9	7,9	11,9	13,9	17,9	19,9	21,9
AR-122209P	EFE-122209	5,4	10,8	16,2	18,9	24,3	27,0	29,7
AQ-161609P	EFE-161609	5,1	10,3	15,5	18,1	23,3	25,9	28,5
AR-162609P	EFE-162609	6,7	13,4	20,1	23,4	30,1	33,5	36,8
AR-163609P	EFE-163609	8,1	16,2	24,3	28,3	36,4	40,5	44,5
AQ-252612P	EFE-252612	9,4	18,8	28,2	32,9	42,3	47,0	51,7
AQ-252616P	EFE-252616	10,8	21,7	32,6	38,1	49,0	54,4	59,9
AR-254012P	EFE-254012	11,9	23,9	35,9	41,9	53,9	59,9	65,9
AR-254016P	EFE-254016	13,7	27,4	41,2	48,1	61,8	68,7	75,6
AR-256012P	EFE-256012	14,5	29,0	43,5	50,8	65,3	72,6	79,8
AQ-414012P	EFE-414012	14,5	29,1	43,6	50,9	65,5	72,7	80,0
AQ-414016P	EFE-414016	16,4	32,9	49,4	57,6	74,1	82,3	90,6

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Enclosure types (polyester)		Maximum power dissipation (W) – Tamb. up to **55**°C						
		INTERNAL TEMP.65°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
AQ-080806P	EFE-080806	1,7	2,6	4,3	5,2	6,9	7,8	8,7
AQ-080808P	EFE-080808	2,2	3,4	5,6	6,8	9,1	10,2	11,3
AR-081106P	EFE-081106	2,1	3,2	5,3	6,4	8,5	9,6	10,6
AR-081606P	EFE-081606	2,8	4,3	7,2	8,6	11,5	13,0	14,4
AR-081906P	EFE-081906	3,2	4,8	8,0	9,6	12,8	14,4	16,0
AQ-121209P	EFE-121209	3,9	5,9	9,9	11,9	15,9	17,9	19,9
AR-122209P	EFE-122209	5,4	8,1	13,5	16,2	21,6	24,3	27,0
AQ-161609P	EFE-161609	5,1	7,7	12,9	15,5	20,7	23,3	25,9
AR-162609P	EFE-162609	6,7	10,0	16,7	20,1	26,8	30,1	33,5
AR-163609P	EFE-163609	8,1	12,1	20,2	24,3	32,4	36,4	40,5
AQ-252612P	EFE-252612	9,4	14,1	23,5	28,2	37,6	42,3	47,0
AQ-252616P	EFE-252616	10,8	16,3	27,2	32,6	43,5	49,0	54,4
AR-254012P	EFE-254012	11,9	17,9	29,9	35,9	47,9	53,9	59,9
AR-254016P	EFE-254016	13,7	20,6	34,3	41,2	54,9	61,8	68,7
AR-256012P	EFE-256012	14,5	21,7	36,3	43,5	58,0	65,3	72,6
AQ-414012P	EFE-414012	14,5	21,8	36,3	43,6	58,2	65,5	72,7
AQ-414016P	EFE-414016	16,4	24,7	41,1	49,4	65,9	74,1	82,3

Enclosure types (polyester)		Maximum power dissipation (W) – Tamb. up to **60**°C					
		INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
AQ-080806P	EFE-080806	1,7	3,4	4,3	6,0	6,9	7,8
AQ-080808P	EFE-080808	2,2	4,5	5,6	7,9	9,1	10,2
AR-081106P	EFE-081106	2,1	4,2	5,3	7,4	8,5	9,6
AR-081606P	EFE-081606	2,8	5,7	7,2	10,1	11,5	13,0
AR-081906P	EFE-081906	3,2	6,4	8,0	11,2	12,8	14,4
AQ-121209P	EFE-121209	3,9	7,9	9,9	13,9	15,9	17,9
AR-122209P	EFE-122209	5,4	10,8	13,5	18,9	21,6	24,3
AQ-161609P	EFE-161609	5,1	10,3	12,9	18,1	20,7	23,3
AR-162609P	EFE-162609	6,7	13,4	16,7	23,4	26,8	30,1
AR-163609P	EFE-163609	8,1	16,2	20,2	28,3	32,4	36,4
AQ-252612P	EFE-252612	9,4	18,8	23,5	32,9	37,6	42,3
AQ-252616P	EFE-252616	10,8	21,7	27,2	38,1	43,5	49,0
AR-254012P	EFE-254012	11,9	23,9	29,9	41,9	47,9	53,9
AR-254016P	EFE-254016	13,7	27,4	34,3	48,1	54,9	61,8
AR-256012P	EFE-256012	14,5	29,0	36,3	50,8	58,0	65,3
AQ-414012P	EFE-414012	14,5	29,1	36,3	50,9	58,2	65,5
AQ-414016P	EFE-414016	16,4	32,9	41,1	57,6	65,9	74,1

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Enclosure types (polyester)		Maximum power dissipation (W) – Tamb. up to **95**°C	
		INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
AQ-080806P	EFE-080806	0,8	1,7
AQ-080808P	EFE-080808	1,1	2,2
AR-081106P	EFE-081106	1,0	2,1
AR-081606P	EFE-081606	1,4	2,8
AR-081906P	EFE-081906	1,6	3,2
AQ-121209P	EFE-121209	1,9	3,9
AR-122209P	EFE-122209	2,7	5,4
AQ-161609P	EFE-161609	2,5	5,1
AR-162609P	EFE-162609	3,3	6,7
AR-163609P	EFE-163609	4,0	8,1
AQ-252612P	EFE-252612	4,7	9,4
AQ-252616P	EFE-252616	5,4	10,8
AR-254012P	EFE-254012	5,9	11,9
AR-254016P	EFE-254016	6,8	13,7
AR-256012P	EFE-256012	7,2	14,5
AQ-414012P	EFE-414012	7,2	14,5
AQ-414016P	EFE-414016	8,2	16,4

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Power dissipation – Aluminum alloy enclosures

Enclosure types (aluminium)		Maximum power dissipation (W) – Tamb. up to **40**°C						
		INTERNAL TEMP.60°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
AQ-080806AL	EFXE-080806AL	5,2	7,8	10,4	11,7	14,3	15,6	16,9
AR-081306AL	EFXE-081306AL	7,0	10,6	14,1	15,9	19,4	21,2	23,0
AR-081806AL	EFXE-081806AL	8,9	13,3	17,8	20,0	24,5	26,7	28,9
AR-081808AL	EFXE-081808AL	11,0	16,5	22,1	24,8	30,4	33,1	35,9
AR-082505AL	EFXE-082505AL	10,7	16,1	21,4	24,1	29,5	32,2	34,8
AR-082508AL	EFXE-082508AL	14,2	21,4	28,5	32,1	39,2	42,8	46,4
AQ-101008AL	EFXE-101008AL	8,7	13,0	17,4	19,6	23,9	26,1	28,3
AR-101508AL	EFXE-101508AL	11,1	16,6	22,2	24,9	30,5	33,3	36,0
AR-101608AL	EFXE-101608AL	11,5	17,3	23,1	26,0	31,8	34,7	37,6
AR-102008AL	EFXE-102008AL	13,4	20,1	26,8	30,2	36,9	40,3	43,6
AQ-121208AL	EFXE-121208AL	10,8	16,2	21,6	24,3	29,7	32,4	35,1
AR-122209AL	EFXE-122209AL	16,8	25,3	33,7	37,9	46,3	50,6	54,8
AQ-141409AL	EFXE-141409AL	13,7	20,6	27,5	31,0	37,9	41,3	44,8
AR-142009AL	EFXE-142009AL	17,1	25,7	34,2	38,5	47,1	51,4	55,7
AQ-161609AL	EFXE-161609AL	17,2	25,8	34,4	38,7	47,3	51,6	55,9
AR-162410AL	EFXE-162410AL	22,1	33,1	44,2	49,7	60,8	66,3	71,8
AR-162609AL	EFXE-162609AL	21,9	32,8	43,8	49,3	60,2	65,7	71,2
AQ-181810AL	EFXE-181810AL	19,7	29,6	39,5	44,4	54,3	59,2	64,2
AR-182810AL	EFXE-182810AL	26,1	39,1	52,2	58,7	71,8	78,3	84,8
AR-202311AL	EFXE-202311AL	25,8	38,7	51,6	58,0	71,0	77,4	83,9
AR-202318AL	EFXE-202318AL	35,5	53,3	71,1	80,0	97,8	106,7	115,6
AR-232811AL	EFXE-232811AL	31,6	47,5	63,3	71,3	87,1	95,0	103,0
AR-233312AL	EFXE-233312AL	37,0	55,6	74,1	83,4	101,9	111,2	120,5
AR-233318AL	EFXE-233318AL	47,5	71,3	95,1	107,0	130,8	142,7	154,6

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Enclosure types (aluminium)		Maximum power dissipation (W) – Tamb. up to **50**°C						
		INTERNAL TEMP.60°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
AQ-080806AL	EFXE-080806AL	2,6	5,2	7,8	9,1	11,7	13,0	14,3
AR-081306AL	EFXE-081306AL	3,5	7,0	10,6	12,3	15,9	17,7	19,4
AR-081806AL	EFXE-081806AL	4,4	8,9	13,3	15,5	20,0	22,2	24,5
AR-081808AL	EFXE-081808AL	5,5	11,0	16,5	19,3	24,8	27,6	30,4
AR-082505AL	EFXE-082505AL	5,3	10,7	16,1	18,7	24,1	26,8	29,5
AR-082508AL	EFXE-082508AL	7,1	14,2	21,4	24,9	32,1	35,7	39,2
AQ-101008AL	EFXE-101008AL	4,3	8,7	13,0	15,2	19,6	21,7	23,9
AR-101508AL	EFXE-101508AL	5,5	11,1	16,6	19,4	24,9	27,7	30,5
AR-101608AL	EFXE-101608AL	5,7	11,5	17,3	20,2	26,0	28,9	31,8
AR-102008AL	EFXE-102008AL	6,7	13,4	20,1	23,5	30,2	33,5	36,9
AQ-121208AL	EFXE-121208AL	5,4	10,8	16,2	18,9	24,3	27,0	29,7
AR-122209AL	EFXE-122209AL	8,4	16,8	25,3	29,5	37,9	42,1	46,3
AQ-141409AL	EFXE-141409AL	6,8	13,7	20,6	24,1	31,0	34,4	37,9
AR-142009AL	EFXE-142009AL	8,5	17,1	25,7	30,0	38,5	42,8	47,1
AQ-161609AL	EFXE-161609AL	8,6	17,2	25,8	30,1	38,7	43,0	47,3
AR-162410AL	EFXE-162410AL	11,0	22,1	33,1	38,7	49,7	55,3	60,8
AR-162609AL	EFXE-162609AL	10,9	21,9	32,8	38,3	49,3	54,8	60,2
AQ-181810AL	EFXE-181810AL	9,8	19,7	29,6	34,5	44,4	49,3	54,3
AR-182810AL	EFXE-182810AL	13,0	26,1	39,1	45,7	58,7	65,2	71,8
AR-202311AL	EFXE-202311AL	12,9	25,8	38,7	45,1	58,0	64,5	71,0
AR-202318AL	EFXE-202318AL	17,7	35,5	53,3	62,2	80,0	88,9	97,8
AR-232811AL	EFXE-232811AL	15,8	31,6	47,5	55,4	71,3	79,2	87,1
AR-233312AL	EFXE-233312AL	18,5	37,0	55,6	64,8	83,4	92,7	101,9
AR-233318AL	EFXE-233318AL	23,7	47,5	71,3	83,2	107,0	118,9	130,8

Enclosure types (aluminium)		Maximum power dissipation (W) – Tamb. up to **55**°C						
		INTERNAL TEMP.65°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
AQ-080806AL	EFXE-080806AL	2,6	3,9	6,5	7,8	10,4	11,7	13,0
AR-081306AL	EFXE-081306AL	3,5	5,3	8,8	10,6	14,1	15,9	17,7
AR-081806AL	EFXE-081806AL	4,4	6,6	11,1	13,3	17,8	20,0	22,2
AR-081808AL	EFXE-081808AL	5,5	8,2	13,8	16,5	22,1	24,8	27,6
AR-082505AL	EFXE-082505AL	5,3	8,0	13,4	16,1	21,4	24,1	26,8
AR-082508AL	EFXE-082508AL	7,1	10,7	17,8	21,4	28,5	32,1	35,7
AQ-101008AL	EFXE-101008AL	4,3	6,5	10,8	13,0	17,4	19,6	21,7
AR-101508AL	EFXE-101508AL	5,5	8,3	13,8	16,6	22,2	24,9	27,7
AR-101608AL	EFXE-101608AL	5,7	8,6	14,4	17,3	23,1	26,0	28,9
AR-102008AL	EFXE-102008AL	6,7	10,0	16,7	20,1	26,8	30,2	33,5
AQ-121208AL	EFXE-121208AL	5,4	8,1	13,5	16,2	21,6	24,3	27,0
AR-122209AL	EFXE-122209AL	8,4	12,6	21,0	25,3	33,7	37,9	42,1
AQ-141409AL	EFXE-141409AL	6,8	10,3	17,2	20,6	27,5	31,0	34,4
AR-142009AL	EFXE-142009AL	8,5	12,8	21,4	25,7	34,2	38,5	42,8
AQ-161609AL	EFXE-161609AL	8,6	12,9	21,5	25,8	34,4	38,7	43,0
AR-162410AL	EFXE-162410AL	11,0	16,5	27,6	33,1	44,2	49,7	55,3
AR-162609AL	EFXE-162609AL	10,9	16,4	27,4	32,8	43,8	49,3	54,8
AQ-181810AL	EFXE-181810AL	9,8	14,8	24,6	29,6	39,5	44,4	49,3
AR-182810AL	EFXE-182810AL	13,0	19,5	32,6	39,1	52,2	58,7	65,2
AR-202311AL	EFXE-202311AL	12,9	19,3	32,2	38,7	51,6	58,0	64,5
AR-202318AL	EFXE-202318AL	17,7	26,6	44,4	53,3	71,1	80,0	88,9
AR-232811AL	EFXE-232811AL	15,8	23,7	39,6	47,5	63,3	71,3	79,2
AR-233312AL	EFXE-233312AL	18,5	27,8	46,3	55,6	74,1	83,4	92,7
AR-233318AL	EFXE-233318AL	23,7	35,6	59,4	71,3	95,1	107,0	118,9

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Enclosure types (aluminium)		Maximum power dissipation (W) – Tamb. up to **60**°C					
		INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
AQ-080806AL	EFXE-080806AL	2,6	5,2	6,5	9,1	10,4	11,7
AR-081306AL	EFXE-081306AL	3,5	7,0	8,8	12,3	14,1	15,9
AR-081806AL	EFXE-081806AL	4,4	8,9	11,1	15,5	17,8	20,0
AR-081808AL	EFXE-081808AL	5,5	11,0	13,8	19,3	22,1	24,8
AR-082505AL	EFXE-082505AL	5,3	10,7	13,4	18,7	21,4	24,1
AR-082508AL	EFXE-082508AL	7,1	14,2	17,8	24,9	28,5	32,1
AQ-101008AL	EFXE-101008AL	4,3	8,7	10,8	15,2	17,4	19,6
AR-101508AL	EFXE-101508AL	5,5	11,1	13,8	19,4	22,2	24,9
AR-101608AL	EFXE-101608AL	5,7	11,5	14,4	20,2	23,1	26,0
AR-102008AL	EFXE-102008AL	6,7	13,4	16,7	23,5	26,8	30,2
AQ-121208AL	EFXE-121208AL	5,4	10,8	13,5	18,9	21,6	24,3
AR-122209AL	EFXE-122209AL	8,4	16,8	21,0	29,5	33,7	37,9
AQ-141409AL	EFXE-141409AL	6,8	13,7	17,2	24,1	27,5	31,0
AR-142009AL	EFXE-142009AL	8,5	17,1	21,4	30,0	34,2	38,5
AQ-161609AL	EFXE-161609AL	8,6	17,2	21,5	30,1	34,4	38,7
AR-162410AL	EFXE-162410AL	11,0	22,1	27,6	38,7	44,2	49,7
AR-162609AL	EFXE-162609AL	10,9	21,9	27,4	38,3	43,8	49,3
AQ-181810AL	EFXE-181810AL	9,8	19,7	24,6	34,5	39,5	44,4
AR-182810AL	EFXE-182810AL	13,0	26,1	32,6	45,7	52,2	58,7
AR-202311AL	EFXE-202311AL	12,9	25,8	32,2	45,1	51,6	58,0
AR-202318AL	EFXE-202318AL	17,7	35,5	44,4	62,2	71,1	80,0
AR-232811AL	EFXE-232811AL	15,8	31,6	39,6	55,4	63,3	71,3
AR-233312AL	EFXE-233312AL	18,5	37,0	46,3	64,8	74,1	83,4
AR-233318AL	EFXE-233318AL	23,7	47,5	59,4	83,2	95,1	107,0

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Enclosure types (aluminium)		Maximum power dissipation (W) – Tamb. up to **95**°C	
		INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
AQ-080806AL	EFXE-080806AL	1,3	2,6
AR-081306AL	EFXE-081306AL	1,7	3,5
AR-081806AL	EFXE-081806AL	2,2	4,4
AR-081808AL	EFXE-081808AL	2,7	5,5
AR-082505AL	EFXE-082505AL	2,6	5,3
AR-082508AL	EFXE-082508AL	3,5	7,1
AQ-101008AL	EFXE-101008AL	2,1	4,3
AR-101508AL	EFXE-101508AL	2,7	5,5
AR-101608AL	EFXE-101608AL	2,8	5,7
AR-102008AL	EFXE-102008AL	3,3	6,7
AQ-121208AL	EFXE-121208AL	2,7	5,4
AR-122209AL	EFXE-122209AL	4,2	8,4
AQ-141409AL	EFXE-141409AL	3,4	6,8
AR-142009AL	EFXE-142009AL	4,2	8,5
AQ-161609AL	EFXE-161609AL	4,3	8,6
AR-162410AL	EFXE-162410AL	5,5	11,0
AR-162609AL	EFXE-162609AL	5,4	10,9
AQ-181810AL	EFXE-181810AL	4,9	9,8
AR-182810AL	EFXE-182810AL	6,5	13,0
AR-202311AL	EFXE-202311AL	6,4	12,9
AR-202318AL	EFXE-202318AL	8,8	17,7
AR-232811AL	EFXE-232811AL	7,9	15,8
AR-233312AL	EFXE-233312AL	9,2	18,5
AR-233318AL	EFXE-233318AL	11,8	23,7

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Power dissipation – Stainless steel enclosures SB series

Enclosure types (stainless steel)		Maximum power dissipation (W) – Tamb. up to **40**°C						
		INTERNAL TEMP.60°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
SB-101210	EFXE-101210SB	5,5	8,3	11,1	12,5	15,3	16,7	18,1
SB-151510	EFXE-151510SB	8,0	12,0	16,0	18,0	22,0	24,0	26,1
SB-142013	EFXE-142013SB	10,4	15,7	20,9	23,5	28,8	31,4	34,0
SB-202010	EFXE-202010SB	10,7	16,1	21,4	24,1	29,5	32,2	34,8
SB-202016	EFXE-202016SB	13,9	20,8	27,8	31,3	38,3	41,7	45,2
SB-202713	EFXE-202713SB	14,4	21,6	28,9	32,5	39,7	43,3	46,9
SB-272713	EFXE-272713SB	16,7	25,1	33,5	37,7	46,0	50,2	54,4
SB-203016	EFXE-203016SB	17,1	25,7	34,3	38,6	47,2	51,4	55,7
SB-273513	EFXE-273513SB	19,2	28,9	38,5	43,3	53,0	57,8	62,6
SB-282816	EFXE-282816SB	19,3	29,0	38,7	43,6	53,3	58,1	63,0
SB-204016	EFXE-204016SB	20,2	30,3	40,4	45,5	55,6	60,6	65,7
SB-353516	EFXE-353516SB	24,4	36,6	48,8	54,9	67,1	73,2	79,3
SB-282827	EFXE-282827SB	26,2	39,3	52,5	59,0	72,2	78,7	85,3
SB-355016	EFXE-355016SB	29,7	44,5	59,4	66,8	81,7	89,1	96,6
SB-383816	EFXE-383816SB	26,6	39,9	53,2	59,8	73,1	79,8	86,5
SB-384516	EFXE-384516SB	29,1	43,7	58,3	65,6	80,2	87,5	94,8
SB-385716	EFXE-385716SB	33,4	50,1	66,8	75,2	91,9	100,3	108,7
SB-505016	EFXE-505016SB	35,8	53,8	71,7	80,7	98,6	107,6	116,6
SB-383827	EFXE-383827SB	35,1	52,7	70,2	79,0	96,6	105,4	114,2
SB-575716	EFXE-575716SB	41,5	62,3	83,1	93,5	114,3	124,7	135,1
SB-577620	EFXE-577620SB	53,9	80,9	107,9	121,3	148,3	161,8	175,3
SB-575730	EFXE-575730SB	55,8	83,7	111,6	125,6	153,5	167,5	181,4
SB-769520	EFXE-769520SB	72,2	108,3	144,4	162,4	198,5	216,6	234,6
SB-1258040	EFXE-1258040SB	72,2	108,3	144,4	162,4	198,5	216,6	234,6

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Enclosure types (Stainless steel)		Maximum power dissipation (W) – Tamb. up to **50**°C						
		INTERNAL TEMP.60°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
SB-101210	EFXE-101210SB	2,7	5,5	8,3	9,7	12,5	13,9	15,3
SB-151510	EFXE-151510SB	4,0	8,0	12,0	14,0	18,0	20,0	22,0
SB-142013	EFXE-142013SB	5,2	10,4	15,7	18,3	23,5	26,2	28,8
SB-202010	EFXE-202010SB	5,3	10,7	16,1	18,7	24,1	26,8	29,5
SB-202016	EFXE-202016SB	6,9	13,9	20,8	24,3	31,3	34,8	38,3
SB-202713	EFXE-202713SB	7,2	14,4	21,6	25,2	32,5	36,1	39,7
SB-272713	EFXE-272713SB	8,3	16,7	25,1	29,3	37,7	41,8	46,0
SB-203016	EFXE-203016SB	8,5	17,1	25,7	30,0	38,6	42,9	47,2
SB-273513	EFXE-273513SB	9,6	19,2	28,9	33,7	43,3	48,2	53,0
SB-282816	EFXE-282816SB	9,6	19,3	29,0	33,9	43,6	48,4	53,3
SB-204016	EFXE-204016SB	10,1	20,2	30,3	35,4	45,5	50,5	55,6
SB-353516	EFXE-353516SB	12,2	24,4	36,6	42,7	54,9	61,0	67,1
SB-282827	EFXE-282827SB	13,1	26,2	39,3	45,9	59,0	65,6	72,2
SB-355016	EFXE-355016SB	14,8	29,7	44,5	52,0	66,8	74,3	81,7
SB-383816	EFXE-383816SB	13,3	26,6	39,9	46,5	59,8	66,5	73,1
SB-384516	EFXE-384516SB	14,5	29,1	43,7	51,0	65,6	72,9	80,2
SB-385716	EFXE-385716SB	16,7	33,4	50,1	58,5	75,2	83,6	91,9
SB-505016	EFXE-505016SB	17,9	35,8	53,8	62,7	80,7	89,7	98,6
SB-383827	EFXE-383827SB	17,5	35,1	52,7	61,4	79,0	87,8	96,6
SB-575716	EFXE-575716SB	20,7	41,5	62,3	72,7	93,5	103,9	114,3
SB-577620	EFXE-577620SB	26,9	53,9	80,9	94,4	121,3	134,8	148,3
SB-575730	EFXE-575730SB	27,9	55,8	83,7	97,7	125,6	139,5	153,5
SB-769520	EFXE-769520SB	36,1	72,2	108,3	126,3	162,4	180,5	198,5
SB-1258040	EFXE-1258040SB	36,1	72,2	108,3	126,3	162,4	180,5	198,5

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Enclosure types (Stainless steel)		Maximum power dissipation (W) – Tamb. up to **55**°C						
		INTERNAL TEMP.65°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
SB-101210	EFXE-101210SB	2,7	4,1	6,9	8,3	11,1	12,5	13,9
SB-151510	EFXE-151510SB	4,0	6,0	10,0	12,0	16,0	18,0	20,0
SB-142013	EFXE-142013SB	5,2	7,8	13,1	15,7	20,9	23,5	26,2
SB-202010	EFXE-202010SB	5,3	8,0	13,4	16,1	21,4	24,1	26,8
SB-202016	EFXE-202016SB	6,9	10,4	17,4	20,8	27,8	31,3	34,8
SB-202713	EFXE-202713SB	7,2	10,8	18,0	21,6	28,9	32,5	36,1
SB-272713	EFXE-272713SB	8,3	12,5	20,9	25,1	33,5	37,7	41,8
SB-203016	EFXE-203016SB	8,5	12,8	21,4	25,7	34,3	38,6	42,9
SB-273513	EFXE-273513SB	9,6	14,4	24,1	28,9	38,5	43,3	48,2
SB-282816	EFXE-282816SB	9,6	14,5	24,2	29,0	38,7	43,6	48,4
SB-204016	EFXE-204016SB	10,1	15,1	25,2	30,3	40,4	45,5	50,5
SB-353516	EFXE-353516SB	12,2	18,3	30,5	36,6	48,8	54,9	61,0
SB-282827	EFXE-282827SB	13,1	19,6	32,8	39,3	52,5	59,0	65,6
SB-355016	EFXE-355016SB	14,8	22,2	37,1	44,5	59,4	66,8	74,3
SB-383816	EFXE-383816SB	13,3	19,9	33,2	39,9	53,2	59,8	66,5
SB-384516	EFXE-384516SB	14,5	21,8	36,4	43,7	58,3	65,6	72,9
SB-385716	EFXE-385716SB	16,7	25,0	41,8	50,1	66,8	75,2	83,6
SB-505016	EFXE-505016SB	17,9	26,9	44,8	53,8	71,7	80,7	89,7
SB-383827	EFXE-383827SB	17,5	26,3	43,9	52,7	70,2	79,0	87,8
SB-575716	EFXE-575716SB	20,7	31,1	51,9	62,3	83,1	93,5	103,9
SB-577620	EFXE-577620SB	26,9	40,4	67,4	80,9	107,9	121,3	134,8
SB-575730	EFXE-575730SB	27,9	41,8	69,7	83,7	111,6	125,6	139,5
SB-769520	EFXE-769520SB	36,1	54,1	90,2	108,3	144,4	162,4	180,5
SB-1258040	EFXE-1258040SB	36,1	54,1	90,2	108,3	144,4	162,4	180,5

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Enclosure types (Stainless steel)		Maximum power dissipation (W) – Tamb. up to **60**°C					
		INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
SB-101210	EFXE-101210SB	2,7	5,5	6,9	9,7	11,1	12,5
SB-151510	EFXE-151510SB	4,0	8,0	10,0	14,0	16,0	18,0
SB-142013	EFXE-142013SB	5,2	10,4	13,1	18,3	20,9	23,5
SB-202010	EFXE-202010SB	5,3	10,7	13,4	18,7	21,4	24,1
SB-202016	EFXE-202016SB	6,9	13,9	17,4	24,3	27,8	31,3
SB-202713	EFXE-202713SB	7,2	14,4	18,0	25,2	28,9	32,5
SB-272713	EFXE-272713SB	8,3	16,7	20,9	29,3	33,5	37,7
SB-203016	EFXE-203016SB	8,5	17,1	21,4	30,0	34,3	38,6
SB-273513	EFXE-273513SB	9,6	19,2	24,1	33,7	38,5	43,3
SB-282816	EFXE-282816SB	9,6	19,3	24,2	33,9	38,7	43,6
SB-204016	EFXE-204016SB	10,1	20,2	25,2	35,4	40,4	45,5
SB-353516	EFXE-353516SB	12,2	24,4	30,5	42,7	48,8	54,9
SB-282827	EFXE-282827SB	13,1	26,2	32,8	45,9	52,5	59,0
SB-355016	EFXE-355016SB	14,8	29,7	37,1	52,0	59,4	66,8
SB-383816	EFXE-383816SB	13,3	26,6	33,2	46,5	53,2	59,8
SB-384516	EFXE-384516SB	14,5	29,1	36,4	51,0	58,3	65,6
SB-385716	EFXE-385716SB	16,7	33,4	41,8	58,5	66,8	75,2
SB-505016	EFXE-505016SB	17,9	35,8	44,8	62,7	71,7	80,7
SB-383827	EFXE-383827SB	17,5	35,1	43,9	61,4	70,2	79,0
SB-575716	EFXE-575716SB	20,7	41,5	51,9	72,7	83,1	93,5
SB-577620	EFXE-577620SB	26,9	53,9	67,4	94,4	107,9	121,3
SB-575730	EFXE-575730SB	27,9	55,8	69,7	97,7	111,6	125,6
SB-769520	EFXE-769520SB	36,1	72,2	90,2	126,3	144,4	162,4
SB-1258040	EFXE-1258040SB	36,1	72,2	90,2	126,3	144,4	162,4

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Enclosure types (Stainless steel)		Maximum power dissipation (W) – Tamb. up to **95**°C	
		INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
SB-101210	EFXE-101210SB	1,3	2,7
SB-151510	EFXE-151510SB	2,0	4,0
SB-142013	EFXE-142013SB	2,6	5,2
SB-202010	EFXE-202010SB	2,6	5,3
SB-202016	EFXE-202016SB	3,4	6,9
SB-202713	EFXE-202713SB	3,6	7,2
SB-272713	EFXE-272713SB	4,1	8,3
SB-203016	EFXE-203016SB	4,2	8,5
SB-273513	EFXE-273513SB	4,8	9,6
SB-282816	EFXE-282816SB	4,8	9,6
SB-204016	EFXE-204016SB	5,0	10,1
SB-353516	EFXE-353516SB	6,1	12,2
SB-282827	EFXE-282827SB	6,5	13,1
SB-355016	EFXE-355016SB	7,4	14,8
SB-383816	EFXE-383816SB	6,6	13,3
SB-384516	EFXE-384516SB	7,2	14,5
SB-385716	EFXE-385716SB	8,3	16,7
SB-505016	EFXE-505016SB	8,9	17,9
SB-383827	EFXE-383827SB	8,7	17,5
SB-575716	EFXE-575716SB	10,3	20,7
SB-577620	EFXE-577620SB	13,4	26,9
SB-575730	EFXE-575730SB	13,9	27,9
SB-769520	EFXE-769520SB	18,0	36,1
SB-1258040	EFXE-1258040SB	18,0	36,1

Power dissipation – Stainless steel enclosures ST series

Enclosure types (Stainless steel)		Maximum power dissipation (W) – Tamb. up to **40**°C						
		INTERNAL TEMP.60°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
ST-101210	EFXE-101210ST	5,5	8,3	11,1	12,5	15,3	16,7	18,1
ST-151510	EFXE-151510ST	8,0	12,0	16,0	18,0	22,0	24,0	26,1
ST-142013	EFXE-142013ST	10,4	15,7	20,9	23,5	28,8	31,4	34,0
ST-202010	EFXE-202010ST	10,7	16,1	21,4	24,1	29,5	32,2	34,8
ST-202016	EFXE-202016ST	13,9	20,8	27,8	31,3	38,3	41,7	45,2
ST-202713	EFXE-202713ST	14,4	21,6	28,9	32,5	39,7	43,3	46,9
ST-272713	EFXE-272713ST	16,7	25,1	33,5	37,7	46,0	50,2	54,4
ST-203016	EFXE-203016ST	17,1	25,7	34,3	38,6	47,2	51,4	55,7
ST-273513	EFXE-273513ST	19,2	28,9	38,5	43,3	53,0	57,8	62,6
ST-282816	EFXE-282816ST	19,3	29,0	38,7	43,6	53,3	58,1	63,0
ST-204016	EFXE-204016ST	20,2	30,3	40,4	45,5	55,6	60,6	65,7
ST-353516	EFXE-353516ST	24,4	36,6	48,8	54,9	67,1	73,2	79,3
ST-282827	EFXE-282827ST	26,2	39,3	52,5	59,0	72,2	78,7	85,3
ST-355016	EFXE-355016ST	29,7	44,5	59,4	66,8	81,7	89,1	96,6
ST-383816	EFXE-383816ST	26,6	39,9	53,2	59,8	73,1	79,8	86,5
ST-384516	EFXE-384516ST	29,1	43,7	58,3	65,6	80,2	87,5	94,8
ST-385716	EFXE-385716ST	33,4	50,1	66,8	75,2	91,9	100,3	108,7
ST-505016	EFXE-505016ST	35,8	53,8	71,7	80,7	98,6	107,6	116,6
ST-383827	EFXE-383827ST	35,1	52,7	70,2	79,0	96,6	105,4	114,2
ST-575716	EFXE-575716ST	41,5	62,3	83,1	93,5	114,3	124,7	135,1
ST-577620	EFXE-577620ST	53,9	80,9	107,9	121,3	148,3	161,8	175,3
ST-575730	EFXE-575730ST	55,8	83,7	111,6	125,6	153,5	167,5	181,4
ST-769520	EFXE-769520ST	72,2	108,3	144,4	162,4	198,5	216,6	234,6
ST-1258040	EFXE-1258040ST	72,2	108,3	144,4	162,4	198,5	216,6	234,6

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Enclosure types (Stainless steel)		Maximum power dissipation (W) – Tamb. up to **50**°C						
		INTERNAL TEMP.60°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
ST-101210	EFXE-101210ST	2,7	5,5	8,3	9,7	12,5	13,9	15,3
ST-151510	EFXE-151510ST	4,0	8,0	12,0	14,0	18,0	20,0	22,0
ST-142013	EFXE-142013ST	5,2	10,4	15,7	18,3	23,5	26,2	28,8
ST-202010	EFXE-202010ST	5,3	10,7	16,1	18,7	24,1	26,8	29,5
ST-202016	EFXE-202016ST	6,9	13,9	20,8	24,3	31,3	34,8	38,3
ST-202713	EFXE-202713ST	7,2	14,4	21,6	25,2	32,5	36,1	39,7
ST-272713	EFXE-272713ST	8,3	16,7	25,1	29,3	37,7	41,8	46,0
ST-203016	EFXE-203016ST	8,5	17,1	25,7	30,0	38,6	42,9	47,2
ST-273513	EFXE-273513ST	9,6	19,2	28,9	33,7	43,3	48,2	53,0
ST-282816	EFXE-282816ST	9,6	19,3	29,0	33,9	43,6	48,4	53,3
ST-204016	EFXE-204016ST	10,1	20,2	30,3	35,4	45,5	50,5	55,6
ST-353516	EFXE-353516ST	12,2	24,4	36,6	42,7	54,9	61,0	67,1
ST-282827	EFXE-282827ST	13,1	26,2	39,3	45,9	59,0	65,6	72,2
ST-355016	EFXE-355016ST	14,8	29,7	44,5	52,0	66,8	74,3	81,7
ST-383816	EFXE-383816ST	13,3	26,6	39,9	46,5	59,8	66,5	73,1
ST-384516	EFXE-384516ST	14,5	29,1	43,7	51,0	65,6	72,9	80,2
ST-385716	EFXE-385716ST	16,7	33,4	50,1	58,5	75,2	83,6	91,9
ST-505016	EFXE-505016ST	17,9	35,8	53,8	62,7	80,7	89,7	98,6
ST-383827	EFXE-383827ST	17,5	35,1	52,7	61,4	79,0	87,8	96,6
ST-575716	EFXE-575716ST	20,7	41,5	62,3	72,7	93,5	103,9	114,3
ST-577620	EFXE-577620ST	26,9	53,9	80,9	94,4	121,3	134,8	148,3
ST-575730	EFXE-575730ST	27,9	55,8	83,7	97,7	125,6	139,5	153,5
ST-769520	EFXE-769520ST	36,1	72,2	108,3	126,3	162,4	180,5	198,5
ST-1258040	EFXE-1258040ST	36,1	72,2	108,3	126,3	162,4	180,5	198,5

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Enclosure types (Stainless steel)		Maximum power dissipation (W) – Tamb. up to **55**°C						
		INTERNAL TEMP.65°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
ST-101210	EFXE-101210ST	2,7	4,1	6,9	8,3	11,1	12,5	13,9
ST-151510	EFXE-151510ST	4,0	6,0	10,0	12,0	16,0	18,0	20,0
ST-142013	EFXE-142013ST	5,2	7,8	13,1	15,7	20,9	23,5	26,2
ST-202010	EFXE-202010ST	5,3	8,0	13,4	16,1	21,4	24,1	26,8
ST-202016	EFXE-202016ST	6,9	10,4	17,4	20,8	27,8	31,3	34,8
ST-202713	EFXE-202713ST	7,2	10,8	18,0	21,6	28,9	32,5	36,1
ST-272713	EFXE-272713ST	8,3	12,5	20,9	25,1	33,5	37,7	41,8
ST-203016	EFXE-203016ST	8,5	12,8	21,4	25,7	34,3	38,6	42,9
ST-273513	EFXE-273513ST	9,6	14,4	24,1	28,9	38,5	43,3	48,2
ST-282816	EFXE-282816ST	9,6	14,5	24,2	29,0	38,7	43,6	48,4
ST-204016	EFXE-204016ST	10,1	15,1	25,2	30,3	40,4	45,5	50,5
ST-353516	EFXE-353516ST	12,2	18,3	30,5	36,6	48,8	54,9	61,0
ST-282827	EFXE-282827ST	13,1	19,6	32,8	39,3	52,5	59,0	65,6
ST-355016	EFXE-355016ST	14,8	22,2	37,1	44,5	59,4	66,8	74,3
ST-383816	EFXE-383816ST	13,3	19,9	33,2	39,9	53,2	59,8	66,5
ST-384516	EFXE-384516ST	14,5	21,8	36,4	43,7	58,3	65,6	72,9
ST-385716	EFXE-385716ST	16,7	25,0	41,8	50,1	66,8	75,2	83,6
ST-505016	EFXE-505016ST	17,9	26,9	44,8	53,8	71,7	80,7	89,7
ST-383827	EFXE-383827ST	17,5	26,3	43,9	52,7	70,2	79,0	87,8
ST-575716	EFXE-575716ST	20,7	31,1	51,9	62,3	83,1	93,5	103,9
ST-577620	EFXE-577620ST	26,9	40,4	67,4	80,9	107,9	121,3	134,8
ST-575730	EFXE-575730ST	27,9	41,8	69,7	83,7	111,6	125,6	139,5
ST-769520	EFXE-769520ST	36,1	54,1	90,2	108,3	144,4	162,4	180,5
ST-1258040	EFXE-1258040ST	36,1	54,1	90,2	108,3	144,4	162,4	180,5

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Enclosure types (Stainless steel)		Maximum power dissipation (W) – Tamb. up to **60**°C					
		INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
ST-101210	EFXE-101210ST	2,7	5,5	6,9	9,7	11,1	12,5
ST-151510	EFXE-151510ST	4,0	8,0	10,0	14,0	16,0	18,0
ST-142013	EFXE-142013ST	5,2	10,4	13,1	18,3	20,9	23,5
ST-202010	EFXE-202010ST	5,3	10,7	13,4	18,7	21,4	24,1
ST-202016	EFXE-202016ST	6,9	13,9	17,4	24,3	27,8	31,3
ST-202713	EFXE-202713ST	7,2	14,4	18,0	25,2	28,9	32,5
ST-272713	EFXE-272713ST	8,3	16,7	20,9	29,3	33,5	37,7
ST-203016	EFXE-203016ST	8,5	17,1	21,4	30,0	34,3	38,6
ST-273513	EFXE-273513ST	9,6	19,2	24,1	33,7	38,5	43,3
ST-282816	EFXE-282816ST	9,6	19,3	24,2	33,9	38,7	43,6
ST-204016	EFXE-204016ST	10,1	20,2	25,2	35,4	40,4	45,5
ST-353516	EFXE-353516ST	12,2	24,4	30,5	42,7	48,8	54,9
ST-282827	EFXE-282827ST	13,1	26,2	32,8	45,9	52,5	59,0
ST-355016	EFXE-355016ST	14,8	29,7	37,1	52,0	59,4	66,8
ST-383816	EFXE-383816ST	13,3	26,6	33,2	46,5	53,2	59,8
ST-384516	EFXE-384516ST	14,5	29,1	36,4	51,0	58,3	65,6
ST-385716	EFXE-385716ST	16,7	33,4	41,8	58,5	66,8	75,2
ST-505016	EFXE-505016ST	17,9	35,8	44,8	62,7	71,7	80,7
ST-383827	EFXE-383827ST	17,5	35,1	43,9	61,4	70,2	79,0
ST-575716	EFXE-575716ST	20,7	41,5	51,9	72,7	83,1	93,5
ST-577620	EFXE-577620ST	26,9	53,9	67,4	94,4	107,9	121,3
ST-575730	EFXE-575730ST	27,9	55,8	69,7	97,7	111,6	125,6
ST-769520	EFXE-769520ST	36,1	72,2	90,2	126,3	144,4	162,4
ST-1258040	EFXE-1258040ST	36,1	72,2	90,2	126,3	144,4	162,4

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Enclosure types (Stainless steel)		Maximum power dissipation (W) – Tamb. up to **95**°C	
		INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
ST-101210	EFXE-101210ST	1,3	2,7
ST-151510	EFXE-151510ST	2,0	4,0
ST-142013	EFXE-142013ST	2,6	5,2
ST-202010	EFXE-202010ST	2,6	5,3
ST-202016	EFXE-202016ST	3,4	6,9
ST-202713	EFXE-202713ST	3,6	7,2
ST-272713	EFXE-272713ST	4,1	8,3
ST-203016	EFXE-203016ST	4,2	8,5
ST-273513	EFXE-273513ST	4,8	9,6
ST-282816	EFXE-282816ST	4,8	9,6
ST-204016	EFXE-204016ST	5,0	10,1
ST-353516	EFXE-353516ST	6,1	12,2
ST-282827	EFXE-282827ST	6,5	13,1
ST-355016	EFXE-355016ST	7,4	14,8
ST-383816	EFXE-383816ST	6,6	13,3
ST-384516	EFXE-384516ST	7,2	14,5
ST-385716	EFXE-385716ST	8,3	16,7
ST-505016	EFXE-505016ST	8,9	17,9
ST-383827	EFXE-383827ST	8,7	17,5
ST-575716	EFXE-575716ST	10,3	20,7
ST-577620	EFXE-577620ST	13,4	26,9
ST-575730	EFXE-575730ST	13,9	27,9
ST-769520	EFXE-769520ST	18,0	36,1
ST-1258040	EFXE-1258040ST	18,0	36,1

Maximum Power Dissipation calculation

The values specified in the tables as per clause 2.1.1 may be modified within the maximum admitted Tamb and maximum admitted internal temperature as follows.

$$Pdiss\ (W) = \frac{Tmax - Tamb}{Rth}$$

$Rth = A \times (\text{enclosure surface in } mm^2 \text{ except enclosure bottom})^B$

Legend:
Rth – Thermal resistance [K/W].
Tmax – Maximum allowed temperature inside enclosure.
Tamb – Ambient temperature of enclosure
A and B - coefficients determined for each series o enclosure. Exact values are given in manufacturer's documentation.

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[16.1] Routine testing

Junction boxes, local control stations and local control panels fitted with wiring, shall be subject to a routine dielectric strength test according to the clause 7.1 of IEC 60079-7.

[17] Specific Conditions of Use

- Enclosures marked with warning label: "WARNING – POTENTIAL ELECTROSTATIC CHARGING HAZARD – SEE INSTRUCTIONS" must be cleaned only by damp cloth or antistatic products.
- Apparatus equipped with drain / venting valve Technor Italsmea model ECR3:
  - the valve cannot be open when an explosive dust atmosphere is present.
  - The valve can be open when an explosive gas atmosphere is present: when open, the equipment reaches the protection degree IP44.
  - When the valve is left in open position, it should be protected from light exposure.
- On the intrinsic safety terminals, the user must only connect devices with compatible intrinsic safety parameters according to EN 60079-14.

[18] Essential Health and Safety Requirements

Covered by the conformity with harmonized standards listed under item 9.

[19] Drawings and Documents

Title:	Drawing No.:	Rev. level:	Date:
Technical note	TN2111	0	17.11.2021
Instruction for use	TN2111 Annex A	0	08.11.2021
Apparatus list	TN2111 Annex B	0	17.11.2021
Drawings:			
Cable entries, plug, adaptors coupling systems	AC2111, sheet 1	0	10.11.2021
Example of operator arrangements for AQ-AR-EFE	AC2111, sheet 2	0	10.11.2021
Example of operator arrangements for SB-ST-EFEXE	AC2111, sheet 3	0	10.11.2021
Example terminals and earth bus bar	AC2111, sheet 4	0	10.11.2021
Drain / breath device type ECR3	AC2111, sheet 5	0	10.11.2021
Marking label SB..., ST..., AQ..., AR...	AC2111, sheet 6	0	10.11.2021
Marking label SB..., ST..., AQ..., AR...	AC2111, sheet 7	0	10.11.2021

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[1] **SUPPLEMENTARY EU – TYPE EXAMINATION CERTIFICATE**

[2] Equipment or Protective Systems Intended for use in Potentially Explosive Atmospheres Directive 2014/34/EU.

[3] Supplementary EU-Type Examination Certificate Number: **FIDI 21 ATEX 0090X/1**

[4] Product: **Junction boxes, local control stations and local control panels**

Type: **AQ-***P / AQ-***AL / AR-***P / AR-***AL**
AQ-*P-HT / AQ-***AL-HT / AR-***P-HT / AR-***AL-HT**
SB-* / ST-***
EFE-* / EFXE-*** AL/ EFXE-***SB / EFXE-***ST**
EFE-*-HT / EFXE-***AL-HT**

[5] Manufacturer: **Technor Italsmea S.p.A.**

[6] Address: **Via Italia 33, 20060 Gessate (MI), Italy**

[7] This supplementary certificate extends EU – Type Examination Certificate to apply to product designed and constructed in accordance with the specification set out in the Schedule of the said certificate but having any variations specified in the Schedule to this certificate and the documents therein referred to.

[8] FIDITAS Ltd., Notified Body number 2829 in accordance with Article 17 of Directive 2014/34/EU of the European Parliament and of the Council, dated 26 February 2014, certifies that this product has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of products intended for use in potentially explosive atmospheres given in Annex II of the Directive.

[9] The examination and test results are recorded in confidential Report No: **FIDI 23 CR 019**

[10] The marking of the product shall include the following:

II 1 G	**Ex ia IIC/IIB T6...T4 Ga**(2) or
II 2(1) G or **II 2(2) G**	**Ex db eb ia/ib mb [**(3)**] IIC/IIB T6...T4 Gb**(1) or
II 2 G	**Ex eb IIC/IIB T6...T4 Gb**(1) or
II 2 D	**Ex tb IIIC T85°C...T135°C Db**

(1) Others type of protection additional to 'eb' depending to the components actually mounted.

(2) In case of enclosures containing 'eb' terminals and/or 'ia Ga' already certified components (with compatible marking) only.

(3) Associated equipment protection depending on the components actually mounted (see lists): e.g. [ia/ib/ia Ga/ia IIIC Da] and/or [ia IIIC Da] or [ia/ib/ia Ga/ia IIIC Da] and/or [ia/ib/ia Ga] [ia IIIC Da]

FIDITAS Ltd.
Certification department
Approved:

Marino Kelava, M.E.Eng.

Our ref.: 23.CRT.071

Date: 19.04.2023

Fiditas d.o.o. ZAGREB

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[11] **SCHEDULE**

[12] **SUPPLEMENTARY EU - TYPE EXAMINATION CERTIFICATE No.: FIDI 21 ATEX 0090X /1**

[13] Description of the variation to the Product

New Ex products added:

- Surge voltage protection unit type: PLUGTRAB PT2 or PT4 – PHOENIX CONTACT; II 1G> Ex ia IIC T4...T6 Ga; KEMA 00 ATEX 1099X;
- SITRANS TH230/420, type: 7NG0317, 0310; 0410 TR320/TR420 7NG0327; 7NG0320; TYPE 7NG0420; Siemens AG; II 1G Ex ia IIC T6...T4 Ga; II 2(1)G Ex ib [ia Ga] IIC T6...T4 Gb; DEKRA 17 ATEX 0116X
- Enhanced Model 644 Temperature Transmitter, ROSEMOUNT INCORPORATED, II 1G Ex ia IIC T6...T4 Ga; DEKRA 21ATEX0003X,
- Temperature Transmitter type: 5434D; 5431D; 6431D; 5435D; 5437D; 5437D; 5437B; 6437D, II 1G Ex ia IIC T6...T4 Ga; II 2(1)G Ex ib [ia Ga] IIC T6...T4 Gb; DEKRA 16 ATEX 0047X,
- Controls Units and / or Junction Boxes Type: GUB..., TECHNOR ITALSMEA; II 2G Ex db (*) IIC T(*) Gb; INERIS 22 ATEX 0008X
- Cable Transit Device type: CF 8 Ex, CF 32 Ex, CF 16 Ex, C RS T...Ex, RS..B Ex, SF...Ex, SFX...B Ex, B...B Ex, R...B Ex and RO...B; ROXTEC INTERNATIONAL AB, II 2G Ex e IIC Gb, II 2D Ex tb IIC Db; NEMKO 12 ATEX 1278X
- Cable Transit Device type: HD 16 Ex, HD 24 Ex, HD 32 Ex and HDLC Ex, ROXTEC INTERNATIONAL AB, II 2G Ex eb IIC Gb, II 2D Ex tb IIIC Db, PRESAFE 15 ATEX 6419X
- Control stations and junction boxes type: CP..., TECHNOR ITALSMEA, II 2G Ex db IIC T6 or T5 or T4 Gb or II 2(1)G Ex db [ia Ga] IIC T6 Gb(***) or II 2(2)G Ex db [ib] IIC T6 Gb (***); INERIS 03 ATEX 0009X
- Industrial plug and socket type: DXN1, MARECHAL ELECTRIC, II 2G Ex db eb IIC T5 or T6; II 2D Ex tb IIIC T90°C/T70°C; LCIE 99 ATEX6027X
- Industrial plug and socket type: DXN3, MARECHAL ELECTRIC; II 2G Ex db eb IIC T5 or T6; II 2D Ex tb IIIC T90°C/T70°C; LCIE 05 ATEX 6149X
- Industrial plug and socket type: DXN6, MARECHAL ELECTRIC, II 2G Ex db eb IIC T5 or T6; II 2D Ex tb IIIC T90°C/T70°C; LCIE 05 ATEX 6150X
- Industrial plug and socket type: PXN12C, MARECHAL ELECTRIC, II 2G Ex eb IIC T*; II 2G Ex ia or ib IIC T*; II 2D Ex tb IIIC T* Db; LCIE 07 ATEX 6070X
- Industrial plug and socket type: DXN25C, MARECHAL ELECTRIC; II 2G Ex eb IIC T*; II 2G Ex ia or ib IIC T6; II2D Ex tb IIIC T*; LCIE 09ATEX3050X
- Industrial plug and socket type: DXN37C, MARECHAL ELECTRIC; II 2G Ex eb IIC T*; II 2G Ex ia or ib IIC T6; II2D Ex tb IIIC T*; LCIE 07ATEX6071X
- Industrial plug and socket type: SPeX, MARECHAL ELECTRIC, II 2G Ex eb IIC T*; II2D Ex tb IIIC T* Db; LCIE 07ATEX6073X
- Industrial plug and socket type: DXA1, MARECHAL ELECTRIC, II 2G Ex db eb IIC T* Gb; II 2D Ex tb IIC T*°C Db; LCIE 15ATEX 3033X
- Industrial plug and socket type: PNCX, MARECHAL ELECTRIC, II 2G Ex IIC T6 Gb; II 2D Ex tb IIIC T72°C Db; LCIE 16ATEX3001X
- Terminal type: WDU 240, WEIDMULLER, II 2G Ex eb IIC Gb; KEMA 01 ATEX 2186U.

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[14] Confidential Report No. FIDI 23 CR 019

[14.1] Routine testing

No change to specified in the initial certificate.

[15] Specific Conditions of Use

Addditional to those specified the initial certificate:

- Manufacturer must obey relevant specific condition of use of Ex equipment and/or schedule of limitation of Ex components installed in/on the product and forward to the end user if relevant for the installation and use.

[16] Essential Health and Safety Requirements

Compliance with the Essential Health and Safety Requirements is not affected by this variation.

[17] Drawings and Documents

Title:	Drawing No.:	Rev. level:	Date:
Technical note	TN2111	1	20.01.2023
Instruction for use	TN2111 Annex A	1	20.01.2023
Apparatus list	TN2111 Annex B	1	20.01.2023

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IECEx Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION
IEC Certification System for Explosive Atmospheres

for rules and details of the IECEx Scheme visit www.iecex.com

Certificate No.:	**IECEx FIDI 21.0015X**	Page 1 of 4	Certificate history: Issue 0 (2022-02-18)
Status:	**Current**	Issue No: 1	
Date of Issue:	2023-05-04		

Applicant: **Technor Italsmea S.p.A.**
Via Italia 33
20060 Gessate (MI)
Italy

Equipment: **Junction boxes, local control stations and local control panels**

Optional accessory: Model reference: AQ-***P / AQ-***AL / AR-***P / AR-***AL / AQ-***P-HT / AQ-***AL-HT / AR-***P-HT / AR-***AL-HT / SB-*** / ST-*** / EFE-*** / EFXE-*** AL/ EFXE-***SB / EFXE-***ST / EFE-***-HT / EFXE-***AL-HT

Type of Protection: **Flameproof enclosure 'db'; Intrinsic safety 'ia/ib'; Increased safety 'eb'; Encapsulation 'mb', Protection by enclosure 'tb'**

Marking: **Ex ia IIC/IIB T6...T4 Ga**(2) or

Ex db eb ia/ib mb [(3)] IIC/IIB T6...T4 Gb(1) or

Ex eb IIC/IIB T6...T4 Gb(1) or

Ex tb IIIC T85°C...T135°C Db

(1) Others type of protection additional to Ex e/eb depending to the components actually mounted.

(2) In case of enclosures containing Ex e/Ex eb terminals and/or Ex ia Ga already certified components (with compatible marking) only.

(3) Associated equipment protection depending on the components actually mounted (see lists): e.g. [ia/ib/ia Ga/ia IIIC Da] and/or [ia IIIC Da] or [ia/ib/ia Ga/ia IIIC Da] and/or [ia/ib/ia Ga] [ia IIIC Da]

Approved for issue on behalf of the IECEx Certification Body: **Marino Kelava**

Position: **Certification Signatory**

Signature:
(for printed version)

Date:
(for printed version)

1. This certificate and schedule may only be reproduced in full.
2. This certificate is not transferable and remains the property of the issuing body.
3. The Status and authenticity of this certificate may be verified by visiting www.iecex.com or use of this QR Code.

Certificate issued by:

Fiditas Ltd
Slavka Tomerlina 44
HR-10361 Zagreb-Sesvete
Croatia

Fiditas
explosion safety solutions

IECEx Certificate of Conformity

Certificate No.: **IECEx FIDI 21.0015X**

Date of issue: 2023-05-04 Issue No: 1

Manufacturer: **Technor Italsmea S.p.A.**
Via Italia 33
20060 Gessate (MI)
Italy

Manufacturing locations:

This certificate is issued as verification that a sample(s), representative of production, was assessed and tested and found to comply with the IEC Standard list below and that the manufacturer's quality system, relating to the Ex products covered by this certificate, was assessed and found to comply with the IECEx Quality system requirements.This certificate is granted subject to the conditions as set out in IECEx Scheme Rules, IECEx 02 and Operational Documents as amended

STANDARDS :
The equipment and any acceptable variations to it specified in the schedule of this certificate and the identified documents, was found to comply with the following standards

IEC 60079-0:2017 Explosive atmospheres - Part 0: Equipment - General requirements
Edition:7.0

IEC 60079-1:2014-06 Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"
Edition:7.0

IEC 60079-11:2011 Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"
Edition:6.0

IEC 60079-18:2017 Explosive atmospheres - Part 18: Protection by encapsulation "m"
Edition:4.1

IEC 60079-31:2013 Explosive atmospheres - Part 31: Equipment dust ignition protection by enclosure "t"
Edition:2

IEC 60079-7:2017 Explosive atmospheres - Part 7: Equipment protection by increased safety "e"
Edition:5.1

This Certificate **does not** indicate compliance with safety and performance requirements other than those expressly included in the Standards listed above.

TEST & ASSESSMENT REPORTS:
A sample(s) of the equipment listed has successfully met the examination and test requirements as recorded in:

Test Reports:

HR/FIDI/ExTR21.0016/00 HR/FIDI/ExTR21.0016/01

Quality Assessment Report:

FR/INE/QAR08.0002/15

IECEx Certificate of Conformity

EQUIPMENT:
Equipment and systems covered by this Certificate are as follows:

Junction boxes, local control stations and local control panels series AQ-…..; AR-…..; SB…..; EFE-…..; EFXE-….. use certified enclosures of various sizes, manufactured by Technor Italsmea S.p.A., type: AQ-.... ; AR-....; SB-...; ST- …, certificate IECEx FIDI 21.0012U.

Enclosures coded …-HT are made in glass fiber reinforced polyester resin or in aluminum, and covered by IECEx component certificates: IECEx PTB 08.0003U, enclosure type: 26.****** and IECEx PTB 08.0003U, enclosure type: 25.******.

Enclosures may be equipped with certified Ex equipment or Ex components and Ex terminals listed in manufacturer's documentation. Certified Ex equipment or Ex components and Ex terminals must be used according to data available in related component or equipment certificates, in particular relevant temperature range, voltage and current limitations. The cable glands or plugs, with separate IECEx certificate, made in type of protection ‘eb’ and/or ‘tb’ with appropriate IP protection are mounted according to related manufacturer’s installation instructions. Each enclosure is provided with internal earthing certified terminal or earthing screw or bolt. Metal enclosures are provided by external earthing screw or bolt. Metal and polyester enclosures can be provided by passing through earthing terminals.

All enclosures can be provided by:
- Externally installed accessories as specified in manufacturer documents,
- Drain breath device type ECR3, included in this certificate,
- Internal/external earthing plate.

For other description see Annex.

SPECIFIC CONDITIONS OF USE: YES as shown below:

- Enclosures marked with warning label: “WARNING – POTENTIAL ELECTROSTATIC CHARGING HAZARD – SEE INSTRUCTIONS” must be cleaned only by damp cloth or antistatic products.
- Apparatus equipped with drain / venting valve Technor Italsmea model ECR3:
  - the valve cannot be open when an explosive dust atmosphere is present.
  - The valve can be open when an explosive gas atmosphere is present: when open, the equipment reaches the protection degree IP44.
  - When the valve is left in open position, it should be protected from light exposure.
- On the intrinsic safety terminals, the user must only connect devices with compatible intrinsic safety parameters according to IEC 60079-14.

IECEx Certificate of Conformity

DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)
New IECEx certified Ex products added in the Apparatus list according to list given in HR/FIDI/ ExTR 21.0016/01.

Annex:

IECEx FIDI 21.0015X Technor Equipment Annex1 issue1.pdf

Technical description (continued from original certificate)

Model identification

Junction boxes

A(1)-(2) (3) (4) (5) (6)	(1) –	**Q**: Square size **R**: Rectangular size
	(2) (3) (4)	dimension, in cm
	(5)	Material **P**: Glass fiber reinforced polyester resin **AL**: Aluminium Alloy
	(6)	None: up to internal temperature of 105°C **HT**: up to internal temperature of 130°C
SB- (2) (3) (4)	(2) (3) (4)	dimension, in cm
ST- (2) (3) (4)	(2) (3) (4)	dimension, in cm

Panel boards

EFE- (2) (3) (4) (6)	(2) (3) (4)	dimension, in cm
	(6)	None: up to internal temperature of 105°C **HT**: up to internal temperature of 130°C
EFXE- (2) (3) (4) (5) (6)	(2) (3) (4)	dimension, in cm
	(5)	Material **SB** or **ST**: stainless steel **AL**: Aluminium Alloy
	(6)	None: up to internal temperature of 105°C **HT**: up to internal temperature of 130°C

Technical data:

Electrical data:	According to Ex component to actually installed
Ambient temperature:	-50°C to +95°C Other possible ranges are with: - min temperature: -50°C to -20 °C - max temperature of +40 °C to +95 °C
Mechanical protection:	IP55, IP66 or IP67 depending on model

Temperature class and/or maximum surface temperature of any junction box or control panel depend on ambient temperature and internal power dissipation. The values that must be observed are given in relevant tables in this certificate.

For commercial reasons model name listed in the tables below can be modified as follows: first (2) and second (3) pair of digits can be reversed.

Models sizes

Polyester High Temperature		Aluminium High Temperature	
AQ-080806P-HT	EFE-080806-HT	AQ-080806AL-HT	EFXE-080806AL-HT
AQ-080808P-HT	EFE-080808-HT	AR-081306AL-HT	EFXE-081306AL-HT
AR-081106P-HT	EFE-081106-HT	AR-081806AL-HT	EFXE-081806AL-HT
AR-081108P-HT	EFE-081108-HT	AR-082505AL-HT	EFXE-082505AL-HT
AR-081606P-HT	EFE-081606-HT	AQ-101008AL-HT	EFXE-101008AL-HT
AR-081608P-HT	EFE-081608-HT	AR-101608AL-HT	EFXE-101608AL-HT
AR-081906P-HT	EFE-081906-HT	AR-102008AL-HT	EFXE-102008AL-HT
AR-081908P-HT	EFE-081908-HT	AQ-121208AL-HT	EFXE-121208AL-HT
AR-082306P-HT	EFE-082306-HT	AQ-121209AL-HT	EFXE-121209AL-HT
AR-082308P-HT	EFE-082308-HT	AR-122208AL-HT	EFXE-122208AL-HT
AQ-121209P-HT	EFE-121209-HT	AR-122209AL-HT	EFXE-122209AL-HT
AR-122209P-HT	EFE-122209-HT	AR-123608AL-HT	EFXE-123608AL-HT
AQ-161609P-HT	EFE-161609-HT	AQ-141409AL-HT	EFXE-141409AL-HT
AR-162609P-HT	EFE-162609-HT	AR-142009AL-HT	EFXE-142009AL-HT
AR-163609P-HT	EFE-163609-HT	AQ-161609AL-HT	EFXE-161609AL-HT
AR-165609P-HT	EFE-165609-HT	AR-162609AL-HT	EFXE-162609AL-HT
AQ-202017P-HT	EFE-202017-HT	AR-163609AL-HT	EFXE-163609AL-HT
AR-203017P-HT	EFE-203017-HT	AR-165609AL-HT	EFXE-165609AL-HT
AQ-252612P-HT	EFE-252612-HT	AQ-181810AL-HT	EFXE-181810AL-HT
AQ-252616P-HT	EFE-252616-HT	AR-182810AL-HT	EFXE-182810AL-HT
AR-254012P-HT	EFE-254012-HT	AR-102311AL-HT	EFXE-102311AL-HT
AR-254016P-HT	EFE-254016-HT	AR-202311AL-HT	EFXE-202311AL-HT
AR-256012P-HT	EFE-256012-HT	AR-202318AL-HT	EFXE-202318AL-HT
AR-304020P-HT	EFE-304020-HT	AR-232811AL-HT	EFXE-232811AL-HT
AQ-363609P-HT	EFE-363609-HT	AR-233311AL-HT	EFXE-233311AL-HT
AR-406025P-HT	EFE-406025-HT	AR-233318AL-HT	EFXE-233318AL-HT
AQ-414012P-HT	EFE-414012-HT	AR-234011AL-HT	EFXE-234011AL-HT
AQ-414020P-HT	EFE-414020-HT	AR-234023AL-HT	EFXE-234023AL-HT
		AR-236011AL-HT	EFXE-236011AL-HT
		AR-314011AL-HT	EFXE-314011AL-HT
		AR-314014AL-HT	EFXE-314014AL-HT
		AR-314018AL-HT	EFXE-314018AL-HT
		AR-314023AL-HT	EFXE-314023AL-HT
		AR-316011AL-HT	EFXE-316011AL-HT
		AR-316018AL-HT	EFXE-316018AL-HT
		AQ-606020AL-HT	EFXE-606020AL-HT

Polyester		Aluminium		Stainless steel	
AQ-080806P	EFE-080806	AQ-080806AL	EFXE-080806AL	SB-101210	EFXE-101210SB
AQ-080808P	EFE-080808	AR-081306AL	EFXE-081306AL	SB-151510	EFXE-151510SB
AR-081106P	EFE-081106	AR-081806AL	EFXE-081806AL	SB-142013	EFXE-142013SB
AR-081606P	EFE-081606	AR-081808AL	EFXE-081808AL	SB-202010	EFXE-202010SB
AR-081906P	EFE-081906	AR-082505AL	EFXE-082505AL	SB-202016	EFXE-202016SB
AQ-121209P	EFE-121209	AR-082508AL	EFXE-082508AL	SB-202713	EFXE-202713SB
AR-122209P	EFE-122209	AQ-101008AL	EFXE-101008AL	SB-272713	EFXE-272713SB
AQ-161609P	EFE-161609	AR-101508AL	EFXE-101508AL	SB-203016	EFXE-203016SB
AR-162609P	EFE-162609	AR-101608AL	EFXE-101608AL	SB-273513	EFXE-273513SB
AR-163609P	EFE-163609	AR-102008AL	EFXE-102008AL	SB-282816	EFXE-282816SB
AQ-252612P	EFE-252612	AQ-121208AL	EFXE-121208AL	SB-204016	EFXE-204016SB
AQ-252616P	EFE-252616	AR-122209AL	EFXE-122209AL	SB-353516	EFXE-353516SB
AR-254012P	EFE-254012	AQ-141409AL	EFXE-141409AL	SB-282827	EFXE-282827SB
AR-254016P	EFE-254016	AR-142009AL	EFXE-142009AL	SB-355016	EFXE-355016SB
AR-256012P	EFE-256012	AQ-161609AL	EFXE-161609AL	SB-383816	EFXE-383816SB
AQ-414012P	EFE-414012	AR-162410AL	EFXE-162410AL	SB-384516	EFXE-384516SB
		AR-162609AL	EFXE-162609AL	SB-385716	EFXE-385716SB
		AQ-181810AL	EFXE-181810AL	SB-505016	EFXE-505016SB
		AR-182810AL	EFXE-182810AL	SB-383827	EFXE-383827SB
		AR-202311AL	EFXE-202311AL	SB-575716	EFXE-575716SB
		AR-202318AL	EFXE-202318AL	SB-577620	EFXE-577620SB
		AR-232811AL	EFXE-232811AL	SB-575730	EFXE-575730SB
		AR-233312AL	EFXE-233312AL	SB-769520	EFXE-769520SB
		AR-233318AL	EFXE-233318AL	SB-1258040	EFXE-1258040SB

Enclosure types (Stainless steel)	
ST-101210	EFXE-101210ST
ST-151510	EFXE-151510ST
ST-142013	EFXE-142013ST
ST-202010	EFXE-202010ST
ST-202016	EFXE-202016ST
ST-202713	EFXE-202713ST
ST-272713	EFXE-272713ST
ST-203016	EFXE-203016ST
ST-273513	EFXE-273513ST
ST-282816	EFXE-282816ST
ST-204016	EFXE-204016ST
ST-353516	EFXE-353516ST
ST-282827	EFXE-282827ST
ST-355016	EFXE-355016ST
ST-383816	EFXE-383816ST
ST-384516	EFXE-384516ST
ST-385716	EFXE-385716ST
ST-505016	EFXE-505016ST
ST-383827	EFXE-383827ST
ST-575716	EFXE-575716ST
ST-577620	EFXE-577620ST
ST-575730	EFXE-575730ST
ST-769520	EFXE-769520ST
ST-1258040	EFXE-1258040ST

Note 2 For stainless steel enclosures: dimensions (2) and (3) can be decreased or increased up to 20%, dimensions (4) can be increased up to 500 mm. Model name changes consequently.

Power dissipation – HT glass fiber reinforced polyester resin enclosures

Enclosure types (polyester)		Maximum power dissipation (W) – Tamb. up to **40**°C							
		INTERNAL TEMP.60°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)	INTERNAL TEMP.127°C (T4/T135°C)
AQ-080806P-HT	EFE-080806-HT	3,5	5,2	7,0	7,8	9,6	10,4	11,3	15,2
AQ-080808P-HT	EFE-080808-HT	4,6	6,8	9,1	10,2	12,5	13,7	14,8	19,8
AR-081106P-HT	EFE-081106-HT	4,3	6,4	8,5	9,6	11,8	12,8	13,9	18,6
AR-081108P-HT	EFE-081108-HT	5,6	8,4	11,2	12,6	15,3	16,7	18,1	24,2
AR-081606P-HT	EFE-081606-HT	5,8	8,7	11,6	13,0	15,9	17,4	18,8	25.2
AR-081608P-HT	EFE-081608-HT	6,8	10,2	13,7	15,4	18,8	20,5	22,2	29,7
AR-081906P-HT	EFE-081906-HT	6,4	9,6	12,8	14,4	17,6	19,2	20,8	27,8
AR-081908P-HT	EFE-081908-HT	7,5	11,3	15,1	17,0	20,7	22,6	24,5	32,7
AR-082306P-HT	EFE-082306-HT	7,2	10,8	14,4	16,2	19,8	21,6	23,4	31,3
AR-082308P-HT	EFE-082308-HT	8,5	12,7	16,9	19,0	23,3	25,4	27,5	36,7
AQ-121209P-HT	EFE-121209-HT	8,0	12,0	15,9	17,9	21,9	23,9	25,9	34,7
AR-122209P-HT	EFE-122209-HT	10,8	16,2	21,6	24,3	29,7	32,4	35,1	47,0
AQ-161609P-HT	EFE-161609-HT	10,4	15,6	20,8	23,4	28,6	31,2	33,8	45,2
AR-162609P-HT	EFE-162609-HT	13,4	20,1	26,8	30,2	36,9	40,2	43,6	58,3
AR-163609P-HT	EFE-163609-HT	16,2	24,3	32,4	36,5	44,6	48,6	52,7	70,5
AR-165609P-HT	EFE-165609-HT	21,4	32,0	42,7	48,1	58,7	64,1	69,4	92,9
AQ-202017P-HT	EFE-202017-HT	18,0	26,9	35,9	40,4	49,4	53,9	58,4	78,1
AR-203017P-HT	EFE-203017-HT	20,9	31,3	41,7	47,0	57,4	62,6	67,8	90,8
AQ-252612P-HT	EFE-252612-HT	18,8	28,2	37,6	42,4	51,8	56,5	61,2	81,9
AQ-252616P-HT	EFE-252616-HT	20,8	31,1	41,5	46,7	57,1	62,3	67,5	90,3
AR-254012P-HT	EFE-254012-HT	22,8	34,2	45,7	51,4	62,8	68,5	74,2	99,3
AR-254016P-HT	EFE-254016-HT	26,2	39,3	52,4	58,9	72,0	78,6	85,1	113,9
AR-256012P-HT	EFE-256012-HT	29,0	43,6	58,1	65,3	79,9	87,1	94,4	126,3
AR-304020P-HT	EFE-304020-HT	32,3	48,5	64,7	72,7	88,9	97,0	105,1	140,7
AQ-363609P-HT	EFE-363609-HT	23,0	34,6	46,1	51,8	63,4	69,1	74,9	100,2
AR-406025P-HT	EFE-406025-HT	50,3	75,5	100,7	113,3	138,4	151,0	163,6	218,9
AQ-414012P-HT	EFE-414012-HT	29,1	43,7	58,2	65,5	80,1	87,3	94,6	126,6
AQ-414020P-HT	EFE-414020-HT	36,6	55,0	73,3	82,4	100,8	109,9	119,1	159,4

Enclosure types (polyester)		Maximum power dissipation (W) – Tamb. up to **50**°C							
		INTERNAL TEMP.60°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)	INTERNAL TEMP.127°C (T4/T135°C)
AQ-080806P-HT	EFE-080806-HT	1,7	3,5	5,2	6,1	7,8	8,7	9,6	13,4
AQ-080808P-HT	EFE-080808-HT	2,3	4,6	6,8	8,0	10,2	11,4	12,5	17,5
AR-081106P-HT	EFE-081106-HT	2,1	4,3	6,4	7,5	9,6	10,7	11,8	16,5
AR-081108P-HT	EFE-081108-HT	2,8	5,6	8,4	9,8	12,6	13,9	15,3	21.5
AR-081606P-HT	EFE-081606-HT	2,9	5,8	8,7	10,1	13,0	14,5	15,9	22,3
AR-081608P-HT	EFE-081608-HT	3,4	6,8	10,2	11,9	15,4	17,1	18,8	26,3
AR-081906P-HT	EFE-081906-HT	3,2	6,4	9,6	11,2	14,4	16,0	17,6	24,6
AR-081908P-HT	EFE-081908-HT	3,8	7,5	11,3	13,2	17,0	18,8	20,7	29,0
AR-082306P-HT	EFE-082306-HT	3,6	7,2	10,8	12,6	16,2	18,0	19,8	27,7
AR-082308P-HT	EFE-082308-HT	4,2	8,5	12,7	14,8	19,0	21,1	23,3	32,5
AQ-121209P-HT	EFE-121209-HT	4,0	8,0	12,0	14,0	17,9	19,9	21,9	30,7
AR-122209P-HT	EFE-122209-HT	5,4	10,8	16,2	18,9	24,3	27,0	29,7	41,6
AQ-161609P-HT	EFE-161609-HT	5,2	10,4	15,6	18,2	23,4	26,0	28,6	40,0
AR-162609P-HT	EFE-162609-HT	6,7	13,4	20,1	23,5	30,2	33,5	36,9	51,6
AR-163609P-HT	EFE-163609-HT	8,1	16,2	24,3	28,4	36,5	40,5	44,6	62,3
AR-165609P-HT	EFE-165609-HT	10,7	21,4	32,0	37,4	48,1	53,4	58,7	82,2
AQ-202017P-HT	EFE-202017-HT	9,0	18,0	26,9	31,4	40,4	44,9	49,4	69,1
AR-203017P-HT	EFE-203017-HT	10,4	20,9	31,3	36,5	47,0	52,2	57,4	80,4
AQ-252612P-HT	EFE-252612-HT	9,4	18,8	28,2	32,9	42,4	47,1	51,8	72,5
AQ-252616P-HT	EFE-252616-HT	10,4	20,8	31,1	36,3	46,7	51,9	57,1	79,9
AR-254012P-HT	EFE-254012-HT	11,4	22,8	34,2	39,9	51,4	57,1	62,8	87,9
AR-254016P-HT	EFE-254016-HT	13,1	26,2	39,3	45,8	58,9	65,5	72,0	100,8
AR-256012P-HT	EFE-256012-HT	14,5	29,0	43,6	50,8	65,3	72,6	79,9	111,8
AR-304020P-HT	EFE-304020-HT	16,2	32,3	48,5	56,6	72,7	80,8	88,9	124,4
AQ-363609P-HT	EFE-363609-HT	11,5	23,0	34,6	40,3	51,8	57,6	63,4	88,7
AR-406025P-HT	EFE-406025-HT	25,2	50,3	75,5	88,1	113,3	125,8	138,4	193,8
AQ-414012P-HT	EFE-414012-HT	14,6	29,1	43,7	51,0	65,5	72,8	80,1	112,1
AQ-414020P-HT	EFE-414020-HT	18,3	36,6	55,0	64,1	82,4	91,6	100,8	141,1

Enclosure types (polyester)		Maximum power dissipation (W) – Tamb. up to **55**°C							
		INTERNAL TEMP.65°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)	INTERNAL TEMP.127°C (T4/T135°C)
AQ-080806P-HT	EFE-080806-HT	1,7	2,6	4,4	5,2	7,0	7,8	8,7	12,5
AQ-080808P-HT	EFE-080808-HT	2,3	3,4	5,7	6,8	9,1	10,2	11,4	16,2
AR-081106P-HT	EFE-081106-HT	2,1	3,2	5,3	6,4	8,5	9,6	10,7	15,2
AR-081108P-HT	EFE-081108-HT	2,8	4,2	7,0	8,4	11,2	12,6	13,9	19,8
AR-081606P-HT	EFE-081606-HT	2,9	4,3	7,2	8,7	11,6	13,0	14,5	20,6
AR-081608P-HT	EFE-081608-HT	3,4	5,1	8,5	10,2	13,7	15,4	17,1	24,3
AR-081906P-HT	EFE-081906-HT	3,2	4,8	8,0	9,6	12,8	14,4	16,0	22,8
AR-081908P-HT	EFE-081908-HT	3,8	5,7	9,4	11,3	15,1	17,0	18,8	26,8
AR-082306P-HT	EFE-082306-HT	3,6	5,4	9,0	10,8	14,4	16,2	18,0	25,6
AR-082308P-HT	EFE-082308-HT	4,2	6,3	10,6	12,7	16,9	19,0	21,1	30,0
AQ-121209P-HT	EFE-121209-HT	4,0	6,0	10,0	12,0	15,9	17,9	19,9	28,3
AR-122209P-HT	EFE-122209-HT	5,4	8,1	13,5	16,2	21,6	24,3	27,0	38,3
AQ-161609P-HT	EFE-161609-HT	5,2	7,8	13,0	15,6	20,8	23,4	26,0	36,9
AR-162609P-HT	EFE-162609-HT	6,7	10,1	16,8	20,1	26,8	30,2	33,5	47,6
AR-163609P-HT	EFE-163609-HT	8,1	12,2	20,3	24,3	32,4	36,5	40,5	57,5
AR-165609P-HT	EFE-165609-HT	10,7	16,0	26,7	32,0	42,7	48,1	53,4	75,8
AQ-202017P-HT	EFE-202017-HT	9,0	13,5	22,4	26,9	35,9	40,4	44,9	63,7
AR-203017P-HT	EFE-203017-HT	10,4	15,7	26,1	31,3	41,7	47,0	52,2	74,0
AQ-252612P-HT	EFE-252612-HT	9,4	14,1	23,5	28,2	37,6	42,4	47,1	66,8
AQ-252616P-HT	EFE-252616-HT	10,4	15,6	26,0	31,1	41,5	46,7	51,9	73,7
AR-254012P-HT	EFE-254012-HT	11,4	17,1	28,5	34,2	45,7	51,4	57,1	81,0
AR-254016P-HT	EFE-254016-HT	13,1	19,6	32,7	39,3	52,4	58,9	65,5	92,9
AR-256012P-HT	EFE-256012-HT	14,5	21,8	36,3	43,6	58,1	65,3	72,6	103,0
AR-304020P-HT	EFE-304020-HT	16,2	24,2	40,4	48,5	64,7	72,7	80,8	114,7
AQ-363609P-HT	EFE-363609-HT	11,5	17,3	28,8	34,6	46,1	51,8	57,6	81,8
AR-406025P-HT	EFE-406025-HT	25,2	37,8	62,9	75,5	100,7	113,3	125,8	178,6
AQ-414012P-HT	EFE-414012-HT	14,6	21,8	36,4	43,7	58,2	65,5	72,8	103,0
AQ-414020P-HT	EFE-414020-HT	18,3	27,5	45,8	55,0	73,3	82,4	91,6	130,0

Enclosure types (polyester)		Maximum power dissipation (W) – Tamb. up to **60**°C						
		INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)	INTERNAL TEMP.127°C (T4/T135°C)
AQ-080806P-HT	EFE-080806-HT	1,7	3,5	4,4	6,1	7,0	7,8	11,7
AQ-080808P-HT	EFE-080808-HT	2,3	4,6	5,7	8,0	9,1	10,2	15,2
AR-081106P-HT	EFE-081106-HT	2,1	4,3	5,3	7,5	8,5	9,6	14,3
AR-081108P-HT	EFE-081108-HT	2,8	5,6	7,0	9,8	11,2	12,6	18,7
AR-081606P-HT	EFE-081606-HT	2,9	5,8	7,2	10,1	11,6	13,0	19,4
AR-081608P-HT	EFE-081608-HT	3,4	6,8	8,5	11,9	13,7	15,4	22,9
AR-081906P-HT	EFE-081906-HT	3,2	6,4	8,0	11,2	12,8	14,4	21,4
AR-081908P-HT	EFE-081908-HT	3,8	7,5	9,4	13,2	15,1	17,0	25,3
AR-082306P-HT	EFE-082306-HT	3,6	7,2	9,0	12,6	14,4	16,2	24,1
AR-082308P-HT	EFE-082308-HT	4,2	8,5	10,6	14,8	16,9	19,0	28,3
AQ-121209P-HT	EFE-121209-HT	4,0	8,0	10,0	14,0	15,9	17,9	26,7
AR-122209P-HT	EFE-122209-HT	5,4	10,8	13,5	18,9	21,6	24,3	36,2
AQ-161609P-HT	EFE-161609-HT	5,2	10,4	13,0	18,2	20,8	23,4	34,8
AR-162609P-HT	EFE-162609-HT	6,7	13,4	16,8	23,5	26,8	30,2	44,9
AR-163609P-HT	EFE-163609-HT	8,1	16,2	20,3	28,4	32,4	36,5	54,2
AR-165609P-HT	EFE-165609-HT	10,7	21,4	26,7	37,4	42,7	48,1	71,5
AQ-202017P-HT	EFE-202017-HT	9,0	18,0	22,4	31,4	35,9	40,4	60,1
AR-203017P-HT	EFE-203017-HT	10,4	20,9	26,1	36,5	41,7	47,0	69,9
AQ-252612P-HT	EFE-252612-HT	9,4	18,8	23,5	32,9	37,6	42,4	63,0
AQ-252616P-HT	EFE-252616-HT	10,4	20,8	26,0	36,3	41,5	46,7	69,5
AR-254012P-HT	EFE-254012-HT	11,4	22,8	28,5	39,9	45,7	51,4	76,5
AR-254016P-HT	EFE-254016-HT	13,1	26,2	32,7	45,8	52,4	58,9	87,7
AR-256012P-HT	EFE-256012-HT	14,5	29,0	36,3	50,8	58,1	65,3	97,2
AR-304020P-HT	EFE-304020-HT	16,2	32,3	40,4	56,6	64,7	72,7	108,3
AQ-363609P-HT	EFE-363609-HT	11,5	23,0	28,8	40,3	46,1	51,8	77,1
AR-406025P-HT	EFE-406025-HT	25,2	50,3	62,9	88,1	100,7	113,3	168,7
AQ-414012P-HT	EFE-414012-HT	14,6	29,1	36,4	51,0	58,2	65,5	97,5
AQ-414020P-HT	EFE-414020-HT	18,3	36,6	45,8	64,1	73,3	82,4	122,7

Enclosure types (polyester)		Maximum power dissipation (W) Tamb. up to **95**°C		
		INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)	INTERNAL TEMP.127°C (T4/T135°C)
AQ-080806P-HT	EFE-080806-HT	0,9	1,7	5,6
AQ-080808P-HT	EFE-080808-HT	1,1	2,3	7,3
AR-081106P-HT	EFE-081106-HT	1,1	2,1	6,5
AR-081108P-HT	EFE-081108-HT	1,4	2,8	9,0
AR-081606P-HT	EFE-081606-HT	1,4	2,9	9,2
AR-081608P-HT	EFE-081608-HT	1,7	3,4	10,9
AR-081906P-HT	EFE-081906-HT	1,6	3,2	10,2
AR-081908P-HT	EFE-081908-HT	1,9	3,8	12,1
AR-082306P-HT	EFE-082306-HT	1,8	3,6	11,5
AR-082308P-HT	EFE-082308-HT	2,1	4,2	13,5
AQ-121209P-HT	EFE-121209-HT	2,0	4,0	12,8
AR-122209P-HT	EFE-122209-HT	2,7	5,4	17,3
AQ-161609P-HT	EFE-161609-HT	2,6	5,2	16,6
AR-162609P-HT	EFE-162609-HT	3,4	6,7	21,5
AR-163609P-HT	EFE-163609-HT	4,1	8,1	26,0
AR-165609P-HT	EFE-165609-HT	5,3	10,7	34,2
AQ-202017P-HT	EFE-202017-HT	4,5	9,0	28,7
AR-203017P-HT	EFE-203017-HT	5,2	10,4	33,4
AQ-252612P-HT	EFE-252612-HT	4,7	9,4	30,1
AQ-252616P-HT	EFE-252616-HT	5,2	10,4	33,2
AR-254012P-HT	EFE-254012-HT	5,7	11,4	36,5
AR-254016P-HT	EFE-254016-HT	6,5	13,1	41,9
AR-256012P-HT	EFE-256012-HT	7,3	14,5	46,4
AR-304020P-HT	EFE-304020-HT	8,1	16,2	51,8
AQ-363609P-HT	EFE-363609-HT	5,8	11,5	36,8
AR-406025P-HT	EFE-406025-HT	12,6	25,2	80,6
AQ-414012P-HT	EFE-414012-HT	7,3	14,6	46,6
AQ-414020P-HT	EFE-414020-HT	9,2	18,3	58,6

Power dissipation – HT aluminium alloy enclosures

Enclosure types (aluminium)		Maximum power dissipation (W) – Tamb. up to **40**°C							
		INTERNAL TEMP.60°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)	INTERNAL TEMP.130°C (T4/T135°C)
AQ-080806AL-HT	EFXE-080806AL-HT	5,2	7,8	10,4	11,7	14,3	15,6	16,9	23,4
AR-081306AL-HT	EFXE-081306AL-HT	7,0	10,6	14,1	15,9	19,4	21,2	23,0	31,8
AR-081806AL-HT	EFXE-081806AL-HT	8,9	13,3	17,8	20,0	24,5	26,7	28,9	40,0
AR-082505AL-HT	EFXE-082505AL-HT	10,9	16,4	21,9	24,7	30,1	32,9	35,6	49,4
AQ-101008AL-HT	EFXE-101008AL-HT	8,7	13,0	17,4	19,6	23,9	26,1	28,3	39,2
AR-101608AL-HT	EFXE-101608AL-HT	11,5	17,3	23,1	26,0	31,8	34,7	37,6	52,0
AR-102008AL-HT	EFXE-102008AL-HT	13,4	20,1	26,8	30,2	36,9	40,3	43,6	60,4
AQ-121208AL-HT	EFXE-121208AL-HT	10,8	16,2	21,6	24,3	29,7	32,4	35,1	48,6
AQ-121209AL-HT	EFXE-121209AL-HT	11,6	17,5	23,3	26,2	32,1	35,0	37,9	52,5
AR-122208AL-HT	EFXE-122208AL-HT	15,6	23,5	31,3	35,3	43,1	47,0	50,9	70,6
AR-122209AL-HT	EFXE-122209AL-HT	16,8	25,3	33,7	37,9	46,3	50,6	54,8	75,9
AR-123608AL-HT	EFXE-123608AL-HT	22,3	33,5	44,7	50,3	61,5	67,1	72,7	100,7
AQ-141409AL-HT	EFXE-141409AL-HT	13,7	20,6	27,5	31,0	37,9	41,3	44,8	62,0
AR-142009AL-HT	EFXE-142009AL-HT	17,1	25,7	34,2	38,5	47,1	51,4	55,7	77,1
AQ-161609AL-HT	EFXE-161609AL-HT	16,1	24,1	32,2	36,2	44,2	48,3	52,3	72,4
AR-162609AL-HT	EFXE-162609AL-HT	21,9	32,8	43,8	49,3	60,2	65,7	71,2	98,6
AR-163609AL-HT	EFXE-163609AL-HT	27,5	41,3	55,1	62,0	75,7	82,6	89,5	124,0
AR-165609AL-HT	EFXE-165609AL-HT	38,4	57,7	76,9	86,6	105,8	115,4	125,0	173,2
AQ-181810AL-HT	EFXE-181810AL-HT	19,7	29,6	39,5	44,4	54,3	59,2	64,2	88,8
AR-182810AL-HT	EFXE-182810AL-HT	26,1	39,1	52,2	58,7	71,8	78,3	84,8	117,5
AR-102311AL-HT	EFXE-102311AL-HT	18,2	27,3	36,5	41,0	50,1	54,7	59,3	82,1
AR-202311AL-HT	EFXE-202311AL-HT	26,1	39,1	52,2	58,7	71,7	78,3	84,8	117,4
AR-202318AL-HT	EFXE-202318AL-HT	35,9	53,9	71,8	80,8	98,8	107,8	116,8	161,7
AR-232811AL-HT	EFXE-232811AL-HT	31,6	47,5	63,3	71,3	87,1	95,0	103,0	142,6
AR-233311AL-HT	EFXE-233311AL-HT	35,3	52,9	70,6	79,4	97,0	105,9	114,7	158,8
AR-233318AL-HT	EFXE-233318AL-HT	47,5	71,3	95,1	107,0	130,8	142,7	154,6	214,1
AR-234011AL-HT	EFXE-234011AL-HT	40,2	60,4	80,5	90,6	110,7	120,8	130,9	181,2
AR-234023AL-HT	EFXE-234023AL-HT	62,2	93,3	124,5	140,0	171,2	186,7	202,3	280,1
AR-236011AL-HT	EFXE-236011AL-HT	54,1	81,2	108,3	121,9	148,9	162,5	176,0	243,8
AR-314011AL-HT	EFXE-314011AL-HT	48,6	72,9	97,2	109,3	133,6	145,8	157,9	218,7
AR-314014AL-HT	EFXE-314014AL-HT	54,9	82,4	109,9	123,7	151,2	164,9	178,7	247,4
AR-314018AL-HT	EFXE-314018AL-HT	63,8	95,7	127,6	143,5	175,4	191,4	207,3	287,1
AR-314023AL-HT	EFXE-314023AL-HT	73,5	110,3	147,1	165,5	202,3	220,7	239,1	331,0
AR-316011AL-HT	EFXE-316011AL-HT	64,0	96,0	128,1	144,1	176,1	192,1	208,1	288,2
AR-316018AL-HT	EFXE-316018AL-HT	82,7	124,1	165,5	186,2	227,6	248,3	268,9	372,4
AQ-606020AL-HT	EFXE-606020AL-HT	129,1	193,7	258,3	290,5	355,1	387,4	419,7	581,1

Enclosure types (aluminium)		Maximum power dissipation (W) – Tamb. up to **50**°C							
		INTERNAL TEMP.60°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)	INTERNAL TEMP.130°C (T4/T135°C)
AQ-080806AL-HT	EFXE-080806AL-HT	2,6	5,2	7,8	9,1	11,7	13,0	14,3	20,8
AR-081306AL-HT	EFXE-081306AL-HT	3,5	7,0	10,6	12,3	15,9	17,7	19,4	28,3
AR-081806AL-HT	EFXE-081806AL-HT	4,4	8,9	13,3	15,5	20,0	22,2	24,5	35,6
AR-082505AL-HT	EFXE-082505AL-HT	5,4	10,9	16,4	19,2	24,7	27,4	30,1	43,9
AQ-101008AL-HT	EFXE-101008AL-HT	4,3	8,7	13,0	15,2	19,6	21,7	23,9	34,8
AR-101608AL-HT	EFXE-101608AL-HT	5,7	11,5	17,3	20,2	26,0	28,9	31,8	46,2
AR-102008AL-HT	EFXE-102008AL-HT	6,7	13,4	20,1	23,5	30,2	33,5	36,9	53,7
AQ-121208AL-HT	EFXE-121208AL-HT	5,4	10,8	16,2	18,9	24,3	27,0	29,7	43,2
AQ-121209AL-HT	EFXE-121209AL-HT	5,8	11,6	17,5	20,4	26,2	29,2	32,1	46,7
AR-122208AL-HT	EFXE-122208AL-HT	7,8	15,6	23,5	27,4	35,3	39,2	43,1	62,7
AR-122209AL-HT	EFXE-122209AL-HT	8,4	16,8	25,3	29,5	37,9	42,1	46,3	67,4
AR-123608AL-HT	EFXE-123608AL-HT	11,1	22,3	33,5	39,1	50,3	55,9	61,5	89,5
AQ-141409AL-HT	EFXE-141409AL-HT	6,8	13,7	20,6	24,1	31,0	34,4	37,9	55,1
AR-142009AL-HT	EFXE-142009AL-HT	8,5	17,1	25,7	30,0	38,5	42,8	47,1	68,5
AQ-161609AL-HT	EFXE-161609AL-HT	8,0	16,1	24,1	28,1	36,2	40,2	44,2	64,4
AR-162609AL-HT	EFXE-162609AL-HT	10,9	21,9	32,8	38,3	49,3	54,8	60,2	87,6
AR-163609AL-HT	EFXE-163609AL-HT	13,7	27,5	41,3	48,2	62,0	68,9	75,7	110,2
AR-165609AL-HT	EFXE-165609AL-HT	19,2	38,4	57,7	67,3	86,6	96,2	105,8	153,9
AQ-181810AL-HT	EFXE-181810AL-HT	9,8	19,7	29,6	34,5	44,4	49,3	54,3	79,0
AR-182810AL-HT	EFXE-182810AL-HT	13,0	26,1	39,1	45,7	58,7	65,2	71,8	104,4
AR-102311AL-HT	EFXE-102311AL-HT	9,1	18,2	27,3	31,9	41,0	45,6	50,1	73,0
AR-202311AL-HT	EFXE-202311AL-HT	13,0	26,1	39,1	45,6	58,7	65,2	71,7	104,4
AR-202318AL-HT	EFXE-202318AL-HT	17,9	35,9	53,9	62,8	80,8	89,8	98,8	143,7
AR-232811AL-HT	EFXE-232811AL-HT	15,8	31,6	47,5	55,4	71,3	79,2	87,1	126,7
AR-233311AL-HT	EFXE-233311AL-HT	17,6	35,3	52,9	61,7	79,4	88,2	97,0	141,2
AR-233318AL-HT	EFXE-233318AL-HT	23,7	47,5	71,3	83,2	107,0	118,9	130,8	190,3
AR-234011AL-HT	EFXE-234011AL-HT	20,1	40,2	60,4	70,5	90,6	100,7	110,7	161,1
AR-234023AL-HT	EFXE-234023AL-HT	31,1	62,2	93,3	108,9	140,0	155,6	171,2	249,0
AR-236011AL-HT	EFXE-236011AL-HT	27,0	54,1	81,2	94,8	121,9	135,4	148,9	216,7
AR-314011AL-HT	EFXE-314011AL-HT	24,3	48,6	72,9	85,0	109,3	121,5	133,6	194,4
AR-314014AL-HT	EFXE-314014AL-HT	27,4	54,9	82,4	96,2	123,7	137,4	151,2	219,9
AR-314018AL-HT	EFXE-314018AL-HT	31,9	63,8	95,7	111,6	143,5	159,5	175,4	255,2
AR-314023AL-HT	EFXE-314023AL-HT	36,7	73,5	110,3	128,7	165,5	183,9	202,3	294,2
AR-316011AL-HT	EFXE-316011AL-HT	32,0	64,0	96,0	112,0	144,1	160,1	176,1	256,2
AR-316018AL-HT	EFXE-316018AL-HT	41,3	82,7	124,1	144,8	186,2	206,9	227,6	331,0
AQ-606020AL-HT	EFXE-606020AL-HT	64,5	129,1	193,7	226,0	290,5	322,8	355,1	516,6

Enclosure types (aluminium)		Maximum power dissipation (W) – Tamb. up to **55**°C							
		INTERNAL TEMP.65°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)	INTERNAL TEMP.130°C (T4/T135°C)
AQ-080806AL-HT	EFXE-080806AL-HT	2,6	3,9	6,5	7,8	10,4	11,7	13,0	19,5
AR-081306AL-HT	EFXE-081306AL-HT	3,5	5,3	8,8	10,6	14,1	15,9	17,7	26,5
AR-081806AL-HT	EFXE-081806AL-HT	4,4	6,6	11,1	13,3	17,8	20,0	22,2	33,4
AR-082505AL-HT	EFXE-082505AL-HT	5,4	8,2	13,7	16,4	21,9	24,7	27,4	41,1
AQ-101008AL-HT	EFXE-101008AL-HT	4,3	6,5	10,8	13,0	17,4	19,6	21,7	32,6
AR-101608AL-HT	EFXE-101608AL-HT	5,7	8,6	14,4	17,3	23,1	26,0	28,9	43,3
AR-102008AL-HT	EFXE-102008AL-HT	6,7	10,0	16,7	20,1	26,8	30,2	33,5	50,3
AQ-121208AL-HT	EFXE-121208AL-HT	5,4	8,1	13,5	16,2	21,6	24,3	27,0	40,5
AQ-121209AL-HT	EFXE-121209AL-HT	5,8	8,7	14,6	17,5	23,3	26,2	29,2	43,8
AR-122208AL-HT	EFXE-122208AL-HT	7,8	11,7	19,6	23,5	31,3	35,3	39,2	58,8
AR-122209AL-HT	EFXE-122209AL-HT	8,4	12,6	21,0	25,3	33,7	37,9	42,1	63,2
AR-123608AL-HT	EFXE-123608AL-HT	11,1	16,7	27,9	33,5	44,7	50,3	55,9	83,9
AQ-141409AL-HT	EFXE-141409AL-HT	6,8	10,3	17,2	20,6	27,5	31,0	34,4	51,7
AR-142009AL-HT	EFXE-142009AL-HT	8,5	12,8	21,4	25,7	34,2	38,5	42,8	64,3
AQ-161609AL-HT	EFXE-161609AL-HT	8,0	12,0	20,1	24,1	32,2	36,2	40,2	60,4
AR-162609AL-HT	EFXE-162609AL-HT	10,9	16,4	27,4	32,8	43,8	49,3	54,8	82,2
AR-163609AL-HT	EFXE-163609AL-HT	13,7	20,6	34,4	41,3	55,1	62,0	68,9	103,3
AR-165609AL-HT	EFXE-165609AL-HT	19,2	28,8	48,1	57,7	76,9	86,6	96,2	144,3
AQ-181810AL-HT	EFXE-181810AL-HT	9,8	14,8	24,6	29,6	39,5	44,4	49,3	74,0
AR-182810AL-HT	EFXE-182810AL-HT	13,0	19,5	32,6	39,1	52,2	58,7	65,2	97,9
AR-102311AL-HT	EFXE-102311AL-HT	9,1	13,6	22,8	27,3	36,5	41,0	45,6	68,4
AR-202311AL-HT	EFXE-202311AL-HT	13,0	19,5	32,6	39,1	52,2	58,7	65,2	97,9
AR-202318AL-HT	EFXE-202318AL-HT	17,9	26,9	44,9	53,9	71,8	80,8	89,8	134,7
AR-232811AL-HT	EFXE-232811AL-HT	15,8	23,7	39,6	47,5	63,3	71,3	79,2	118,8
AR-233311AL-HT	EFXE-233311AL-HT	17,6	26,4	44,1	52,9	70,6	79,4	88,2	132,3
AR-233318AL-HT	EFXE-233318AL-HT	23,7	35,6	59,4	71,3	95,1	107,0	118,9	178,4
AR-234011AL-HT	EFXE-234011AL-HT	20,1	30,2	50,3	60,4	80,5	90,6	100,7	151,0
AR-234023AL-HT	EFXE-234023AL-HT	31,1	46,6	77,8	93,3	124,5	140,0	155,6	233,4
AR-236011AL-HT	EFXE-236011AL-HT	27,0	40,6	67,7	81,2	108,3	121,9	135,4	203,1
AR-314011AL-HT	EFXE-314011AL-HT	24,3	36,4	60,7	72,9	97,2	109,3	121,5	182,3
AR-314014AL-HT	EFXE-314014AL-HT	27,4	41,2	68,7	82,4	109,9	123,7	137,4	206,2
AR-314018AL-HT	EFXE-314018AL-HT	31,9	47,8	79,7	95,7	127,6	143,5	159,5	239,2
AR-314023AL-HT	EFXE-314023AL-HT	36,7	55,1	91,9	110,3	147,1	165,5	183,9	275,8
AR-316011AL-HT	EFXE-316011AL-HT	32,0	48,0	80,0	96,0	128,1	144,1	160,1	240,1
AR-316018AL-HT	EFXE-316018AL-HT	41,3	62,0	103,4	124,1	165,5	186,2	206,9	310,3
AQ-606020AL-HT	EFXE-606020AL-HT	64,5	96,8	161,4	193,7	258,3	290,5	322,8	484,3

Enclosure types (aluminium)		Maximum power dissipation (W) – Tamb. up to **60**°C						
		INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)	INTERNAL TEMP.130°C (T4/T135°C)
AQ-080806AL-HT	EFXE-080806AL-HT	2,6	5,2	6,5	9,1	10,4	11,7	18,2
AR-081306AL-HT	EFXE-081306AL-HT	3,5	7,0	8,8	12,3	14,1	15,9	24,7
AR-081806AL-HT	EFXE-081806AL-HT	4,4	8,9	11,1	15,5	17,8	20,0	31,1
AR-082505AL-HT	EFXE-082505AL-HT	5,4	10,9	13,7	19,2	21,9	24,7	38,4
AQ-101008AL-HT	EFXE-101008AL-HT	4,3	8,7	10,8	15,2	17,4	19,6	30,4
AR-101608AL-HT	EFXE-101608AL-HT	5,7	11,5	14,4	20,2	23,1	26,0	40,5
AR-102008AL-HT	EFXE-102008AL-HT	6,7	13,4	16,7	23,5	26,8	30,2	47,0
AQ-121208AL-HT	EFXE-121208AL-HT	5,4	10,8	13,5	18,9	21,6	24,3	37,8
AQ-121209AL-HT	EFXE-121209AL-HT	5,8	11,6	14,6	20,4	23,3	26,2	40,8
AR-122208AL-HT	EFXE-122208AL-HT	7,8	15,6	19,6	27,4	31,3	35,3	54,9
AR-122209AL-HT	EFXE-122209AL-HT	8,4	16,8	21,0	29,5	33,7	37,9	59,0
AR-123608AL-HT	EFXE-123608AL-HT	11,1	22,3	27,9	39,1	44,7	50,3	78,3
AQ-141409AL-HT	EFXE-141409AL-HT	6,8	13,7	17,2	24,1	27,5	31,0	48,2
AR-142009AL-HT	EFXE-142009AL-HT	8,5	17,1	21,4	30,0	34,2	38,5	60,0
AQ-161609AL-HT	EFXE-161609AL-HT	8,0	16,1	20,1	28,1	32,2	36,2	56,3
AR-162609AL-HT	EFXE-162609AL-HT	10,9	21,9	27,4	38,3	43,8	49,3	76,7
AR-163609AL-HT	EFXE-163609AL-HT	13,7	27,5	34,4	48,2	55,1	62,0	96,4
AR-165609AL-HT	EFXE-165609AL-HT	19,2	38,4	48,1	67,3	76,9	86,6	134,7
AQ-181810AL-HT	EFXE-181810AL-HT	9,8	19,7	24,6	34,5	39,5	44,4	69,1
AR-182810AL-HT	EFXE-182810AL-HT	13,0	26,1	32,6	45,7	52,2	58,7	91,4
AR-102311AL-HT	EFXE-102311AL-HT	9,1	18,2	22,8	31,9	36,5	41,0	63,8
AR-202311AL-HT	EFXE-202311AL-HT	13,0	26,1	32,6	45,6	52,2	58,7	91,3
AR-202318AL-HT	EFXE-202318AL-HT	17,9	35,9	44,9	62,8	71,8	80,8	125,7
AR-232811AL-HT	EFXE-232811AL-HT	15,8	31,6	39,6	55,4	63,3	71,3	110,9
AR-233311AL-HT	EFXE-233311AL-HT	17,6	35,3	44,1	61,7	70,6	79,4	123,5
AR-233318AL-HT	EFXE-233318AL-HT	23,7	47,5	59,4	83,2	95,1	107,0	166,5
AR-234011AL-HT	EFXE-234011AL-HT	20,1	40,2	50,3	70,5	80,5	90,6	141,0
AR-234023AL-HT	EFXE-234023AL-HT	31,1	62,2	77,8	108,9	124,5	140,0	217,9
AR-236011AL-HT	EFXE-236011AL-HT	27,0	54,1	67,7	94,8	108,3	121,9	189,6
AR-314011AL-HT	EFXE-314011AL-HT	24,3	48,6	60,7	85,0	97,2	109,3	170,1
AR-314014AL-HT	EFXE-314014AL-HT	27,4	54,9	68,7	96,2	109,9	123,7	192,4
AR-314018AL-HT	EFXE-314018AL-HT	31,9	63,8	79,7	111,6	127,6	143,5	223,3
AR-314023AL-HT	EFXE-314023AL-HT	36,7	73,5	91,9	128,7	147,1	165,5	257,4
AR-316011AL-HT	EFXE-316011AL-HT	32,0	64,0	80,0	112,0	128,1	144,1	224,1
AR-316018AL-HT	EFXE-316018AL-HT	41,3	82,7	103,4	144,8	165,5	186,2	289,6
AQ-606020AL-HT	EFXE-606020AL-HT	64,5	129,1	161,4	226,0	258,3	290,5	452,0

Enclosure types (aluminium)		Maximum power dissipation (W) Tamb. up to **95**°C		
		INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)	INTERNAL TEMP.130°C (T4/T135°C)
AQ-080806AL-HT	EFXE-080806AL-HT	1,3	2,6	9,1
AR-081306AL-HT	EFXE-081306AL-HT	1,7	3,5	12,3
AR-081806AL-HT	EFXE-081806AL-HT	2,2	4,4	15,5
AR-082505AL-HT	EFXE-082505AL-HT	2,7	5,4	19,2
AQ-101008AL-HT	EFXE-101008AL-HT	2,1	4,3	15,2
AR-101608AL-HT	EFXE-101608AL-HT	2,8	5,7	20,2
AR-102008AL-HT	EFXE-102008AL-HT	3,3	6,7	23,5
AQ-121208AL-HT	EFXE-121208AL-HT	2,7	5,4	18,9
AQ-121209AL-HT	EFXE-121209AL-HT	2,9	5,8	20,4
AR-122208AL-HT	EFXE-122208AL-HT	3,9	7,8	27,4
AR-122209AL-HT	EFXE-122209AL-HT	4,2	8,4	29,5
AR-123608AL-HT	EFXE-123608AL-HT	5,5	11,1	39,1
AQ-141409AL-HT	EFXE-141409AL-HT	3,4	6,8	24,1
AR-142009AL-HT	EFXE-142009AL-HT	4,2	8,5	30,0
AQ-161609AL-HT	EFXE-161609AL-HT	4,0	8,0	28,1
AR-162609AL-HT	EFXE-162609AL-HT	5,4	10,9	38,3
AR-163609AL-HT	EFXE-163609AL-HT	6,8	13,7	48,2
AR-165609AL-HT	EFXE-165609AL-HT	9,6	19,2	67,3
AQ-181810AL-HT	EFXE-181810AL-HT	4,9	9,8	34,5
AR-182810AL-HT	EFXE-182810AL-HT	6,5	13,0	45,7
AR-102311AL-HT	EFXE-102311AL-HT	4,5	9,1	31,9
AR-202311AL-HT	EFXE-202311AL-HT	6,5	13,0	45,6
AR-202318AL-HT	EFXE-202318AL-HT	8,9	17,9	62,8
AR-232811AL-HT	EFXE-232811AL-HT	7,9	15,8	55,4
AR-233311AL-HT	EFXE-233311AL-HT	8,8	17,6	61,7
AR-233318AL-HT	EFXE-233318AL-HT	11,8	23,7	83,2
AR-234011AL-HT	EFXE-234011AL-HT	10,0	20,1	70,5
AR-234023AL-HT	EFXE-234023AL-HT	15,5	31,1	108,9
AR-236011AL-HT	EFXE-236011AL-HT	13,5	27,0	94,8
AR-314011AL-HT	EFXE-314011AL-HT	12,1	24,3	85,0
AR-314014AL-HT	EFXE-314014AL-HT	13,7	27,4	96,2
AR-314018AL-HT	EFXE-314018AL-HT	15,9	31,9	111,6
AR-314023AL-HT	EFXE-314023AL-HT	18,3	36,7	128,7
AR-316011AL-HT	EFXE-316011AL-HT	16,0	32,0	112,0
AR-316018AL-HT	EFXE-316018AL-HT	20,6	41,3	144,8
AQ-606020AL-HT	EFXE-606020AL-HT	32,2	64,5	226,0

Power dissipation – Glass fiber reinforced polyester resin enclosures

Enclosure types (polyester)		Maximum power dissipation (W) – Tamb. up to **40**°C						
		INTERNAL TEMP.60°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
AQ-080806P	EFE-080806	3,4	5,2	6,9	7,8	9,5	10,4	11,3
AQ-080808P	EFE-080808	4,5	6,8	9,1	10,2	12,5	13,6	14,7
AR-081106P	EFE-081106	4,2	6,4	8,5	9,6	11,7	12,8	13,8
AR-081606P	EFE-081606	5,7	8,6	11,5	13,0	15,9	17,3	18,8
AR-081906P	EFE-081906	6,4	9,6	12,8	14,4	17,6	19,2	20,8
AQ-121209P	EFE-121209	7,9	11,9	15,9	17,9	21,9	23,9	25,9
AR-122209P	EFE-122209	10,8	16,2	21,6	24,3	29,7	32,4	35,1
AQ-161609P	EFE-161609	10,3	15,5	20,7	23,3	28,5	31,1	33,7
AR-162609P	EFE-162609	13,4	20,1	26,8	30,1	36,8	40,2	43,5
AR-163609P	EFE-163609	16,2	24,3	32,4	36,4	44,5	48,6	52,6
AQ-252612P	EFE-252612	18,8	28,2	37,6	42,3	51,7	56,4	61,1
AQ-252616P	EFE-252616	21,7	32,6	43,5	49,0	59,9	65,3	70,8
AR-254012P	EFE-254012	23,9	35,9	47,9	53,9	65,9	71,8	77,8
AR-254016P	EFE-254016	27,4	41,2	54,9	61,8	75,6	82,4	89,3
AR-256012P	EFE-256012	29,0	43,5	58,0	65,3	79,8	87,1	94,3
AQ-414012P	EFE-414012	29,1	43,6	58,2	65,5	80,0	87,3	94,6
AQ-414016P	EFE-414016	32,9	49,4	65,9	74,1	90,6	98,8	107,0

Enclosure types (polyester)		Maximum power dissipation (W) – Tamb. up to **50**°C						
		INTERNAL TEMP.60°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
AQ-080806P	EFE-080806	1,7	3,4	5,2	6,0	7,8	8,7	9,5
AQ-080808P	EFE-080808	2,2	4,5	6,8	7,9	10,2	11,3	12,5
AR-081106P	EFE-081106	2,1	4,2	6,4	7,4	9,6	10,6	11,7
AR-081606P	EFE-081606	2,8	5,7	8,6	10,1	13,0	14,4	15,9
AR-081906P	EFE-081906	3,2	6,4	9,6	11,2	14,4	16,0	17,6
AQ-121209P	EFE-121209	3,9	7,9	11,9	13,9	17,9	19,9	21,9
AR-122209P	EFE-122209	5,4	10,8	16,2	18,9	24,3	27,0	29,7
AQ-161609P	EFE-161609	5,1	10,3	15,5	18,1	23,3	25,9	28,5
AR-162609P	EFE-162609	6,7	13,4	20,1	23,4	30,1	33,5	36,8
AR-163609P	EFE-163609	8,1	16,2	24,3	28,3	36,4	40,5	44,5
AQ-252612P	EFE-252612	9,4	18,8	28,2	32,9	42,3	47,0	51,7
AQ-252616P	EFE-252616	10,8	21,7	32,6	38,1	49,0	54,4	59,9
AR-254012P	EFE-254012	11,9	23,9	35,9	41,9	53,9	59,9	65,9
AR-254016P	EFE-254016	13,7	27,4	41,2	48,1	61,8	68,7	75,6
AR-256012P	EFE-256012	14,5	29,0	43,5	50,8	65,3	72,6	79,8
AQ-414012P	EFE-414012	14,5	29,1	43,6	50,9	65,5	72,7	80,0
AQ-414016P	EFE-414016	16,4	32,9	49,4	57,6	74,1	82,3	90,6

Enclosure types (polyester)		Maximum power dissipation (W) – Tamb. up to **55**°C						
		INTERNAL TEMP.65°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
AQ-080806P	EFE-080806	1,7	2,6	4,3	5,2	6,9	7,8	8,7
AQ-080808P	EFE-080808	2,2	3,4	5,6	6,8	9,1	10,2	11,3
AR-081106P	EFE-081106	2,1	3,2	5,3	6,4	8,5	9,6	10,6
AR-081606P	EFE-081606	2,8	4,3	7,2	8,6	11,5	13,0	14,4
AR-081906P	EFE-081906	3,2	4,8	8,0	9,6	12,8	14,4	16,0
AQ-121209P	EFE-121209	3,9	5,9	9,9	11,9	15,9	17,9	19,9
AR-122209P	EFE-122209	5,4	8,1	13,5	16,2	21,6	24,3	27,0
AQ-161609P	EFE-161609	5,1	7,7	12,9	15,5	20,7	23,3	25,9
AR-162609P	EFE-162609	6,7	10,0	16,7	20,1	26,8	30,1	33,5
AR-163609P	EFE-163609	8,1	12,1	20,2	24,3	32,4	36,4	40,5
AQ-252612P	EFE-252612	9,4	14,1	23,5	28,2	37,6	42,3	47,0
AQ-252616P	EFE-252616	10,8	16,3	27,2	32,6	43,5	49,0	54,4
AR-254012P	EFE-254012	11,9	17,9	29,9	35,9	47,9	53,9	59,9
AR-254016P	EFE-254016	13,7	20,6	34,3	41,2	54,9	61,8	68,7
AR-256012P	EFE-256012	14,5	21,7	36,3	43,5	58,0	65,3	72,6
AQ-414012P	EFE-414012	14,5	21,8	36,3	43,6	58,2	65,5	72,7
AQ-414016P	EFE-414016	16,4	24,7	41,1	49,4	65,9	74,1	82,3

Enclosure types (polyester)		Maximum power dissipation (W) – Tamb. up to **60**°C					
		INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
AQ-080806P	EFE-080806	1,7	3,4	4,3	6,0	6,9	7,8
AQ-080808P	EFE-080808	2,2	4,5	5,6	7,9	9,1	10,2
AR-081106P	EFE-081106	2,1	4,2	5,3	7,4	8,5	9,6
AR-081606P	EFE-081606	2,8	5,7	7,2	10,1	11,5	13,0
AR-081906P	EFE-081906	3,2	6,4	8,0	11,2	12,8	14,4
AQ-121209P	EFE-121209	3,9	7,9	9,9	13,9	15,9	17,9
AR-122209P	EFE-122209	5,4	10,8	13,5	18,9	21,6	24,3
AQ-161609P	EFE-161609	5,1	10,3	12,9	18,1	20,7	23,3
AR-162609P	EFE-162609	6,7	13,4	16,7	23,4	26,8	30,1
AR-163609P	EFE-163609	8,1	16,2	20,2	28,3	32,4	36,4
AQ-252612P	EFE-252612	9,4	18,8	23,5	32,9	37,6	42,3
AQ-252616P	EFE-252616	10,8	21,7	27,2	38,1	43,5	49,0
AR-254012P	EFE-254012	11,9	23,9	29,9	41,9	47,9	53,9
AR-254016P	EFE-254016	13,7	27,4	34,3	48,1	54,9	61,8
AR-256012P	EFE-256012	14,5	29,0	36,3	50,8	58,0	65,3
AQ-414012P	EFE-414012	14,5	29,1	36,3	50,9	58,2	65,5
AQ-414016P	EFE-414016	16,4	32,9	41,1	57,6	65,9	74,1

Enclosure types (polyester)		Maximum power dissipation (W) – Tamb. up to **95**°C	
		INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
AQ-080806P	EFE-080806	0,8	1,7
AQ-080808P	EFE-080808	1,1	2,2
AR-081106P	EFE-081106	1,0	2,1
AR-081606P	EFE-081606	1,4	2,8
AR-081906P	EFE-081906	1,6	3,2
AQ-121209P	EFE-121209	1,9	3,9
AR-122209P	EFE-122209	2,7	5,4
AQ-161609P	EFE-161609	2,5	5,1
AR-162609P	EFE-162609	3,3	6,7
AR-163609P	EFE-163609	4,0	8,1
AQ-252612P	EFE-252612	4,7	9,4
AQ-252616P	EFE-252616	5,4	10,8
AR-254012P	EFE-254012	5,9	11,9
AR-254016P	EFE-254016	6,8	13,7
AR-256012P	EFE-256012	7,2	14,5
AQ-414012P	EFE-414012	7,2	14,5
AQ-414016P	EFE-414016	8,2	16,4

Power dissipation – Aluminium alloy enclosures

Enclosure types (aluminium)		Maximum power dissipation (W) – Tamb. up to **40**°C						
		INTERNAL TEMP.60°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
AQ-080806AL	EFXE-080806AL	5,2	7,8	10,4	11,7	14,3	15,6	16,9
AR-081306AL	EFXE-081306AL	7,0	10,6	14,1	15,9	19,4	21,2	23,0
AR-081806AL	EFXE-081806AL	8,9	13,3	17,8	20,0	24,5	26,7	28,9
AR-081808AL	EFXE-081808AL	11,0	16,5	22,1	24,8	30,4	33,1	35,9
AR-082505AL	EFXE-082505AL	10,7	16,1	21,4	24,1	29,5	32,2	34,8
AR-082508AL	EFXE-082508AL	14,2	21,4	28,5	32,1	39,2	42,8	46,4
AQ-101008AL	EFXE-101008AL	8,7	13,0	17,4	19,6	23,9	26,1	28,3
AR-101508AL	EFXE-101508AL	11,1	16,6	22,2	24,9	30,5	33,3	36,0
AR-101608AL	EFXE-101608AL	11,5	17,3	23,1	26,0	31,8	34,7	37,6
AR-102008AL	EFXE-102008AL	13,4	20,1	26,8	30,2	36,9	40,3	43,6
AQ-121208AL	EFXE-121208AL	10,8	16,2	21,6	24,3	29,7	32,4	35,1
AR-122209AL	EFXE-122209AL	16,8	25,3	33,7	37,9	46,3	50,6	54,8
AQ-141409AL	EFXE-141409AL	13,7	20,6	27,5	31,0	37,9	41,3	44,8
AR-142009AL	EFXE-142009AL	17,1	25,7	34,2	38,5	47,1	51,4	55,7
AQ-161609AL	EFXE-161609AL	17,2	25,8	34,4	38,7	47,3	51,6	55,9
AR-162410AL	EFXE-162410AL	22,1	33,1	44,2	49,7	60,8	66,3	71,8
AR-162609AL	EFXE-162609AL	21,9	32,8	43,8	49,3	60,2	65,7	71,2
AQ-181810AL	EFXE-181810AL	19,7	29,6	39,5	44,4	54,3	59,2	64,2
AR-182810AL	EFXE-182810AL	26,1	39,1	52,2	58,7	71,8	78,3	84,8
AR-202311AL	EFXE-202311AL	25,8	38,7	51,6	58,0	71,0	77,4	83,9
AR-202318AL	EFXE-202318AL	35,5	53,3	71,1	80,0	97,8	106,7	115,6
AR-232811AL	EFXE-232811AL	31,6	47,5	63,3	71,3	87,1	95,0	103,0
AR-233312AL	EFXE-233312AL	37,0	55,6	74,1	83,4	101,9	111,2	120,5
AR-233318AL	EFXE-233318AL	47,5	71,3	95,1	107,0	130,8	142,7	154,6

Enclosure types (aluminium)		Maximum power dissipation (W) – Tamb. up to **50**°C						
		INTERNAL TEMP.60°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
AQ-080806AL	EFXE-080806AL	2,6	5,2	7,8	9,1	11,7	13,0	14,3
AR-081306AL	EFXE-081306AL	3,5	7,0	10,6	12,3	15,9	17,7	19,4
AR-081806AL	EFXE-081806AL	4,4	8,9	13,3	15,5	20,0	22,2	24,5
AR-081808AL	EFXE-081808AL	5,5	11,0	16,5	19,3	24,8	27,6	30,4
AR-082505AL	EFXE-082505AL	5,3	10,7	16,1	18,7	24,1	26,8	29,5
AR-082508AL	EFXE-082508AL	7,1	14,2	21,4	24,9	32,1	35,7	39,2
AQ-101008AL	EFXE-101008AL	4,3	8,7	13,0	15,2	19,6	21,7	23,9
AR-101508AL	EFXE-101508AL	5,5	11,1	16,6	19,4	24,9	27,7	30,5
AR-101608AL	EFXE-101608AL	5,7	11,5	17,3	20,2	26,0	28,9	31,8
AR-102008AL	EFXE-102008AL	6,7	13,4	20,1	23,5	30,2	33,5	36,9
AQ-121208AL	EFXE-121208AL	5,4	10,8	16,2	18,9	24,3	27,0	29,7
AR-122209AL	EFXE-122209AL	8,4	16,8	25,3	29,5	37,9	42,1	46,3
AQ-141409AL	EFXE-141409AL	6,8	13,7	20,6	24,1	31,0	34,4	37,9
AR-142009AL	EFXE-142009AL	8,5	17,1	25,7	30,0	38,5	42,8	47,1
AQ-161609AL	EFXE-161609AL	8,6	17,2	25,8	30,1	38,7	43,0	47,3
AR-162410AL	EFXE-162410AL	11,0	22,1	33,1	38,7	49,7	55,3	60,8
AR-162609AL	EFXE-162609AL	10,9	21,9	32,8	38,3	49,3	54,8	60,2
AQ-181810AL	EFXE-181810AL	9,8	19,7	29,6	34,5	44,4	49,3	54,3
AR-182810AL	EFXE-182810AL	13,0	26,1	39,1	45,7	58,7	65,2	71,8
AR-202311AL	EFXE-202311AL	12,9	25,8	38,7	45,1	58,0	64,5	71,0
AR-202318AL	EFXE-202318AL	17,7	35,5	53,3	62,2	80,0	88,9	97,8
AR-232811AL	EFXE-232811AL	15,8	31,6	47,5	55,4	71,3	79,2	87,1
AR-233312AL	EFXE-233312AL	18,5	37,0	55,6	64,8	83,4	92,7	101,9
AR-233318AL	EFXE-233318AL	23,7	47,5	71,3	83,2	107,0	118,9	130,8

Enclosure types (aluminium)		Maximum power dissipation (W) – Tamb. up to **55**°C						
		INTERNAL TEMP.65°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
AQ-080806AL	EFXE-080806AL	2,6	3,9	6,5	7,8	10,4	11,7	13,0
AR-081306AL	EFXE-081306AL	3,5	5,3	8,8	10,6	14,1	15,9	17,7
AR-081806AL	EFXE-081806AL	4,4	6,6	11,1	13,3	17,8	20,0	22,2
AR-081808AL	EFXE-081808AL	5,5	8,2	13,8	16,5	22,1	24,8	27,6
AR-082505AL	EFXE-082505AL	5,3	8,0	13,4	16,1	21,4	24,1	26,8
AR-082508AL	EFXE-082508AL	7,1	10,7	17,8	21,4	28,5	32,1	35,7
AQ-101008AL	EFXE-101008AL	4,3	6,5	10,8	13,0	17,4	19,6	21,7
AR-101508AL	EFXE-101508AL	5,5	8,3	13,8	16,6	22,2	24,9	27,7
AR-101608AL	EFXE-101608AL	5,7	8,6	14,4	17,3	23,1	26,0	28,9
AR-102008AL	EFXE-102008AL	6,7	10,0	16,7	20,1	26,8	30,2	33,5
AQ-121208AL	EFXE-121208AL	5,4	8,1	13,5	16,2	21,6	24,3	27,0
AR-122209AL	EFXE-122209AL	8,4	12,6	21,0	25,3	33,7	37,9	42,1
AQ-141409AL	EFXE-141409AL	6,8	10,3	17,2	20,6	27,5	31,0	34,4
AR-142009AL	EFXE-142009AL	8,5	12,8	21,4	25,7	34,2	38,5	42,8
AQ-161609AL	EFXE-161609AL	8,6	12,9	21,5	25,8	34,4	38,7	43,0
AR-162410AL	EFXE-162410AL	11,0	16,5	27,6	33,1	44,2	49,7	55,3
AR-162609AL	EFXE-162609AL	10,9	16,4	27,4	32,8	43,8	49,3	54,8
AQ-181810AL	EFXE-181810AL	9,8	14,8	24,6	29,6	39,5	44,4	49,3
AR-182810AL	EFXE-182810AL	13,0	19,5	32,6	39,1	52,2	58,7	65,2
AR-202311AL	EFXE-202311AL	12,9	19,3	32,2	38,7	51,6	58,0	64,5
AR-202318AL	EFXE-202318AL	17,7	26,6	44,4	53,3	71,1	80,0	88,9
AR-232811AL	EFXE-232811AL	15,8	23,7	39,6	47,5	63,3	71,3	79,2
AR-233312AL	EFXE-233312AL	18,5	27,8	46,3	55,6	74,1	83,4	92,7
AR-233318AL	EFXE-233318AL	23,7	35,6	59,4	71,3	95,1	107,0	118,9

Enclosure types (aluminium)		Maximum power dissipation (W) – Tamb. up to **60**°C					
		INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
AQ-080806AL	EFXE-080806AL	2,6	5,2	6,5	9,1	10,4	11,7
AR-081306AL	EFXE-081306AL	3,5	7,0	8,8	12,3	14,1	15,9
AR-081806AL	EFXE-081806AL	4,4	8,9	11,1	15,5	17,8	20,0
AR-081808AL	EFXE-081808AL	5,5	11,0	13,8	19,3	22,1	24,8
AR-082505AL	EFXE-082505AL	5,3	10,7	13,4	18,7	21,4	24,1
AR-082508AL	EFXE-082508AL	7,1	14,2	17,8	24,9	28,5	32,1
AQ-101008AL	EFXE-101008AL	4,3	8,7	10,8	15,2	17,4	19,6
AR-101508AL	EFXE-101508AL	5,5	11,1	13,8	19,4	22,2	24,9
AR-101608AL	EFXE-101608AL	5,7	11,5	14,4	20,2	23,1	26,0
AR-102008AL	EFXE-102008AL	6,7	13,4	16,7	23,5	26,8	30,2
AQ-121208AL	EFXE-121208AL	5,4	10,8	13,5	18,9	21,6	24,3
AR-122209AL	EFXE-122209AL	8,4	16,8	21,0	29,5	33,7	37,9
AQ-141409AL	EFXE-141409AL	6,8	13,7	17,2	24,1	27,5	31,0
AR-142009AL	EFXE-142009AL	8,5	17,1	21,4	30,0	34,2	38,5
AQ-161609AL	EFXE-161609AL	8,6	17,2	21,5	30,1	34,4	38,7
AR-162410AL	EFXE-162410AL	11,0	22,1	27,6	38,7	44,2	49,7
AR-162609AL	EFXE-162609AL	10,9	21,9	27,4	38,3	43,8	49,3
AQ-181810AL	EFXE-181810AL	9,8	19,7	24,6	34,5	39,5	44,4
AR-182810AL	EFXE-182810AL	13,0	26,1	32,6	45,7	52,2	58,7
AR-202311AL	EFXE-202311AL	12,9	25,8	32,2	45,1	51,6	58,0
AR-202318AL	EFXE-202318AL	17,7	35,5	44,4	62,2	71,1	80,0
AR-232811AL	EFXE-232811AL	15,8	31,6	39,6	55,4	63,3	71,3
AR-233312AL	EFXE-233312AL	18,5	37,0	46,3	64,8	74,1	83,4
AR-233318AL	EFXE-233318AL	23,7	47,5	59,4	83,2	95,1	107,0

Enclosure types (aluminium)		Maximum power dissipation (W) – Tamb. up to **95**°C	
		INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
AQ-080806AL	EFXE-080806AL	1,3	2,6
AR-081306AL	EFXE-081306AL	1,7	3,5
AR-081806AL	EFXE-081806AL	2,2	4,4
AR-081808AL	EFXE-081808AL	2,7	5,5
AR-082505AL	EFXE-082505AL	2,6	5,3
AR-082508AL	EFXE-082508AL	3,5	7,1
AQ-101008AL	EFXE-101008AL	2,1	4,3
AR-101508AL	EFXE-101508AL	2,7	5,5
AR-101608AL	EFXE-101608AL	2,8	5,7
AR-102008AL	EFXE-102008AL	3,3	6,7
AQ-121208AL	EFXE-121208AL	2,7	5,4
AR-122209AL	EFXE-122209AL	4,2	8,4
AQ-141409AL	EFXE-141409AL	3,4	6,8
AR-142009AL	EFXE-142009AL	4,2	8,5
AQ-161609AL	EFXE-161609AL	4,3	8,6
AR-162410AL	EFXE-162410AL	5,5	11,0
AR-162609AL	EFXE-162609AL	5,4	10,9
AQ-181810AL	EFXE-181810AL	4,9	9,8
AR-182810AL	EFXE-182810AL	6,5	13,0
AR-202311AL	EFXE-202311AL	6,4	12,9
AR-202318AL	EFXE-202318AL	8,8	17,7
AR-232811AL	EFXE-232811AL	7,9	15,8
AR-233312AL	EFXE-233312AL	9,2	18,5
AR-233318AL	EFXE-233318AL	11,8	23,7

Power dissipation – Stainless steel enclosures SB series

Enclosure types (stainless steel)		Maximum power dissipation (W) – Tamb. up to **40**°C						
		INTERNAL TEMP.60°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
SB-101210	EFXE-101210SB	5,5	8,3	11,1	12,5	15,3	16,7	18,1
SB-151510	EFXE-151510SB	8,0	12,0	16,0	18,0	22,0	24,0	26,1
SB-142013	EFXE-142013SB	10,4	15,7	20,9	23,5	28,8	31,4	34,0
SB-202010	EFXE-202010SB	10,7	16,1	21,4	24,1	29,5	32,2	34,8
SB-202016	EFXE-202016SB	13,9	20,8	27,8	31,3	38,3	41,7	45,2
SB-202713	EFXE-202713SB	14,4	21,6	28,9	32,5	39,7	43,3	46,9
SB-272713	EFXE-272713SB	16,7	25,1	33,5	37,7	46,0	50,2	54,4
SB-203016	EFXE-203016SB	17,1	25,7	34,3	38,6	47,2	51,4	55,7
SB-273513	EFXE-273513SB	19,2	28,9	38,5	43,3	53,0	57,8	62,6
SB-282816	EFXE-282816SB	19,3	29,0	38,7	43,6	53,3	58,1	63,0
SB-204016	EFXE-204016SB	20,2	30,3	40,4	45,5	55,6	60,6	65,7
SB-353516	EFXE-353516SB	24,4	36,6	48,8	54,9	67,1	73,2	79,3
SB-282827	EFXE-282827SB	26,2	39,3	52,5	59,0	72,2	78,7	85,3
SB-355016	EFXE-355016SB	29,7	44,5	59,4	66,8	81,7	89,1	96,6
SB-383816	EFXE-383816SB	26,6	39,9	53,2	59,8	73,1	79,8	86,5
SB-384516	EFXE-384516SB	29,1	43,7	58,3	65,6	80,2	87,5	94,8
SB-385716	EFXE-385716SB	33,4	50,1	66,8	75,2	91,9	100,3	108,7
SB-505016	EFXE-505016SB	35,8	53,8	71,7	80,7	98,6	107,6	116,6
SB-383827	EFXE-383827SB	35,1	52,7	70,2	79,0	96,6	105,4	114,2
SB-575716	EFXE-575716SB	41,5	62,3	83,1	93,5	114,3	124,7	135,1
SB-577620	EFXE-577620SB	53,9	80,9	107,9	121,3	148,3	161,8	175,3
SB-575730	EFXE-575730SB	55,8	83,7	111,6	125,6	153,5	167,5	181,4
SB-769520	EFXE-769520SB	72,2	108,3	144,4	162,4	198,5	216,6	234,6
SB-1258040	EFXE-1258040SB	72,2	108,3	144,4	162,4	198,5	216,6	234,6

Enclosure types (Stainless steel)		Maximum power dissipation (W) – Tamb. up to **50**°C						
		INTERNAL TEMP.60°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
SB-101210	EFXE-101210SB	2,7	5,5	8,3	9,7	12,5	13,9	15,3
SB-151510	EFXE-151510SB	4,0	8,0	12,0	14,0	18,0	20,0	22,0
SB-142013	EFXE-142013SB	5,2	10,4	15,7	18,3	23,5	26,2	28,8
SB-202010	EFXE-202010SB	5,3	10,7	16,1	18,7	24,1	26,8	29,5
SB-202016	EFXE-202016SB	6,9	13,9	20,8	24,3	31,3	34,8	38,3
SB-202713	EFXE-202713SB	7,2	14,4	21,6	25,2	32,5	36,1	39,7
SB-272713	EFXE-272713SB	8,3	16,7	25,1	29,3	37,7	41,8	46,0
SB-203016	EFXE-203016SB	8,5	17,1	25,7	30,0	38,6	42,9	47,2
SB-273513	EFXE-273513SB	9,6	19,2	28,9	33,7	43,3	48,2	53,0
SB-282816	EFXE-282816SB	9,6	19,3	29,0	33,9	43,6	48,4	53,3
SB-204016	EFXE-204016SB	10,1	20,2	30,3	35,4	45,5	50,5	55,6
SB-353516	EFXE-353516SB	12,2	24,4	36,6	42,7	54,9	61,0	67,1
SB-282827	EFXE-282827SB	13,1	26,2	39,3	45,9	59,0	65,6	72,2
SB-355016	EFXE-355016SB	14,8	29,7	44,5	52,0	66,8	74,3	81,7
SB-383816	EFXE-383816SB	13,3	26,6	39,9	46,5	59,8	66,5	73,1
SB-384516	EFXE-384516SB	14,5	29,1	43,7	51,0	65,6	72,9	80,2
SB-385716	EFXE-385716SB	16,7	33,4	50,1	58,5	75,2	83,6	91,9
SB-505016	EFXE-505016SB	17,9	35,8	53,8	62,7	80,7	89,7	98,6
SB-383827	EFXE-383827SB	17,5	35,1	52,7	61,4	79,0	87,8	96,6
SB-575716	EFXE-575716SB	20,7	41,5	62,3	72,7	93,5	103,9	114,3
SB-577620	EFXE-577620SB	26,9	53,9	80,9	94,4	121,3	134,8	148,3
SB-575730	EFXE-575730SB	27,9	55,8	83,7	97,7	125,6	139,5	153,5
SB-769520	EFXE-769520SB	36,1	72,2	108,3	126,3	162,4	180,5	198,5
SB-1258040	EFXE-1258040SB	36,1	72,2	108,3	126,3	162,4	180,5	198,5

Enclosure types (Stainless steel)		Maximum power dissipation (W) – Tamb. up to **55**°C						
		INTERNAL TEMP.65°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
SB-101210	EFXE-101210SB	2,7	4,1	6,9	8,3	11,1	12,5	13,9
SB-151510	EFXE-151510SB	4,0	6,0	10,0	12,0	16,0	18,0	20,0
SB-142013	EFXE-142013SB	5,2	7,8	13,1	15,7	20,9	23,5	26,2
SB-202010	EFXE-202010SB	5,3	8,0	13,4	16,1	21,4	24,1	26,8
SB-202016	EFXE-202016SB	6,9	10,4	17,4	20,8	27,8	31,3	34,8
SB-202713	EFXE-202713SB	7,2	10,8	18,0	21,6	28,9	32,5	36,1
SB-272713	EFXE-272713SB	8,3	12,5	20,9	25,1	33,5	37,7	41,8
SB-203016	EFXE-203016SB	8,5	12,8	21,4	25,7	34,3	38,6	42,9
SB-273513	EFXE-273513SB	9,6	14,4	24,1	28,9	38,5	43,3	48,2
SB-282816	EFXE-282816SB	9,6	14,5	24,2	29,0	38,7	43,6	48,4
SB-204016	EFXE-204016SB	10,1	15,1	25,2	30,3	40,4	45,5	50,5
SB-353516	EFXE-353516SB	12,2	18,3	30,5	36,6	48,8	54,9	61,0
SB-282827	EFXE-282827SB	13,1	19,6	32,8	39,3	52,5	59,0	65,6
SB-355016	EFXE-355016SB	14,8	22,2	37,1	44,5	59,4	66,8	74,3
SB-383816	EFXE-383816SB	13,3	19,9	33,2	39,9	53,2	59,8	66,5
SB-384516	EFXE-384516SB	14,5	21,8	36,4	43,7	58,3	65,6	72,9
SB-385716	EFXE-385716SB	16,7	25,0	41,8	50,1	66,8	75,2	83,6
SB-505016	EFXE-505016SB	17,9	26,9	44,8	53,8	71,7	80,7	89,7
SB-383827	EFXE-383827SB	17,5	26,3	43,9	52,7	70,2	79,0	87,8
SB-575716	EFXE-575716SB	20,7	31,1	51,9	62,3	83,1	93,5	103,9
SB-577620	EFXE-577620SB	26,9	40,4	67,4	80,9	107,9	121,3	134,8
SB-575730	EFXE-575730SB	27,9	41,8	69,7	83,7	111,6	125,6	139,5
SB-769520	EFXE-769520SB	36,1	54,1	90,2	108,3	144,4	162,4	180,5
SB-1258040	EFXE-1258040SB	36,1	54,1	90,2	108,3	144,4	162,4	180,5

Enclosure types (Stainless steel)		Maximum power dissipation (W) – Tamb. up to **60**°C					
		INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
SB-101210	EFXE-101210SB	2,7	5,5	6,9	9,7	11,1	12,5
SB-151510	EFXE-151510SB	4,0	8,0	10,0	14,0	16,0	18,0
SB-142013	EFXE-142013SB	5,2	10,4	13,1	18,3	20,9	23,5
SB-202010	EFXE-202010SB	5,3	10,7	13,4	18,7	21,4	24,1
SB-202016	EFXE-202016SB	6,9	13,9	17,4	24,3	27,8	31,3
SB-202713	EFXE-202713SB	7,2	14,4	18,0	25,2	28,9	32,5
SB-272713	EFXE-272713SB	8,3	16,7	20,9	29,3	33,5	37,7
SB-203016	EFXE-203016SB	8,5	17,1	21,4	30,0	34,3	38,6
SB-273513	EFXE-273513SB	9,6	19,2	24,1	33,7	38,5	43,3
SB-282816	EFXE-282816SB	9,6	19,3	24,2	33,9	38,7	43,6
SB-204016	EFXE-204016SB	10,1	20,2	25,2	35,4	40,4	45,5
SB-353516	EFXE-353516SB	12,2	24,4	30,5	42,7	48,8	54,9
SB-282827	EFXE-282827SB	13,1	26,2	32,8	45,9	52,5	59,0
SB-355016	EFXE-355016SB	14,8	29,7	37,1	52,0	59,4	66,8
SB-383816	EFXE-383816SB	13,3	26,6	33,2	46,5	53,2	59,8
SB-384516	EFXE-384516SB	14,5	29,1	36,4	51,0	58,3	65,6
SB-385716	EFXE-385716SB	16,7	33,4	41,8	58,5	66,8	75,2
SB-505016	EFXE-505016SB	17,9	35,8	44,8	62,7	71,7	80,7
SB-383827	EFXE-383827SB	17,5	35,1	43,9	61,4	70,2	79,0
SB-575716	EFXE-575716SB	20,7	41,5	51,9	72,7	83,1	93,5
SB-577620	EFXE-577620SB	26,9	53,9	67,4	94,4	107,9	121,3
SB-575730	EFXE-575730SB	27,9	55,8	69,7	97,7	111,6	125,6
SB-769520	EFXE-769520SB	36,1	72,2	90,2	126,3	144,4	162,4
SB-1258040	EFXE-1258040SB	36,1	72,2	90,2	126,3	144,4	162,4

Enclosure types (Stainless steel)		Maximum power dissipation (W) – Tamb. up to **95**°C	
		INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
SB-101210	EFXE-101210SB	1,3	2,7
SB-151510	EFXE-151510SB	2,0	4,0
SB-142013	EFXE-142013SB	2,6	5,2
SB-202010	EFXE-202010SB	2,6	5,3
SB-202016	EFXE-202016SB	3,4	6,9
SB-202713	EFXE-202713SB	3,6	7,2
SB-272713	EFXE-272713SB	4,1	8,3
SB-203016	EFXE-203016SB	4,2	8,5
SB-273513	EFXE-273513SB	4,8	9,6
SB-282816	EFXE-282816SB	4,8	9,6
SB-204016	EFXE-204016SB	5,0	10,1
SB-353516	EFXE-353516SB	6,1	12,2
SB-282827	EFXE-282827SB	6,5	13,1
SB-355016	EFXE-355016SB	7,4	14,8
SB-383816	EFXE-383816SB	6,6	13,3
SB-384516	EFXE-384516SB	7,2	14,5
SB-385716	EFXE-385716SB	8,3	16,7
SB-505016	EFXE-505016SB	8,9	17,9
SB-383827	EFXE-383827SB	8,7	17,5
SB-575716	EFXE-575716SB	10,3	20,7
SB-577620	EFXE-577620SB	13,4	26,9
SB-575730	EFXE-575730SB	13,9	27,9
SB-769520	EFXE-769520SB	18,0	36,1
SB-1258040	EFXE-1258040SB	18,0	36,1

Power dissipation – Stainless steel enclosures ST series

Enclosure types (Stainless steel)		Maximum power dissipation (W) – Tamb. up to **40**°C						
		INTERNAL TEMP.60°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
ST-101210	EFXE-101210ST	5,5	8,3	11,1	12,5	15,3	16,7	18,1
ST-151510	EFXE-151510ST	8,0	12,0	16,0	18,0	22,0	24,0	26,1
ST-142013	EFXE-142013ST	10,4	15,7	20,9	23,5	28,8	31,4	34,0
ST-202010	EFXE-202010ST	10,7	16,1	21,4	24,1	29,5	32,2	34,8
ST-202016	EFXE-202016ST	13,9	20,8	27,8	31,3	38,3	41,7	45,2
ST-202713	EFXE-202713ST	14,4	21,6	28,9	32,5	39,7	43,3	46,9
ST-272713	EFXE-272713ST	16,7	25,1	33,5	37,7	46,0	50,2	54,4
ST-203016	EFXE-203016ST	17,1	25,7	34,3	38,6	47,2	51,4	55,7
ST-273513	EFXE-273513ST	19,2	28,9	38,5	43,3	53,0	57,8	62,6
ST-282816	EFXE-282816ST	19,3	29,0	38,7	43,6	53,3	58,1	63,0
ST-204016	EFXE-204016ST	20,2	30,3	40,4	45,5	55,6	60,6	65,7
ST-353516	EFXE-353516ST	24,4	36,6	48,8	54,9	67,1	73,2	79,3
ST-282827	EFXE-282827ST	26,2	39,3	52,5	59,0	72,2	78,7	85,3
ST-355016	EFXE-355016ST	29,7	44,5	59,4	66,8	81,7	89,1	96,6
ST-383816	EFXE-383816ST	26,6	39,9	53,2	59,8	73,1	79,8	86,5
ST-384516	EFXE-384516ST	29,1	43,7	58,3	65,6	80,2	87,5	94,8
ST-385716	EFXE-385716ST	33,4	50,1	66,8	75,2	91,9	100,3	108,7
ST-505016	EFXE-505016ST	35,8	53,8	71,7	80,7	98,6	107,6	116,6
ST-383827	EFXE-383827ST	35,1	52,7	70,2	79,0	96,6	105,4	114,2
ST-575716	EFXE-575716ST	41,5	62,3	83,1	93,5	114,3	124,7	135,1
ST-577620	EFXE-577620ST	53,9	80,9	107,9	121,3	148,3	161,8	175,3
ST-575730	EFXE-575730ST	55,8	83,7	111,6	125,6	153,5	167,5	181,4
ST-769520	EFXE-769520ST	72,2	108,3	144,4	162,4	198,5	216,6	234,6
ST-1258040	EFXE-1258040ST	72,2	108,3	144,4	162,4	198,5	216,6	234,6

Enclosure types (Stainless steel)		Maximum power dissipation (W) – Tamb. up to **50**°C						
		INTERNAL TEMP.60°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
ST-101210	EFXE-101210ST	2,7	5,5	8,3	9,7	12,5	13,9	15,3
ST-151510	EFXE-151510ST	4,0	8,0	12,0	14,0	18,0	20,0	22,0
ST-142013	EFXE-142013ST	5,2	10,4	15,7	18,3	23,5	26,2	28,8
ST-202010	EFXE-202010ST	5,3	10,7	16,1	18,7	24,1	26,8	29,5
ST-202016	EFXE-202016ST	6,9	13,9	20,8	24,3	31,3	34,8	38,3
ST-202713	EFXE-202713ST	7,2	14,4	21,6	25,2	32,5	36,1	39,7
ST-272713	EFXE-272713ST	8,3	16,7	25,1	29,3	37,7	41,8	46,0
ST-203016	EFXE-203016ST	8,5	17,1	25,7	30,0	38,6	42,9	47,2
ST-273513	EFXE-273513ST	9,6	19,2	28,9	33,7	43,3	48,2	53,0
ST-282816	EFXE-282816ST	9,6	19,3	29,0	33,9	43,6	48,4	53,3
ST-204016	EFXE-204016ST	10,1	20,2	30,3	35,4	45,5	50,5	55,6
ST-353516	EFXE-353516ST	12,2	24,4	36,6	42,7	54,9	61,0	67,1
ST-282827	EFXE-282827ST	13,1	26,2	39,3	45,9	59,0	65,6	72,2
ST-355016	EFXE-355016ST	14,8	29,7	44,5	52,0	66,8	74,3	81,7
ST-383816	EFXE-383816ST	13,3	26,6	39,9	46,5	59,8	66,5	73,1
ST-384516	EFXE-384516ST	14,5	29,1	43,7	51,0	65,6	72,9	80,2
ST-385716	EFXE-385716ST	16,7	33,4	50,1	58,5	75,2	83,6	91,9
ST-505016	EFXE-505016ST	17,9	35,8	53,8	62,7	80,7	89,7	98,6
ST-383827	EFXE-383827ST	17,5	35,1	52,7	61,4	79,0	87,8	96,6
ST-575716	EFXE-575716ST	20,7	41,5	62,3	72,7	93,5	103,9	114,3
ST-577620	EFXE-577620ST	26,9	53,9	80,9	94,4	121,3	134,8	148,3
ST-575730	EFXE-575730ST	27,9	55,8	83,7	97,7	125,6	139,5	153,5
ST-769520	EFXE-769520ST	36,1	72,2	108,3	126,3	162,4	180,5	198,5
ST-1258040	EFXE-1258040ST	36,1	72,2	108,3	126,3	162,4	180,5	198,5

Enclosure types (Stainless steel)		Maximum power dissipation (W) – Tamb. up to **55**°C						
		INTERNAL TEMP.65°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
ST-101210	EFXE-101210ST	2,7	4,1	6,9	8,3	11,1	12,5	13,9
ST-151510	EFXE-151510ST	4,0	6,0	10,0	12,0	16,0	18,0	20,0
ST-142013	EFXE-142013ST	5,2	7,8	13,1	15,7	20,9	23,5	26,2
ST-202010	EFXE-202010ST	5,3	8,0	13,4	16,1	21,4	24,1	26,8
ST-202016	EFXE-202016ST	6,9	10,4	17,4	20,8	27,8	31,3	34,8
ST-202713	EFXE-202713ST	7,2	10,8	18,0	21,6	28,9	32,5	36,1
ST-272713	EFXE-272713ST	8,3	12,5	20,9	25,1	33,5	37,7	41,8
ST-203016	EFXE-203016ST	8,5	12,8	21,4	25,7	34,3	38,6	42,9
ST-273513	EFXE-273513ST	9,6	14,4	24,1	28,9	38,5	43,3	48,2
ST-282816	EFXE-282816ST	9,6	14,5	24,2	29,0	38,7	43,6	48,4
ST-204016	EFXE-204016ST	10,1	15,1	25,2	30,3	40,4	45,5	50,5
ST-353516	EFXE-353516ST	12,2	18,3	30,5	36,6	48,8	54,9	61,0
ST-282827	EFXE-282827ST	13,1	19,6	32,8	39,3	52,5	59,0	65,6
ST-355016	EFXE-355016ST	14,8	22,2	37,1	44,5	59,4	66,8	74,3
ST-383816	EFXE-383816ST	13,3	19,9	33,2	39,9	53,2	59,8	66,5
ST-384516	EFXE-384516ST	14,5	21,8	36,4	43,7	58,3	65,6	72,9
ST-385716	EFXE-385716ST	16,7	25,0	41,8	50,1	66,8	75,2	83,6
ST-505016	EFXE-505016ST	17,9	26,9	44,8	53,8	71,7	80,7	89,7
ST-383827	EFXE-383827ST	17,5	26,3	43,9	52,7	70,2	79,0	87,8
ST-575716	EFXE-575716ST	20,7	31,1	51,9	62,3	83,1	93,5	103,9
ST-577620	EFXE-577620ST	26,9	40,4	67,4	80,9	107,9	121,3	134,8
ST-575730	EFXE-575730ST	27,9	41,8	69,7	83,7	111,6	125,6	139,5
ST-769520	EFXE-769520ST	36,1	54,1	90,2	108,3	144,4	162,4	180,5
ST-1258040	EFXE-1258040ST	36,1	54,1	90,2	108,3	144,4	162,4	180,5

Enclosure types (Stainless steel)		Maximum power dissipation (W) – Tamb. up to **60**°C					
		INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
ST-101210	EFXE-101210ST	2,7	5,5	6,9	9,7	11,1	12,5
ST-151510	EFXE-151510ST	4,0	8,0	10,0	14,0	16,0	18,0
ST-142013	EFXE-142013ST	5,2	10,4	13,1	18,3	20,9	23,5
ST-202010	EFXE-202010ST	5,3	10,7	13,4	18,7	21,4	24,1
ST-202016	EFXE-202016ST	6,9	13,9	17,4	24,3	27,8	31,3
ST-202713	EFXE-202713ST	7,2	14,4	18,0	25,2	28,9	32,5
ST-272713	EFXE-272713ST	8,3	16,7	20,9	29,3	33,5	37,7
ST-203016	EFXE-203016ST	8,5	17,1	21,4	30,0	34,3	38,6
ST-273513	EFXE-273513ST	9,6	19,2	24,1	33,7	38,5	43,3
ST-282816	EFXE-282816ST	9,6	19,3	24,2	33,9	38,7	43,6
ST-204016	EFXE-204016ST	10,1	20,2	25,2	35,4	40,4	45,5
ST-353516	EFXE-353516ST	12,2	24,4	30,5	42,7	48,8	54,9
ST-282827	EFXE-282827ST	13,1	26,2	32,8	45,9	52,5	59,0
ST-355016	EFXE-355016ST	14,8	29,7	37,1	52,0	59,4	66,8
ST-383816	EFXE-383816ST	13,3	26,6	33,2	46,5	53,2	59,8
ST-384516	EFXE-384516ST	14,5	29,1	36,4	51,0	58,3	65,6
ST-385716	EFXE-385716ST	16,7	33,4	41,8	58,5	66,8	75,2
ST-505016	EFXE-505016ST	17,9	35,8	44,8	62,7	71,7	80,7
ST-383827	EFXE-383827ST	17,5	35,1	43,9	61,4	70,2	79,0
ST-575716	EFXE-575716ST	20,7	41,5	51,9	72,7	83,1	93,5
ST-577620	EFXE-577620ST	26,9	53,9	67,4	94,4	107,9	121,3
ST-575730	EFXE-575730ST	27,9	55,8	69,7	97,7	111,6	125,6
ST-769520	EFXE-769520ST	36,1	72,2	90,2	126,3	144,4	162,4
ST-1258040	EFXE-1258040ST	36,1	72,2	90,2	126,3	144,4	162,4

Enclosure types (Stainless steel)		Maximum power dissipation (W) – Tamb. up to **95**°C	
		INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
ST-101210	EFXE-101210ST	1,3	2,7
ST-151510	EFXE-151510ST	2,0	4,0
ST-142013	EFXE-142013ST	2,6	5,2
ST-202010	EFXE-202010ST	2,6	5,3
ST-202016	EFXE-202016ST	3,4	6,9
ST-202713	EFXE-202713ST	3,6	7,2
ST-272713	EFXE-272713ST	4,1	8,3
ST-203016	EFXE-203016ST	4,2	8,5
ST-273513	EFXE-273513ST	4,8	9,6
ST-282816	EFXE-282816ST	4,8	9,6
ST-204016	EFXE-204016ST	5,0	10,1
ST-353516	EFXE-353516ST	6,1	12,2
ST-282827	EFXE-282827ST	6,5	13,1
ST-355016	EFXE-355016ST	7,4	14,8
ST-383816	EFXE-383816ST	6,6	13,3
ST-384516	EFXE-384516ST	7,2	14,5
ST-385716	EFXE-385716ST	8,3	16,7
ST-505016	EFXE-505016ST	8,9	17,9
ST-383827	EFXE-383827ST	8,7	17,5
ST-575716	EFXE-575716ST	10,3	20,7
ST-577620	EFXE-577620ST	13,4	26,9
ST-575730	EFXE-575730ST	13,9	27,9
ST-769520	EFXE-769520ST	18,0	36,1
ST-1258040	EFXE-1258040ST	18,0	36,1

Maximum Power Dissipation calculation

The values specified in the tables as per clause 2.1.1 may be modified within the maximum admitted Tamb and maximum admitted internal temperature as follows.

$$Pdiss\ (W) = \frac{Tmax - Tamb}{Rth}$$

$Rth = A \times (\text{enclosure surface in } mm^2 \text{ except enclosure bottom})^B$

Legend:
Rth – Thermal resistance [K/W].
Tmax – Maximum allowed temperature inside enclosure.
Tamb – Ambient temperature of enclosure
A and B - coefficients determined for each series of enclosure. Exact values are given in manufacturer's documentation.

Warning labels:

WARNING – DO NOT OPEN WHEN ENERGIZED (*)
(*) Not mandatory for apparatus with protection type Ex ia Ga and Ex ib Gb.

WARNING – POTENTIAL ELECTROSTATIC CHARGING HAZARD – SEE INSTRUCTIONS

To be added when the enclosures or parts of them have a surface resistance more than 10^9 Ω or 10^{11} Ω according to IEC 60079-0 Clause 7.4.2 a), as applicable, and as per following cases:

- are equipped with transparent parts made of polycarbonate.
- for category II 2 G / EPL Gb Gas group IIC: are painted and the paint layer thickness is > 0.2mm.
- for category II 2 G / EPL Gb Gas group IIB: are painted and the paint layer thickness is > 2mm.
- for category II 2 D / EPL Db: are painted and the paint layer thickness is > 2mm.
- for category II 2 G / EPL Gb Gas group IIC: not conductive individual materials (labels), applied on painted enclosures, have exposed (chargeable area) > 2000mm^2 or, not conductive individual materials (labels), applied on unpainted (conductive earthed surface) enclosures, have exposed (chargeable area) > 8000mm^2.
- for category II 2 G /EPL Gb Gas group IIB: not conductive individual materials (labels), applied on painted enclosures, have exposed (chargeable area) > 10000mm^2 or, not conductive individual materials (labels), applied on unpainted (conductive earthed surface) enclosures, have exposed (chargeable area) > 40000mm^2.

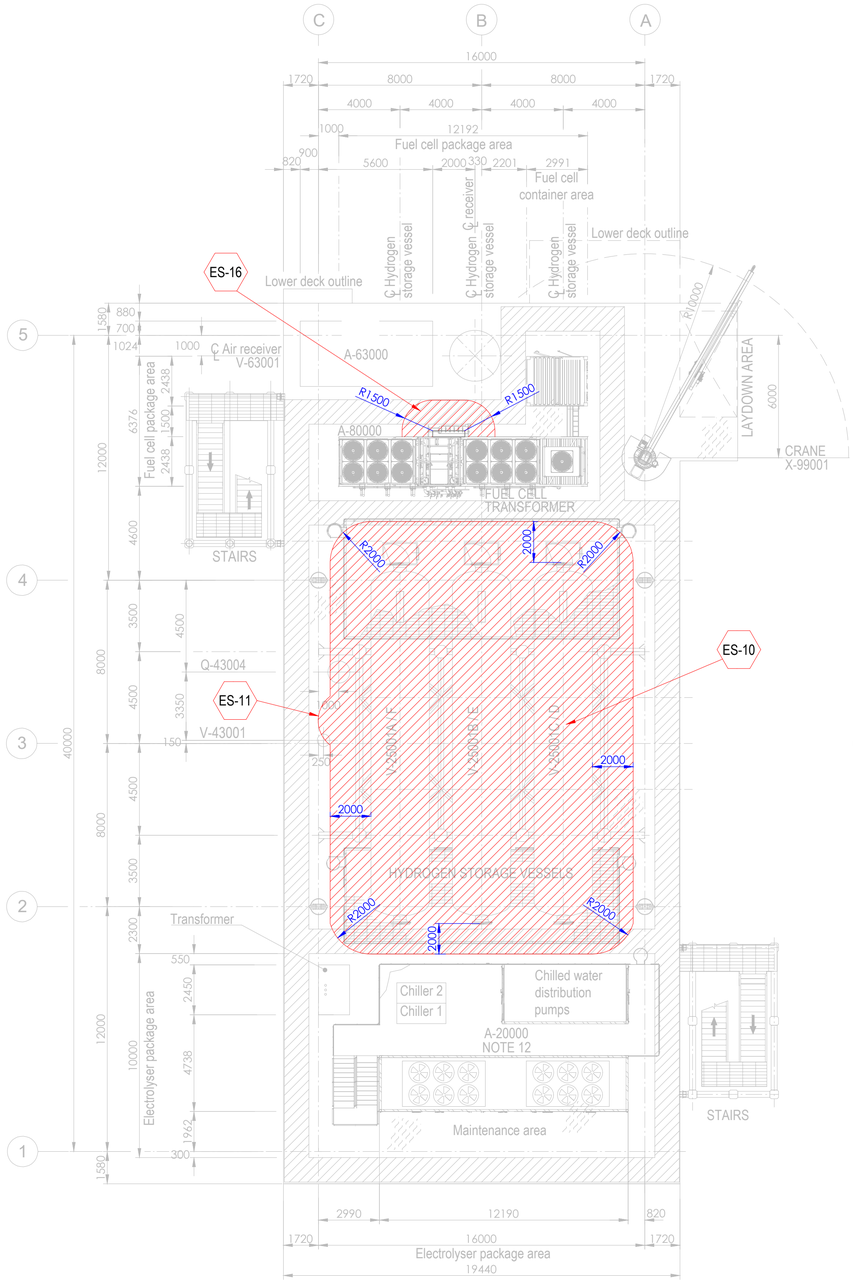
OPEN THE VALVE ONLY WHEN THE APPARATUS IS DE-ENERGIZED AND ONLY WHEN AN EXPLOSIVE DUST ATMOSPHERE IS NOT PRESENT
To be added on Ex tb apparatus equipped with the drain / venting device ECR3.

Other warnings depend on the components actually mounted, according to the component manufacturer's documentation.

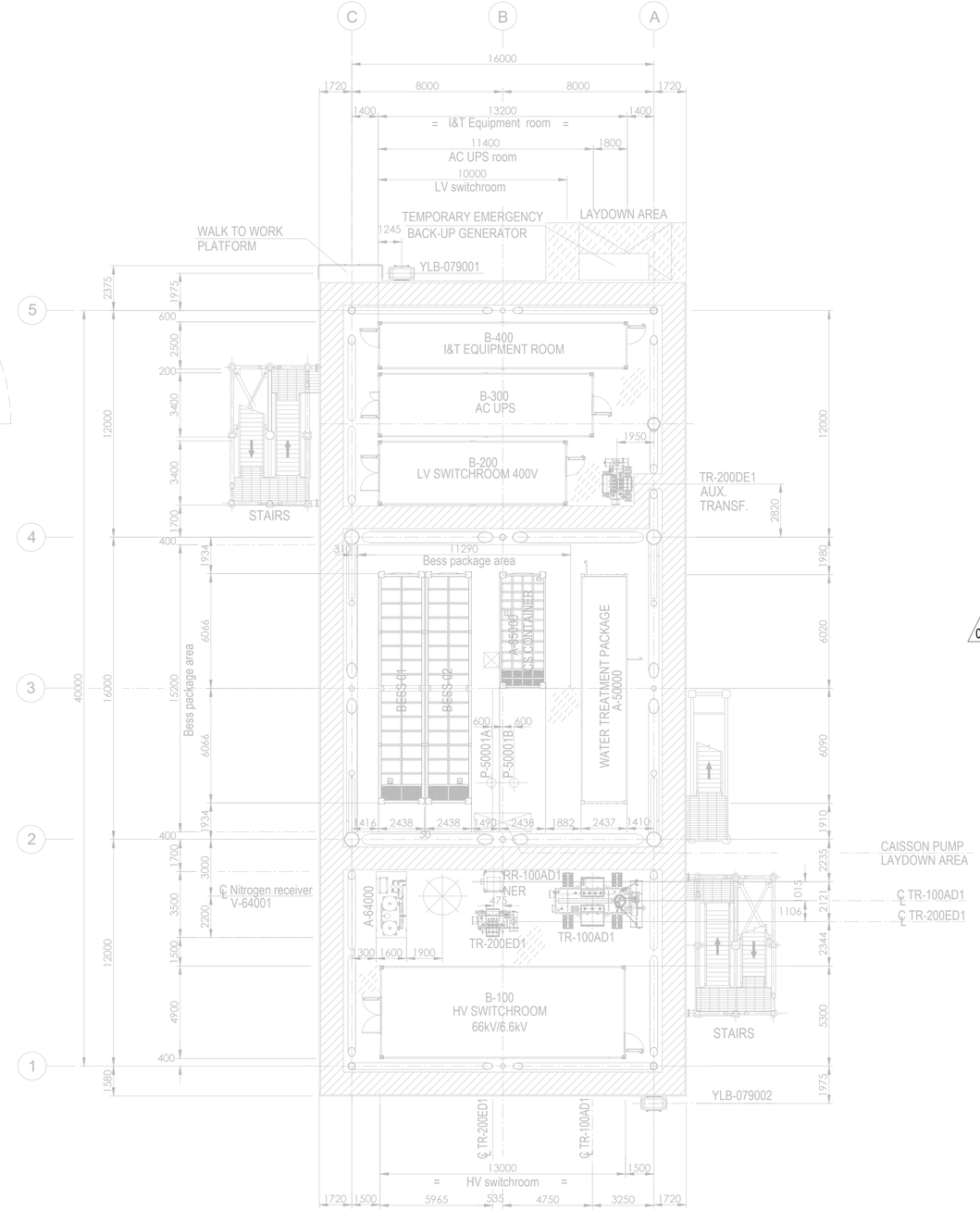
The tables below state the maximum power dissipation values (W) related to the internal temperature (Tint) and ambient temperature (Tamb).

DRAWING NO. 123A90-DDL-SAF-DL-30022

REV. 02



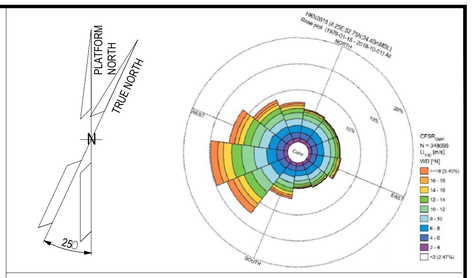
PLAN ON UPPER DECK
EL+30.310 T.O.S.



PLAN ON LOWER DECK
EL+23.310 T.O.S.

Tag No.	Equipment Tag	Description	Material	Ventilation Type
01	P-50001 A/B	SEA WATER LIFT PUMPS	SEA WATER	NATURAL (OPEN AREA)
02	Q-43004	HYDROGEN VENT	HYDROGEN	NATURAL (OPEN AREA)
03	V-43001	HYDROGEN VENT KO DRUM	HYDROGEN	NATURAL (OPEN AREA)
04	V-25001 (A/B/C/D/E/F)	HYDROGEN STORAGE VESSELS	HYDROGEN	NATURAL (OPEN AREA)
05	V-63001	AIR RECEIVER	INSTRUMENT AIR	NATURAL (OPEN AREA)
06	A-20000	ELECTROLYSER PACKAGE		
07	A-63000	INSTRUMENT AIR PACKAGE		
08	A-80000	FUEL CELL PACKAGE		
09	A-85000	BESS PACKAGE		
10	YLB-079001/2	LIFE RAFTS		
11	A-50000	WATER TREATMENT PACKAGE		

Tag No.	Equipment Tag	Description	Material	Ventilation Type
12	A-64000	NITROGEN SYSTEM		
13	B-100	HV SWITCHROOM 66kV/6.6kV		
14	B-200	LV SWITCHROOM 400V		
15	B-300	AC UPS EQUIPMENT ROOM		
16	B-400	I&T EQUIPMENT ROOM		
17	TR-100AD1	TRANSFORMER MAIN 66kV/6.6kV		
18	RR-100AD1-NER	NEUTRAL EARTHING RESISTOR		
19	TR-200DE1	TRANSFORMER AUX. 6.6kV/0.4kV		
20	TR-200ED1	SOLAR TRANSFORMER PV FARM EQUIPMENT		
21	X-99001	CRANE		
22	V-64001	NITROGEN RECEIVER		



NOTES

1. ALL DIMENSIONS IN mm U.N.O.
2. ALL ELEVATIONS IN METERS.
3. PLATFORM NORTH DIRECTION IS N 25°W.
4. VENT TOP SHALL BE REACHEABLE FOR MAINTENANCE PURPOSE.
5. THE BESS IS CONSIDERED SAFE AREA EXCEPT EXTRACTORES FROM BATTERIES , CURRENTLY NOT SHOWN IN DRAWINGS, SINCE INFORMATION FROM VENDOR IS NOT YET AVAILABLE.[ES17].
6. THE LOCATION OF EMISSION SOURCES ON THE LAYOUT ARE ONLY INDICATIVE. EMISSION SOURCES CONSIDERED ARE PRESENT WITHIN THE EXTENSION OF HAZARDOUS CLASSIFIED AREAS SHOWN ON THE LAYOUT. THIS IS BECAUSE VALVES AND FLANGES,WHICH ARE CONSIDERED POTENTIAL SOURCES OF RELEASE POINTS FOR FLAMMABLE GAS ARE NOT SHOWN ON CURRENT LAYOUT PROVIDED. THE SAME APPLIES TO THE EMISSION SOURCES FOR CPI'S ITEM.
7. IDENTIFIED EMISSION SOURCES DETAIL.

02
8. FOR DETAILS RELATED TO ELECTROLYSER PACKAGE INTERNAL ENCLOSURES REFER TO DRAWING 224J10-DDL-PP-DA-00001 REV 0.
9. FOR DETAILS RELATED TO FUELL CELL PACKAGE INTERNAL ENCLOSURES REFER TO DRAWING K559-2254-CWIWP4202202-B01-001 REV 009".
10. THE N.6 HYDROGEN STORAGE VESSELS ARE NOT CLASSIFIED INTERNALLY SINCE THEY ARE DESIGNED TO CONTAIN HYDROGEN OR NITROGEN FOR THE ENTIRE DURATION OF THE 2 YEARS OF OPERATION.

EMISSION SOURCE No.	IDENTIFIED AREAS
ES10	HYDROGEN STORAGE VESSLES
ES11	HYDROGEN VENT KO DRUM
ES16	FUEL CELL

LEGEND

ZONE 0 — ZONE 1

ZONE 2 — ES EMISSION SOURCES

123A90-DDL-PP-DS-70071	PLOT PLAN - BELOW LOWER DECK
123A90-DDL-PP-DS-70072	PLOT PLAN - ELEVATION LOOKING NORTH & EAST

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	15/01/25	MMA	CCA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	27/08/24	MMA	CCA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	08/02/24	MMA	CCA	DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND

ROSETTI MARINO

TITLE :
BASE LOAD POWER HUB (BLPH)
HAZARDOUS AREA CLASSIFICATION
LOWER & UPPER DECK

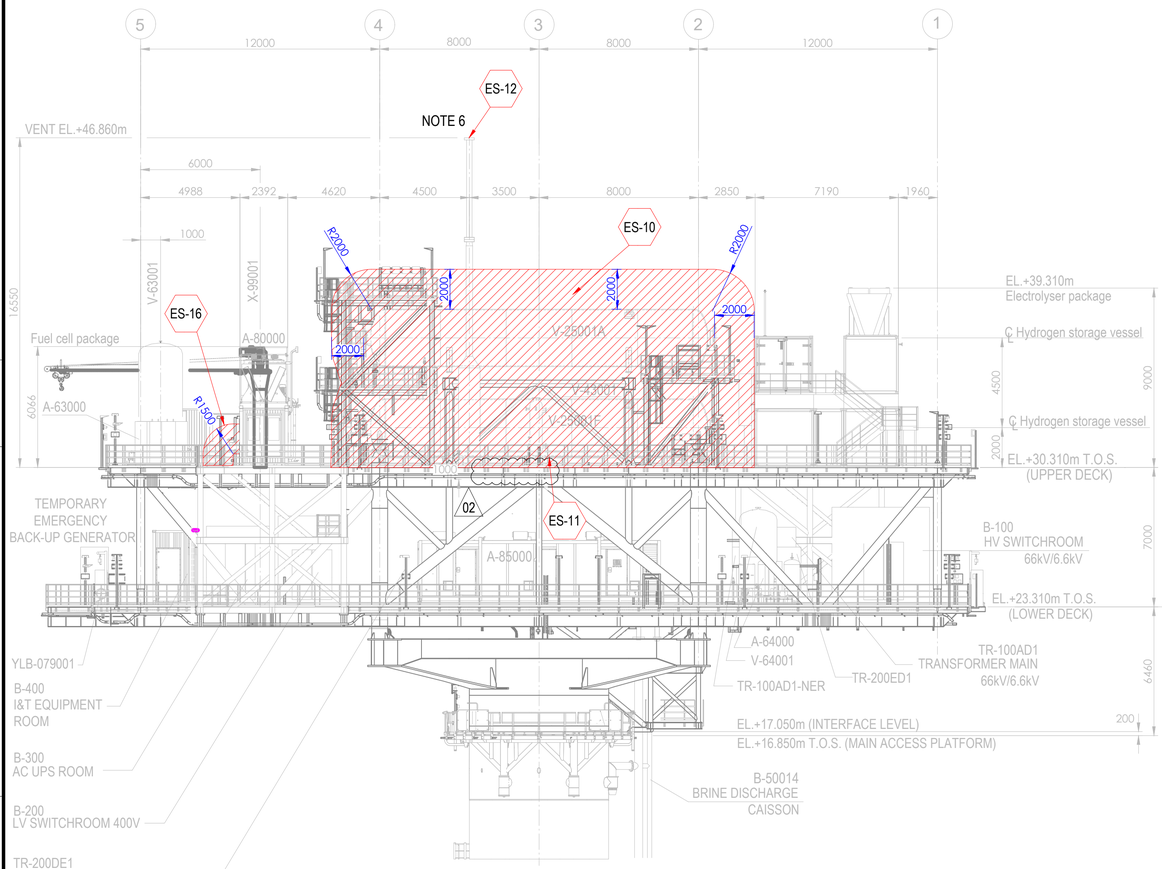
CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK			SCALE 1:150
DRAWN M. MAGNI	CHECKED C. CARACCIOLO	APPROVED D. LO STERZO	DATE 03/07/24

	DRAWING NO.	SHEET	REV.
A1	123A90-DDL-SAF-DL-30022	001	02

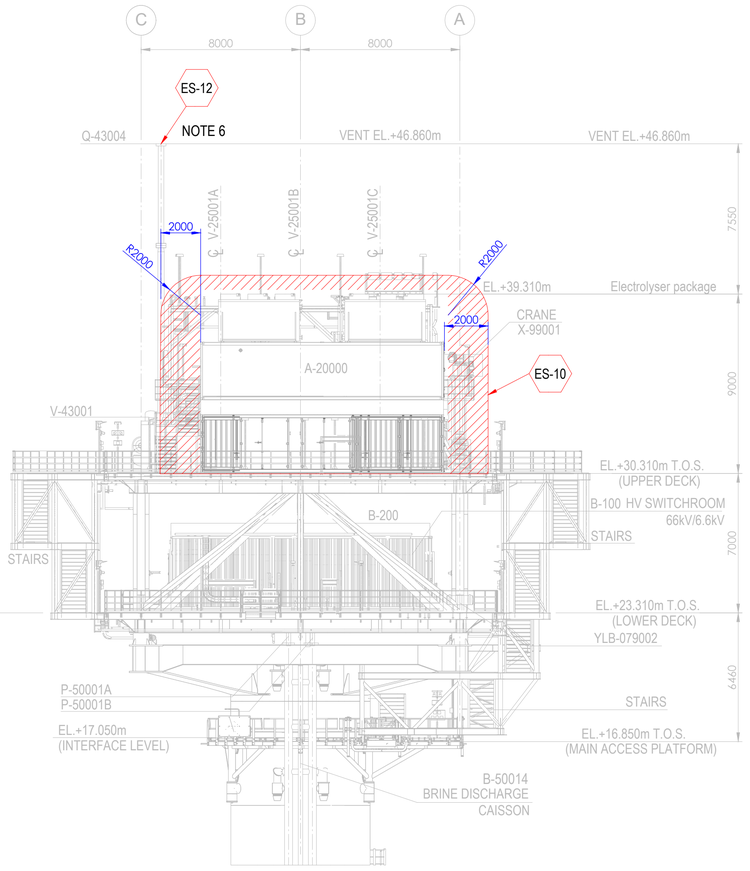
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DRAWING NO. 123A90-DDL-SAF-DL-30024

REV. 02

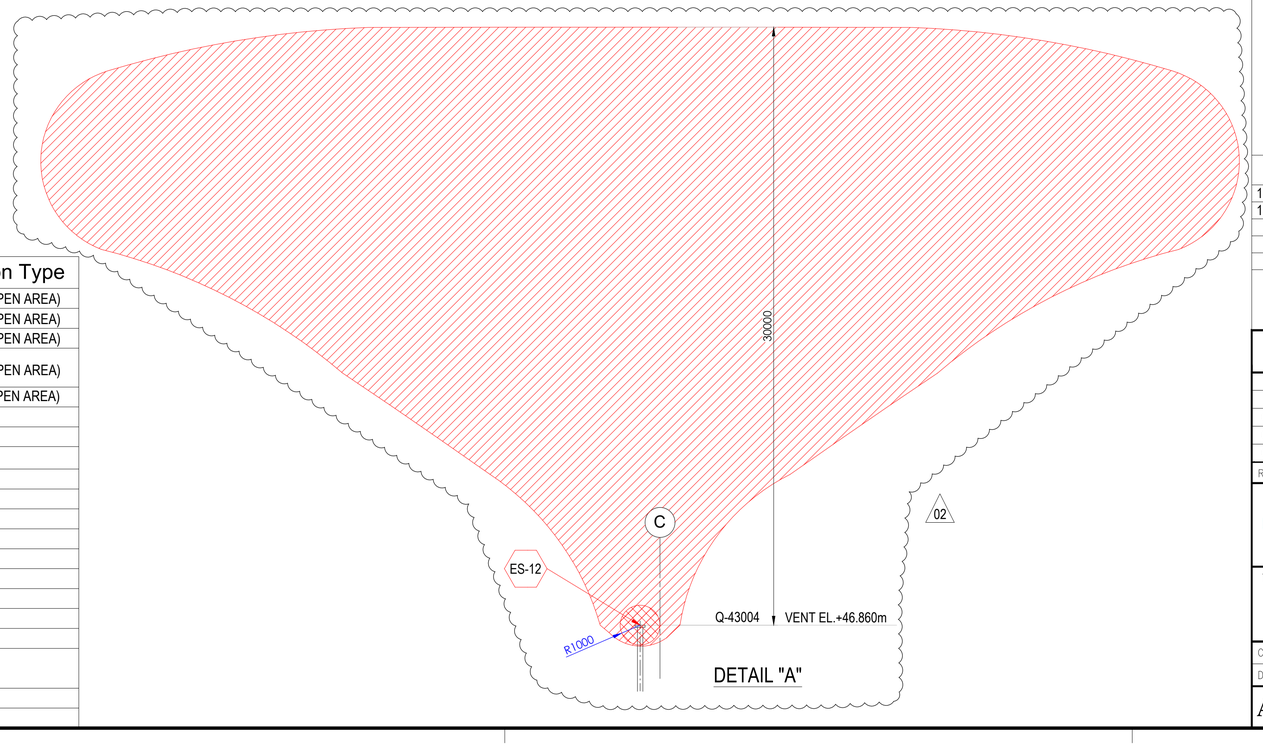


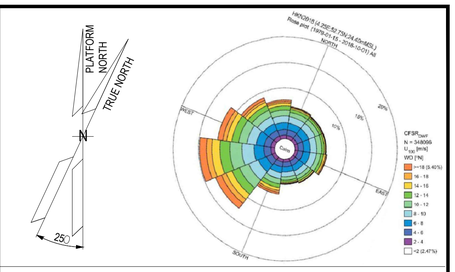
ELEVATION LOOKING EAST



ELEVATION LOOKING NORTH

Tag No.	Equipment Tag	Description	Material	Ventilation Type
01	P-50001 A/B	SEA WATER LIFT PUMPS	SEA WATER	NATURAL (OPEN AREA)
02	Q-43004	HYDROGEN VENT	HYDROGEN	NATURAL (OPEN AREA)
03	V-43001	HYDROGEN VENT KO DRUM	HYDROGEN	NATURAL (OPEN AREA)
04	V-25001 (A/B/C/D/E/F)	HYDROGEN STORAGE VESSELS	HYDROGEN	NATURAL (OPEN AREA)
05	V-63001	INSTRUMENT AIR RECEIVER	INSTRUMENT AIR	NATURAL (OPEN AREA)
06	A-20000	ELECTROLYSER PACKAGE		
07	A-63000	INSTRUMENT AIR PACKAGE		
08	A-80000	FUEL CELL PACKAGE		
09	A-85000	BESS PACKAGE		
10	YLB-079001/2	LIFE RAFTS		
11	B-100	HV SWITCHROOM 66kV/6.6kV		
12	B-200	LV SWITCHROOM 400V		
13	B-300	AC UPS EQUIPMENT ROOM		
14	B-400	I&T EQUIPMENT ROOM		
15	TR-100AD1	TRANSFORMER MAIN 66kV/6.6kV		
16	TR-100AD1-NER	NEUTRAL EARTHING RESISTOR		
17	TR-200DE1	TRANSFORMER AUX. 6.6kV/0.4kV		
18	TR-200ED1	SOLAR TRANSFORMER PV FARM EQUIPMENT		
19	X-99001	CRANE		
20	V-64001	NITROGEN RECEIVER		





NOTES

1. ALL DIMENSIONS IN mm U.N.O
2. ALL ELEVATIONS IN METERS.
3. PLATFORM NORTH DIRECTION IS N 25°W.
4. VENT TOP SHALL BE REACHEABLE FOR MAINTENANCE PURPOSE.
5. THE BESS IS CONSIDERED SAFE AREA EXCEPT EXTRACTORES FROM BATTERIES , CURRENTLY NOT SHOWN IN DRAWINGS, SINCE INFORMATION FROM VENDOR IS NOT YET AVAILABLE.[ES17]
6. FOR ES12 PLUME, PLEASE REFER TO THE DETAIL "A" BELOW. (02)
7. THE LOCATION OF EMISSION SOURCES ON THE LAYOUT ARE ONLY INDICATIVE. EMISSION SOURCES CONSIDERED ARE PRESENT WITHIN THE EXTENSION OF HAZARDOUS CLASSIFIED AREAS SHOWN ON THE LAYOUT. THIS IS BECAUSE VALVES AND FLANGES,WHICH ARE CONSIDERED POTENTIAL SOURCES OF RELEASE POINTS FOR FLAMMABLE GAS ARE NOT SHOWN ON CURRENT LAYOUT PROVIDED. THE SAME APPLIES TO THE EMISSION SOURCES FOR CPI'S ITEM.
8. IDENTIFIED EMISSION SOURCES DETAIL

EMISSION SOURCE No.	IDENTIFIED AREAS
ES10	HYDROGEN STORAGE VESSLES
ES11	HYDROGEN VENT KO DRUM
ES12	HYDROGEN VENT
ES16	FUEL CELL

LEGEND

ZONE 0 — ZONE 1

ZONE 2 — ES EMISSION SOURCES

REFERENCE DOCUMENTS

123A90-DDL-PP-DS-70070	PLOT PLAN - LOWER & UPPER DECK
123A90-DDL-PP-DS-70071	PLOT PLAN - BELOW LOWER DECK

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	15/01/24	MMA	CCA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	27/08/24	MMA	CCA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	08/02/24	MMA	CCA	DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND

ROSETTI MARINO

TITLE :
BASE LOAD POWER HUB (BLPH)
HAZARDOUS AREA CLASSIFICATION
ELEVATION LOOKING NORTH & EAST

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK			SCALE 1:150
DRAWN M. MAGNI	CHECKED C. CARACCIOLO	APPROVED D. LO STERZO	DATE 03/07/24

A1 | DRAWING NO. 123A90-DDL-SAF-DL-30024 | SHEET 001 | REV. 02

File Name : 123A90-DDL-SAF-DL-30024 Rev.02

ITEM	Tag	ELF-200N1-02-L1-01 : NORMAL LIGHT		Dwg	123A90-DDL-EL-DL-20118
	S/Sys	83-40 : Normal Lighting Upper Deck		Module	UD
TASK	code	C10001337	Location: Onshore Activities	User	Rosetti Marino Quality Control
FORM	Process	MC	Activity: CCK / Discipline: ATEX / Form: CJX01		Hazardous Area Equipment Detailed Inspection

Schedule Ref. #				**Area Code**					
Area Class Drawing	123A90-DDL-SAF-DL-30022			**Serial No.**	24/86772				
Manufacturer	Cortem Spa			**Model**	LIFEX-ME-1260N-BB				
Cert No.	CML 20 ATEX 3018X			**Equipment Ambient Temp.**	-60°C to +60°C				
Area Classification	Hazardous	**Zone**	2	**Gas group**	IIC	**Temp class**	T1		
Equipment Protection Type	Ex db	**EPL**	Gb	**Gas group**	IIC	**Temp class**	T5	**IP Rating**	IP66

Detailed Note:

1) Inspection shall only be performed by competent personnel

2) All fields are to be completed. Any non-applicable field shall state "NA". Comments are required for 'Failure' column ONLY.

3) An Inspection Sheet should be completed for EACH individual item of Equipment.

	General Equipment	Detailed	OK/NA/PL	Comments
1	Equipment is appropriate to the EPL / Zone requirements of the area	x	OK	
2	Equipment group is correct	x	OK	
3	Equipment temperature class is correct	x	OK	
4	Degree of IP protection of equipment is appropriate for the level of protection	x	OK	
5	Equipment circuit identification is correct	x	PL	
6	Equipment circuit identification is available	x	NA	
7	Enclosure glass parts and glass-to-metal sealing gaskets and / or compounds are satisfactory	x	OK	
8	There is no damage or unauthorized modifications	x	OK	
9	There is no evidence of unauthorized modifications	x	OK	
10	Bolts, cable entry devices (direct and indirect) & blanking elements are of the correct type, are complete & tight		NA	
	Physical check	x	PL	
11	Threaded covers on enclosures are of the correct type, are tight and secured		NA	
	Physical check	x	NA	
12	Joint surfaces are clean and undamaged and gaskets, if any, are satisfactory and positioned correctly	x	OK	
13	Condition of enclosure gaskets is satisfactory	x	OK	
14	There is no evidence or ingress of water or dust in the enclosure in accordance with the IP rating	x	OK	
15	Electrical connections are tight	x	OK	
16	Bridging links do not reduce creepage / clearance and are allowed	x	NA	
17	Unused terminals are tightened	x	OK	
18	Encapsulated components are undamaged	x	NA	
19	Flameproof components are undamaged	x	NA	
20	Fluorescent lamps are not indicating EOL effects (only for Ex "e" – Ex "n" – Ex "t")	x	NA	
21	HID lamps are not indicating EOL effects	x	NA	
22	Lamp type, rating, pin configuration and position are correct	x	NA	
23	Breathing and drainage devices are satisfactory	x	OK	
24	Type of cable is appropriate	x	OK	
25	There is no obvious damage to the cables	x	OK	
26	Cable glands are the correct type and installed correctly	x	OK	
27	Sealing of trunking, ducts, pipes and or conduits is satisfactory	x	NA	
28	Stopping boxes and cable boxes are corrected filled	x	OK	

ITEM	Tag	ELF-200N1-02-L1-01	: NORMAL LIGHT			Dwg	123A90-DDL-EL-DL-20118
	S/Sys	83-40	: Normal Lighting Upper Deck			Module	UD
TASK	code	C10001337		Location	Onshore Activities	User	Rosetti Marino Quality Control
FORM	Process	MC	Activity CCK	Discipline	ATEX	Form	CJX01 Hazardous Area Equipment Detailed Inspection

29	Integrity of conduit system and interface with mixed system maintained	x	NA	
30	Earthing connections, including any supplementary earthing bonding connections are satisfactory (for example connections are tight and conductors are of sufficient cross-section		NA	
	Physical check	x	PL	
31	Automated electric protective devices operate within permitted limits	x	NA	
32	Special conditions (if applicable) have been complied with.	x	OK	
33	All cable cores are uniquely labeled	x	OK	
34	Cable cores not in use are correctly terminated	x	NA	
35	Equipment is adequately protected against corrosion, weather, vibration and other adverse factors	x	PL	
36	No undue accumulation of dust and dirt	x	OK	
37	All equipment housings are clean and dry	x	OK	
38	All moving parts are free and have no mechanical damage	x	NA	
	Applicable for Installation of Heating Systems			
39	Temperature sensors function according to manufacturer's documents (only applicable for Ex-d e Ex-e)	x	NA	
40	Safety cut off devices function according to manufacturer's documents (only applicable for Ex-d e Ex-e)	x	NA	
41	The setting of the safety cut off is sealed (only applicable for Ex-d e Ex-e)	x	NA	
42	Reset of a heating system safety cut off possible with tool only(only applicable for Ex-d e Ex-e)	x	NA	
43	Auto-reset is not possible (only applicable for Ex-d e Ex-e)	x	NA	
44	Reset of a safety cut off under fault conditions is prevented (only applicable for Ex-d e Ex-e)	x	NA	
45	Safety cut off independent from control system (only applicable for Ex-d e Ex-e)	x	NA	
46	Level switch is installed and correctly set, if required (only applicable for Ex-d e Ex-e)	x	NA	
47	Flow switch is installed and correctly set, if required (only applicable for Ex-d e Ex-e)	x	NA	
	Extra Ex d checks			
48	Obstructions adjacent to flame proof flanged joints are in accordance with IEC 60079-14	x	NA	
49	Ex d conduits seals are fitted to all conduits and satisfactorily sealed	x	NA	
50	Cable glands are of the correct type and installed correctly	x	OK	
51	Adaptors, reducers, stop ends, etc. are all certified Ex d	x	OK	
52	Flame path are clean and undamaged	x	OK	
53	Flange gap dimensions are within tolerances	x	NA	
54	Motor fans have sufficient clearance to the enclosure and/or covers, cooling systems are undamaged, motor foundations have no indentations or cracks	x	NA	
55	The ventilation airflow is not impeded	x	NA	
56	Insulation resistance (IR) of the motor windings is satisfactory	x	NA	
57	Fault loop impedance (TN systems) or earthing resistance (IT systems) is satisfactory	x	NA	
58	Variable voltage/frequency installation complies with documentation	x	NA	
	Extra Ex e checks			
59	All Equipment is Ex e certified (including components within enclosure)	x	NA	
60	Power conductors are not bunched together causing possible hot spots	x	NA	
61	Motor fans have sufficient clearance to the enclosure and/or covers, cooling systems are undamaged, motor foundations have no indentations or cracks	x	NA	
62	Insulation resistance (IR) of the motor windings is satisfactory	x	NA	
63	Fault loop impedance (TN systems) or earthing resistance (IT systems) is satisfactory	x	NA	
64	The ventilation airflow is not impeded	x	NA	
65	Motor protection devices operate within the permitted tE or tA time limits.	x	NA	
66	Variable voltage/frequency installation complies with documentation	x	NA	

ITEM	Tag	ELF-200N1-02-L1-01	: NORMAL LIGHT			Dwg	123A90-DDL-EL-DL-20118
	S/Sys	83-40	: Normal Lighting Upper Deck			Module	UD
TASK	code	C10001337		Location	Onshore Activities	User	Rosetti Marino Quality Control
FORM	Process	MC	Activity CCK	Discipline	ATEX	Form	CJX01
							Hazardous Area Equipment Detailed Inspection

Extra Ex n (nR, nL) checks				
67	All Terminals are Ex n certified (if required on certificate)	x	NA	
68	Hermetically sealed and enclosed break devices are undamaged	x	NA	
69	Restricted breathing properties satisfactory (conduct vacuum test)	x	NA	
70	Test port, if fitted, is functional (type “nR” only)	x	NA	
71	Breathing operation is satisfactory (type “nR” only)	x	NA	
72	Motor fans have sufficient clearance to the enclosure and/or covers, cooling systems are	x	NA	
73	The ventilation airflow is not impeded	x	NA	
74	Insulation resistance (IR) of the motor windings is satisfactory	x	NA	
75	Motor protection devices operate within the permitted tE or tA time limits.	x	NA	
76	Variable voltage/frequency installation complies with documentation	x	NA	
Extra Ex p checks				
77	Pressurization gas is correct type	x	NA	
78	Actual pressure is within maximum and minimum settings for equipment	x	NA	
79	Timers set as per certification documentation	x	NA	
80	Alarms and trip functions operate correctly as per certification documentation	x	NA	
81	Fault loop impedance (TN systems) or earthing resistance (IT systems) is satisfactory	x	NA	
82	Automatic electrical protective devices operate within permitted limits	x	NA	
83	Automatic electrical protective devices are set correctly	x	NA	
84	Protective gas inlet temperature is below maximum specified	x	NA	
85	Ducts, pipes and enclosures are in good condition	x	NA	
86	Protective gas is substantially free from contaminants	x	NA	
87	Protective gas pressure and/or flow is adequate	x	NA	
88	Pressure and/or flow indicators, alarms and interlocks function correctly	x	NA	
89	Conditions of spark and particle barriers of ducts for exhausting the gas in hazardous area are satisfactory	x	NA	
90	Specific conditions of use (if applicable) are complied with		NA	
Extra Ex i (Intrinsically Safe – IS) checks				
91	Equipment has adequate circuit identification for ‘IS’ Installation	x	NA	
92	Cables are installed in accordance with the documentation	x	NA	
93	Segregation is maintained between IS and non-IS Circuits	x	NA	
94	Cable screens are isolated at one end (field side)	x	NA	
95	Cable screens are earthed in accordance with the documentation	x	NA	
96	Safety barrier units, relays and other energy limiting devices are of the approved type, installed in	x	NA	
97	Equipment installed is the one specified in the documentation	x	NA	
98	Ambient temperature range of the apparatus is correct for the installation	x	NA	
99	Service temperature range of the apparatus is correct for the installation	x	NA	
100	Installation is clearly labelled	x	NA	
101	Printed circuit boards are clean and undamaged	x	NA	
102	The maximum voltage Um of the associated apparatus is not exceeded	x	NA	
103	Point-to-point connections are all correct	x	NA	
104	Earth continuity is satisfactory (e.g. connections are tight, conductors are of sufficient cross-section)	x	NA	
105	Earth connections maintain the integrity of the type of protection	x	NA	
106	Intrinsically safe circuit earthing is satisfactory	x	NA	
107	Insulation resistance is satisfactory	x	NA	
108	Short-circuit protection of the power supply is in accordance with the documentation	x	NA	

	BARRIER:	**Manufacturer:**	NA	**Model:**	NA		
		Authority:	NA	**Cert No:**	NA	**Type:**	NA

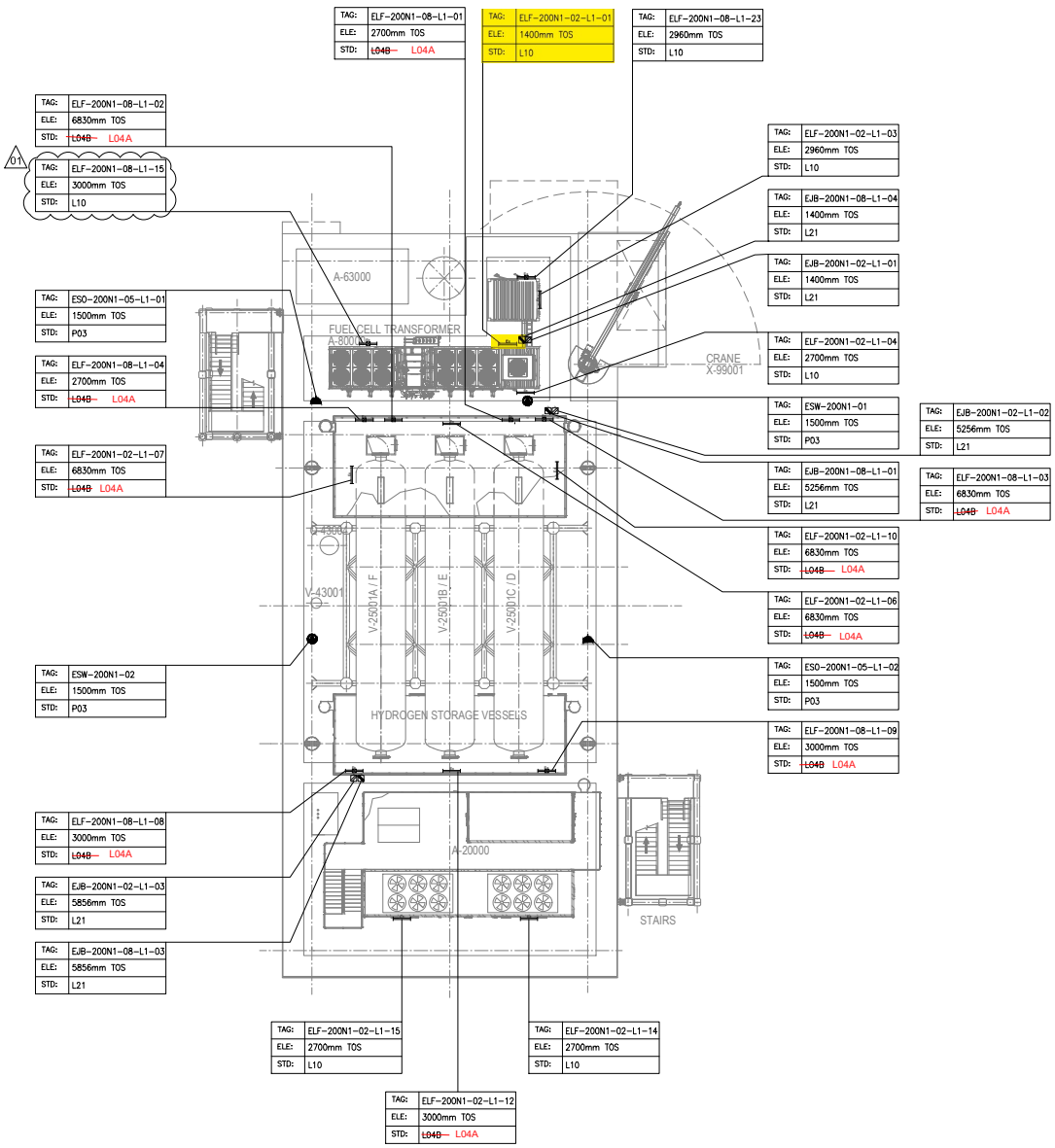
Remarks: Initial inspection should be detailed and carried out before equipment is brought into service as per IEC 60079-17

Please mark only one box as appropriate	
●	**Passed - Complete**
	Failed

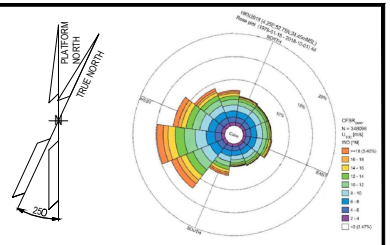
	Performed by	☐ WITNESS ☐ REVIEW	☐ WITNESS ☐ REVIEW
Company	ICS IMPIANTI	RM(ROSETTI MARINO)	
Name	Michele Tartaglia	Andrea Andreani	
Date	2025-01-08	2025-01-14	
Signature	PROVERLIS Digitaly signed by Michele Tartaglia 2025-01-08T09:58:28.966Z	PROVERLIS Digitaly signed by Andrea Andreani 2025-01-14T15:47:18.309Z	

DRAWING NO. 123A90-DDL-EL-DL-20118

REV. 01



PLAN ON UPPER DECK
EL+30.310 T.O.S.



NOTES

1. ALL DIMENSIONS AND ELEVATIONS ARE GIVEN IN mm UNLESS OTHERWISE NOTED.
2. ELEVATIONS REFER TO T.O.S.
3. ELEVATION OF THE LAMPS ARE REFFERED TO THE BOTTOM OF THE LAMP.
4. FOR THE ELEVATION OF JB, REFER TO THE TYPICAL INSTALLATION.

LEGEND

- EMERGENCY LIGHTING JB
- 60W LED EMERGENCY LUMINARIES
- 60W LED EMERGENCY LUMINARIES FIXTURE POLE MOUNTED
- NORMAL LIGHTING JB
- 45W LED NORMAL LUMINARIES
- 45W LED NORMAL LUMINARIES FIXTURE POLE MOUNTED
- WELDING SOCKET WITH INTEGRATED JB
- SMALL POWER SOCKET WITH INTEGRATED JB

JB TAG: — JB-TAG
TAG: — TAG
ELE: — ELEVATION
STD: — STANDARD

REFERENCE DOCUMENTS

123A90-DDL-PP-DL-70070	PLOT PLAN - LOWER & UPPER DECK
123A90-DDL-EL-DL-20100	ELECTRICAL EQUIPMENT LAYOUT - TOP DECK
123A90-DDL-EL-DD-20091	ELECTRICAL TYPICAL INSTALLATION DETAILS - LIGHTING SYSTEM
123A90-DDL-EL-DD-20092	ELECTRICAL TYPICAL INSTALLATION DETAILS - POWER SYSTEM & CABLE INSTALLATION
123A90-DDL-EL-RE-20153	LIGHTING CALCULATION STUDY REPORT
123A90-DDL-ST-DD-90076	IDENTIFICATION PANELS ASSEMBLY AND DETAILS

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	02/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	28/05/24	ASR	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

VALID FOR CONSTRUCTION
FDL DWG: 123A90-FDL-EL-DL-20118

REV.:	DATE:	SIGNATURE:
1_F	26/11/24	G.Randi

ROSETTI MARINO SpA

CROSSWIND

ROSETTI MARINO

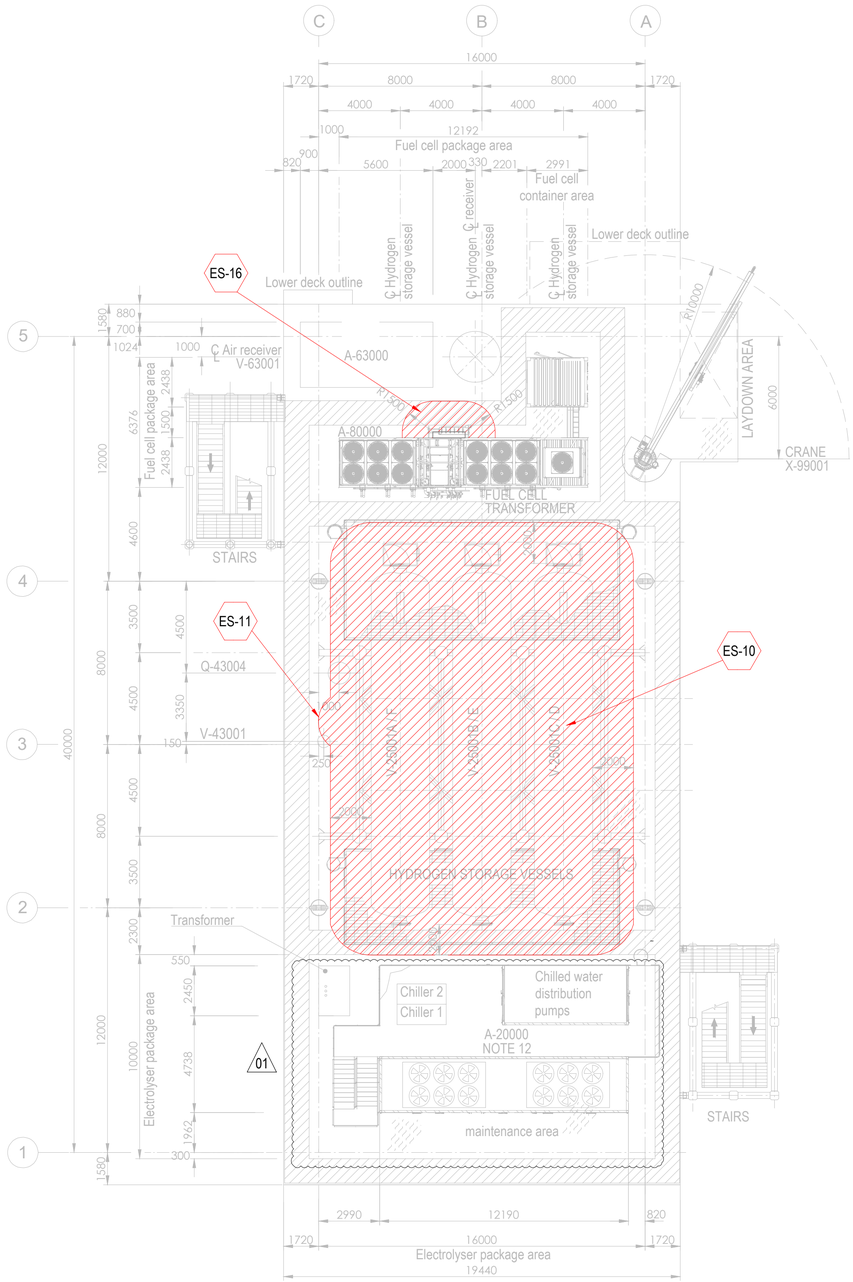
TITLE : BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET LAYOUT – TOP DECK

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK			SCALE 1:150
DRAWN ASR	CHECKED FMA/AMA	APPROVED FPA/DLO	DATE 01/08/24
A1	DRAWING NO. 123A90-DDL-EL-DL-20118	SHEET 2of2	REV. 01

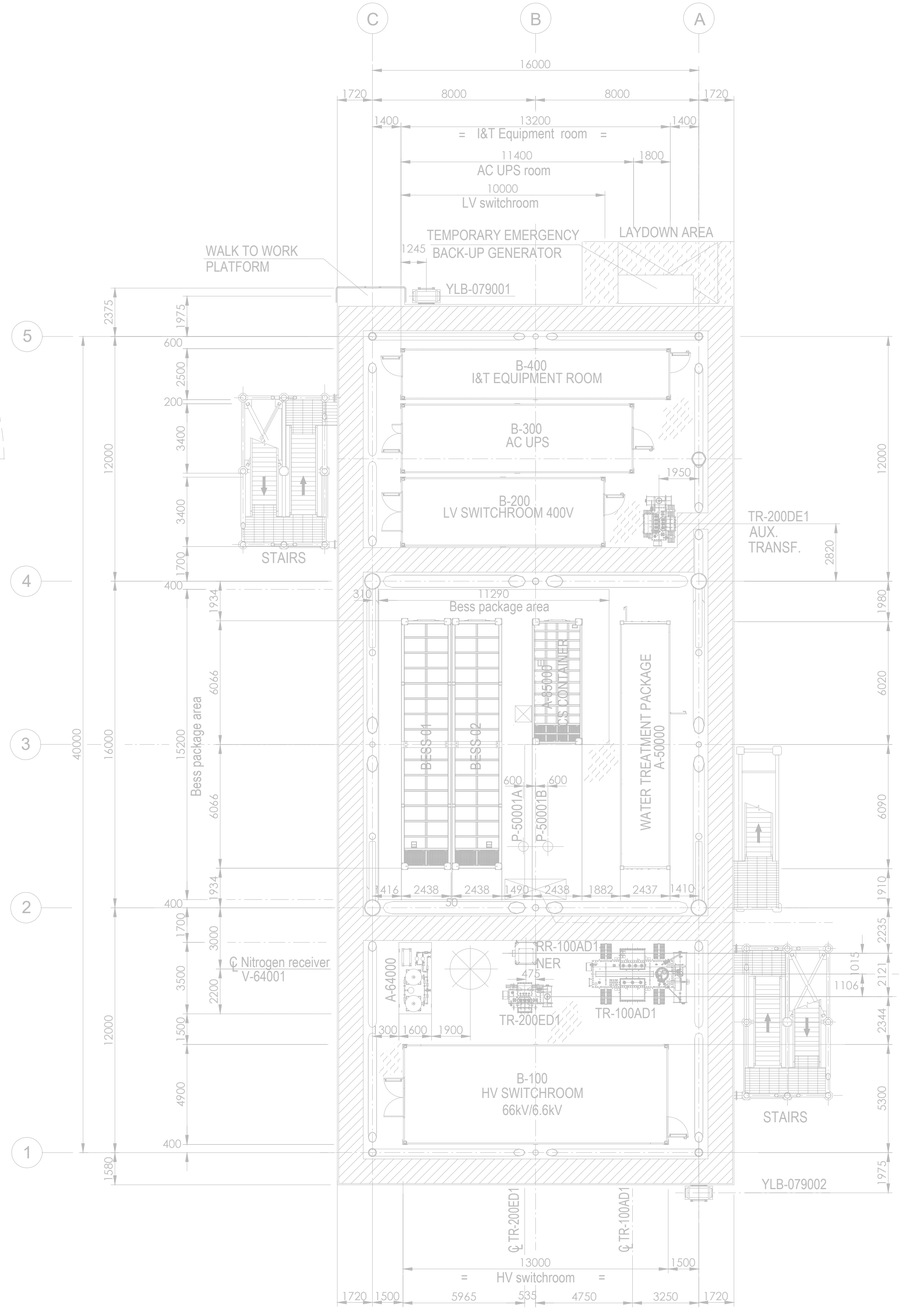
File Name : 123A90-DDL-EL-DL-20118

DRAWING NO. 123A90-DDL-SAF-DL-30022

REV. 01



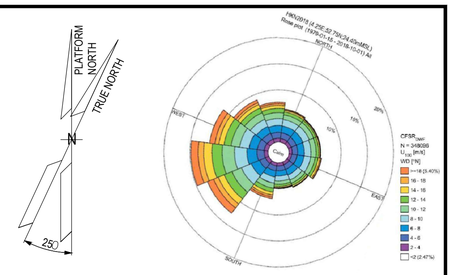
PLAN ON UPPER DECK
EL+30.310 T.O.S.



PLAN ON LOWER DECK
EL+23.310 T.O.S.

Tag No.	Equipment Tag	Description	Material	Ventilation Type
01	P-50001 A/B	SEA WATER LIFT PUMPS	SEA WATER	NATURAL (OPEN AREA)
02	Q-43004	HYDROGEN VENT	HYDROGEN	NATURAL (OPEN AREA)
03	V-43001	HYDROGEN VENT KO DRUM	HYDROGEN	NATURAL (OPEN AREA)
04	V-25001 (A/B/C/D/E/F)	HYDROGEN STORAGE VESSELS	HYDROGEN	NATURAL (OPEN AREA)
05	V-63001	AIR RECEIVER	INSTRUMENT AIR	NATURAL (OPEN AREA)
06	A-20000	ELECTROLYSER PACKAGE		
07	A-63000	INSTRUMENT AIR PACKAGE		
08	A-80000	FUEL CELL PACKAGE		
09	A-85000	BESS PACKAGE		
10	YLB-079001/2	LIFE RAFTS		
11	A-50000	WATER TREATMENT PACKAGE		

Tag No.	Equipment Tag	Description	Material	Ventilation Type
12	A-64000	NITROGEN SYSTEM		
13	B-100	HV SWITCHROOM 66kV/6.6kV		
14	B-200	LV SWITCHROOM 400V		
15	B-300	AC UPS EQUIPMENT ROOM		
16	B-400	I&T EQUIPMENT ROOM		
17	TR-100AD1	TRANSFORMER MAIN 66kV/6.6kV		
18	RR-100AD1-NER	NEUTRAL EARTHING RESISTOR		
19	TR-200DE1	TRANSFORMER AUX. 6.6kV/0.4kV		
20	TR-200ED1	SOLAR TRANSFORMER PV FARM EQUIPMENT		
21	X-99001	CRANE		
22	V-64001	NITROGEN RECEIVER		



1. ALL DIMENSIONS IN mm U.N.O
2. ALL ELEVATIONS IN METERS.
3. PLATFORM NORTH DIRECTION IS N 25°W.
4. VENT TOP SHALL BE REACHEABLE FOR MAINTENANCE PURPOSE.
5. THE BESS IS CONSIDERED SAFE AREA EXCEPT EXTRACTORES FROM BATTERIES , CURRENTLY NOT SHOWN IN DRAWINGS, SINCE INFORMATION FROM VENDOR IS NOT YET AVAILABLE.[ES17]
6. THE LOCATION OF EMISSION SOURCES ON THE LAYOUT ARE ONLY INDICATIVE. EMISSION SOURCES CONSIDERED ARE PRESENT WITHIN THE EXTENSION OF HAZARDOUS CLASSIFIED AREAS SHOWN ON THE LAYOUT. THIS IS BECAUSE VALVES AND FLANGES,WHICH ARE CONSIDERED POTENTIAL SOURCES OF RELEASE POINTS FOR FLAMMABLE GAS ARE NOT SHOWN ON CURRENT LAYOUT PROVIDED. THE SAME APPLIES TO THE EMISSION SOURCES FOR CPI'S ITEM.
7. IDENTIFIED EMISSION SOURCES DETAIL

EMISSION SOURCE No.	IDENTIFIED AREAS
ES10	HYDROGEN STORAGE VESSLES
ES11	HYDROGEN VENT KO DRUM
ES16	FUEL CELL

01

ZONE 0 | ZONE 1 | ZONE 2 | ES EMISSION SOURCES

01

01

123A90-DDL-PP-DS-70071	PLOT PLAN - BELOW LOWER DECK
123A90-DDL-PP-DS-70072	PLOT PLAN - ELEVATION LOOKING NORTH & EAST

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	27/08/24	MMA	CCA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	08/02/24	MMA	CCA	DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND

ROSETTI MARINO

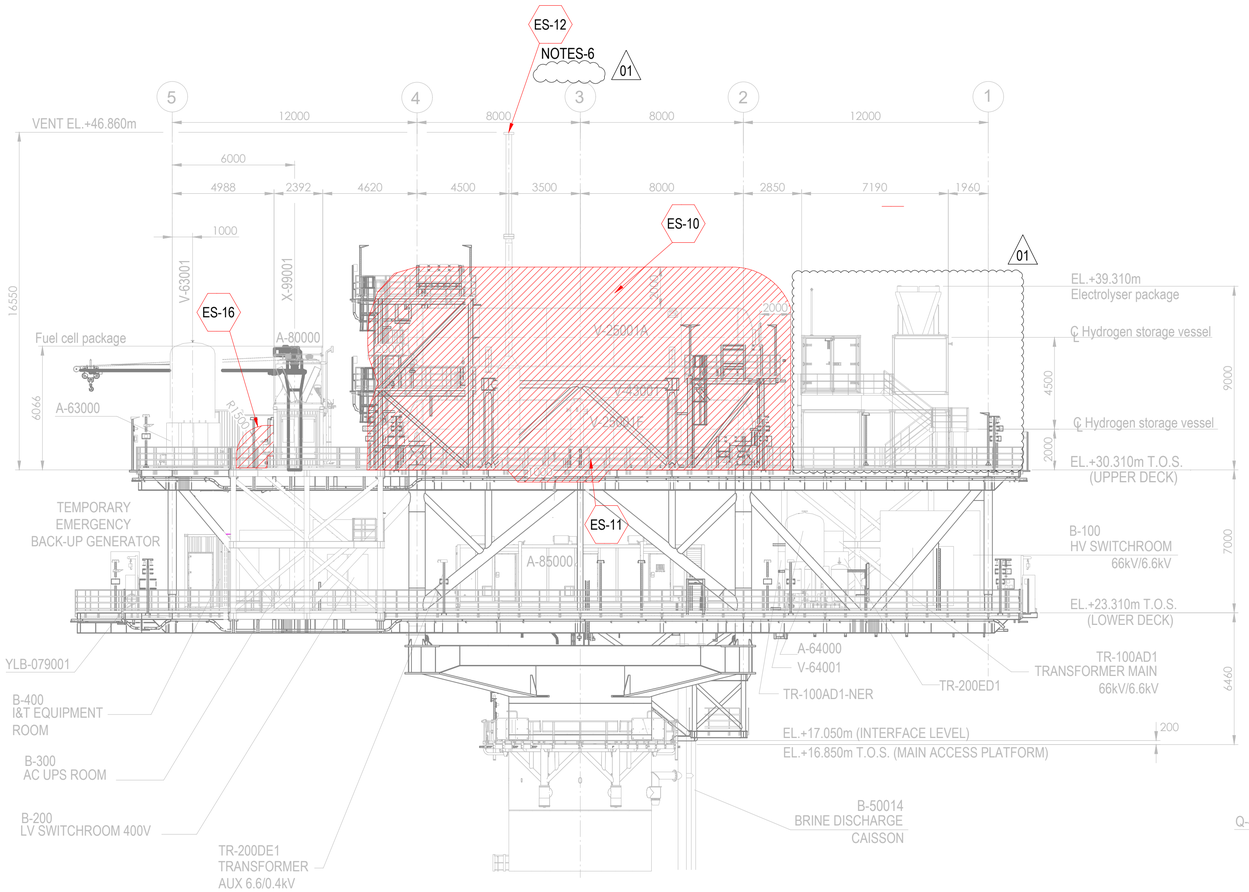
TITLE : BASE LOAD POWER HUB (BLPH)
HAZARDOUS AREA CLASSIFICATION
LOWER & UPPER DECK

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK		SCALE 1:150
DRAWN M. MAGNI	CHECKED C. CARACCIOLO	APPROVED D. LO STERZO	DATE 03/07/24
A1	DRAWING NO. 123A90-DDL-SAF-DL-30022	SHEET 001	REV. 01

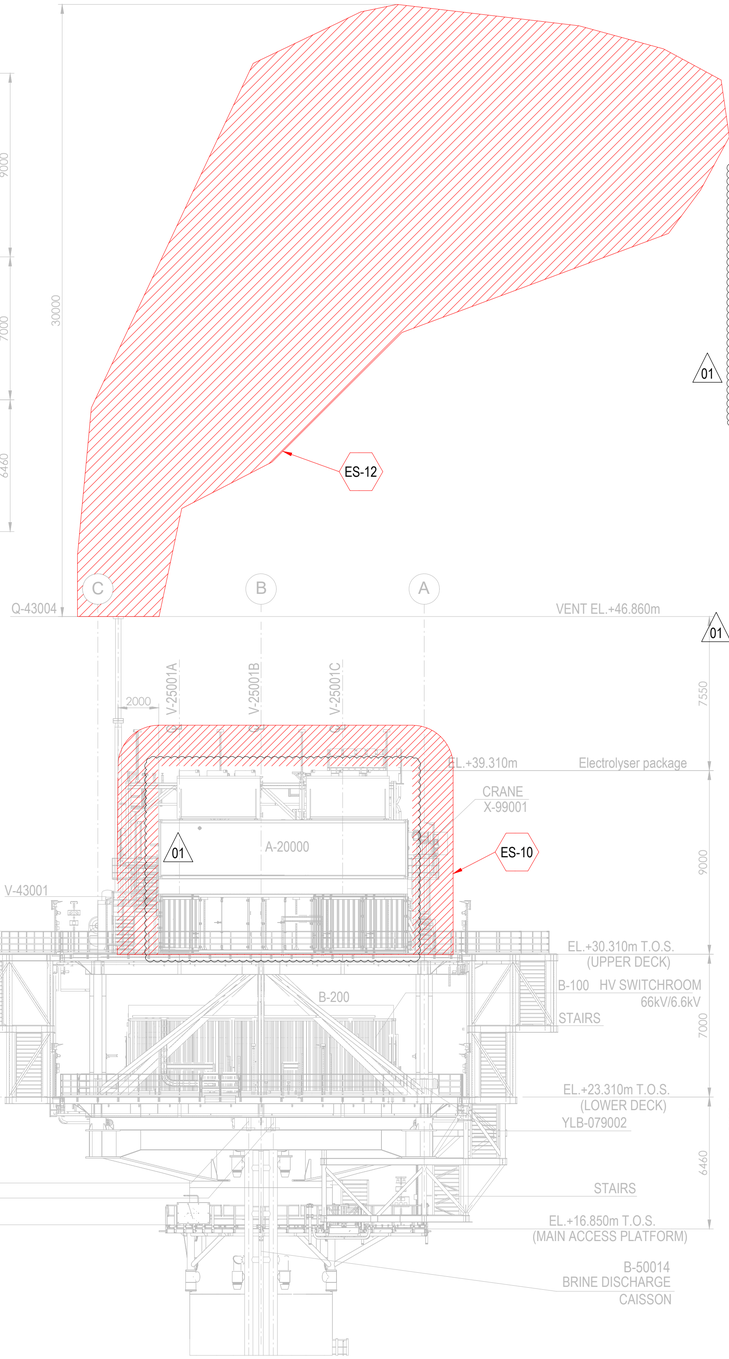
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DRAWING NO. 123A90-DDL-SAF-DL-30024

REV. 01



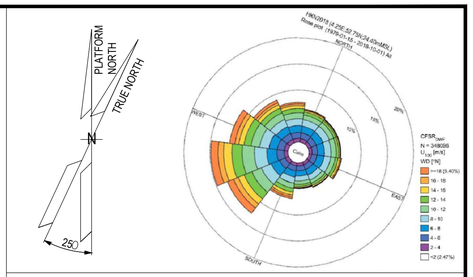
ELEVATION LOOKING EAST



ELEVATION LOOKING NORTH

01

Tag No.	Equipment Tag	Description	Material	Ventilation Type
01	P-50001 A/B	SEA WATER LIFT PUMPS	SEA WATER	NATURAL (OPEN AREA)
02	Q-43004	HYDROGEN VENT	HYDROGEN	NATURAL (OPEN AREA)
03	V-43001	HYDROGEN VENT KO DRUM	HYDROGEN	NATURAL (OPEN AREA)
04	V-25001 (A/B/C/D/E/F)	HYDROGEN STORAGE VESSELS	HYDROGEN	NATURAL (OPEN AREA)
05	V-63001	INSTRUMENT AIR RECEIVER	INSTRUMENT AIR	NATURAL (OPEN AREA)
06	A-20000	ELECTROLYSER PACKAGE		
07	A-63000	INSTRUMENT AIR PACKAGE		
08	A-80000	FUEL CELL PACKAGE		
09	A-85000	BESS PACKAGE		
10	YLB-079001/2	LIFE RAFTS		
11	B-100	HV SWITCHROOM 66kV/6.6kV		
12	B-200	LV SWITCHROOM 400V		
13	B-300	AC UPS EQUIPMENT ROOM		
14	B-400	I&T EQUIPMENT ROOM		
15	TR-100AD1	TRANSFORMER MAIN 66kV/6.6kV		
16	TR-100AD1-NER	NEUTRAL EARTHING RESISTOR		
17	TR-200DE1	TRANSFORMER AUX. 6.6kV/0.4kV		
18	TR-200ED1	SOLAR TRANSFORMER PV FARM EQUIPMENT		
19	X-99001	CRANE		
20	V-64001	NITROGEN RECEIVER		



NOTES

1. ALL DIMENSIONS IN mm U.N.O
2. ALL ELEVATIONS IN METERS.
3. PLATFORM NORTH DIRECTION IS N 25°W.
4. VENT TOP SHALL BE REACHEABLE FOR MAINTENANCE PURPOSE.
5. THE BESS IS CONSIDERED SAFE AREA EXCEPT EXTRACTORES FROM BATTERIES , CURRENTLY NOT SHOWN IN DRAWINGS, SINCE INFORMATION FROM VENDOR IS NOT YET AVAILABLE.[ES17]
6. (ES12) IS SHOWN ONLY ON ELEVATION LOOKING NORTH ON THIS LAYOUT
7. THE LOCATION OF EMISSION SOURCES ON THE LAYOUT ARE ONLY INDICATIVE. EMISSION SOURCES CONSIDERED ARE PRESENT WITHIN THE EXTENSION OF HAZARDOUS CLASSIFIED AREAS SHOWN ON THE LAYOUT. THIS IS BECAUSE VALVES AND FLANGES,WHICH ARE CONSIDERED POTENTIAL SOURCES OF RELEASE POINTS FOR FLAMMABLE GAS ARE NOT SHOWN ON CURRENT LAYOUT PROVIDED. THE SAME APPLIES TO THE EMISSION SOURCES FOR CPI'S ITEM.
8. IDENTIFIED EMISSION SOURCES DETAIL

EMISSION SOURCE No.	IDENTIFIED AREAS
ES10	HYDROGEN STORAGE VESSLES
ES11	HYDROGEN VENT KO DRUM
ES12	HYDROGEN VENT
ES16	FUEL CELL

01

LEGEND

ZONE 0 | ZONE 1 | ZONE 2 | ES EMISSION SOURCES

01

REFERENCE DOCUMENTS

123A90-DDL-PP-DS-70070	PLOT PLAN - LOWER & UPPER DECK
123A90-DDL-PP-DS-70071	PLOT PLAN - BELOW LOWER DECK

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	27/08/24	MMA	CCA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	08/02/24	MMA	CCA	DLO	ISSUE FOR REVIEW (IFR)

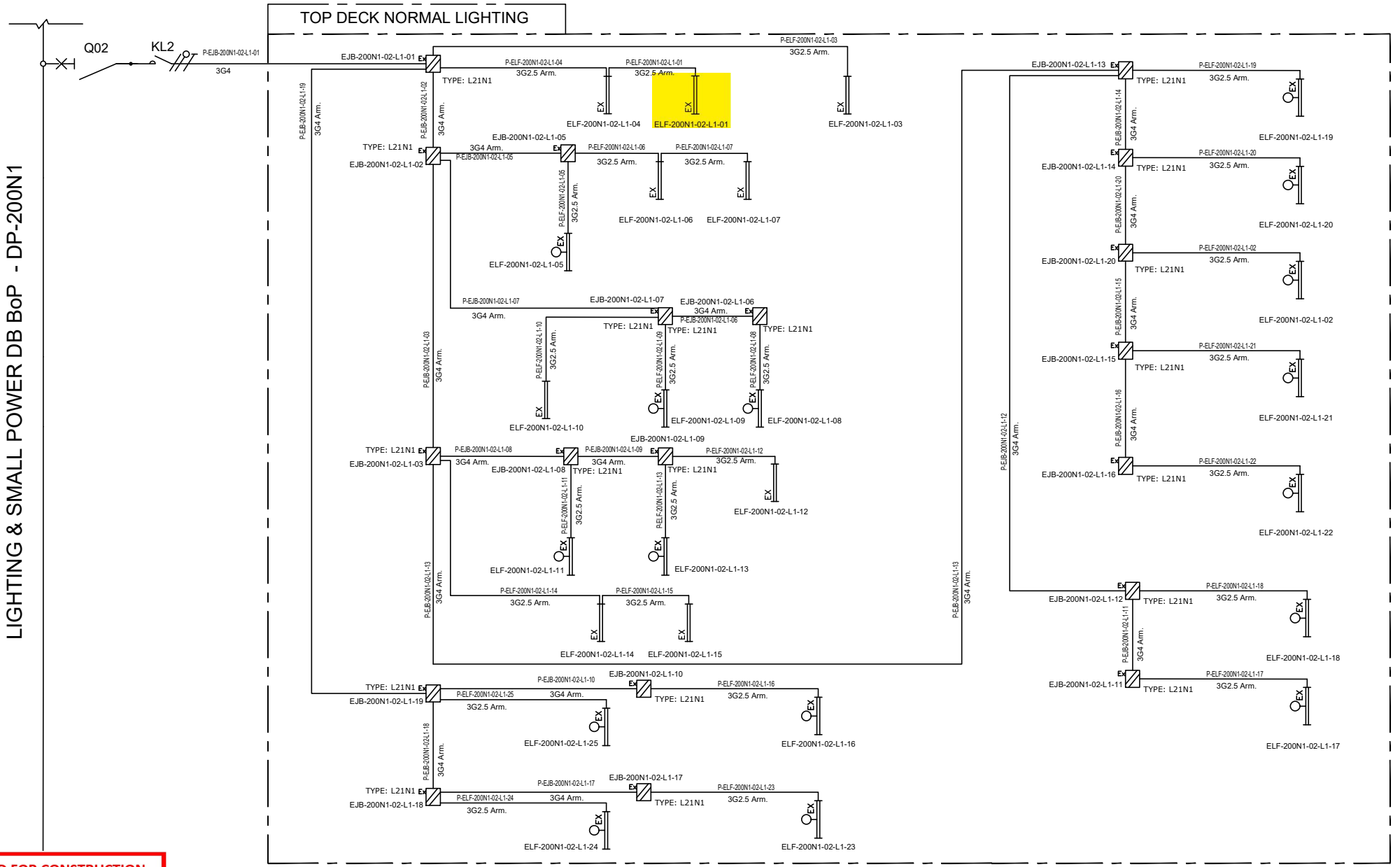
CROSSWIND | ROSETTI MARINO

TITLE :
BASE LOAD POWER HUB (BLPH)
HAZARDOUS AREA CLASSIFICATION
ELEVATION LOOKING NORTH & EAST

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK			SCALE 1:150
DRAWN M. MAGNI	CHECKED C. CARACCIOLO	APPROVED D. LO STERZO	DATE 03/07/24

A1	DRAWING NO. 123A90-DDL-SAF-DL-30024	SHEET 001	REV. 01

File Name : 123A90-DDL-SAF-DL-30024 Rev.01



VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DG-20125**

REV.:	DATE:	SIGNATURE:
2_C	20/12/24	V.Ramponi

ROSETTI MARINO SpA

CROSSWIND

ROSETTI MARINO

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	08/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	01/07/24	ASR	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

TITLE : BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET CIRCUIT DIAGRAM
TOP DECK–NORMAL LIGHTING

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE : NTS

A3

DRAWING NO. 123A90–DDL–EL–DG–20125

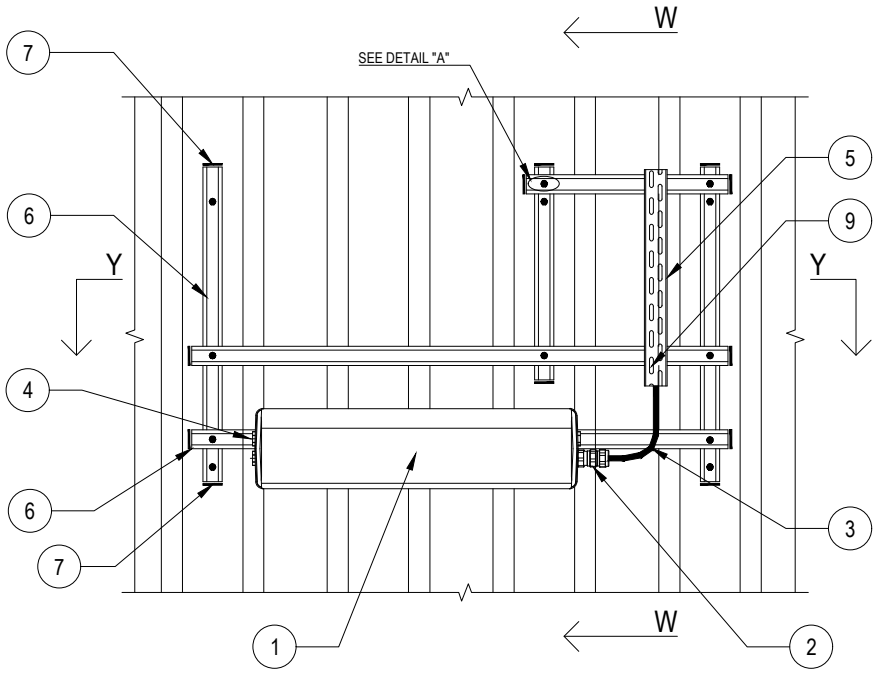
SHEET 010

REV. 01

F.to UNI A3: 420mmx297mm

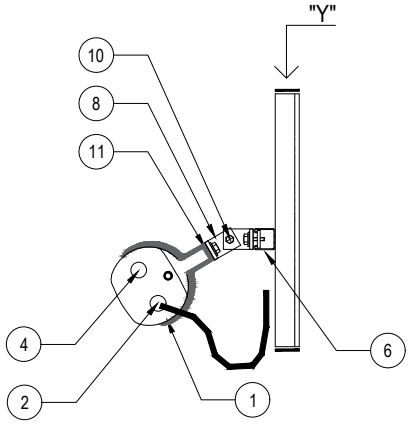
File Name : 123A90–DDL–EL–DG–20125

L10

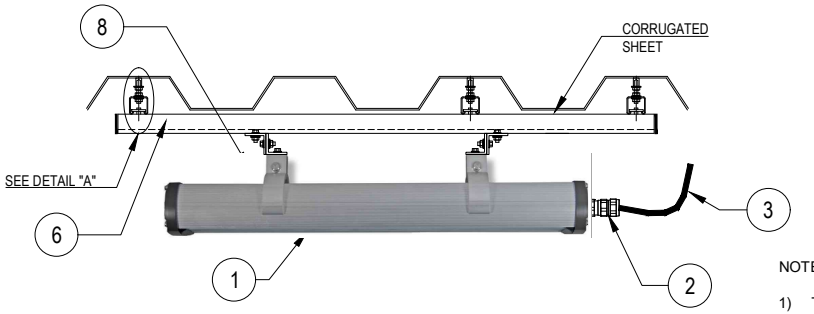


02

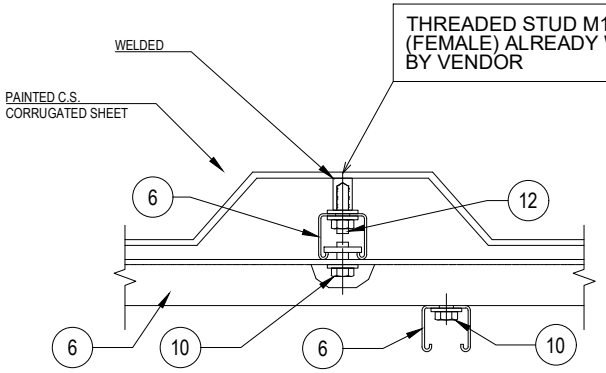
POS.	DESCRIPTION	MATERIAL	SIZE	Q.TY	NOTE
1	LIGHITNG FIXTURE (Ex) WITH LED LAMP	ALUMINIUM ALLOY		1	
2	CABLE GLAND (Ex) FOR ARMOURED/UNARMOURED CABLE	NICK.PL.BRASS		AS REQ.	NOTE 2 NOTE 4
3	ARMOURED/UNARMOURED CABLE				NOTE 4
4	PLUG	NICK.PL.BRASS		AS REQ.	NOTE 3
5	CABLE TRAY	AISI 316L			
6	SINGLE U-CHANNEL PERFORATED ON NO.3 SIDE	AISI 316L	41x41x2		NOTE 1
7	PLUG FOR U-CHANNEL	LPDE		AS REQ.	
8	ANGLE PLATE FOR ORTOGONAL-TRASV. CONNECTION WITH NO. 2 HOLES FOR UNISTRUT PROFILE 41x41x2X2	AISI 316L		4	
9	DOUBLE SLOT CROWNED HEAD SCREW WITH NUT FOR CHANNEL WITH SPRING	AISI 316L	M6x20		
10	HEX. BOLT WITH PLANE WASHERS, SPRING WASHER AND NUT	AISI 316L	M10x30	4	
11	HEX. BOLT WITH PLANE WASHER	AISI 316L	M8x16	2	
12	THREADED ROD COMPLETE WITH PLANE WASHER, LARGE PLANE WASHERS, SPRING WASHER AND NUTS	AISI 316L	M10x110		



SECTION "W-W"



SECTION "Y-Y"



DETAIL "A"

NOTES:

1) THE EXACT DIMENSIONS WILL BE DEFINED DURING ASSEMBLY PHASE.
2) CABLE GLAND COMPLETE WITH LOCKNUT, NYLON WASHER, SERRATED WASHER, EXTERNAL RUBBER RING AND EARTH TAG (IF NECESSARY).
3) UNUSED CABLE ENTRIES MUST BE CLOSED WITH NICKEL PLATED BRASS PLUG.
4) FOR LAMPS IN HAZARDOUS AREA, USE ARMOURED CABLE, DOUBLE SEAL CABLE GLAND AND EX JUNCTION BOX.

VALID FOR CONSTRUCTION

REV.:	DATE:	SIGNATURE:
2_B	12/12/24	C.Pilato

ROSETTI MARINO SpA

CROSSWIND

ROSETTI MARINO

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	30/09/24	GRA	AMA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	04/07/24	NLK	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	21/11/23	SPS	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL TYPICAL INSTALLATION DETAILS-LIGHTING SYSTEM
LIGHTING FIXTURE MOUNTED ON WALL WITH U-CHANNEL

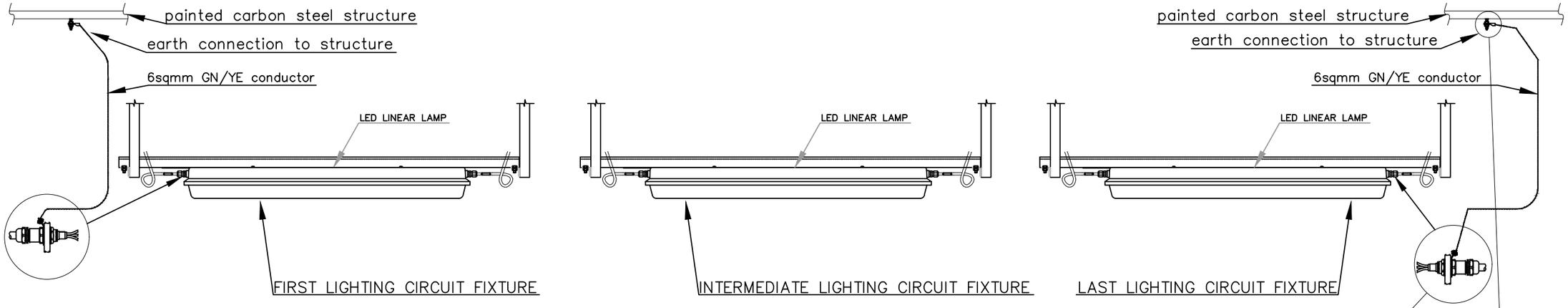
CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK | SCALE : NTS

A3 | DRAWING NO. 123A90-DDL-EL-DD-20091 | SHEET 012 | REV. 02

F.to UNI A3: 420mmx297mm

File Name : 123A90-DDL-EL-DD-20091 REV.02.DWG

E32

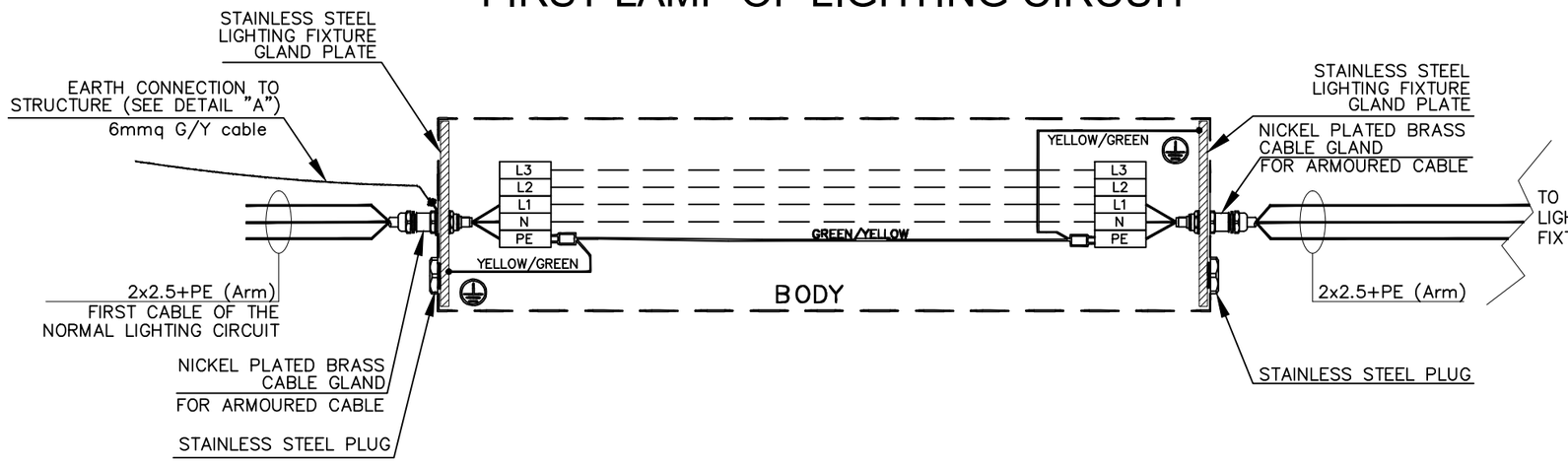


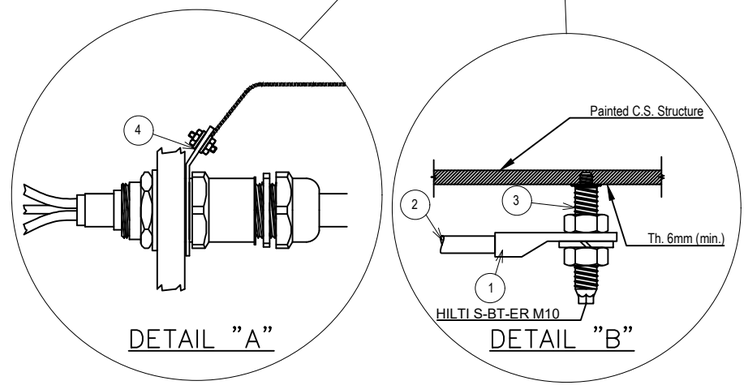
ONLY the first and the last lighting fixture of all circuits are connected to earthing system. The earthing continuity of the intermediate lighting fixtures of the circuits is guaranteed by the using of the first and the last lighting fixture earthing connection which is permanently connected to the earthing system as per the typical below.

Refer also to TYP. "E05" for Lighting Fixtures.

NORMAL LIGHTING CIRCUIT EARTHING CONTINUITY TYPICAL

FIRST LAMP OF LIGHTING CIRCUIT





POS.	DESCRIPTION	MATERIAL	SIZE	Q.TY	NOTE
1	COMPRESSION TYPE LUG FOR INSULATION COPPER CONDUCTOR	TINNED COPPER			
2	Y/G INSULATING COPPER CONDUCTOR		6sqmm	ASR	
3	HILTI S-BT-ER M10/15 SN6 C/W NUTS AND GROWER	AISI 316L	M10X28		NOTE 1
4	CABLE GLAND EARTH TAG	NPB	M20		

The same logic is used for the earthing continuity of Emergency Lighting Circuits. The above typical has been done to represent the Earthing Continuity of G/Y conductors, the correct connections of all conductors in the respective Terminal Strips are shown in doc. AR-FEN-10-ROEC-600132 Lighting and Socket Circuit Diagrams.

NOTES:
1) HILTI S-BT-ER M10/15 SN6 CERTIFIED FOR EARTHING SYSTEM FOR SINGLE EQUIPMENTS EARTHING CONNECTION.

VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DD-20090**

REV.:	DATE:	SIGNATURE:
2_H	05/11/24	G.Randi

ROSETTI MARINO SpA

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	26/08/24	GRA	AMA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	10/06/24	SPS	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	21/11/23	SPS	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL TYPICAL INSTALLATION DETAILS–EARTHING SYSTEM
EARTHING – OUTDOOR LINEAR LIGHTING FIXTURE

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK | SCALE : NTS

A3 | DRAWING NO. 123A90-DDL-EL-DD-20090 | SHEET 023 | REV. 02

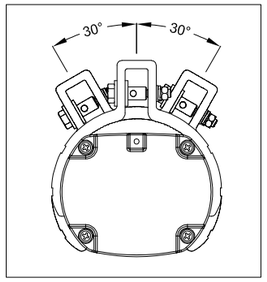
F.to UNI A3: 420mmx297mm

File Name : 123A90-DDL-EL-DD-20090 REV.02.DWG

MODEL C-225 REV.1

GENERAL NOTE:
- PO: 1724001290 DD 26/06/2024
- ITEM.: 1
- Q.TY: 57
- EXTERNAL PAINTING: RAL 7022 (END CAPS)
- INTERNAL PAINTING: NOT PAINTED
- ALL DIMENSIONS ARE IN mm

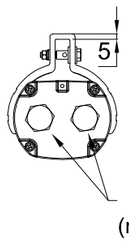
STANDARD FIXING BRACKET
FASTENING WITH 2 THREADED M8
HOLES, ADJUSTABLE FROM 0° TO ±30°



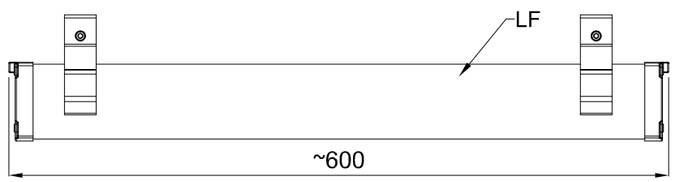
LF INFORMATION	
NOMINAL POWER	45W
CONSUMED POWER	43,5W
POWER FACTOR	>0,93
RATED CURRENT	200 mA
VIEWING ANGLE	120°
COLOUR TEMP.	5000 K
CRI	>80
INSTANT RESTRIKE	YES
LUMEN	6200 lm
LIGHT INTENSITY	2248 cd
EFFICIENCY	143 lm/W
WEIGHT	2,5 Kg
IP PROTECTION	IP66

N°	Q.TY	CODE	DESCRIPTION
LF	1	LIFEX-ME-0645-BB	110-277Vac 50-60Hz 45W LED LINEAR LIGHTING FIXTURE BODY: ALUMINUM ALLOY EXTRUSION AND ALUMINUM END CAPS TRANSPARENT PART: GLASS RESISTANT TO SHOCKS, UV RAYS AND IMPACT RESISTANCE IK09 GASKETS: ACID AND HYDROCARBON RESISTANT SILICONE ASSEMBLY: FASTENING BRACKETS FOR M8 HOLES, ADJUSTABLE 0° TO ±30° MADE IN ANODIZED ALUMINUM CONNECTION: TERMINAL BLOCK ON SIDE (IN) L, N, PE CROSS SEC. MAX. 4mmq SUITABLE FOR LOOP-IN LOOP-OUT SCREWS, BOLTS AND NUTS: STAINLESS STEEL 304
PG1	4	PLG1IB +DL1IB +RDI1IS/A4	IP66 Ex db IIC Gb - Ex eb IIC Gb NICKEL PLATED BRASS PLUG ISO M20x1,5 WITH RELEVANT LOCKNUT AND SERRATED WASHER MADE IN STAINLESS STEEL

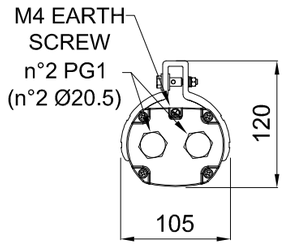
LEFT SIDE (OUT)



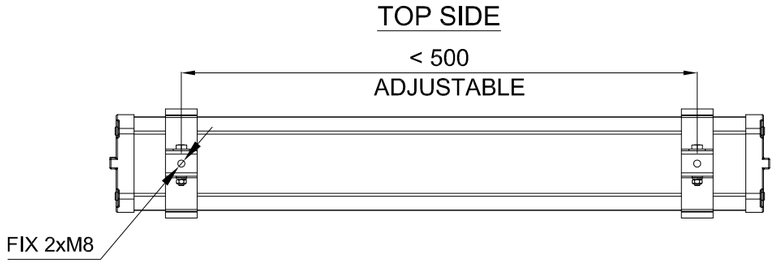
FRONT SIDE



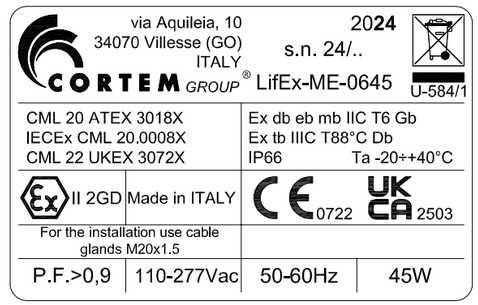
RIGHT SIDE (IN)



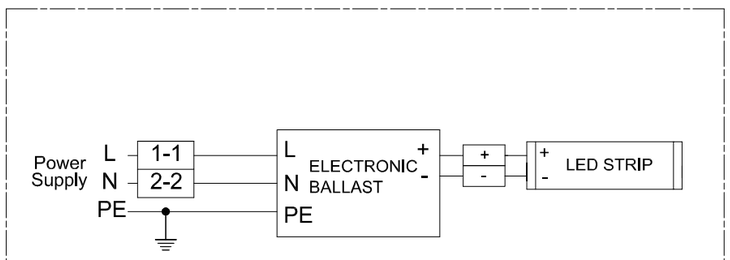
TOP SIDE



CERTIFICATE NAMEPLATE



WIRING DIAGRAM



REV.	DATE	PREP'D	CHK'D	APP'D	DESCRIPTION
2	09/07/2024	FRATTARUOLO	GIUSTI	GRATTON	REISSUED FOR APPROVAL
1	05/07/2024	FRATTARUOLO	GIUSTI	GRATTON	REISSUED FOR APPROVAL
0	28/06/2024	FRATTARUOLO	GIUSTI	GRATTON	ISSUED FOR APPROVAL

DRAWING TITLE: ROSETTI MARINO S.P.A.

CORTEM S.p.a.
GENERAL LAYOUT
001 LIFEX-ME-0645-BB/C2402693/10.

CORTEM JOB: COV2402693
DRAWING SCALE: /
DRAWING NUMBER: A3-C 27521
SHEET: 1
NEXT: 2
TOT.: 2

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Smart Professional R. 2012

Row	Data Sheet for Lighting Fixtures & Accessories				Rev.
1	42W LED Linear Luminaire-Normal Lighting-ATEX Area				
2	Item	Required	Manufacturer Proposal	Comments	
3	Model Number	by vendor	LIFEX-ME-0645-BB		01
4	Serial Number	by vendor			00
5	Quantity	28 Nos.		(25+3 Spare)	01
6	Location / Module	Upper deck			00
7	**LED Lamp**				
8	Nominal power	42 watts	45 watts		01
9	No. of linear	1	1		01
10	Luminous flux	5810 lm	6200 lm		01
11	Colour Temperature	5000 K	5000 K		01
12	**Protection**				
13	Hazardous Area Certification (Ex)	Zone 1 Gas Group IIC (or) IIB + H2, T1	Ex II 2GD Ex db eb mb IIC Gb Ex tb IIIC Db		01
14	Degree of Protection (IP)	IP 56	IP 66		01
15	ATEX certified	Classification EX db	ATEX CML 20 ATEX 3018X		01
16	**Material**				
17	Body	GRP/Aluminium alloy	Aluminium alloy		01
18	Reflector	GRP/Aluminium	Aluminium		01
19	Diffuser	Polycarbonate/temperate glass	Tempered glass		01
20	**Cable Entry**				
21	No. of cable entry	4 Nos.	4 Entries, 2 per side		01
22	Size	M20	Ø20.5mm		01
23	**Emergency Battery Pack**				
24	Requirement	Not required			00
25	Battery type	Not required			00
26	Autonomy	Not required			00
27	Emergency luminous flux	Not required			00
28	**Mechanical parameters**				
29	Dimension	by vendor	600x105x120(mm)		01
30	Weight	by vendor	2.5kg		01

Note:

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Tag Number	Tag Description	Location	P.O.	Vendor	Manufacturer	Serial Number	Model Type Catalogue Number	Installation Zone	ATEX Certificate Number	Reference Document	ATEX Certification Marking	Notes / Comments	Skid / Package	Electrical Equip.	Barrier Calculation Ref.	Special Conditions of Safe Use Applicable	3D Location
EJB-200N1-08-L1-07	Emergency Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990079	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-08-L1-08	Emergency Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990081	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-08-L1-09	Emergency Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990080	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-08-L1-10	Emergency Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990075	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-08-L1-11	Emergency Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990074	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-08-L1-12	Emergency Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990073	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-08-L1-14	Emergency Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990071	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-08-L1-15	Emergency Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990070	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-08-L1-16	Emergency Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990069	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-08-L1-17	Emergency Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990068	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
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EJB-200N1-08-L1-19	Emergency Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990066	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-08-L1-20	Emergency Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990076	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-09-L2-01	Emergency Lighting JB	LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990016	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-09-L2-02	Emergency Lighting JB	LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990019	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-09-L2-04	Emergency Lighting JB	LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990017	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-09-L2-05	Emergency Lighting JB	LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990030	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-09-L2-06	Emergency Lighting JB	LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990029	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-09-L2-07	Emergency Lighting JB	LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990028	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-09-L2-08	Emergency Lighting JB	LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990027	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-09-L2-09	Emergency Lighting JB	LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990026	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-09-L2-10	Emergency Lighting JB	LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990025	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-09-L2-11	Emergency Lighting JB	LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990024	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-09-L2-12	Emergency Lighting JB	LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990023	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-09-L2-13	Emergency Lighting JB	LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990022	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-09-L2-14	Emergency Lighting JB	LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990021	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-09-L2-15	Emergency Lighting JB	LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990020	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-09-L2-16	Emergency Lighting JB	LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990031	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-09-L2-17	Emergency Lighting JB	BELOW LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990015	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-10-L3-01	Stair Emergency Lighting JB	LOWER & UPPER DECK STAIRS	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990040	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-10-L3-02	Stair Emergency Lighting JB	LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990039	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-10-L3-03	Stair Emergency Lighting JB	LOWER & UPPER DECK STAIRS	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990041	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-10-L3-04	Stair Emergency Lighting JB	LOWER & UPPER DECK STAIRS	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990042	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-10-L3-05	Stair Emergency Lighting JB	BELOW LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990034	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-10-L3-06	Stair Emergency Lighting JB	BELOW LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990035	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-10-L3-07	Stair Emergency Lighting JB	BELOW LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990036	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-10-L3-08	Stair Emergency Lighting JB	BELOW LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990037	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-10-L3-09	Stair Emergency Lighting JB	BELOW LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990038	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
ELF-200N1-02-L1-01	Normal Lighting Fixture	UPPER DECK	1724001290	Cortem Spa	Cortem Spa	24/86772	LIFEX-ME-0645-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	
ELF-200N1-02-L1-02	Normal Lighting Fixture	UPPER DECK	1724001290	Cortem Spa	Cortem Spa	24/86773	LIFEX-ME-1260N-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	
ELF-200N1-02-L1-03	Normal Lighting Fixture	UPPER DECK	1724001290	Cortem Spa	Cortem Spa	24/86772	LIFEX-ME-0645-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	
ELF-200N1-02-L1-04	Normal Lighting Fixture	UPPER DECK	1724001290	Cortem Spa	Cortem Spa	24/86772	LIFEX-ME-0645-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	
ELF-200N1-02-L1-05	Normal Lighting Fixture	UPPER DECK	1724001290	Cortem Spa	Cortem Spa	24/86772	LIFEX-ME-0645-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	HAZARDOUS-AREA_8
ELF-200N1-02-L1-06	Normal Lighting Fixture	UPPER DECK	1724001290	Cortem Spa	Cortem Spa	24/86772	LIFEX-ME-0645-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	
ELF-200N1-02-L1-07	Normal Lighting Fixture	UPPER DECK	1724001290	Cortem Spa	Cortem Spa	24/86772	LIFEX-ME-0645-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	HAZARDOUS-AREA_8 HAZARDOUS-AREA_3
ELF-200N1-02-L1-08	Normal Lighting Fixture	UPPER DECK	1724001290	Cortem Spa	Cortem Spa	24/86772	LIFEX-ME-0645-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	HAZARDOUS-AREA_8 HAZARDOUS-AREA_3
ELF-200N1-02-L1-09	Normal Lighting Fixture	UPPER DECK	1724001290	Cortem Spa	Cortem Spa	24/86772	LIFEX-ME-0645-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	HAZARDOUS-AREA_8 HAZARDOUS-AREA_1
ELF-200N1-02-L1-10	Normal Lighting Fixture	UPPER DECK	1724001290	Cortem Spa	Cortem Spa	24/86772	LIFEX-ME-0645-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	HAZARDOUS-AREA_8 HAZARDOUS-AREA_1
ELF-200N1-02-L1-11	Normal Lighting Fixture	UPPER DECK	1724001290	Cortem Spa	Cortem Spa	24/86772	LIFEX-ME-0645-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	HAZARDOUS-AREA_3 HAZARDOUS-AREA_2 HAZARDOUS-AREA_5 HAZARDOUS-AREA_6
ELF-200N1-02-L1-12	Normal Lighting Fixture	UPPER DECK	1724001290	Cortem Spa	Cortem Spa	24/86772	LIFEX-ME-0645-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	HAZARDOUS-AREA_1 HAZARDOUS-AREA_2 HAZARDOUS-AREA_5 HAZARDOUS-AREA_4
ELF-200N1-02-L1-13	Normal Lighting Fixture	UPPER DECK	1724001290	Cortem Spa	Cortem Spa	24/86772	LIFEX-ME-0645-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	HAZARDOUS-AREA_2 HAZARDOUS-AREA_1 HAZARDOUS-AREA_5 HAZARDOUS-AREA_4
ELF-200N1-02-L1-14	Normal Lighting Fixture	UPPER DECK	1724001290	Cortem Spa	Cortem Spa	24/86772	LIFEX-ME-0645-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	
ELF-200N1-02-L1-15	Normal Lighting Fixture	UPPER DECK	1724001290	Cortem Spa	Cortem Spa	24/86772	LIFEX-ME-0645-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	
ELF-200N1-02-L1-16	Normal Lighting Fixture	UPPER DECK	1724001290	Cortem Spa	Cortem Spa	24/86772	LIFEX-ME-0645-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	

EU Type Examination Certificate CML 20ATEX3018X Issue 1

1 Equipment intended for use in Potentially Explosive Atmospheres Directive 2014/34/EU

2 Equipment **LifEx-ME, LifEx-MN and LifEx-MT series of linear lighting fixtures**

3 Manufacturer **Cortem S.p.A.**

4 Address **Via Aquileia 10**
34070 Villesse
(GO)
Italy

5 The equipment is specified in the description of this certificate and the documents to which it refers.

6 CML B.V., Chamber of Commerce No 6738671, Koopvaardijweg 32, 4906CV Oosterhout, The Netherlands, Notified Body Number 2776, in accordance with Article 17 of Directive 2014/34/EU of the European Parliament and of the Council, dated 26 February 2014, certifies that this equipment has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of equipment intended for use in potentially explosive atmospheres given in Annex II to the Directive.

The examination and test results are recorded in the confidential reports listed in Section 12.

7 If an 'X' suffix appears after the certificate number, it indicates that the equipment is subject to conditions of safe use (affecting correct installation or safe use). These are specified in Section 14.

8 This EU Type Examination certificate relates only to the design and construction of the specified equipment or component. Further requirements of Directive 2014/34/EU Article 13 apply to the manufacture of the equipment or component and are separately certified.

9 Compliance with the Essential Health and Safety Requirements, with the exception of those listed in the confidential report, has been demonstrated through compliance with the following documents:

EN IEC 60079-0:2018	EN 60079-1:2014	EN IEC 60079-7:2015+A1:2018
EN 60079-18:2015+A1:2017	EN 60079-31:2014	

10 The equipment shall be marked with the following:

LifEx-ME	LifEx-MN and LifEx-MT
Ex db eb mb IIC T.. Gb	Ex tb IIIC T…°C Db
Ex eb mb IIC T.. Gb *(when Ex mb LED drivers are used)*	IP66
Ex tb IIIC T…°C Db	
IP66	
Ta=* see description	Ta=* see description

11 Description

The LifEx is a range of linear LED lighting fixtures that are available in three different configurations for different applications, designated as the LifEx-ME, LifEx-MT and LifEx-MN.

LifEx-ME

The LifEx-ME version has an Equipment Protection Level of EPL Gb and Db and utilises types of protection increased safety (eb) and dust protection by enclosure (tb), along with encapsulation (mb) for the light source and flameproof (db) for the driver.

It is constructed from an aluminium enclosure, with either a glass or polycarbonate lens and with optional polycarbonate diffuser.

LifEx-MN

The LifEx-MN version has an Equipment Protection Level of EPL Gc and Db and utilises types of protection increased safety (ec) and dust protection by enclosure (tb).

It is constructed from an aluminium enclosure, with polycarbonate diffuser and/or with optional glass or polycarbonate lens.

LifEx-MT

The LifEx-MT versions has an Equipment Protection Level of EPL Db and utilises types of protection dust protection by enclosure (tb).

It is constructed from an aluminium enclosure, with polycarbonate diffuser and/or with optional glass or polycarbonate lens.

Design Options

Every configuration is available in lengths ranging from 300 mm to 1500 mm, and power ratings up to a maximum of 105W of nominal power.

The LifEx can be used in only normal service, in only emergency service or in normal and emergency service.

The minimum ambient temperature for the range is:

- -60°C for versions without battery
- -60°C for versions with the battery heater
- -20°C for versions with battery

The range is available with the following maximum ambient temperatures:

	With glass lens and with/without polycarbonate diffuser	With Polycarbonate lens and with/without polycarbonate diffuser	Without lens polycarbonate diffuser only
LifEx-M...0310	+60°C	+60°C	+60°C
LifEx-M...0315	+60°C	+60°C	+60°C
LifEx-M...0330	+60°C	Configuration not available	Configuration not available
LifEx-M...0615	+60°C	+60°C	+60°C
LifEx-M...0630	+60°C	+50°C	+60°C
LifEx-M...0645	+57°C	+47°C	+60°C
LifEx-M...0660	+47°C	Configuration not available	+58°C
LifEx-M...1230	+60°C	+60°C	+60°C
LifEx-M...1260	+60°C	+50°C	+60°C
LifEx-M...1290	+60°C	+40°C	+60°C
LifEx-M...12120	+54°C	Configuration not available	+60°C
LifEx-M...1590	+60°C	+40°C	+60°C

Table 1: Maximum Ambient Temperatures

The following tables provide the Temperature Class (EPL Gb) and Maximum Surface Temperature (EPL Db) for each LifEx type, with the following notes:

- The LifEx-MN with an ambient temperature greater than 50°C is T5 or T4. T6 is not included.
- The Temperature Class (EPL Gb) and Maximum Surface Temperature (EPL Db) in the tables below are not applicable when the ambient temperature is not permitted in the above maximum ambient temperature range table.

13. (For example, the LifEx-M...0660 is not permitted with polycarbonate lens, therefore the Temperature Class (EPL Gb) and Maximum Surface Temperature (EPL Db) for this version in tables 2 and 3 are not applicable)

	Temperature Class (EPL Gb and Gc) and Maximum Surface Temperature (EPL Db) Based on ambient temperature													
	40°C		45°C		47°C		50°C		54°C		57°C		60°C	
	EPL Db	EPL Gb/Gc	EPL Db	EPL Gb/Gc	EPL Db	EPL Gb/Gc	EPL Db	EPL Gb/Gc	EPL Db	EPL Gb/Gc	EPL Db	EPL Gb/Gc	EPL Db	EPL Gb/Gc
LifEx-M...0310	T56°C	T6	T56°C	T6	T58°C	T6	T61°C	T6	T65°C	T6	T68°C	T6	T71°C	T6
LifEx-M...0315	T56°C	T6	T56°C	T6	T58°C	T6	T61°C	T6	T65°C	T6	T68°C	T6	T71°C	T6
LifEx-M...0615	T56°C	T6	T56°C	T6	T58°C	T6	T61°C	T6	T65°C	T6	T68°C	T6	T71°C	T6
LifEx-M...0630	T69°C	T6	T69°C	T5	T71°C	T5	T74°C	T5	T78°C	T5	T81°C	T4	T84°C	T4
LifEx-M...0645	T72°C	T5	T72°C	T5	T74°C	T5	T77°C	T5	T81°C	T4	T84°C	T4	T87°C	T4
LifEx-M...0660	T77°C	T5	T77°C	T4	T79°C	T4	T82°C	T4	T86°C	T4	T89°C	T4	T92°C	T4
LifEx-M...1230	T58°C	T6	T58°C	T6	T60°C	T6	T63°C	T6	T67°C	T6	T70°C	T6	T73°C	T6
LifEx-M...1260	T67°C	T6	T67°C	T5	T69°C	T5	T72°C	T5	T76°C	T5	T79°C	T4	T82°C	T4
LifEx-M...1290	T72°C	T5	T72°C	T5	T74°C	T4	T77°C	T4	T81°C	T4	T84°C	T4	T87°C	T4
LifEx-M...12120	T75°C	T5	T75°C	T4	T77°C	T4	T80°C	T4	T84°C	T4	T87°C	T4	T90°C	T4
LifEx-M...1590	T72°C	T5	T72°C	T5	T74°C	T4	T77°C	T4	T81°C	T4	T84°C	T4	T87°C	T4

Table 2: Temperature Class (EPL Gb) and Maximum Surface Temperature (EPL Db) for LifEx types with glass/polycarbonate lens and with polycarbonate diffuser

	Temperature Class (EPL Gb and Gc) and Maximum Surface Temperature (EPL Db) Based on ambient temperature					
	40°C		55°C		60°C	
	EPL Db	EPL Gc	EPL Db	EPL Gc	EPL Db	EPL Gc
LifEx-ME-0330	T58°C	T6	T73°C	T6	T78°C	T5
LifEx-MN-0330	T58°C	T6	T73°C	T5	T78°C	T4
LifEx-MT-0330	T58°C	-	T73°C	-	T78°C	-

Table 3: Temperature Class (EPL Gb and Gc) and Maximum Surface Temperature (EPL Db) for LifEx-M...-0330 types with glass/polycarbonate window and without polycarbonate diffuser

	Temperature Class (EPL Gb) and Maximum Surface Temperature (EPL Db) Based on ambient temperature													
	40°C		45°C		47°C		50°C		54°C		57°C		60°C	
	EPL Db	EPL Gb	EPL Db	EPL Gb	EPL Db	EPL Gb	EPL Db	EPL Gb	EPL Db	EPL Gb	EPL Db	EPL Gb	EPL Db	EPL Gb
LifEx-M...0310	T62°C	T6	T62°C	T6	T64°C	T6	T67°C	T6	T71°C	T6	T74°C	T6	T77°C	T6
LifEx-M...0315	T62°C	T6	T62°C	T6	T64°C	T6	T67°C	T6	T71°C	T6	T74°C	T6	T77°C	T6
LifEx-M...0615	T62°C	T6	T62°C	T6	T64°C	T6	T67°C	T6	T71°C	T6	T74°C	T6	T77°C	T6
LifEx-M...0630	T85°C	T6	T85°C	T5	T87°C	T5	T90°C	T5	T94°C	T5	T97°C	T4	T100°C	T4
LifEx-M...0645	T88°C	T6	T88°C	T5	T90°C	T5	T93°C	T5	T97°C	T4	T100°C	T4	T103°C	T4
LifEx-M...0660	T100°C	T6	T100°C	T4	T102°C	T4	T105°C	T4	T109°C	T4	T112°C	T4	T115°C	T4
LifEx-M...1230	T65°C	T6	T65°C	T6	T67°C	T6	T70°C	T6	T74°C	T6	T77°C	T6	T80°C	T6
LifEx-M...1260	T85°C	T6	T85°C	T5	T87°C	T5	T90°C	T5	T94°C	T5	T97°C	T4	T100°C	T4
LifEx-M...1290	T94°C	T6	T94°C	T5	T96°C	T4	T99°C	T4	T103°C	T4	T106°C	T4	T109°C	T4
LifEx-M...12120	T96°C	T5	T96°C	T4	T98°C	T4	T101°C	T4	T105°C	T4	T108°C	T4	T111°C	T4
LifEx-M...1590	T94°C	T6	T94°C	T5	T96°C	T4	T99°C	T4	T103°C	T4	T106°C	T4	T109°C	T4

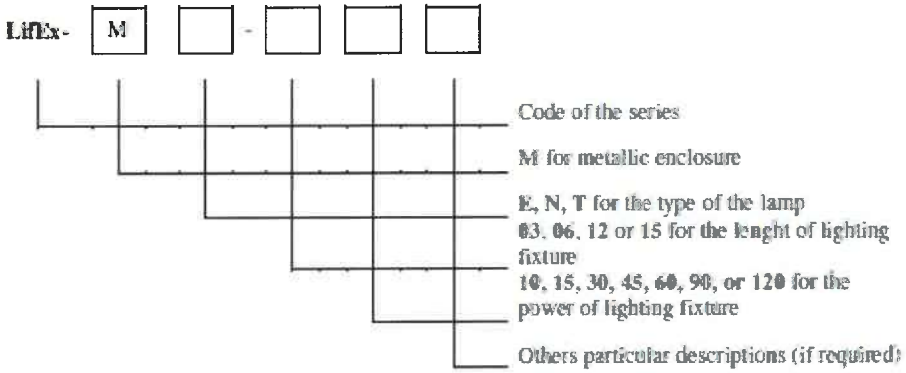
Table 4: Temperature Class (EPL Gb) and Maximum Surface Temperature (EPL Db) for LifEx types with glass/polycarbonate lens and without polycarbonate diffuser

	Maximum Surface Temperature (EPL Db) Based on ambient temperature						
	40°C	45°C	47°C	50°C	54°C	57°C	60°C
LifEx-M...0310	T56°C	T56°C	T58°C	T61°C	T65°C	T68°C	T71°C
LifEx-M...0315	T56°C	T56°C	T58°C	T61°C	T65°C	T68°C	T71°C
LifEx-M...0615	T56°C	T56°C	T58°C	T61°C	T65°C	T68°C	T71°C
LifEx-M...0630	T69°C	T69°C	T71°C	T74°C	T78°C	T81°C	T84°C
LifEx-M...0645	T72°C	T72°C	T74°C	T77°C	T81°C	T84°C	T87°C
LifEx-M...0660	T77°C	T77°C	T79°C	T82°C	T86°C	T89°C	T92°C
LifEx-M...1230	T58°C	T58°C	T60°C	T63°C	T67°C	T70°C	T73°C
LifEx-M...1260	T67°C	T67°C	T69°C	T72°C	T76°C	T79°C	T82°C
LifEx-M...1290	T72°C	T72°C	T74°C	T77°C	T81°C	T84°C	T87°C
LifEx-M...12120	T75°C	T75°C	T77°C	T80°C	T84°C	T87°C	T90°C
LifEx-M...1590	T72°C	T72°C	T74°C	T77°C	T81°C	T84°C	T87°C

Table 5: (Applicable to EPL Db only) Maximum Surface Temperature for LifEx types without glass/polycarbonate lens and with polycarbonate diffuser

The equipment has been separately tested against the requirements of IEC 60529 and it meets IP66. The gaskets on the caps provide the degree of protection.

The equipment uses the following nomenclature:



Variation 1:

This variation has assed the following changes:

i. Addition of an optional new removable cover for "easy installation" (which use the new aluminium extrusion);
ii. Addition of an optional external battery box;
iii. minimum ambient temperature extended to -60°C when Ex mb heater is used;
iv. Additional optional Ex mb EBM LED driver as an alternative to EBL3040 / EBL4040 Ex db series LED drivers;
v. added 30W model for size 300mm (LifEx-M..-0330).

12 Certificate history and evaluation reports

Issue	Date	Associated report	Notes
0	06 May 2020	R13027A/00	Prime Issue
1	01 Jul 2022	R14875A/00	Introduction of Variation 1

Note: Drawings that describe the equipment or component are listed in the Annex.

13 Conditions of Manufacture

The following conditions are required of the manufacturing process for compliance with the certification.

i. Where the product incorporates certified parts or safety critical components the manufacturer shall ensure that any changes to those parts or components do not affect the compliance of the certified product that is the subject of this certificate.
ii. The LifEx series lighting fixtures are to be designed in accordance with general electrical safety standards.
iii. The routine dielectric strength test on the LifEx-ME and LifEx-MN luminaries with applied voltage shall be performed at 2U + 1000V with a minimum value of 1560V (U = maximum rated voltage of the lamp)

iv. A routine visual inspection of the encapsulated parts is required, as per Clause 9.1 of IEC 60079-18. There shall be no visible damage or deformation to the encapsulant.

v. Where the removable battery pack is used with phoenix contacts, if used with a T6 version of the equipment, the maximum ambient shall be limited to +40°C.

14 Specific Conditions of Use (Special Conditions)

The following conditions relate to safe installation and/or use of the equipment.

i. Cable entries are provided which have less than 5 threads engaged. Care must be taken to ensure the correct gaskets and washers are sued with the cable gland to maintain IP66.

ii. The equipment uses an external part that is constructed from non-metallic materials, and as such care is to be taken to prevent an electro-static charging hazard. See instruction manual for details.

iii. For versions with glass window of 4mm thickness without cover, the luminaire must be installed in a location with a low risk of mechanical danger

iv. The temperature at the entry point may reach up to 75°C. Suitably rated cable glands must be used.

Certificate Annex

Certificate Number	**CML 20ATEX3018X**
Equipment	**LifEx-ME, LifEx-MN and LifEx-MT series of linear lighting fixtures**
Manufacturer	**Cortem S.p.A.**

The following documents describe the equipment or component defined in this certificate:

Issue 0

Drawing No	Sheets	Rev	Approved date	Title
A3-7466	1 to 6	0	06 May 2020	LifEx-M Luminaires
A4-7467	1 to 6	0	06 May 2020	Technical Note

Issue 1

Drawing No.	Sheets	Rev	Approved date	Title
A3-7466	1 of 6	1	01 Jul 2022	LifEx-M Luminaires Assembly and External Dimensions
A3-7466	2 of 6	1	01 Jul 2022	LifEx-M Luminaires Detail of sealing and op is protection
A3-7466	3 of 6	1	01 Jul 2022	LifEx-M Luminaires Detail of driver and inverter for LifEx-ME version
A3-7466	4 of 6	1	01 Jul 2022	LifEx-M Luminaires Circuit diagram for LifeEx-ME version
A3-7466	5 of 6	1	01 Jul 2022	LifEx-M Luminaires Circuit diagram LifEx-MN and LifEx-MT version
A3-7466	6 of 6	1	01 Jul 2022	LifEx-M Luminaires Detail of battery pack
A3-7729	1 to 3	0	01 Jul 2022	Battery heater for -60°C /-40°C applications Assembly and External Dimensions
A4-7727	1 to 8	0	01 Jul 2022	Technical Note

ITEM	Tag	ELF-200N1-02-L1-04 : NORMAL LIGHT		Dwg	123A90-DDL-EL-DL-20118
	S/Sys	83-40 : Normal Lighting Upper Deck		Module	UD
TASK	code	C10001357	Location: Onshore Activities	User	Rosetti Marino Quality Control
FORM	Process	MC	Activity: CCK / Discipline: ATEX / Form: CJX01		Hazardous Area Equipment Detailed Inspection

Schedule Ref. #				**Area Code**					
Area Class Drawing	123A90-DDL-SAF-DL-30022			**Serial No.**	24/86772				
Manufacturer	Cortem Spa			**Model**	LIFEX-ME-1260N-BB				
Cert No.	CML 20 ATEX 3018X			**Equipment Ambient Temp.**	-60°C to +60°C				
Area Classification	Hazardous	**Zone**	2	**Gas group**	IIC	**Temp class**	T1		
Equipment Protection Type	Ex db	**EPL**	Gb	**Gas group**	IIC	**Temp class**	T5	**IP Rating**	IP66

Detailed Note:

1) Inspection shall only be performed by competent personnel

2) All fields are to be completed. Any non-applicable field shall state "NA". Comments are required for 'Failure' column ONLY.

3) An Inspection Sheet should be completed for EACH individual item of Equipment.

	General Equipment	Detailed	OK/NA/PL	Comments
1	Equipment is appropriate to the EPL / Zone requirements of the area	x	OK	
2	Equipment group is correct	x	OK	
3	Equipment temperature class is correct	x	OK	
4	Degree of IP protection of equipment is appropriate for the level of protection	x	OK	
5	Equipment circuit identification is correct	x	PL	
6	Equipment circuit identification is available	x	NA	
7	Enclosure glass parts and glass-to-metal sealing gaskets and / or compounds are satisfactory	x	OK	
8	There is no damage or unauthorized modifications	x	OK	
9	There is no evidence of unauthorized modifications	x	OK	
10	Bolts, cable entry devices (direct and indirect) & blanking elements are of the correct type, are complete & tight		NA	
	Physical check	x	PL	
11	Threaded covers on enclosures are of the correct type, are tight and secured		NA	
	Physical check	x	NA	
12	Joint surfaces are clean and undamaged and gaskets, if any, are satisfactory and positioned correctly	x	OK	
13	Condition of enclosure gaskets is satisfactory	x	OK	
14	There is no evidence or ingress of water or dust in the enclosure in accordance with the IP rating	x	OK	
15	Electrical connections are tight	x	OK	
16	Bridging links do not reduce creepage / clearance and are allowed	x	NA	
17	Unused terminals are tightened	x	OK	
18	Encapsulated components are undamaged	x	NA	
19	Flameproof components are undamaged	x	NA	
20	Fluorescent lamps are not indicating EOL effects (only for Ex "e" – Ex "n" – Ex "t")	x	NA	
21	HID lamps are not indicating EOL effects	x	NA	
22	Lamp type, rating, pin configuration and position are correct	x	NA	
23	Breathing and drainage devices are satisfactory	x	OK	
24	Type of cable is appropriate	x	OK	
25	There is no obvious damage to the cables	x	OK	
26	Cable glands are the correct type and installed correctly	x	OK	
27	Sealing of trunking, ducts, pipes and or conduits is satisfactory	x	NA	
28	Stopping boxes and cable boxes are corrected filled	x	OK	

ITEM	Tag	ELF-200N1-02-L1-04	: NORMAL LIGHT			Dwg	123A90-DDL-EL-DL-20118
	S/Sys	83-40	: Normal Lighting Upper Deck			Module	UD
TASK	code	C10001357		Location	Onshore Activities	User	Rosetti Marino Quality Control
FORM	Process	MC	Activity CCK	Discipline	ATEX	Form	CJX01 Hazardous Area Equipment Detailed Inspection

29	Integrity of conduit system and interface with mixed system maintained	x	NA	
30	Earthing connections, including any supplementary earthing bonding connections are satisfactory (for example connections are tight and conductors are of sufficient cross-section		NA	
	Physical check	x	PL	
31	Automated electric protective devices operate within permitted limits	x	NA	
32	Special conditions (if applicable) have been complied with.	x	OK	
33	All cable cores are uniquely labeled	x	OK	
34	Cable cores not in use are correctly terminated	x	NA	
35	Equipment is adequately protected against corrosion, weather, vibration and other adverse factors	x	PL	
36	No undue accumulation of dust and dirt	x	PL	
37	All equipment housings are clean and dry	x	OK	
38	All moving parts are free and have no mechanical damage	x	NA	
	Applicable for Installation of Heating Systems			
39	Temperature sensors function according to manufacturer's documents (only applicable for Ex-d e Ex-e)	x	NA	
40	Safety cut off devices function according to manufacturer's documents (only applicable for Ex-d e Ex-e)	x	NA	
41	The setting of the safety cut off is sealed (only applicable for Ex-d e Ex-e)	x	NA	
42	Reset of a heating system safety cut off possible with tool only(only applicable for Ex-d e Ex-e)	x	NA	
43	Auto-reset is not possible (only applicable for Ex-d e Ex-e)	x	NA	
44	Reset of a safety cut off under fault conditions is prevented (only applicable for Ex-d e Ex-e)	x	NA	
45	Safety cut off independent from control system (only applicable for Ex-d e Ex-e)	x	NA	
46	Level switch is installed and correctly set, if required (only applicable for Ex-d e Ex-e)	x	NA	
47	Flow switch is installed and correctly set, if required (only applicable for Ex-d e Ex-e)	x	NA	
	Extra Ex d checks			
48	Obstructions adjacent to flame proof flanged joints are in accordance with IEC 60079-14	x	NA	
49	Ex d conduits seals are fitted to all conduits and satisfactorily sealed	x	NA	
50	Cable glands are of the correct type and installed correctly	x	OK	
51	Adaptors, reducers, stop ends, etc. are all certified Ex d	x	OK	
52	Flame path are clean and undamaged	x	OK	
53	Flange gap dimensions are within tolerances	x	NA	
54	Motor fans have sufficient clearance to the enclosure and/or covers, cooling systems are undamaged, motor foundations have no indentations or cracks	x	NA	
55	The ventilation airflow is not impeded	x	NA	
56	Insulation resistance (IR) of the motor windings is satisfactory	x	NA	
57	Fault loop impedance (TN systems) or earthing resistance (IT systems) is satisfactory	x	NA	
58	Variable voltage/frequency installation complies with documentation	x	NA	
	Extra Ex e checks			
59	All Equipment is Ex e certified (including components within enclosure)	x	NA	
60	Power conductors are not bunched together causing possible hot spots	x	NA	
61	Motor fans have sufficient clearance to the enclosure and/or covers, cooling systems are undamaged, motor foundations have no indentations or cracks	x	NA	
62	Insulation resistance (IR) of the motor windings is satisfactory	x	NA	
63	Fault loop impedance (TN systems) or earthing resistance (IT systems) is satisfactory	x	NA	
64	The ventilation airflow is not impeded	x	NA	
65	Motor protection devices operate within the permitted tE or tA time limits.	x	NA	
66	Variable voltage/frequency installation complies with documentation	x	NA	

ROSETTI MARINO PROVERLIS CROSSWIND

ITEM	Tag	ELF-200N1-02-L1-04	: NORMAL LIGHT			Dwg	123A90-DDL-EL-DL-20118
	S/Sys	83-40	: Normal Lighting Upper Deck			Module	UD
TASK	code	C10001357		Location	Onshore Activities	User	Rosetti Marino Quality Control
FORM	Process	MC	Activity CCK	Discipline	ATEX	Form	CJX01
							Hazardous Area Equipment Detailed Inspection

	Extra Ex n (nR, nL) checks				
67	All Terminals are Ex n certified (if required on certificate)	x	NA		
68	Hermetically sealed and enclosed break devices are undamaged	x	NA		
69	Restricted breathing properties satisfactory (conduct vacuum test)	x	NA		
70	Test port, if fitted, is functional (type “nR” only)	x	NA		
71	Breathing operation is satisfactory (type “nR” only)	x	NA		
72	Motor fans have sufficient clearance to the enclosure and/or covers, cooling systems are	x	NA		
73	The ventilation airflow is not impeded	x	NA		
74	Insulation resistance (IR) of the motor windings is satisfactory	x	NA		
75	Motor protection devices operate within the permitted tE or tA time limits.	x	NA		
76	Variable voltage/frequency installation complies with documentation	x	NA		
	Extra Ex p checks				
77	Pressurization gas is correct type	x	NA		
78	Actual pressure is within maximum and minimum settings for equipment	x	NA		
79	Timers set as per certification documentation	x	NA		
80	Alarms and trip functions operate correctly as per certification documentation	x	NA		
81	Fault loop impedance (TN systems) or earthing resistance (IT systems) is satisfactory	x	NA		
82	Automatic electrical protective devices operate within permitted limits	x	NA		
83	Automatic electrical protective devices are set correctly	x	NA		
84	Protective gas inlet temperature is below maximum specified	x	NA		
85	Ducts, pipes and enclosures are in good condition	x	NA		
86	Protective gas is substantially free from contaminants	x	NA		
87	Protective gas pressure and/or flow is adequate	x	NA		
88	Pressure and/or flow indicators, alarms and interlocks function correctly	x	NA		
89	Conditions of spark and particle barriers of ducts for exhausting the gas in hazardous area are satisfactory	x	NA		
90	Specific conditions of use (if applicable) are complied with		NA		
	Extra Ex i (Intrinsically Safe – IS) checks				
91	Equipment has adequate circuit identification for ‘IS’ Installation	x	NA		
92	Cables are installed in accordance with the documentation	x	NA		
93	Segregation is maintained between IS and non-IS Circuits	x	NA		
94	Cable screens are isolated at one end (field side)	x	NA		
95	Cable screens are earthed in accordance with the documentation	x	NA		
96	Safety barrier units, relays and other energy limiting devices are of the approved type, installed in	x	NA		
97	Equipment installed is the one specified in the documentation	x	NA		
98	Ambient temperature range of the apparatus is correct for the installation	x	NA		
99	Service temperature range of the apparatus is correct for the installation	x	NA		
100	Installation is clearly labelled	x	NA		
101	Printed circuit boards are clean and undamaged	x	NA		
102	The maximum voltage Um of the associated apparatus is not exceeded	x	NA		
103	Point-to-point connections are all correct	x	NA		
104	Earth continuity is satisfactory (e.g. connections are tight, conductors are of sufficient cross-section)	x	NA		
105	Earth connections maintain the integrity of the type of protection	x	NA		
106	Intrinsically safe circuit earthing is satisfactory	x	NA		
107	Insulation resistance is satisfactory	x	NA		
108	Short-circuit protection of the power supply is in accordance with the documentation	x	NA		

	BARRIER:	**Manufacturer:**	NA	**Model:**	NA		
		Authority:	NA	**Cert No:**	NA	**Type:**	NA

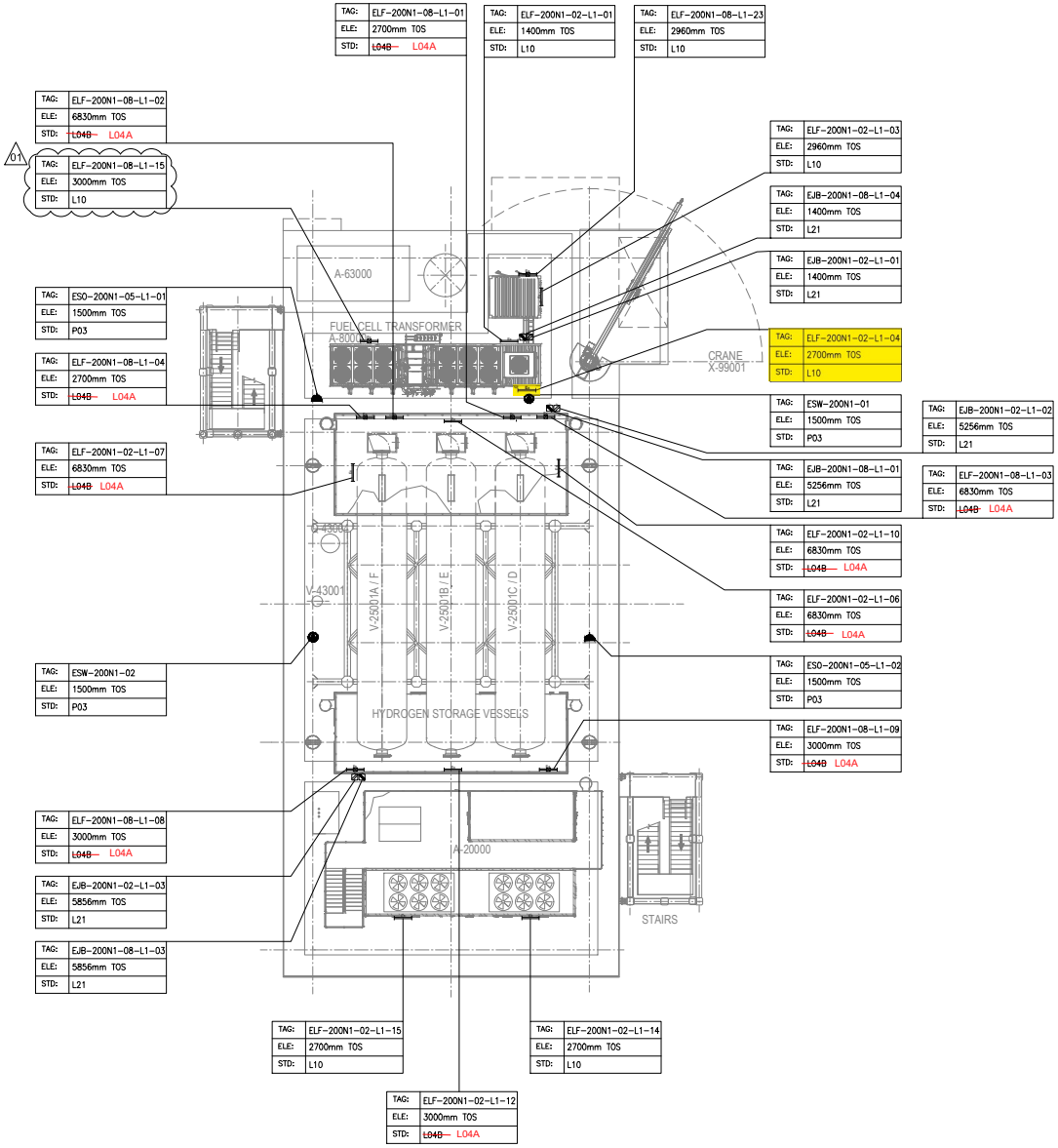
Remarks: Initial inspection should be detailed and carried out before equipment is brought into service as per IEC 60079-17

Please mark only one box as appropriate	
●	**Passed - Complete**
	Failed

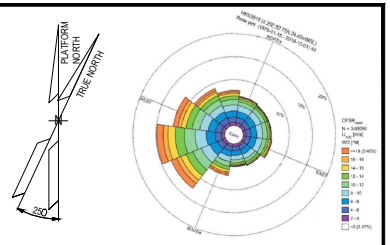
Page 3/3	Performed by	☐ WITNESS ☐ REVIEW	☐ WITNESS ☐ REVIEW
Company	ICS IMPIANTI	RM(ROSETTI MARINO)	
Name	Michele Tartaglia	Andrea Andreani	
Date	2025-01-08	2025-01-14	
Signature	PROVERLIS Digitaly signed by Michele Tartaglia 2025-01-08T10:19:04.348Z	PROVERLIS Digitaly signed by Andrea Andreani 2025-01-14T15:37:37.686Z	

DRAWING NO. 123A90-DDL-EL-DL-20118

REV. 01



PLAN ON UPPER DECK
EL+30.310 T.O.S.



NOTES

1. ALL DIMENSIONS AND ELEVATIONS ARE GIVEN IN mm UNLESS OTHERWISE NOTED.
2. ELEVATIONS REFER TO T.O.S.
3. ELEVATION OF THE LAMPS ARE REFFERED TO THE BOTTOM OF THE LAMP.
4. FOR THE ELEVATION OF JB, REFER TO THE TYPICAL INSTALLATION.

LEGEND

- EMERGENCY LIGHTING JB
- 60W LED EMERGENCY LUMINARIES
- 60W LED EMERGENCY LUMINARIES FIXTURE POLE MOUNTED
- NORMAL LIGHTING JB
- 45W LED NORMAL LUMINARIES
- 45W LED NORMAL LUMINARIES FIXTURE POLE MOUNTED
- WELDING SOCKET WITH INTEGRATED JB
- SMALL POWER SOCKET WITH INTEGRATED JB

JB TAG:	JB-TAG
TAG:	TAG
ELE:	ELEVATION
STD:	STANDARD

REFERENCE DOCUMENTS

123A90-DDL-PP-DL-70070	PLOT PLAN - LOWER & UPPER DECK
123A90-DDL-EL-DL-20100	ELECTRICAL EQUIPMENT LAYOUT - TOP DECK
123A90-DDL-EL-DD-20091	ELECTRICAL TYPICAL INSTALLATION DETAILS - LIGHTING SYSTEM
123A90-DDL-EL-DD-20092	ELECTRICAL TYPICAL INSTALLATION DETAILS - POWER SYSTEM & CABLE INSTALLATION
123A90-DDL-EL-RE-20153	LIGHTING CALCULATION STUDY REPORT
123A90-DDL-ST-DD-90076	IDENTIFICATION PANELS ASSEMBLY AND DETAILS

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	02/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	28/05/24	ASR	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DL-20118**

REV.:	DATE:	SIGNATURE:
1_F	26/11/24	G.Randi

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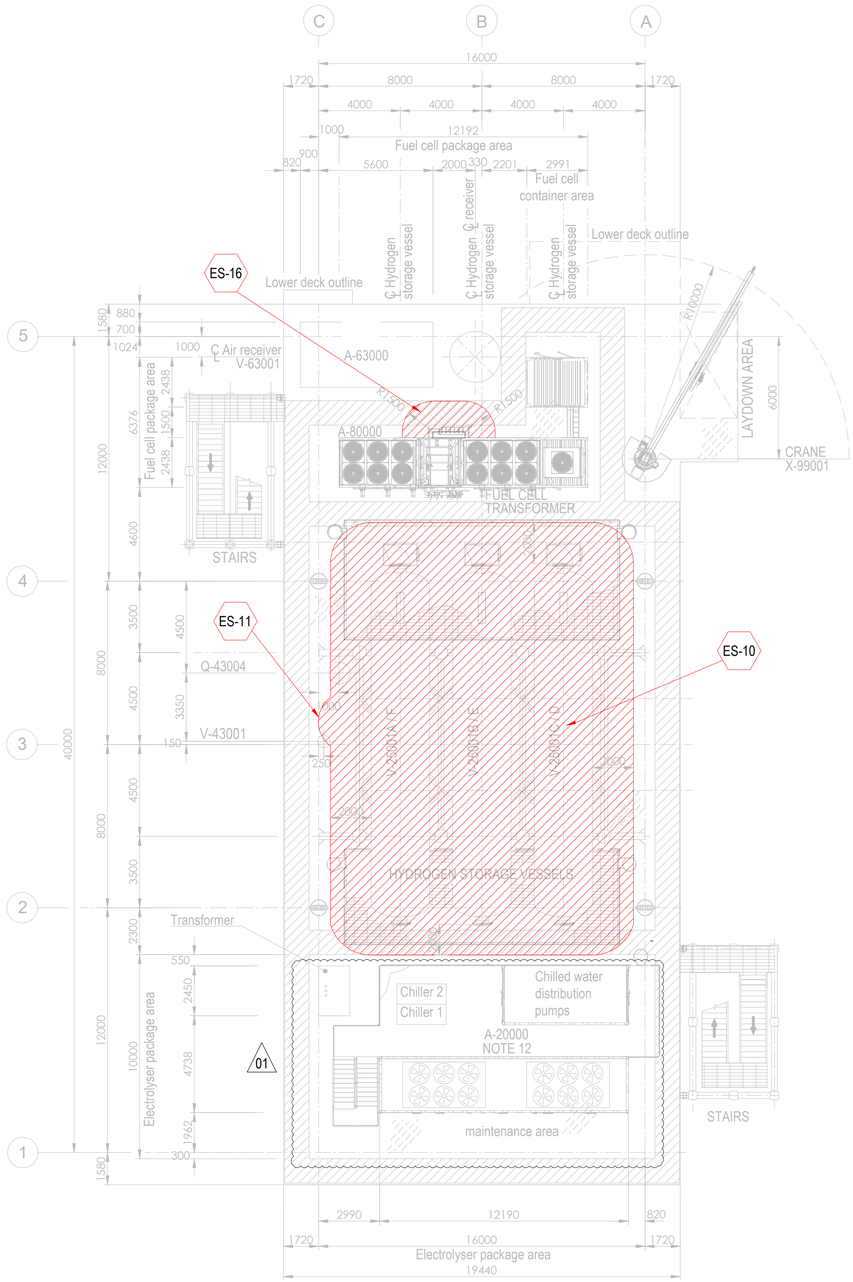
TITLE : BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET LAYOUT – TOP DECK

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK			SCALE 1:150
DRAWN ASR	CHECKED FMA/AMA	APPROVED FPA/DLO	DATE 01/08/24
A1	DRAWING NO. 123A90-DDL-EL-DL-20118	SHEET 2of2	REV. 01

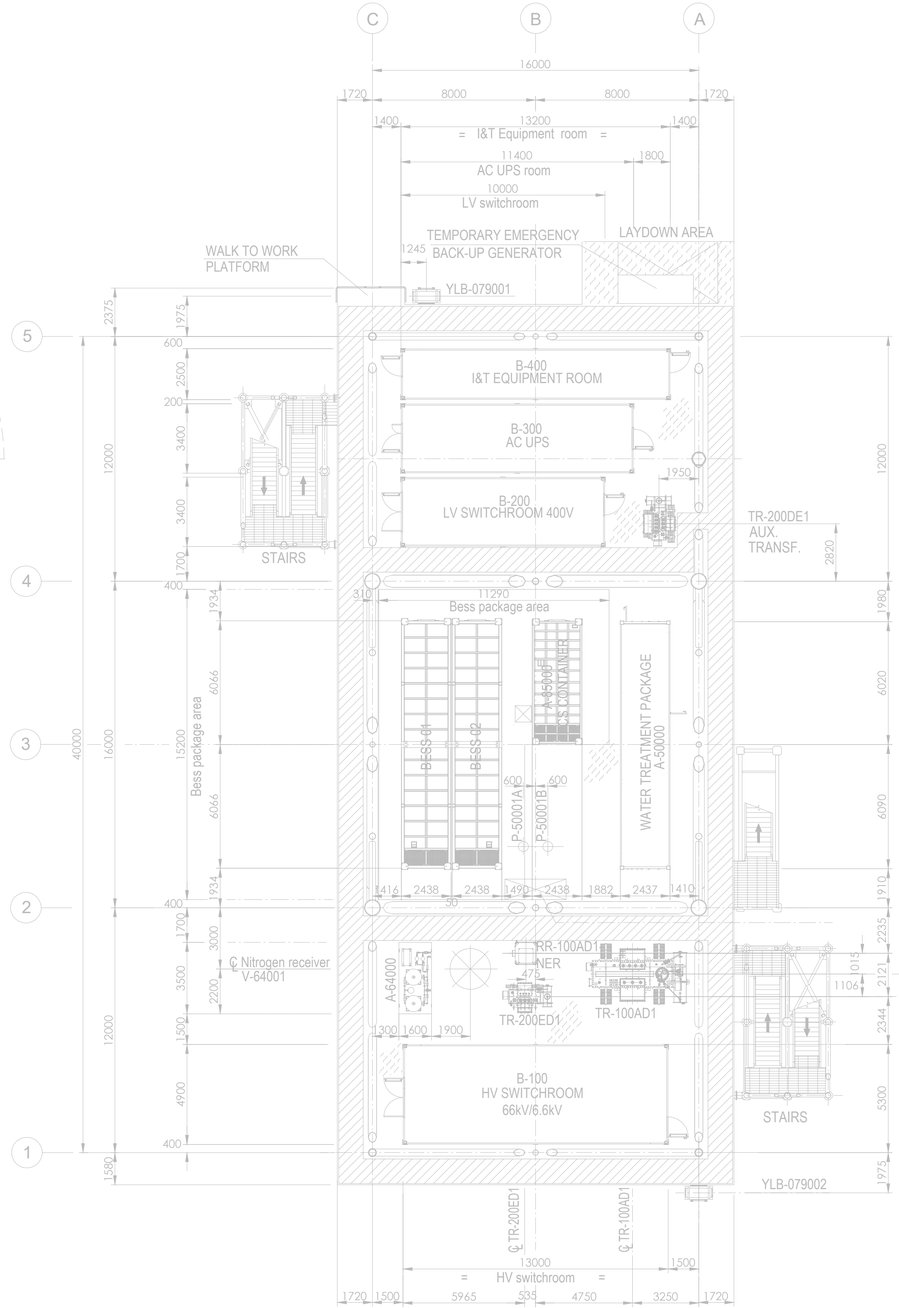
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DRAWING NO. 123A90-DDL-SAF-DL-30022

REV. 01



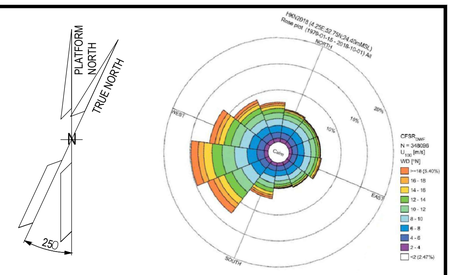
PLAN ON UPPER DECK
EL+30.310 T.O.S.



PLAN ON LOWER DECK
EL+23.310 T.O.S.

Tag No.	Equipment Tag	Description	Material	Ventilation Type
01	P-50001 A/B	SEA WATER LIFT PUMPS	SEA WATER	NATURAL (OPEN AREA)
02	Q-43004	HYDROGEN VENT	HYDROGEN	NATURAL (OPEN AREA)
03	V-43001	HYDROGEN VENT KO DRUM	HYDROGEN	NATURAL (OPEN AREA)
04	V-25001 (A/B/C/D/E/F)	HYDROGEN STORAGE VESSELS	HYDROGEN	NATURAL (OPEN AREA)
05	V-63001	AIR RECEIVER	INSTRUMENT AIR	NATURAL (OPEN AREA)
06	A-20000	ELECTROLYSER PACKAGE		
07	A-63000	INSTRUMENT AIR PACKAGE		
08	A-80000	FUEL CELL PACKAGE		
09	A-85000	BESS PACKAGE		
10	YLB-079001/2	LIFE RAFTS		
11	A-50000	WATER TREATMENT PACKAGE		

Tag No.	Equipment Tag	Description	Material	Ventilation Type
12	A-64000	NITROGEN SYSTEM		
13	B-100	HV SWITCHROOM 66kV/6.6kV		
14	B-200	LV SWITCHROOM 400V		
15	B-300	AC UPS EQUIPMENT ROOM		
16	B-400	I&T EQUIPMENT ROOM		
17	TR-100AD1	TRANSFORMER MAIN 66kV/6.6kV		
18	RR-100AD1-NER	NEUTRAL EARTHING RESISTOR		
19	TR-200DE1	TRANSFORMER AUX. 6.6kV/0.4kV		
20	TR-200ED1	SOLAR TRANSFORMER PV FARM EQUIPMENT		
21	X-99001	CRANE		
22	V-64001	NITROGEN RECEIVER		



1. ALL DIMENSIONS IN mm U.N.O
2. ALL ELEVATIONS IN METERS.
3. PLATFORM NORTH DIRECTION IS N 25°W.
4. VENT TOP SHALL BE REACHEABLE FOR MAINTENANCE PURPOSE.
5. THE BESS IS CONSIDERED SAFE AREA EXCEPT EXTRACTORES FROM BATTERIES , CURRENTLY NOT SHOWN IN DRAWINGS, SINCE INFORMATION FROM VENDOR IS NOT YET AVAILABLE.[ES17]
6. THE LOCATION OF EMISSION SOURCES ON THE LAYOUT ARE ONLY INDICATIVE. EMISSION SOURCES CONSIDERED ARE PRESENT WITHIN THE EXTENSION OF HAZARDOUS CLASSIFIED AREAS SHOWN ON THE LAYOUT. THIS IS BECAUSE VALVES AND FLANGES,WHICH ARE CONSIDERED POTENTIAL SOURCES OF RELEASE POINTS FOR FLAMMABLE GAS ARE NOT SHOWN ON CURRENT LAYOUT PROVIDED. THE SAME APPLIES TO THE EMISSION SOURCES FOR CPI'S ITEM.
7. IDENTIFIED EMISSION SOURCES DETAIL

EMISSION SOURCE No.	IDENTIFIED AREAS
ES10	HYDROGEN STORAGE VESSLES
ES11	HYDROGEN VENT KO DRUM
ES16	FUEL CELL

01

ZONE 0 | ZONE 1 | ZONE 2 | ES EMISSION SOURCES

01

01

123A90-DDL-PP-DS-70071	PLOT PLAN - BELOW LOWER DECK
123A90-DDL-PP-DS-70072	PLOT PLAN - ELEVATION LOOKING NORTH & EAST

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	27/08/24	MMA	CCA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	08/02/24	MMA	CCA	DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND

ROSETTI MARINO

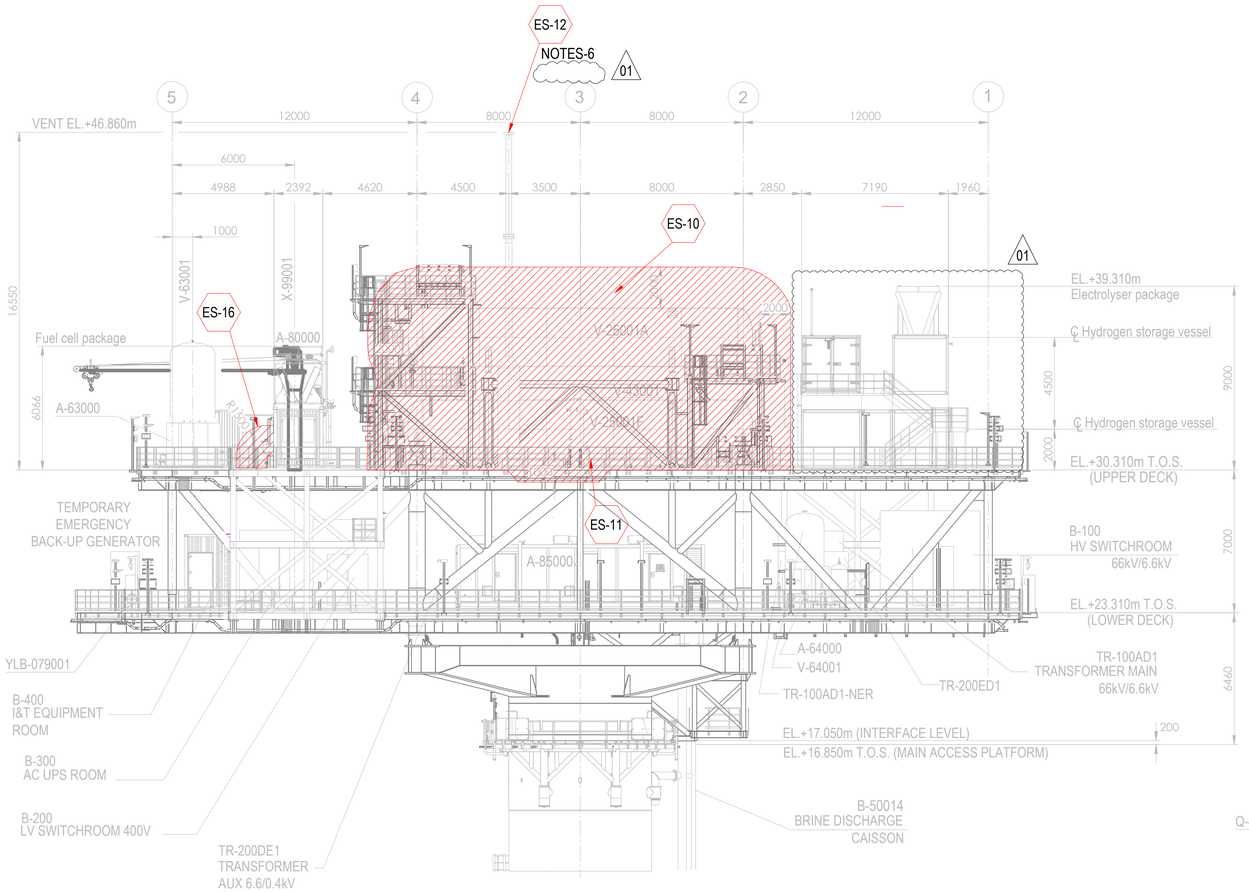
TITLE : BASE LOAD POWER HUB (BLPH)
HAZARDOUS AREA CLASSIFICATION
LOWER & UPPER DECK

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK		SCALE 1:150
DRAWN M. MAGNI	CHECKED C. CARACCIOLO	APPROVED D. LO STERZO	DATE 03/07/24
A1	DRAWING NO. 123A90-DDL-SAF-DL-30022	SHEET 001	REV. 01

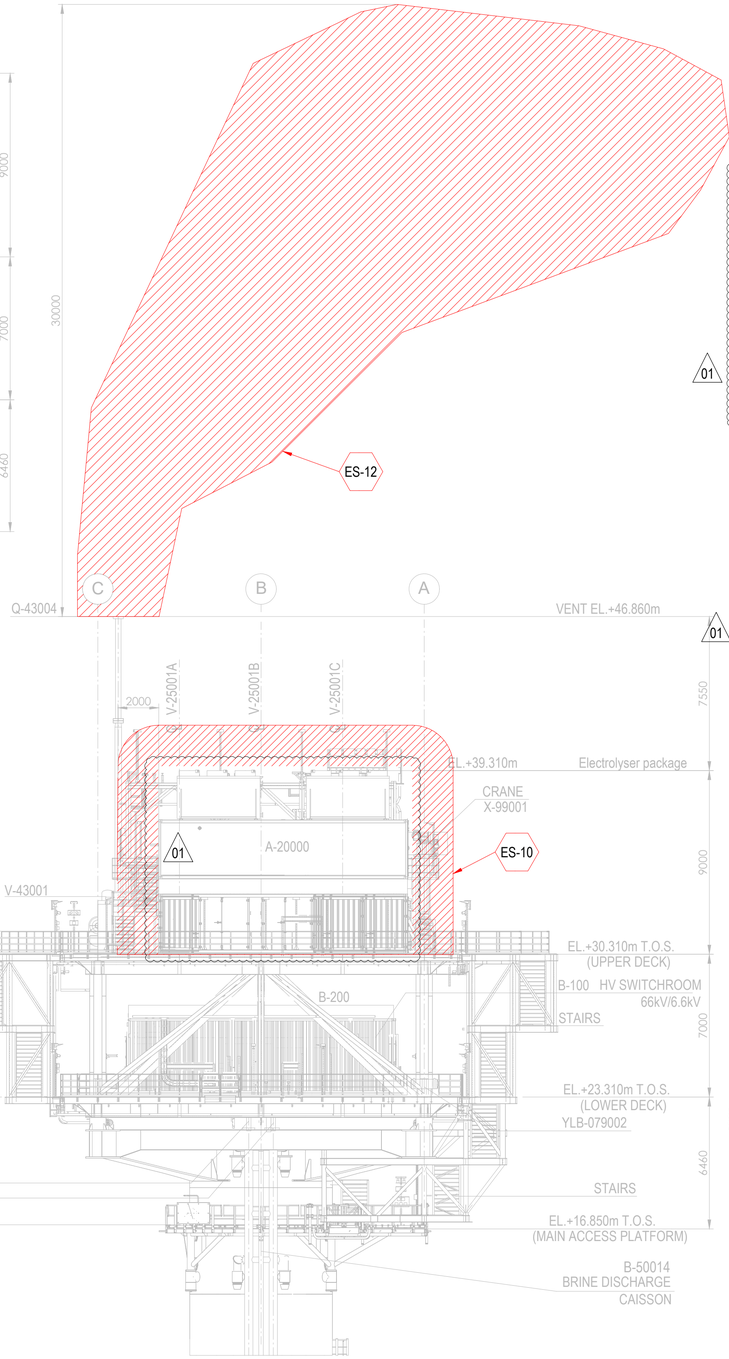
File Name : 123A90-DDL-SAF-DL-30022 Rev.01

DRAWING NO. 123A90-DDL-SAF-DL-30024

REV. 01



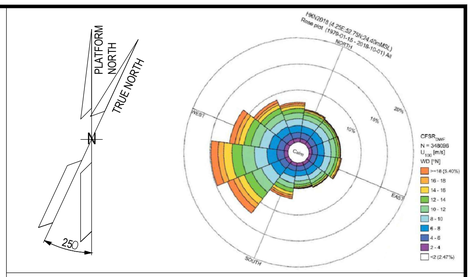
ELEVATION LOOKING EAST



ELEVATION LOOKING NORTH

01

Tag No.	Equipment Tag	Description	Material	Ventilation Type
01	P-50001 A/B	SEA WATER LIFT PUMPS	SEA WATER	NATURAL (OPEN AREA)
02	Q-43004	HYDROGEN VENT	HYDROGEN	NATURAL (OPEN AREA)
03	V-43001	HYDROGEN VENT KO DRUM	HYDROGEN	NATURAL (OPEN AREA)
04	V-25001 (A/B/C/D/E/F)	HYDROGEN STORAGE VESSELS	HYDROGEN	NATURAL (OPEN AREA)
05	V-63001	INSTRUMENT AIR RECEIVER	INSTRUMENT AIR	NATURAL (OPEN AREA)
06	A-20000	ELECTROLYSER PACKAGE		
07	A-63000	INSTRUMENT AIR PACKAGE		
08	A-80000	FUEL CELL PACKAGE		
09	A-85000	BESS PACKAGE		
10	YLB-079001/2	LIFE RAFTS		
11	B-100	HV SWITCHROOM 66kV/6.6kV		
12	B-200	LV SWITCHROOM 400V		
13	B-300	AC UPS EQUIPMENT ROOM		
14	B-400	I&T EQUIPMENT ROOM		
15	TR-100AD1	TRANSFORMER MAIN 66kV/6.6kV		
16	TR-100AD1-NER	NEUTRAL EARTHING RESISTOR		
17	TR-200DE1	TRANSFORMER AUX. 6.6kV/0.4kV		
18	TR-200ED1	SOLAR TRANSFORMER PV FARM EQUIPMENT		
19	X-99001	CRANE		
20	V-64001	NITROGEN RECEIVER		



NOTES

1. ALL DIMENSIONS IN mm U.N.O
2. ALL ELEVATIONS IN METERS.
3. PLATFORM NORTH DIRECTION IS N 25°W.
4. VENT TOP SHALL BE REACHEABLE FOR MAINTENANCE PURPOSE.
5. THE BESS IS CONSIDERED SAFE AREA EXCEPT EXTRACTORES FROM BATTERIES , CURRENTLY NOT SHOWN IN DRAWINGS, SINCE INFORMATION FROM VENDOR IS NOT YET AVAILABLE.[ES17]
6. (ES12) IS SHOWN ONLY ON ELEVATION LOOKING NORTH ON THIS LAYOUT
7. THE LOCATION OF EMISSION SOURCES ON THE LAYOUT ARE ONLY INDICATIVE. EMISSION SOURCES CONSIDERED ARE PRESENT WITHIN THE EXTENSION OF HAZARDOUS CLASSIFIED AREAS SHOWN ON THE LAYOUT. THIS IS BECAUSE VALVES AND FLANGES,WHICH ARE CONSIDERED POTENTIAL SOURCES OF RELEASE POINTS FOR FLAMMABLE GAS ARE NOT SHOWN ON CURRENT LAYOUT PROVIDED. THE SAME APPLIES TO THE EMISSION SOURCES FOR CPI'S ITEM.
8. IDENTIFIED EMISSION SOURCES DETAIL

EMISSION SOURCE No.	IDENTIFIED AREAS
ES10	HYDROGEN STORAGE VESSLES
ES11	HYDROGEN VENT KO DRUM
ES12	HYDROGEN VENT
ES16	FUEL CELL

01

LEGEND

ZONE 0 | ZONE 1 | ZONE 2 | ES EMISSION SOURCES

01

REFERENCE DOCUMENTS

123A90-DDL-PP-DS-70070	PLOT PLAN - LOWER & UPPER DECK
123A90-DDL-PP-DS-70071	PLOT PLAN - BELOW LOWER DECK

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	27/08/24	MMA	CCA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	08/02/24	MMA	CCA	DLO	ISSUE FOR REVIEW (IFR)

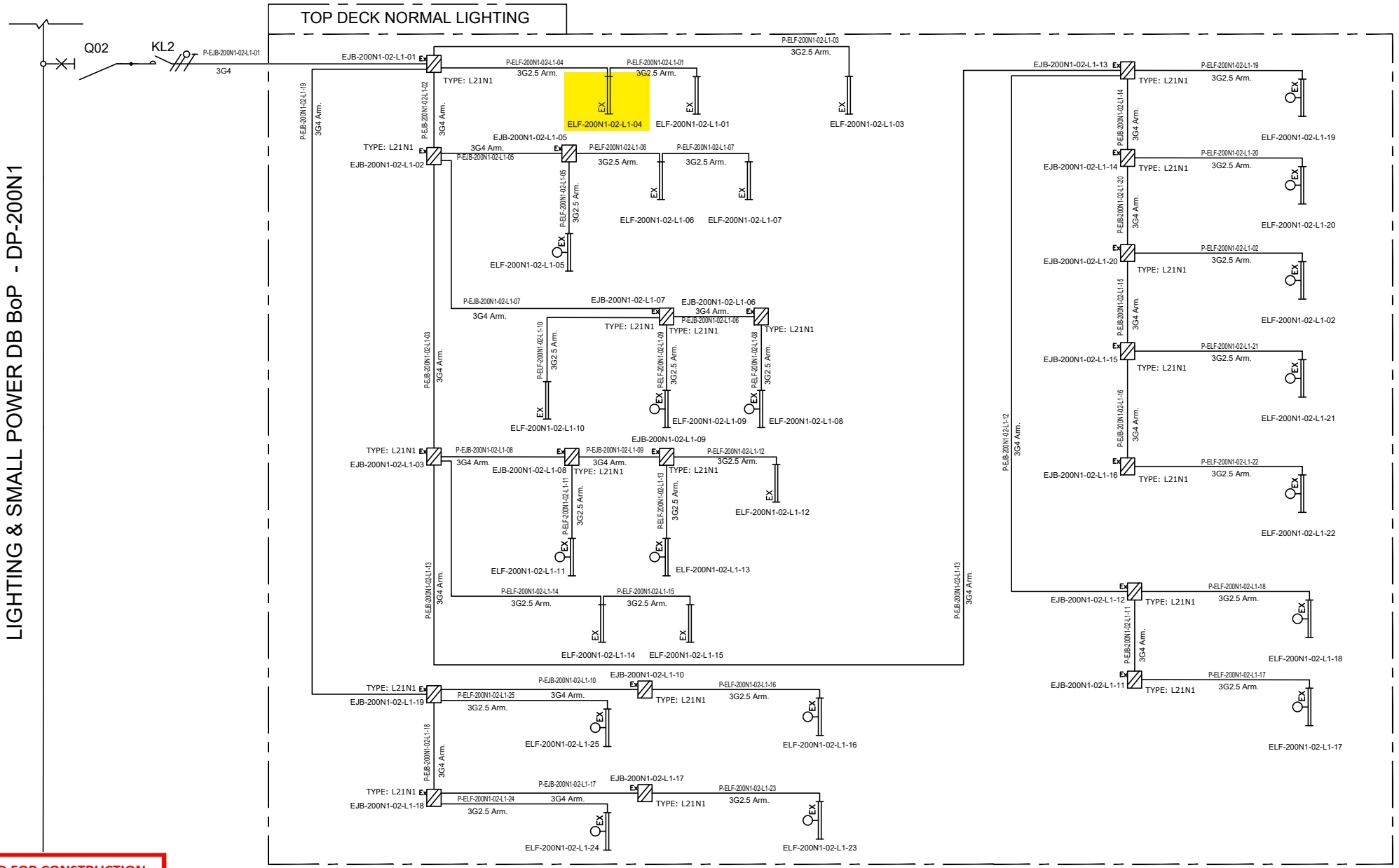
CROSSWIND | ROSETTI MARINO

TITLE :
BASE LOAD POWER HUB (BLPH)
HAZARDOUS AREA CLASSIFICATION
ELEVATION LOOKING NORTH & EAST

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK			SCALE 1:150
DRAWN M. MAGNI	CHECKED C. CARACCIOLO	APPROVED D. LO STERZO	DATE 03/07/24

A1	DRAWING NO. 123A90-DDL-SAF-DL-30024	SHEET 001	REV. 01

File Name : 123A90-DDL-SAF-DL-30024 Rev.01



VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DG-20125**

REV.:	DATE:	SIGNATURE:
2_C	20/12/24	V.Ramponi

ROSETTI MARINO SpA

CROSSWIND

ROSETTI MARINO

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	08/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	01/07/24	ASR	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

TITLE : BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET CIRCUIT DIAGRAM
TOP DECK–NORMAL LIGHTING

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE : NTS

A3

DRAWING NO. 123A90–DDL–EL–DG–20125

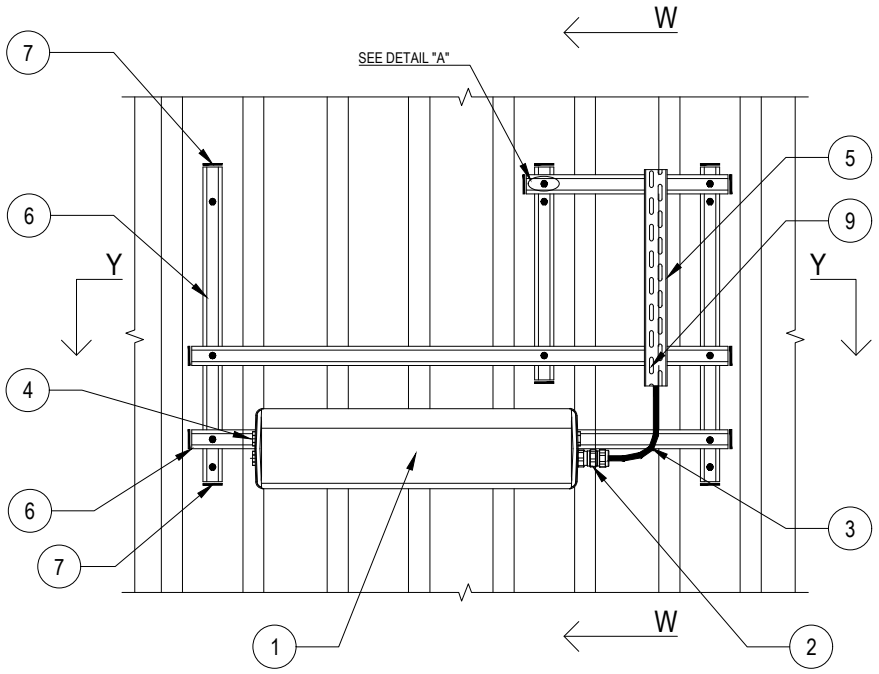
SHEET 010

REV. 01

F.to UNI A3: 420mmx297mm

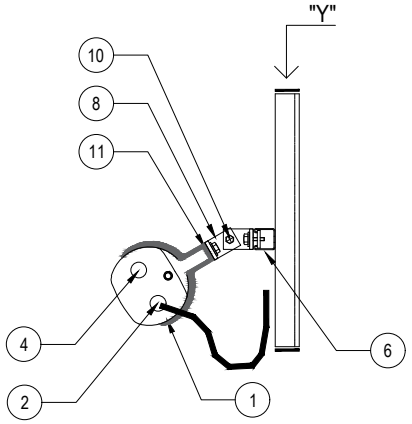
File Name : 123A90–DDL–EL–DG–20125

L10

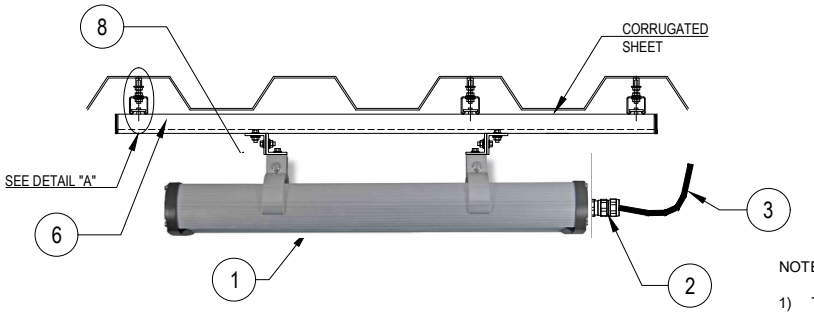


02

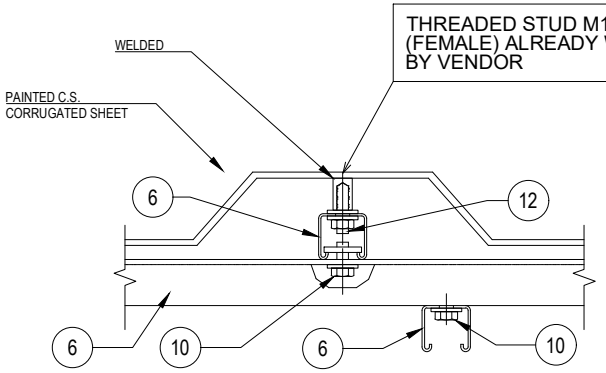
POS.	DESCRIPTION	MATERIAL	SIZE	Q.TY	NOTE
1	LIGHITNG FIXTURE (Ex) WITH LED LAMP	ALUMINIUM ALLOY		1	
2	CABLE GLAND (Ex) FOR ARMOURED/UNARMOURED CABLE	NICK.PL.BRASS		AS REQ.	NOTE 2 NOTE 4
3	ARMOURED/UNARMOURED CABLE				NOTE 4
4	PLUG	NICK.PL.BRASS		AS REQ.	NOTE 3
5	CABLE TRAY	AISI 316L			
6	SINGLE U-CHANNEL PERFORATED ON NO.3 SIDE	AISI 316L	41x41x2		NOTE 1
7	PLUG FOR U-CHANNEL	LPDE		AS REQ.	
8	ANGLE PLATE FOR ORTOGONAL-TRASV. CONNECTION WITH NO. 2 HOLES FOR UNISTRUT PROFILE 41x41x2X2	AISI 316L		4	
9	DOUBLE SLOT CROWNED HEAD SCREW WITH NUT FOR CHANNEL WITH SPRING	AISI 316L	M6x20		
10	HEX. BOLT WITH PLANE WASHERS, SPRING WASHER AND NUT	AISI 316L	M10x30	4	
11	HEX. BOLT WITH PLANE WASHER	AISI 316L	M8x16	2	
12	THREADED ROD COMPLETE WITH PLANE WASHER, LARGE PLANE WASHERS, SPRING WASHER AND NUTS	AISI 316L	M10x110		



SECTION "W-W"



SECTION "Y-Y"



DETAIL "A"

NOTES:

1) THE EXACT DIMENSIONS WILL BE DEFINED DURING ASSEMBLY PHASE.
2) CABLE GLAND COMPLETE WITH LOCKNUT, NYLON WASHER, SERRATED WASHER, EXTERNAL RUBBER RING AND EARTH TAG (IF NECESSARY).
3) UNUSED CABLE ENTRIES MUST BE CLOSED WITH NICKEL PLATED BRASS PLUG.
4) FOR LAMPS IN HAZARDOUS AREA, USE ARMOURED CABLE, DOUBLE SEAL CABLE GLAND AND EX JUNCTION BOX.

VALID FOR CONSTRUCTION

REV.:	DATE:	SIGNATURE:
2_B	12/12/24	C.Pilato

ROSETTI MARINO SpA

CROSSWIND

ROSETTI MARINO

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	30/09/24	GRA	AMA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	04/07/24	NLK	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	21/11/23	SPS	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL TYPICAL INSTALLATION DETAILS-LIGHTING SYSTEM
LIGHTING FIXTURE MOUNTED ON WALL WITH U-CHANNEL

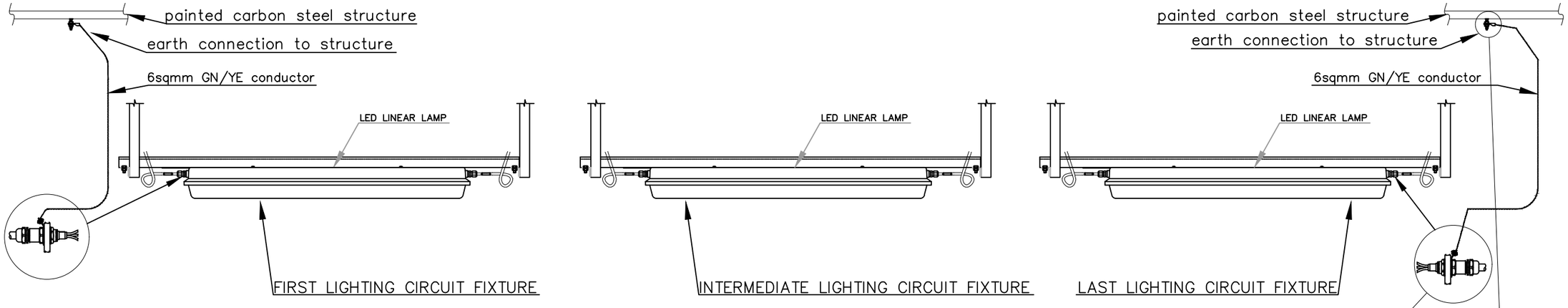
CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK | SCALE : NTS

A3 | DRAWING NO. 123A90-DDL-EL-DD-20091 | SHEET 012 | REV. 02

F.to UNI A3: 420mmx297mm

File Name : 123A90-DDL-EL-DD-20091 REV.02.DWG

E32

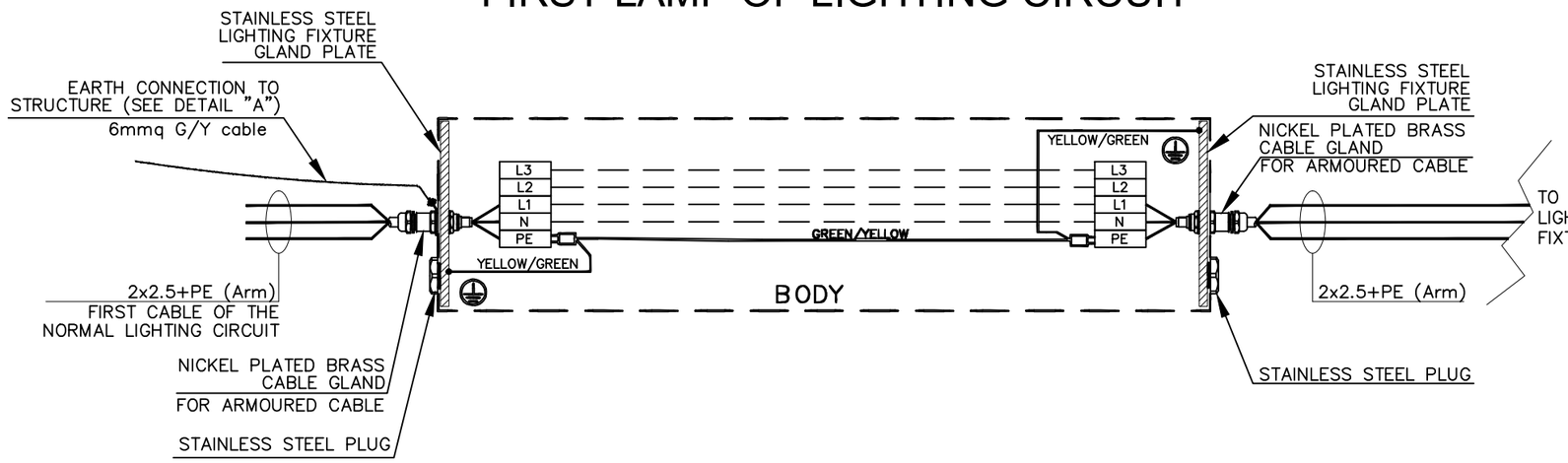


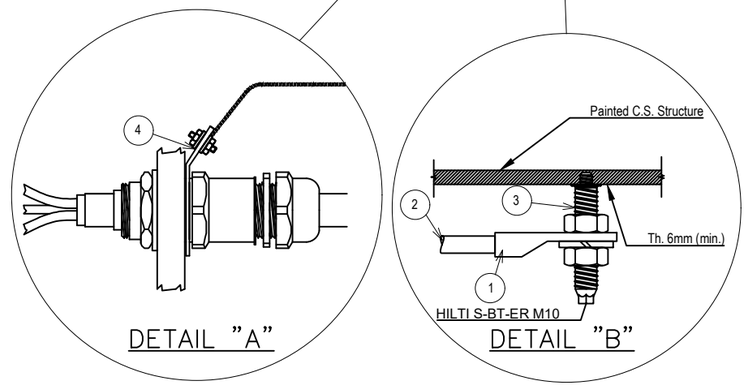
ONLY the first and the last lighting fixture of all circuits are connected to earthing system. The earthing continuity of the intermediate lighting fixtures of the circuits is guaranteed by the using of the first and the last lighting fixture earthing connection which is permanently connected to the earthing system as per the typical below.

Refer also to TYP. "E05" for Lighting Fixtures.

NORMAL LIGHTING CIRCUIT EARTHING CONTINUITY TYPICAL

FIRST LAMP OF LIGHTING CIRCUIT





POS.	DESCRIPTION	MATERIAL	SIZE	Q.TY	NOTE
1	COMPRESSION TYPE LUG FOR INSULATION COPPER CONDUCTOR	TINNED COPPER			
2	Y/G INSULATING COPPER CONDUCTOR		6sqmm	ASR	
3	HILTI S-BT-ER M10/15 SN6 C/W NUTS AND GROWER	AISI 316L	M10X28		NOTE 1
4	CABLE GLAND EARTH TAG	NPB	M20		

The same logic is used for the earthing continuity of Emergency Lighting Circuits. The above typical has been done to represent the Earthing Continuity of G/Y conductors, the correct connections of all conductors in the respective Terminal Strips are shown in doc. AR-FEN-10-ROEC-600132 Lighting and Socket Circuit Diagrams.

NOTES:
1) HILTI S-BT-ER M10/15 SN6 CERTIFIED FOR EARTHING SYSTEM FOR SINGLE EQUIPMENTS EARTHING CONNECTION.

VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DD-20090**

REV.:	DATE:	SIGNATURE:
2_H	05/11/24	G.Randi

ROSETTI MARINO SpA

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	26/08/24	GRA	AMA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	10/06/24	SPS	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	21/11/23	SPS	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL TYPICAL INSTALLATION DETAILS–EARTHING SYSTEM
EARTHING – OUTDOOR LINEAR LIGHTING FIXTURE

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK | SCALE : NTS

A3 | DRAWING NO. 123A90-DDL-EL-DD-20090 | SHEET 023 | REV. 02

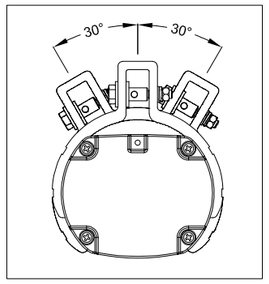
F.to UNI A3: 420mmx297mm

File Name : 123A90-DDL-EL-DD-20090 REV.02.DWG

MODEL C-225 REV.1

GENERAL NOTE:
- PO: 1724001290 DD 26/06/2024
- ITEM.: 1
- Q.TY: 57
- EXTERNAL PAINTING: RAL 7022 (END CAPS)
- INTERNAL PAINTING: NOT PAINTED
- ALL DIMENSIONS ARE IN mm

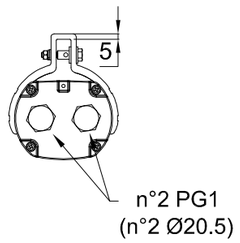
STANDARD FIXING BRACKET
FASTENING WITH 2 THREADED M8
HOLES, ADJUSTABLE FROM 0° TO ±30°



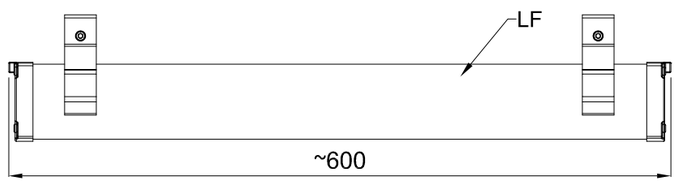
LF INFORMATION	
NOMINAL POWER	45W
CONSUMED POWER	43,5W
POWER FACTOR	>0,93
RATED CURRENT	200 mA
VIEWING ANGLE	120°
COLOUR TEMP.	5000 K
CRI	>80
INSTANT RESTRIKE	YES
LUMEN	6200 lm
LIGHT INTENSITY	2248 cd
EFFICIENCY	143 lm/W
WEIGHT	2,5 Kg
IP PROTECTION	IP66

N°	Q.TY	CODE	DESCRIPTION
LF	1	LIFEX-ME-0645-BB	110-277Vac 50-60Hz 45W LED LINEAR LIGHTING FIXTURE BODY: ALUMINUM ALLOY EXTRUSION AND ALUMINUM END CAPS TRANSPARENT PART: GLASS RESISTANT TO SHOCKS, UV RAYS AND IMPACT RESISTANCE IK09 GASKETS: ACID AND HYDROCARBON RESISTANT SILICONE ASSEMBLY: FASTENING BRACKETS FOR M8 HOLES, ADJUSTABLE 0° TO ±30° MADE IN ANODIZED ALUMINUM CONNECTION: TERMINAL BLOCK ON SIDE (IN) L, N, PE CROSS SEC. MAX. 4mmq SUITABLE FOR LOOP-IN LOOP-OUT SCREWS, BOLTS AND NUTS: STAINLESS STEEL 304
PG1	4	PLG1IB +DL1IB +RDI1IS/A4	IP66 Ex db IIC Gb - Ex eb IIC Gb NICKEL PLATED BRASS PLUG ISO M20x1,5 WITH RELEVANT LOCKNUT AND SERRATED WASHER MADE IN STAINLESS STEEL

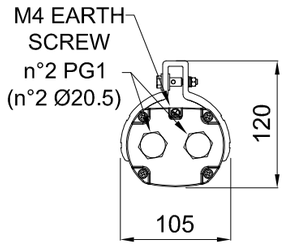
LEFT SIDE (OUT)



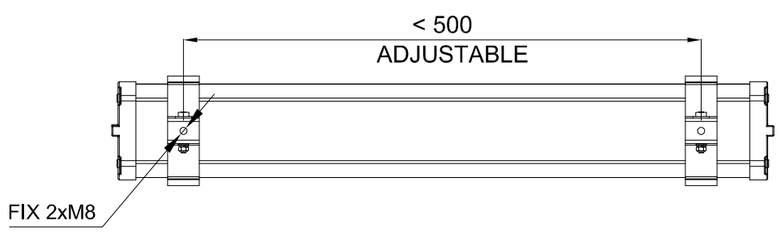
FRONT SIDE



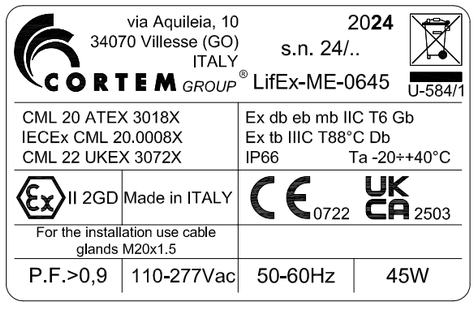
RIGHT SIDE (IN)



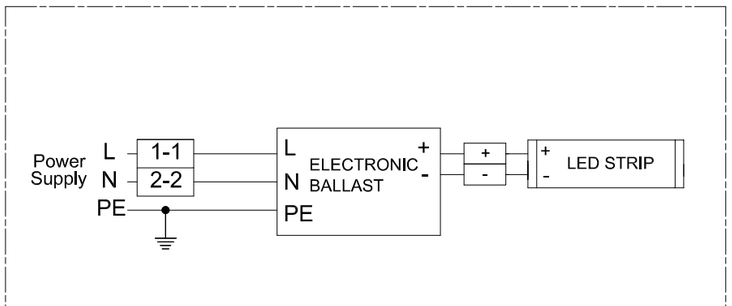
TOP SIDE



CERTIFICATE NAMEPLATE



WIRING DIAGRAM



REV.	DATE	PREP'D	CHK'D	APP'D	DESCRIPTION
2	09/07/2024	FRATTARUOLO	GIUSTI	GRATTON	REISSUED FOR APPROVAL
1	05/07/2024	FRATTARUOLO	GIUSTI	GRATTON	REISSUED FOR APPROVAL
0	28/06/2024	FRATTARUOLO	GIUSTI	GRATTON	ISSUED FOR APPROVAL

DRAWING TITLE: ROSETTI MARINO S.P.A.

CORTEM S.p.a.
GENERAL LAYOUT
001 LIFEX-ME-0645-BB/C2402693/10.

CORTEM JOB: COV2402693
DRAWING SCALE: /
DRAWING NUMBER: A3-C 27521
SHEET: 1
NEXT: 2
TOT.: 2

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AND IT CANNOT BE REPRODUCED WITHOUT CORTEM'S
AUTHORIZATION

Smart Professional R. 2012

Row	Data Sheet for Lighting Fixtures & Accessories				Rev.
1	42W LED Linear Luminaire-Normal Lighting-ATEX Area				
2	Item	Required	Manufacturer Proposal	Comments	
3	Model Number	by vendor	LIFEX-ME-0645-BB		01
4	Serial Number	by vendor			00
5	Quantity	28 Nos.		(25+3 Spare)	01
6	Location / Module	Upper deck			00
7	**LED Lamp**				
8	Nominal power	42 watts	45 watts		01
9	No. of linear	1	1		01
10	Luminous flux	5810 lm	6200 lm		01
11	Colour Temperature	5000 K	5000 K		01
12	**Protection**				
13	Hazardous Area Certification (Ex)	Zone 1 Gas Group IIC (or) IIB + H2, T1	Ex II 2GD Ex db eb mb IIC Gb Ex tb IIIC Db		01
14	Degree of Protection (IP)	IP 56	IP 66		01
15	ATEX certified	Classification EX db	ATEX CML 20 ATEX 3018X		01
16	**Material**				
17	Body	GRP/Aluminium alloy	Aluminium alloy		01
18	Reflector	GRP/Aluminium	Aluminium		01
19	Diffuser	Polycarbonate/temperate glass	Tempered glass		01
20	**Cable Entry**				
21	No. of cable entry	4 Nos.	4 Entries, 2 per side		01
22	Size	M20	Ø20.5mm		01
23	**Emergency Battery Pack**				
24	Requirement	Not required			00
25	Battery type	Not required			00
26	Autonomy	Not required			00
27	Emergency luminous flux	Not required			00
28	**Mechanical parameters**				
29	Dimension	by vendor	600x105x120(mm)		01
30	Weight	by vendor	2.5kg		01

Note:

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Its distribution is electronically controlled. Once printed shall be considered as "NOT CONTROLLED" copy

Tag Number	Tag Description	Location	P.O.	Vendor	Manufacturer	Serial Number	Model Type Catalogue Number	Installation Zone	ATEX Certificate Number	Reference Document	ATEX Certification Marking	Notes / Comments	Skid / Package	Electrical Equip.	Barrier Calculation Ref.	Special Conditions of Safe Use Applicable	3D Location
EJB-200N1-08-L1-07	Emergency Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990079	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-08-L1-08	Emergency Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990081	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-08-L1-09	Emergency Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990080	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-08-L1-10	Emergency Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990075	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-08-L1-11	Emergency Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990074	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-08-L1-12	Emergency Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990073	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-08-L1-14	Emergency Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990071	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-08-L1-15	Emergency Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990070	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-08-L1-16	Emergency Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990069	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-08-L1-17	Emergency Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990068	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-08-L1-18	Emergency Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990067	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-08-L1-19	Emergency Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990066	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-08-L1-20	Emergency Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990076	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-09-L2-01	Emergency Lighting JB	LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990016	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-09-L2-02	Emergency Lighting JB	LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990019	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-09-L2-04	Emergency Lighting JB	LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990017	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-09-L2-05	Emergency Lighting JB	LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990030	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-09-L2-06	Emergency Lighting JB	LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990029	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-09-L2-07	Emergency Lighting JB	LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990028	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-09-L2-08	Emergency Lighting JB	LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990027	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-09-L2-09	Emergency Lighting JB	LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990026	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-09-L2-10	Emergency Lighting JB	LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990025	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-09-L2-11	Emergency Lighting JB	LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990024	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-09-L2-12	Emergency Lighting JB	LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990023	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-09-L2-13	Emergency Lighting JB	LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990022	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-09-L2-14	Emergency Lighting JB	LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990021	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-09-L2-15	Emergency Lighting JB	LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990020	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-09-L2-16	Emergency Lighting JB	LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990031	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-09-L2-17	Emergency Lighting JB	BELOW LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990015	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-10-L3-01	Stair Emergency Lighting JB	LOWER & UPPER DECK STAIRS	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990040	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-10-L3-02	Stair Emergency Lighting JB	LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990039	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-10-L3-03	Stair Emergency Lighting JB	LOWER & UPPER DECK STAIRS	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990041	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-10-L3-04	Stair Emergency Lighting JB	LOWER & UPPER DECK STAIRS	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990042	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-10-L3-05	Stair Emergency Lighting JB	BELOW LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990034	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-10-L3-06	Stair Emergency Lighting JB	BELOW LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990035	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-10-L3-07	Stair Emergency Lighting JB	BELOW LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990036	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-10-L3-08	Stair Emergency Lighting JB	BELOW LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990037	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-10-L3-09	Stair Emergency Lighting JB	BELOW LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990038	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
ELF-200N1-02-L1-01	Normal Lighting Fixture	UPPER DECK	1724001290	Cortem Spa	Cortem Spa	24/86772	LIFEX-ME-0645-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	
ELF-200N1-02-L1-02	Normal Lighting Fixture	UPPER DECK	1724001290	Cortem Spa	Cortem Spa	24/86773	LIFEX-ME-1260N-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	
ELF-200N1-02-L1-03	Normal Lighting Fixture	UPPER DECK	1724001290	Cortem Spa	Cortem Spa	24/86772	LIFEX-ME-0645-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	
ELF-200N1-02-L1-04	Normal Lighting Fixture	UPPER DECK	1724001290	Cortem Spa	Cortem Spa	24/86772	LIFEX-ME-0645-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	
ELF-200N1-02-L1-05	Normal Lighting Fixture	UPPER DECK	1724001290	Cortem Spa	Cortem Spa	24/86772	LIFEX-ME-0645-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	HAZARDOUS-AREA_8
ELF-200N1-02-L1-06	Normal Lighting Fixture	UPPER DECK	1724001290	Cortem Spa	Cortem Spa	24/86772	LIFEX-ME-0645-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	
ELF-200N1-02-L1-07	Normal Lighting Fixture	UPPER DECK	1724001290	Cortem Spa	Cortem Spa	24/86772	LIFEX-ME-0645-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	HAZARDOUS-AREA_8 HAZARDOUS-AREA_3
ELF-200N1-02-L1-08	Normal Lighting Fixture	UPPER DECK	1724001290	Cortem Spa	Cortem Spa	24/86772	LIFEX-ME-0645-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	HAZARDOUS-AREA_8 HAZARDOUS-AREA_3
ELF-200N1-02-L1-09	Normal Lighting Fixture	UPPER DECK	1724001290	Cortem Spa	Cortem Spa	24/86772	LIFEX-ME-0645-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	HAZARDOUS-AREA_8 HAZARDOUS-AREA_1
ELF-200N1-02-L1-10	Normal Lighting Fixture	UPPER DECK	1724001290	Cortem Spa	Cortem Spa	24/86772	LIFEX-ME-0645-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	HAZARDOUS-AREA_8 HAZARDOUS-AREA_1
ELF-200N1-02-L1-11	Normal Lighting Fixture	UPPER DECK	1724001290	Cortem Spa	Cortem Spa	24/86772	LIFEX-ME-0645-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	HAZARDOUS-AREA_3 HAZARDOUS-AREA_2 HAZARDOUS-AREA_5 HAZARDOUS-AREA_6
ELF-200N1-02-L1-12	Normal Lighting Fixture	UPPER DECK	1724001290	Cortem Spa	Cortem Spa	24/86772	LIFEX-ME-0645-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	HAZARDOUS-AREA_1 HAZARDOUS-AREA_2 HAZARDOUS-AREA_5 HAZARDOUS-AREA_4
ELF-200N1-02-L1-13	Normal Lighting Fixture	UPPER DECK	1724001290	Cortem Spa	Cortem Spa	24/86772	LIFEX-ME-0645-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	HAZARDOUS-AREA_1 HAZARDOUS-AREA_2 HAZARDOUS-AREA_5 HAZARDOUS-AREA_4
ELF-200N1-02-L1-14	Normal Lighting Fixture	UPPER DECK	1724001290	Cortem Spa	Cortem Spa	24/86772	LIFEX-ME-0645-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	
ELF-200N1-02-L1-15	Normal Lighting Fixture	UPPER DECK	1724001290	Cortem Spa	Cortem Spa	24/86772	LIFEX-ME-0645-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	
ELF-200N1-02-L1-16	Normal Lighting Fixture	UPPER DECK	1724001290	Cortem Spa	Cortem Spa	24/86772	LIFEX-ME-0645-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	

EU Type Examination Certificate CML 20ATEX3018X Issue 1

1 Equipment intended for use in Potentially Explosive Atmospheres Directive 2014/34/EU

2 Equipment **LifEx-ME, LifEx-MN and LifEx-MT series of linear lighting fixtures**

3 Manufacturer **Cortem S.p.A.**

4 Address **Via Aquileia 10**
34070 Villesse
(GO)
Italy

5 The equipment is specified in the description of this certificate and the documents to which it refers.

6 CML B.V., Chamber of Commerce No 6738671, Koopvaardijweg 32, 4906CV Oosterhout, The Netherlands, Notified Body Number 2776, in accordance with Article 17 of Directive 2014/34/EU of the European Parliament and of the Council, dated 26 February 2014, certifies that this equipment has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of equipment intended for use in potentially explosive atmospheres given in Annex II to the Directive.

The examination and test results are recorded in the confidential reports listed in Section 12.

7 If an 'X' suffix appears after the certificate number, it indicates that the equipment is subject to conditions of safe use (affecting correct installation or safe use). These are specified in Section 14.

8 This EU Type Examination certificate relates only to the design and construction of the specified equipment or component. Further requirements of Directive 2014/34/EU Article 13 apply to the manufacture of the equipment or component and are separately certified.

9 Compliance with the Essential Health and Safety Requirements, with the exception of those listed in the confidential report, has been demonstrated through compliance with the following documents:

EN IEC 60079-0:2018	EN 60079-1:2014	EN IEC 60079-7:2015+A1:2018
EN 60079-18:2015+A1:2017	EN 60079-31:2014	

10 The equipment shall be marked with the following:

LifEx-ME	LifEx-MN and LifEx-MT
Ex db eb mb IIC T.. Gb	Ex tb IIIC T…°C Db
Ex eb mb IIC T.. Gb *(when Ex mb LED drivers are used)*	IP66
Ex tb IIIC T…°C Db	
IP66	
Ta=* see description	Ta=* see description

11 Description

The LifEx is a range of linear LED lighting fixtures that are available in three different configurations for different applications, designated as the LifEx-ME, LifEx-MT and LifEx-MN.

LifEx-ME

The LifEx-ME version has an Equipment Protection Level of EPL Gb and Db and utilises types of protection increased safety (eb) and dust protection by enclosure (tb), along with encapsulation (mb) for the light source and flameproof (db) for the driver.

It is constructed from an aluminium enclosure, with either a glass or polycarbonate lens and with optional polycarbonate diffuser.

LifEx-MN

The LifEx-MN version has an Equipment Protection Level of EPL Gc and Db and utilises types of protection increased safety (ec) and dust protection by enclosure (tb).

It is constructed from an aluminium enclosure, with polycarbonate diffuser and/or with optional glass or polycarbonate lens.

LifEx-MT

The LifEx-MT versions has an Equipment Protection Level of EPL Db and utilises types of protection dust protection by enclosure (tb).

It is constructed from an aluminium enclosure, with polycarbonate diffuser and/or with optional glass or polycarbonate lens.

Design Options

Every configuration is available in lengths ranging from 300 mm to 1500 mm, and power ratings up to a maximum of 105W of nominal power.

The LifEx can be used in only normal service, in only emergency service or in normal and emergency service.

The minimum ambient temperature for the range is:

- -60°C for versions without battery
- -60°C for versions with the battery heater
- -20°C for versions with battery

The range is available with the following maximum ambient temperatures:

	With glass lens and with/without polycarbonate diffuser	With Polycarbonate lens and with/without polycarbonate diffuser	Without lens polycarbonate diffuser only
LifEx-M...0310	+60°C	+60°C	+60°C
LifEx-M...0315	+60°C	+60°C	+60°C
LifEx-M...0330	+60°C	Configuration not available	Configuration not available
LifEx-M...0615	+60°C	+60°C	+60°C
LifEx-M...0630	+60°C	+50°C	+60°C
LifEx-M...0645	+57°C	+47°C	+60°C
LifEx-M...0660	+47°C	Configuration not available	+58°C
LifEx-M...1230	+60°C	+60°C	+60°C
LifEx-M...1260	+60°C	+50°C	+60°C
LifEx-M...1290	+60°C	+40°C	+60°C
LifEx-M...12120	+54°C	Configuration not available	+60°C
LifEx-M...1590	+60°C	+40°C	+60°C

Table 1: Maximum Ambient Temperatures

The following tables provide the Temperature Class (EPL Gb) and Maximum Surface Temperature (EPL Db) for each LifEx type, with the following notes:

- The LifEx-MN with an ambient temperature greater than 50°C is T5 or T4. T6 is not included.
- The Temperature Class (EPL Gb) and Maximum Surface Temperature (EPL Db) in the tables below are not applicable when the ambient temperature is not permitted in the above maximum ambient temperature range table.

13. (For example, the LifEx-M...0660 is not permitted with polycarbonate lens, therefore the Temperature Class (EPL Gb) and Maximum Surface Temperature (EPL Db) for this version in tables 2 and 3 are not applicable)

	Temperature Class (EPL Gb and Gc) and Maximum Surface Temperature (EPL Db) Based on ambient temperature													
	40°C		45°C		47°C		50°C		54°C		57°C		60°C	
	EPL Db	EPL Gb/Gc	EPL Db	EPL Gb/Gc	EPL Db	EPL Gb/Gc	EPL Db	EPL Gb/Gc	EPL Db	EPL Gb/Gc	EPL Db	EPL Gb/Gc	EPL Db	EPL Gb/Gc
LifEx-M...0310	T56°C	T6	T56°C	T6	T58°C	T6	T61°C	T6	T65°C	T6	T68°C	T6	T71°C	T6
LifEx-M...0315	T56°C	T6	T56°C	T6	T58°C	T6	T61°C	T6	T65°C	T6	T68°C	T6	T71°C	T6
LifEx-M...0615	T56°C	T6	T56°C	T6	T58°C	T6	T61°C	T6	T65°C	T6	T68°C	T6	T71°C	T6
LifEx-M...0630	T69°C	T6	T69°C	T5	T71°C	T5	T74°C	T5	T78°C	T5	T81°C	T4	T84°C	T4
LifEx-M...0645	T72°C	T5	T72°C	T5	T74°C	T5	T77°C	T5	T81°C	T4	T84°C	T4	T87°C	T4
LifEx-M...0660	T77°C	T5	T77°C	T4	T79°C	T4	T82°C	T4	T86°C	T4	T89°C	T4	T92°C	T4
LifEx-M...1230	T58°C	T6	T58°C	T6	T60°C	T6	T63°C	T6	T67°C	T6	T70°C	T6	T73°C	T6
LifEx-M...1260	T67°C	T6	T67°C	T5	T69°C	T5	T72°C	T5	T76°C	T5	T79°C	T4	T82°C	T4
LifEx-M...1290	T72°C	T5	T72°C	T5	T74°C	T4	T77°C	T4	T81°C	T4	T84°C	T4	T87°C	T4
LifEx-M...12120	T75°C	T5	T75°C	T4	T77°C	T4	T80°C	T4	T84°C	T4	T87°C	T4	T90°C	T4
LifEx-M...1590	T72°C	T5	T72°C	T5	T74°C	T4	T77°C	T4	T81°C	T4	T84°C	T4	T87°C	T4

Table 2: Temperature Class (EPL Gb) and Maximum Surface Temperature (EPL Db) for LifEx types with glass/polycarbonate lens and with polycarbonate diffuser

	Temperature Class (EPL Gb and Gc) and Maximum Surface Temperature (EPL Db) Based on ambient temperature					
	40°C		55°C		60°C	
	EPL Db	EPL Gc	EPL Db	EPL Gc	EPL Db	EPL Gc
LifEx-ME-0330	T58°C	T6	T73°C	T6	T78°C	T5
LifEx-MN-0330	T58°C	T6	T73°C	T5	T78°C	T4
LifEx-MT-0330	T58°C	-	T73°C	-	T78°C	-

Table 3: Temperature Class (EPL Gb and Gc) and Maximum Surface Temperature (EPL Db) for LifEx-M...-0330 types with glass/polycarbonate window and without polycarbonate diffuser

	Temperature Class (EPL Gb) and Maximum Surface Temperature (EPL Db) Based on ambient temperature													
	40°C		45°C		47°C		50°C		54°C		57°C		60°C	
	EPL Db	EPL Gb	EPL Db	EPL Gb	EPL Db	EPL Gb	EPL Db	EPL Gb	EPL Db	EPL Gb	EPL Db	EPL Gb	EPL Db	EPL Gb
LifEx-M...0310	T62°C	T6	T62°C	T6	T64°C	T6	T67°C	T6	T71°C	T6	T74°C	T6	T77°C	T6
LifEx-M...0315	T62°C	T6	T62°C	T6	T64°C	T6	T67°C	T6	T71°C	T6	T74°C	T6	T77°C	T6
LifEx-M...0615	T62°C	T6	T62°C	T6	T64°C	T6	T67°C	T6	T71°C	T6	T74°C	T6	T77°C	T6
LifEx-M...0630	T85°C	T6	T85°C	T5	T87°C	T5	T90°C	T5	T94°C	T5	T97°C	T4	T100°C	T4
LifEx-M...0645	T88°C	T6	T88°C	T5	T90°C	T5	T93°C	T5	T97°C	T4	T100°C	T4	T103°C	T4
LifEx-M...0660	T100°C	T6	T100°C	T4	T102°C	T4	T105°C	T4	T109°C	T4	T112°C	T4	T115°C	T4
LifEx-M...1230	T65°C	T6	T65°C	T6	T67°C	T6	T70°C	T6	T74°C	T6	T77°C	T6	T80°C	T6
LifEx-M...1260	T85°C	T6	T85°C	T5	T87°C	T5	T90°C	T5	T94°C	T5	T97°C	T4	T100°C	T4
LifEx-M...1290	T94°C	T6	T94°C	T5	T96°C	T4	T99°C	T4	T103°C	T4	T106°C	T4	T109°C	T4
LifEx-M...12120	T96°C	T5	T96°C	T4	T98°C	T4	T101°C	T4	T105°C	T4	T108°C	T4	T111°C	T4
LifEx-M...1590	T94°C	T6	T94°C	T5	T96°C	T4	T99°C	T4	T103°C	T4	T106°C	T4	T109°C	T4

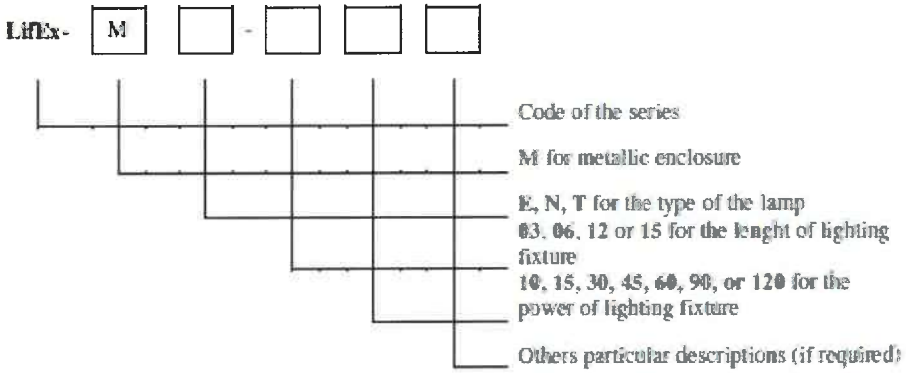
Table 4: Temperature Class (EPL Gb) and Maximum Surface Temperature (EPL Db) for LifEx types with glass/polycarbonate lens and without polycarbonate diffuser

	Maximum Surface Temperature (EPL Db) Based on ambient temperature						
	40°C	45°C	47°C	50°C	54°C	57°C	60°C
LifEx-M...0310	T56°C	T56°C	T58°C	T61°C	T65°C	T68°C	T71°C
LifEx-M...0315	T56°C	T56°C	T58°C	T61°C	T65°C	T68°C	T71°C
LifEx-M...0615	T56°C	T56°C	T58°C	T61°C	T65°C	T68°C	T71°C
LifEx-M...0630	T69°C	T69°C	T71°C	T74°C	T78°C	T81°C	T84°C
LifEx-M...0645	T72°C	T72°C	T74°C	T77°C	T81°C	T84°C	T87°C
LifEx-M...0660	T77°C	T77°C	T79°C	T82°C	T86°C	T89°C	T92°C
LifEx-M...1230	T58°C	T58°C	T60°C	T63°C	T67°C	T70°C	T73°C
LifEx-M...1260	T67°C	T67°C	T69°C	T72°C	T76°C	T79°C	T82°C
LifEx-M...1290	T72°C	T72°C	T74°C	T77°C	T81°C	T84°C	T87°C
LifEx-M...12120	T75°C	T75°C	T77°C	T80°C	T84°C	T87°C	T90°C
LifEx-M...1590	T72°C	T72°C	T74°C	T77°C	T81°C	T84°C	T87°C

Table 5: (Applicable to EPL Db only) Maximum Surface Temperature for LifEx types without glass/polycarbonate lens and with polycarbonate diffuser

The equipment has been separately tested against the requirements of IEC 60529 and it meets IP66. The gaskets on the caps provide the degree of protection.

The equipment uses the following nomenclature:



Variation 1:

This variation has assed the following changes:

i. Addition of an optional new removable cover for "easy installation" (which use the new aluminium extrusion);
ii. Addition of an optional external battery box;
iii. minimum ambient temperature extended to -60°C when Ex mb heater is used;
iv. Additional optional Ex mb EBM LED driver as an alternative to EBL3040 / EBL4040 Ex db series LED drivers;
v. added 30W model for size 300mm (LifEx-M..-0330).

12 Certificate history and evaluation reports

Issue	Date	Associated report	Notes
0	06 May 2020	R13027A/00	Prime Issue
1	01 Jul 2022	R14875A/00	Introduction of Variation 1

Note: Drawings that describe the equipment or component are listed in the Annex.

13 Conditions of Manufacture

The following conditions are required of the manufacturing process for compliance with the certification.

i. Where the product incorporates certified parts or safety critical components the manufacturer shall ensure that any changes to those parts or components do not affect the compliance of the certified product that is the subject of this certificate.
ii. The LifEx series lighting fixtures are to be designed in accordance with general electrical safety standards.
iii. The routine dielectric strength test on the LifEx-ME and LifEx-MN luminaries with applied voltage shall be performed at 2U + 1000V with a minimum value of 1560V (U = maximum rated voltage of the lamp)

iv. A routine visual inspection of the encapsulated parts is required, as per Clause 9.1 of IEC 60079-18. There shall be no visible damage or deformation to the encapsulant.

v. Where the removable battery pack is used with phoenix contacts, if used with a T6 version of the equipment, the maximum ambient shall be limited to +40°C.

14 Specific Conditions of Use (Special Conditions)

The following conditions relate to safe installation and/or use of the equipment.

i. Cable entries are provided which have less than 5 threads engaged. Care must be taken to ensure the correct gaskets and washers are sued with the cable gland to maintain IP66.

ii. The equipment uses an external part that is constructed from non-metallic materials, and as such care is to be taken to prevent an electro-static charging hazard. See instruction manual for details.

iii. For versions with glass window of 4mm thickness without cover, the luminaire must be installed in a location with a low risk of mechanical danger

iv. The temperature at the entry point may reach up to 75°C. Suitably rated cable glands must be used.

Certificate Annex

Certificate Number	**CML 20ATEX3018X**
Equipment	**LifEx-ME, LifEx-MN and LifEx-MT series of linear lighting fixtures**
Manufacturer	**Cortem S.p.A.**

The following documents describe the equipment or component defined in this certificate:

Issue 0

Drawing No	Sheets	Rev	Approved date	Title
A3-7466	1 to 6	0	06 May 2020	LifEx-M Luminaires
A4-7467	1 to 6	0	06 May 2020	Technical Note

Issue 1

Drawing No.	Sheets	Rev	Approved date	Title
A3-7466	1 of 6	1	01 Jul 2022	LifEx-M Luminaires Assembly and External Dimensions
A3-7466	2 of 6	1	01 Jul 2022	LifEx-M Luminaires Detail of sealing and op is protection
A3-7466	3 of 6	1	01 Jul 2022	LifEx-M Luminaires Detail of driver and inverter for LifEx-ME version
A3-7466	4 of 6	1	01 Jul 2022	LifEx-M Luminaires Circuit diagram for LifeEx-ME version
A3-7466	5 of 6	1	01 Jul 2022	LifEx-M Luminaires Circuit diagram LifEx-MN and LifEx-MT version
A3-7466	6 of 6	1	01 Jul 2022	LifEx-M Luminaires Detail of battery pack
A3-7729	1 to 3	0	01 Jul 2022	Battery heater for -60°C /-40°C applications Assembly and External Dimensions
A4-7727	1 to 8	0	01 Jul 2022	Technical Note

ITEM	Tag	EJB-200N1-02-L1-05 : JB - NORMAL LIGHTING		Dwg	123A90-DDL-EL-DL-20118
	S/Sys	83-40 : Normal Lighting Upper Deck		Module	UD
TASK	code	C10001626	Location: Onshore Activities	User	Rosetti Marino Quality Control
FORM	Process	MC	Activity: CCK / Discipline: ATEX / Form: CJX01		Hazardous Area Equipment Detailed Inspection

Schedule Ref. #				**Area Code**					
Area Class Drawing	123A90-DDL-SAF-DL-30022			**Serial No.**		24P00297990033			
Manufacturer	TECNOR ITALSMEA			**Model**		AQ-252612P			
Cert No.	21ATEX 0090X-FIDI 21 0015X			**Equipment Ambient Temp.**		-20 C° to +40 C°			
Area Classification	hazardous	**Zone**	2	**Gas group**	IIC	**Temp class**	T1		
Equipment Protection Type	Ex eb	**EPL**	Gb	**Gas group**	IIC	**Temp class**	T6	**IP Rating**	IP66

Detailed Note:

1) Inspection shall only be performed by competent personnel

2) All fields are to be completed. Any non-applicable field shall state “NA”. Comments are required for ‘Failure’ column ONLY.

3) An Inspection Sheet should be completed for EACH individual item of Equipment.

	General Equipment	Detailed	OK/NA/PL	Comments
1	Equipment is appropriate to the EPL / Zone requirements of the area	x	OK	
2	Equipment group is correct	x	OK	
3	Equipment temperature class is correct	x	OK	
4	Degree of IP protection of equipment is appropriate for the level of protection	x	OK	
5	Equipment circuit identification is correct	x	OK	
6	Equipment circuit identification is available	x	OK	
7	Enclosure glass parts and glass-to-metal sealing gaskets and / or compounds are satisfactory	x	NA	
8	There is no damage or unauthorized modifications	x	OK	
9	There is no evidence of unauthorized modifications	x	OK	
10	Bolts, cable entry devices (direct and indirect) & blanking elements are of the correct type, are complete & tight		OK	
	Physical check	x	OK	
11	Threaded covers on enclosures are of the correct type, are tight and secured		NA	
	Physical check	x	NA	
12	Joint surfaces are clean and undamaged and gaskets, if any, are satisfactory and positioned correctly	x	OK	
13	Condition of enclosure gaskets is satisfactory	x	OK	
14	There is no evidence or ingress of water or dust in the enclosure in accordance with the IP rating	x	OK	
15	Electrical connections are tight	x	OK	
16	Bridging links do not reduce creepage / clearance and are allowed	x	NA	
17	Unused terminals are tightened	x	OK	
18	Encapsulated components are undamaged	x	NA	
19	Flameproof components are undamaged	x	NA	
20	Fluorescent lamps are not indicating EOL effects (only for Ex “e” – Ex “n” – Ex “t”)	x	NA	
21	HID lamps are not indicating EOL effects	x	NA	
22	Lamp type, rating, pin configuration and position are correct	x	NA	
23	Breathing and drainage devices are satisfactory	x	OK	
24	Type of cable is appropriate	x	OK	
25	There is no obvious damage to the cables	x	OK	
26	Cable glands are the correct type and installed correctly	x	OK	
27	Sealing of trunking, ducts, pipes and or conduits is satisfactory	x	NA	
28	Stopping boxes and cable boxes are corrected filled	x	PL	

ITEM	Tag	EJB-200N1-02-L1-05	: JB - NORMAL LIGHTING			Dwg	123A90-DDL-EL-DL-20118
	S/Sys	83-40	: Normal Lighting Upper Deck			Module	UD
TASK	code	C10001626		Location	Onshore Activities	User	Rosetti Marino Quality Control
FORM	Process	MC	Activity CCK	Discipline	ATEX	Form	CJX01 Hazardous Area Equipment Detailed Inspection

29	Integrity of conduit system and interface with mixed system maintained	x	NA	
30	Earthing connections, including any supplementary earthing bonding connections are satisfactory (for example connections are tight and conductors are of sufficient cross-section		OK	
	Physical check	x	OK	
31	Automated electric protective devices operate within permitted limits	x	NA	
32	Special conditions (if applicable) have been complied with.	x	NA	
33	All cable cores are uniquely labeled	x	OK	
34	Cable cores not in use are correctly terminated	x	OK	
35	Equipment is adequately protected against corrosion, weather, vibration and other adverse factors	x	OK	
36	No undue accumulation of dust and dirt	x	OK	
37	All equipment housings are clean and dry	x	OK	
38	All moving parts are free and have no mechanical damage	x	OK	
	Applicable for Installation of Heating Systems			
39	Temperature sensors function according to manufacturer's documents (only applicable for Ex-d e Ex-e)	x	NA	
40	Safety cut off devices function according to manufacturer's documents (only applicable for Ex-d e Ex-e)	x	NA	
41	The setting of the safety cut off is sealed (only applicable for Ex-d e Ex-e)	x	NA	
42	Reset of a heating system safety cut off possible with tool only(only applicable for Ex-d e Ex-e)	x	NA	
43	Auto-reset is not possible (only applicable for Ex-d e Ex-e)	x	NA	
44	Reset of a safety cut off under fault conditions is prevented (only applicable for Ex-d e Ex-e)	x	NA	
45	Safety cut off independent from control system (only applicable for Ex-d e Ex-e)	x	NA	
46	Level switch is installed and correctly set, if required (only applicable for Ex-d e Ex-e)	x	NA	
47	Flow switch is installed and correctly set, if required (only applicable for Ex-d e Ex-e)	x	NA	
	Extra Ex d checks			
48	Obstructions adjacent to flame proof flanged joints are in accordance with IEC 60079-14	x	NA	
49	Ex d conduits seals are fitted to all conduits and satisfactorily sealed	x	NA	
50	Cable glands are of the correct type and installed correctly	x	NA	
51	Adaptors, reducers, stop ends, etc. are all certified Ex d	x	NA	
52	Flame path are clean and undamaged	x	NA	
53	Flange gap dimensions are within tolerances	x	NA	
54	Motor fans have sufficient clearance to the enclosure and/or covers, cooling systems are undamaged, motor foundations have no indentations or cracks	x	NA	
55	The ventilation airflow is not impeded	x	NA	
56	Insulation resistance (IR) of the motor windings is satisfactory	x	NA	
57	Fault loop impedance (TN systems) or earthing resistance (IT systems) is satisfactory	x	NA	
58	Variable voltage/frequency installation complies with documentation	x	NA	
	Extra Ex e checks			
59	All Equipment is Ex e certified (including components within enclosure)	x	OK	
60	Power conductors are not bunched together causing possible hot spots	x	PL	
61	Motor fans have sufficient clearance to the enclosure and/or covers, cooling systems are undamaged, motor foundations have no indentations or cracks	x	NA	
62	Insulation resistance (IR) of the motor windings is satisfactory	x	NA	
63	Fault loop impedance (TN systems) or earthing resistance (IT systems) is satisfactory	x	NA	
64	The ventilation airflow is not impeded	x	NA	
65	Motor protection devices operate within the permitted tE or tA time limits.	x	NA	
66	Variable voltage/frequency installation complies with documentation	x	NA	

ITEM	Tag	EJB-200N1-02-L1-05	: JB - NORMAL LIGHTING			Dwg	123A90-DDL-EL-DL-20118
	S/Sys	83-40	: Normal Lighting Upper Deck			Module	UD
TASK	code	C10001626		Location	Onshore Activities	User	Rosetti Marino Quality Control
FORM	Process	MC	Activity CCK	Discipline	ATEX	Form	CJX01
							Hazardous Area Equipment Detailed Inspection

Extra Ex n (nR, nL) checks				
67	All Terminals are Ex n certified (if required on certificate)	x	NA	
68	Hermetically sealed and enclosed break devices are undamaged	x	NA	
69	Restricted breathing properties satisfactory (conduct vacuum test)	x	NA	
70	Test port, if fitted, is functional (type “nR” only)	x	NA	
71	Breathing operation is satisfactory (type “nR” only)	x	NA	
72	Motor fans have sufficient clearance to the enclosure and/or covers, cooling systems are	x	NA	
73	The ventilation airflow is not impeded	x	NA	
74	Insulation resistance (IR) of the motor windings is satisfactory	x	NA	
75	Motor protection devices operate within the permitted tE or tA time limits.	x	NA	
76	Variable voltage/frequency installation complies with documentation	x	NA	
Extra Ex p checks				
77	Pressurization gas is correct type	x	NA	
78	Actual pressure is within maximum and minimum settings for equipment	x	NA	
79	Timers set as per certification documentation	x	NA	
80	Alarms and trip functions operate correctly as per certification documentation	x	NA	
81	Fault loop impedance (TN systems) or earthing resistance (IT systems) is satisfactory	x	NA	
82	Automatic electrical protective devices operate within permitted limits	x	NA	
83	Automatic electrical protective devices are set correctly	x	NA	
84	Protective gas inlet temperature is below maximum specified	x	NA	
85	Ducts, pipes and enclosures are in good condition	x	NA	
86	Protective gas is substantially free from contaminants	x	NA	
87	Protective gas pressure and/or flow is adequate	x	NA	
88	Pressure and/or flow indicators, alarms and interlocks function correctly	x	NA	
89	Conditions of spark and particle barriers of ducts for exhausting the gas in hazardous area are satisfactory	x	NA	
90	Specific conditions of use (if applicable) are complied with		NA	
Extra Ex i (Intrinsically Safe – IS) checks				
91	Equipment has adequate circuit identification for ‘IS’ Installation	x	NA	
92	Cables are installed in accordance with the documentation	x	NA	
93	Segregation is maintained between IS and non-IS Circuits	x	NA	
94	Cable screens are isolated at one end (field side)	x	NA	
95	Cable screens are earthed in accordance with the documentation	x	NA	
96	Safety barrier units, relays and other energy limiting devices are of the approved type, installed in	x	NA	
97	Equipment installed is the one specified in the documentation	x	NA	
98	Ambient temperature range of the apparatus is correct for the installation	x	NA	
99	Service temperature range of the apparatus is correct for the installation	x	NA	
100	Installation is clearly labelled	x	NA	
101	Printed circuit boards are clean and undamaged	x	NA	
102	The maximum voltage Um of the associated apparatus is not exceeded	x	NA	
103	Point-to-point connections are all correct	x	NA	
104	Earth continuity is satisfactory (e.g. connections are tight, conductors are of sufficient cross-section)	x	NA	
105	Earth connections maintain the integrity of the type of protection	x	NA	
106	Intrinsically safe circuit earthing is satisfactory	x	NA	
107	Insulation resistance is satisfactory	x	NA	
108	Short-circuit protection of the power supply is in accordance with the documentation	x	NA	

	BARRIER:	**Manufacturer:**	N A	**Model:**	N A		
		Authority:	N A	**Cert No:**	N A	**Type:**	N A

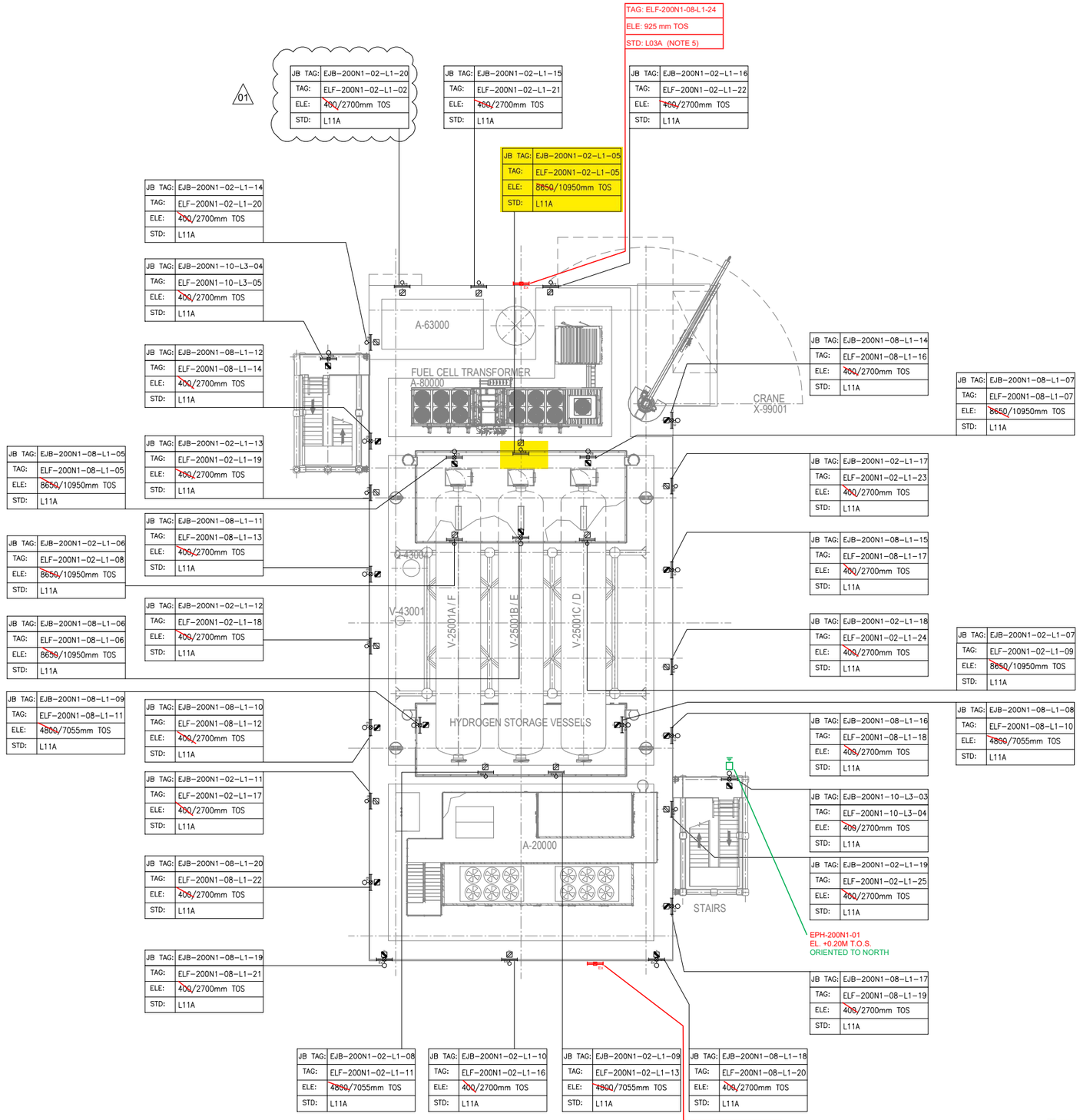
Remarks: Initial inspection should be detailed and carried out before equipment is brought into service as per IEC 60079-17

Please mark only one box as appropriate	
●	**Passed - Complete**
	Failed

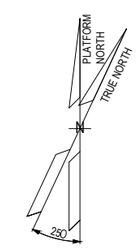
Page 3/3	Performed by	☐ WITNESS ☐ REVIEW	☐ WITNESS ☐ REVIEW
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Name	Michele Tartaglia	Alessio Polo	
Date	2025-01-08	2025-01-18	
Signature	PROVERLIS Digitaly signed by Michele Tartaglia 2025-01-08T10:21:13.526Z	PROVERLIS Digitaly signed by Alessio Polo 2025-01-18T13:11:08.104Z	

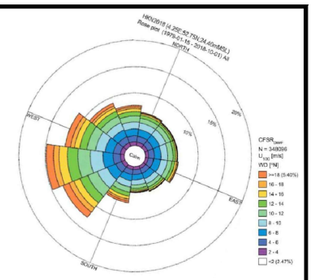
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REV. 01



PLAN ON UPPER DECK
EL+30.310 T.O.S.





NOTES

1. ALL DIMENSIONS AND ELEVATIONS ARE GIVEN IN mm UNLESS OTHERWISE NOTED.
2. ELEVATIONS REFER TO T.O.S.
3. ELEVATION OF THE LAMPS ARE REFFERED TO THE BOTTOM OF THE LAMP.
4. FOR THE ELEVATION OF JB, REFER TO THE TYPICAL INSTALLATION.
5. FOR ELF-200N1-08-L1-24 AND ELF-200N1-08-L1-25 CONSTRUCTION DETAILS REFER TO DOC. 123A90-DDL-ST-DD-90076

LEGEND

- EMERGENCY LIGHTING JB
- 60W LED EMERGENCY LUMINARIES
- 60W LED EMERGENCY LUMINARIES FIXTURE POLE MOUNTED
- NORMAL LIGHTING JB
- 45W LED NORMAL LUMINARIES
- 45W LED NORMAL LUMINARIES FIXTURE POLE MOUNTED
- WELDING SOCKET WITH INTEGRATED JB
- SMALL POWER SOCKET WITH INTEGRATED JB
- TWILIGHT RELAY SENSOR

JB TAG:	JB-TAG
TAG:	TAG
ELE:	ELEVATION
STD:	STANDARD

REFERENCE DOCUMENTS

123A90-DDL-PP-DL-70070	PLOT PLAN - LOWER & UPPER DECK
123A90-DDL-EL-DL-20100	ELECTRICAL EQUIPMENT LAYOUT - TOP DECK
123A90-DDL-EL-DD-20091	ELECTRICAL TYPICAL INSTALLATION DETAILS - LIGHTING SYSTEM
123A90-DDL-EL-DD-20092	ELECTRICAL TYPICAL INSTALLATION DETAILS - POWER SYSTEM & CABLE INSTALLATION
123A90-DDL-EL-RE-20153	LIGHTING CALCULATION STUDY REPORT
123A90-DDL-ST-DD-90076	IDENTIFICATION PANELS ASSEMBLY AND DETAILS

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	02/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	28/05/24	ASR	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DL-20118**

REV.:	DATE:	SIGNATURE:
1_G	09/01/25	V.Ramponi

ROSETTI MARINO SpA

CROSSWIND | ROSETTI MARINO

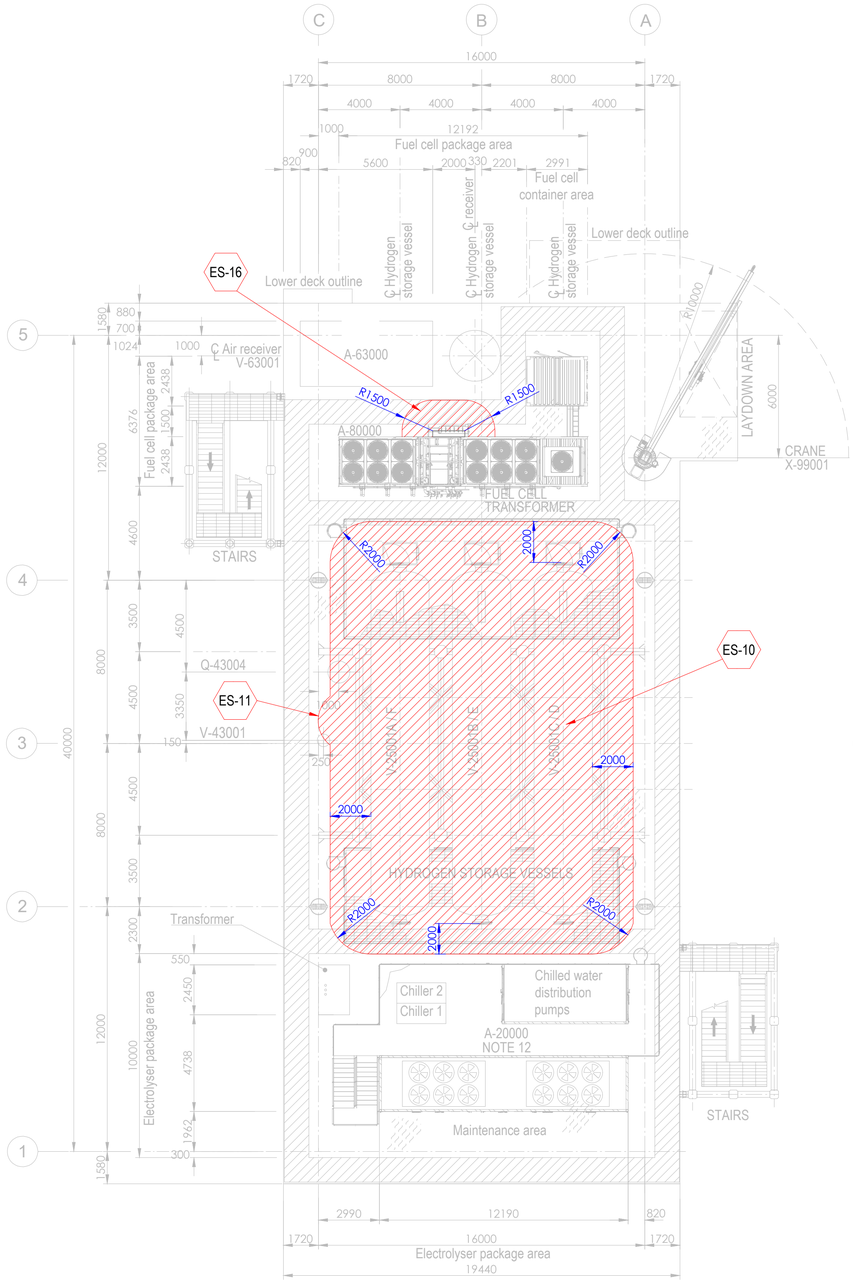
TITLE : BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET LAYOUT – TOP DECK

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK		SCALE 1:150	
DRAWN ASR	CHECKED FMA/AMA	APPROVED FPA/DLO	DATE 01/08/24
A1	DRAWING NO. 123A90-DDL-EL-DL-20118	SHEET 1of2	REV. 01

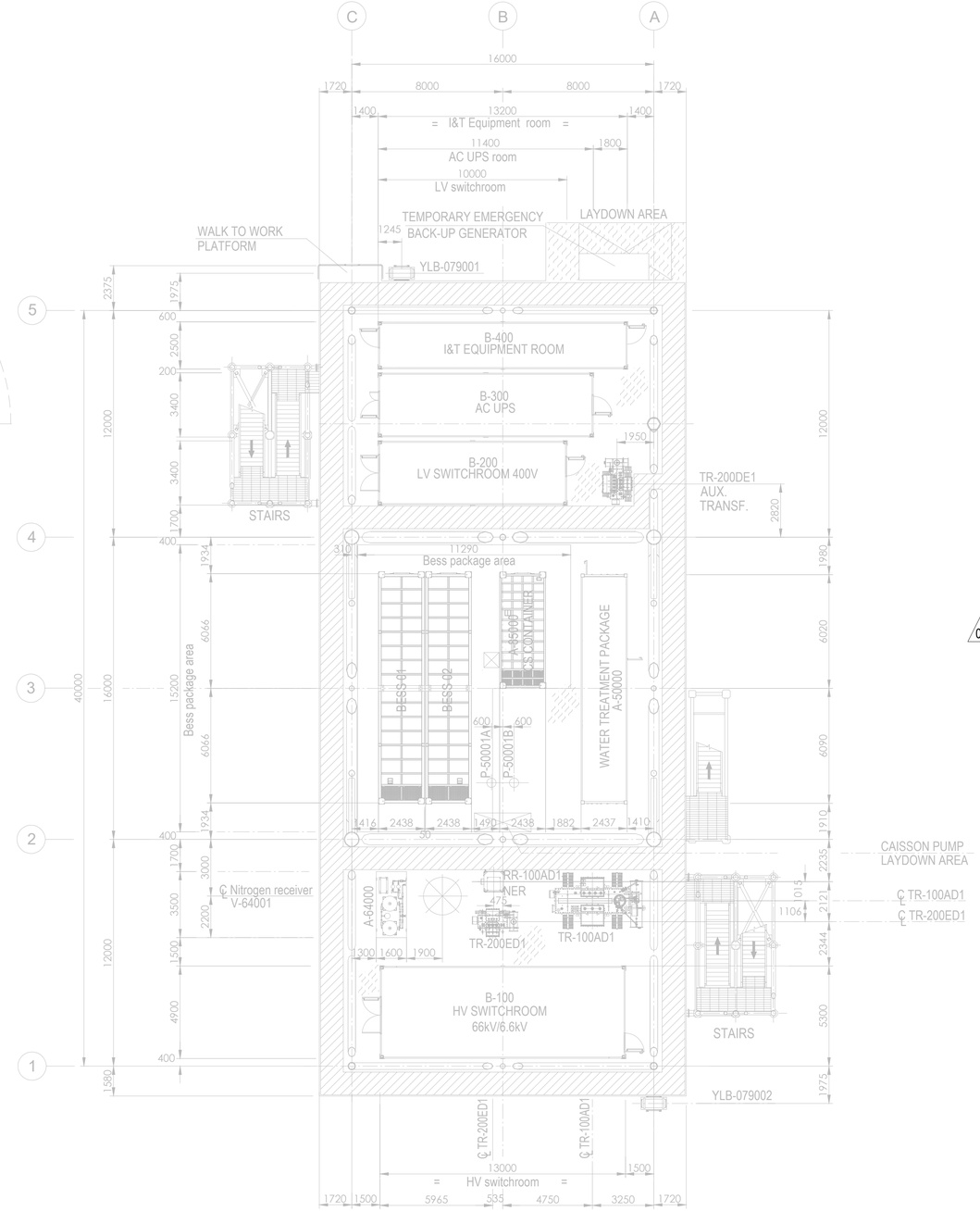
File Name : 123A90-DDL-EL-DL-20118

DRAWING NO. 123A90-DDL-SAF-DL-30022

REV. 02



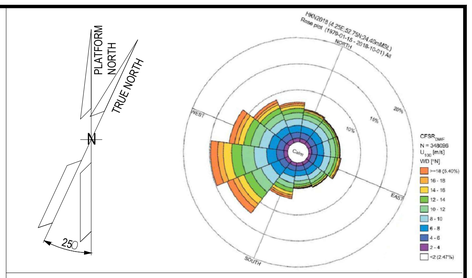
PLAN ON UPPER DECK
EL+30.310 T.O.S.



PLAN ON LOWER DECK
EL+23.310 T.O.S.

Tag No.	Equipment Tag	Description	Material	Ventilation Type
01	P-50001 A/B	SEA WATER LIFT PUMPS	SEA WATER	NATURAL (OPEN AREA)
02	Q-43004	HYDROGEN VENT	HYDROGEN	NATURAL (OPEN AREA)
03	V-43001	HYDROGEN VENT KO DRUM	HYDROGEN	NATURAL (OPEN AREA)
04	V-25001 (A/B/C/D/E/F)	HYDROGEN STORAGE VESSELS	HYDROGEN	NATURAL (OPEN AREA)
05	V-63001	AIR RECEIVER	INSTRUMENT AIR	NATURAL (OPEN AREA)
06	A-20000	ELECTROLYSER PACKAGE		
07	A-63000	INSTRUMENT AIR PACKAGE		
08	A-80000	FUEL CELL PACKAGE		
09	A-85000	BESS PACKAGE		
10	YLB-079001/2	LIFE RAFTS		
11	A-50000	WATER TREATMENT PACKAGE		

Tag No.	Equipment Tag	Description	Material	Ventilation Type
12	A-64000	NITROGEN SYSTEM		
13	B-100	HV SWITCHROOM 66kV/6.6kV		
14	B-200	LV SWITCHROOM 400V		
15	B-300	AC UPS EQUIPMENT ROOM		
16	B-400	I&T EQUIPMENT ROOM		
17	TR-100AD1	TRANSFORMER MAIN 66kV/6.6kV		
18	RR-100AD1-NER	NEUTRAL EARTHING RESISTOR		
19	TR-200DE1	TRANSFORMER AUX. 6.6kV/0.4kV		
20	TR-200ED1	SOLAR TRANSFORMER PV FARM EQUIPMENT		
21	X-99001	CRANE		
22	V-64001	NITROGEN RECEIVER		



NOTES

1. ALL DIMENSIONS IN mm U.N.O.
2. ALL ELEVATIONS IN METERS.
3. PLATFORM NORTH DIRECTION IS N 25°W.
4. VENT TOP SHALL BE REACHEABLE FOR MAINTENANCE PURPOSE.
5. THE BESS IS CONSIDERED SAFE AREA EXCEPT EXTRACTORES FROM BATTERIES , CURRENTLY NOT SHOWN IN DRAWINGS, SINCE INFORMATION FROM VENDOR IS NOT YET AVAILABLE.[ES17].
6. THE LOCATION OF EMISSION SOURCES ON THE LAYOUT ARE ONLY INDICATIVE. EMISSION SOURCES CONSIDERED ARE PRESENT WITHIN THE EXTENSION OF HAZARDOUS CLASSIFIED AREAS SHOWN ON THE LAYOUT. THIS IS BECAUSE VALVES AND FLANGES,WHICH ARE CONSIDERED POTENTIAL SOURCES OF RELEASE POINTS FOR FLAMMABLE GAS ARE NOT SHOWN ON CURRENT LAYOUT PROVIDED. THE SAME APPLIES TO THE EMISSION SOURCES FOR CPI'S ITEM.
7. IDENTIFIED EMISSION SOURCES DETAIL.

02
8. FOR DETAILS RELATED TO ELECTROLYSER PACKAGE INTERNAL ENCLOSURES REFER TO DRAWING 224J10-DDL-PP-DA-00001 REV 0.
9. FOR DETAILS RELATED TO FUELL CELL PACKAGE INTERNAL ENCLOSURES REFER TO DRAWING K559-2254-CWIWP4202202-B01-001 REV 009".
10. THE N.6 HYDROGEN STORAGE VESSELS ARE NOT CLASSIFIED INTERNALLY SINCE THEY ARE DESIGNED TO CONTAIN HYDROGEN OR NITROGEN FOR THE ENTIRE DURATION OF THE 2 YEARS OF OPERATION.

EMISSION SOURCE No.	IDENTIFIED AREAS
ES10	HYDROGEN STORAGE VESSLES
ES11	HYDROGEN VENT KO DRUM
ES16	FUEL CELL

LEGEND

ZONE 0 — ZONE 1

ZONE 2 — ES EMISSION SOURCES

123A90-DDL-PP-DS-70071	PLOT PLAN - BELOW LOWER DECK
123A90-DDL-PP-DS-70072	PLOT PLAN - ELEVATION LOOKING NORTH & EAST

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	15/01/25	MMA	CCA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	27/08/24	MMA	CCA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	08/02/24	MMA	CCA	DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND

ROSETTI MARINO

TITLE :
BASE LOAD POWER HUB (BLPH)
HAZARDOUS AREA CLASSIFICATION
LOWER & UPPER DECK

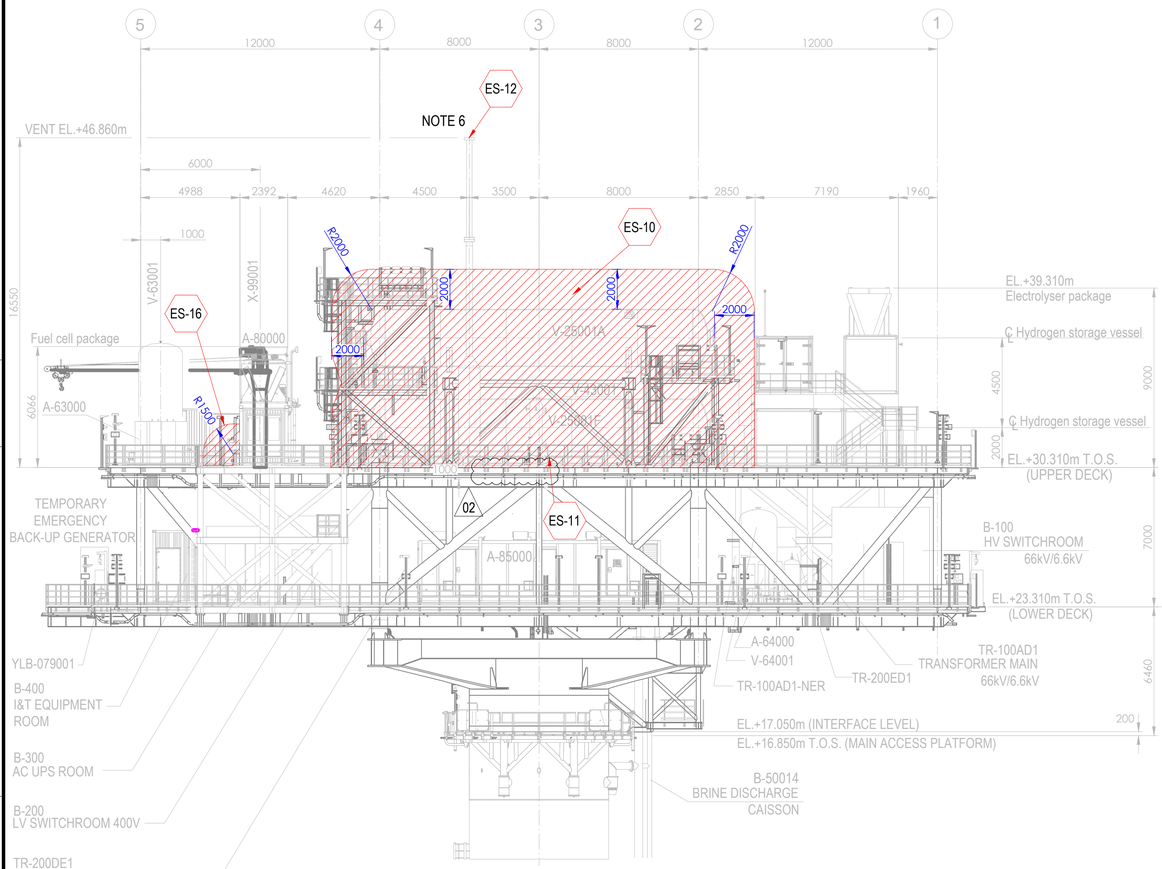
CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK			SCALE 1:150
DRAWN M. MAGNI	CHECKED C. CARACCIOLO	APPROVED D. LO STERZO	DATE 03/07/24

	DRAWING NO.	SHEET	REV.
A1	123A90-DDL-SAF-DL-30022	001	02

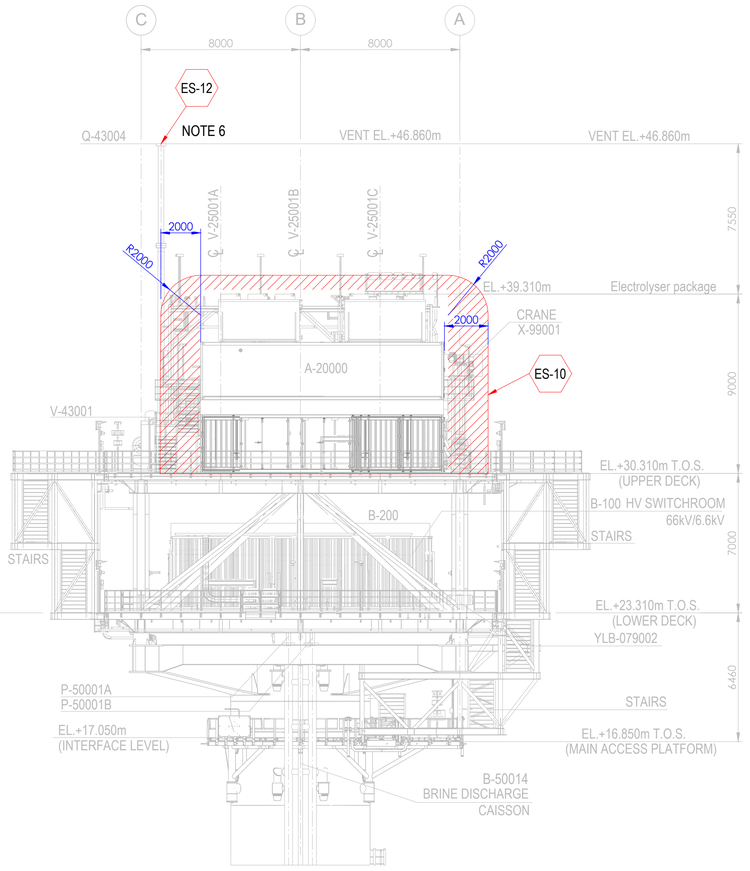
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DRAWING NO. 123A90-DDL-SAF-DL-30024

REV. 02

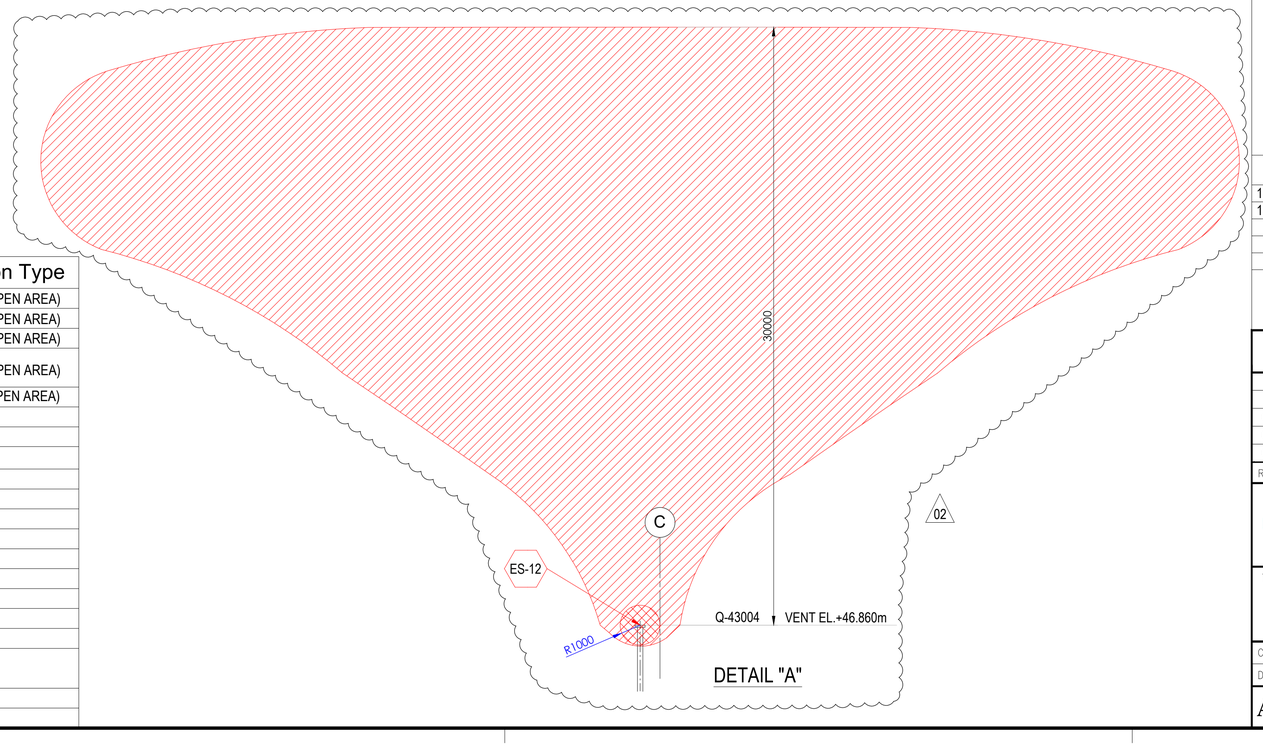


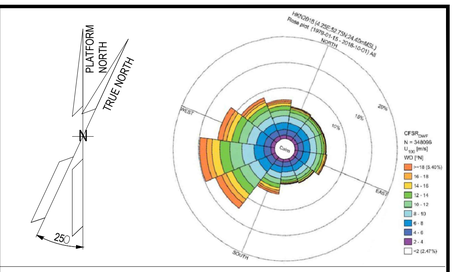
ELEVATION LOOKING EAST



ELEVATION LOOKING NORTH

Tag No.	Equipment Tag	Description	Material	Ventilation Type
01	P-50001 A/B	SEA WATER LIFT PUMPS	SEA WATER	NATURAL (OPEN AREA)
02	Q-43004	HYDROGEN VENT	HYDROGEN	NATURAL (OPEN AREA)
03	V-43001	HYDROGEN VENT KO DRUM	HYDROGEN	NATURAL (OPEN AREA)
04	V-25001 (A/B/C/D/E/F)	HYDROGEN STORAGE VESSELS	HYDROGEN	NATURAL (OPEN AREA)
05	V-63001	INSTRUMENT AIR RECEIVER	INSTRUMENT AIR	NATURAL (OPEN AREA)
06	A-20000	ELECTROLYSER PACKAGE		
07	A-63000	INSTRUMENT AIR PACKAGE		
08	A-80000	FUEL CELL PACKAGE		
09	A-85000	BESS PACKAGE		
10	YLB-079001/2	LIFE RAFTS		
11	B-100	HV SWITCHROOM 66kV/6.6kV		
12	B-200	LV SWITCHROOM 400V		
13	B-300	AC UPS EQUIPMENT ROOM		
14	B-400	I&T EQUIPMENT ROOM		
15	TR-100AD1	TRANSFORMER MAIN 66kV/6.6kV		
16	TR-100AD1-NER	NEUTRAL EARTHING RESISTOR		
17	TR-200DE1	TRANSFORMER AUX. 6.6kV/0.4kV		
18	TR-200ED1	SOLAR TRANSFORMER PV FARM EQUIPMENT		
19	X-99001	CRANE		
20	V-64001	NITROGEN RECEIVER		





NOTES

1. ALL DIMENSIONS IN mm U.N.O
2. ALL ELEVATIONS IN METERS.
3. PLATFORM NORTH DIRECTION IS N 25°W.
4. VENT TOP SHALL BE REACHEABLE FOR MAINTENANCE PURPOSE.
5. THE BESS IS CONSIDERED SAFE AREA EXCEPT EXTRACTORES FROM BATTERIES , CURRENTLY NOT SHOWN IN DRAWINGS, SINCE INFORMATION FROM VENDOR IS NOT YET AVAILABLE.[ES17]
6. FOR ES12 PLUME, PLEASE REFER TO THE DETAIL "A" BELOW. (02)
7. THE LOCATION OF EMISSION SOURCES ON THE LAYOUT ARE ONLY INDICATIVE. EMISSION SOURCES CONSIDERED ARE PRESENT WITHIN THE EXTENSION OF HAZARDOUS CLASSIFIED AREAS SHOWN ON THE LAYOUT. THIS IS BECAUSE VALVES AND FLANGES,WHICH ARE CONSIDERED POTENTIAL SOURCES OF RELEASE POINTS FOR FLAMMABLE GAS ARE NOT SHOWN ON CURRENT LAYOUT PROVIDED. THE SAME APPLIES TO THE EMISSION SOURCES FOR CPI'S ITEM.
8. IDENTIFIED EMISSION SOURCES DETAIL

EMISSION SOURCE No.	IDENTIFIED AREAS
ES10	HYDROGEN STORAGE VESSLES
ES11	HYDROGEN VENT KO DRUM
ES12	HYDROGEN VENT
ES16	FUEL CELL

LEGEND

ZONE 0 — ZONE 1

ZONE 2 — ES EMISSION SOURCES

REFERENCE DOCUMENTS

123A90-DDL-PP-DS-70070	PLOT PLAN - LOWER & UPPER DECK
123A90-DDL-PP-DS-70071	PLOT PLAN - BELOW LOWER DECK

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	15/01/24	MMA	CCA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	27/08/24	MMA	CCA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	08/02/24	MMA	CCA	DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND

ROSETTI MARINO

TITLE :
BASE LOAD POWER HUB (BLPH)
HAZARDOUS AREA CLASSIFICATION
ELEVATION LOOKING NORTH & EAST

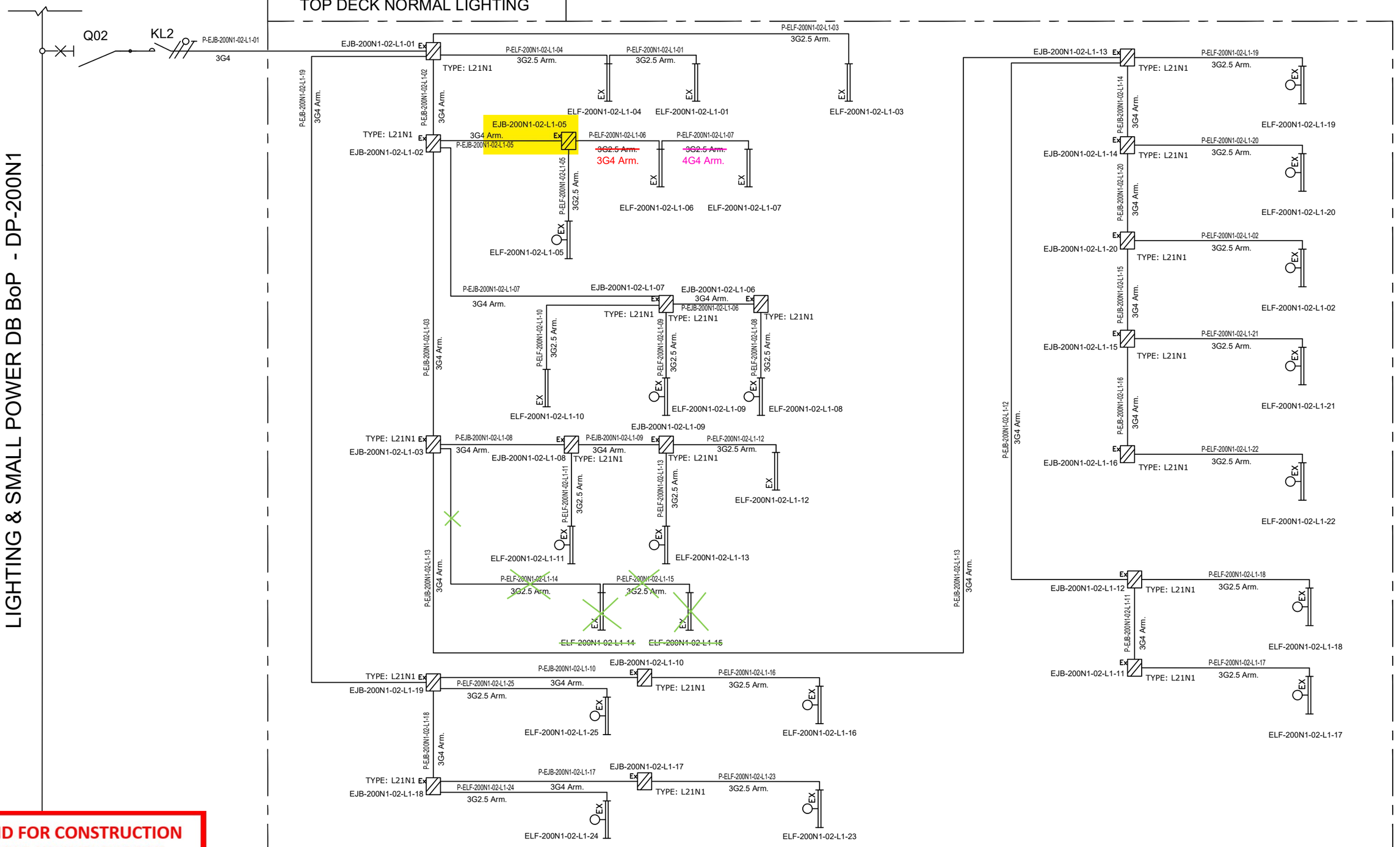
CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK			SCALE 1:150
DRAWN M. MAGNI	CHECKED C. CARACCIOLO	APPROVED D. LO STERZO	DATE 03/07/24

A1 | DRAWING NO. 123A90-DDL-SAF-DL-30024 | SHEET 001 | REV. 02

File Name : 123A90-DDL-SAF-DL-30024 Rev.02

LIGHTING & SMALL POWER DB BoP - DP-200N1

TOP DECK NORMAL LIGHTING



VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DG-20125**

REV.:	DATE:	SIGNATURE:
2_G	16/01/25	G.Randi

ROSETTI MARINO SpA

CROSSWIND

ROSETTI MARINO

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	08/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	01/07/24	ASR	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

TITLE : BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET CIRCUIT DIAGRAM
TOP DECK–NORMAL LIGHTING

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE : NTS

A3

DRAWING NO. 123A90–DDL–EL–DG–20125

SHEET 010

REV. 01

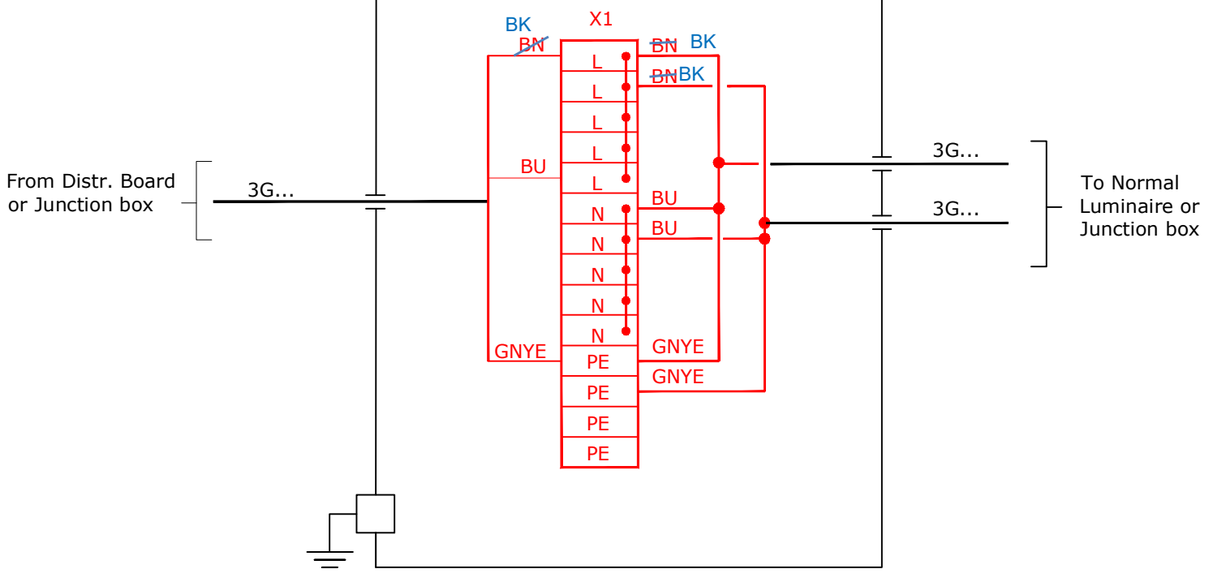
F.to UNI A3: 420mmx297mm

File Name : 123A90–DDL–EL–DG–20125

TYPE : L21N1 & L21N2

ITEM: NORMAL LIGHTING JUNCTION BOX

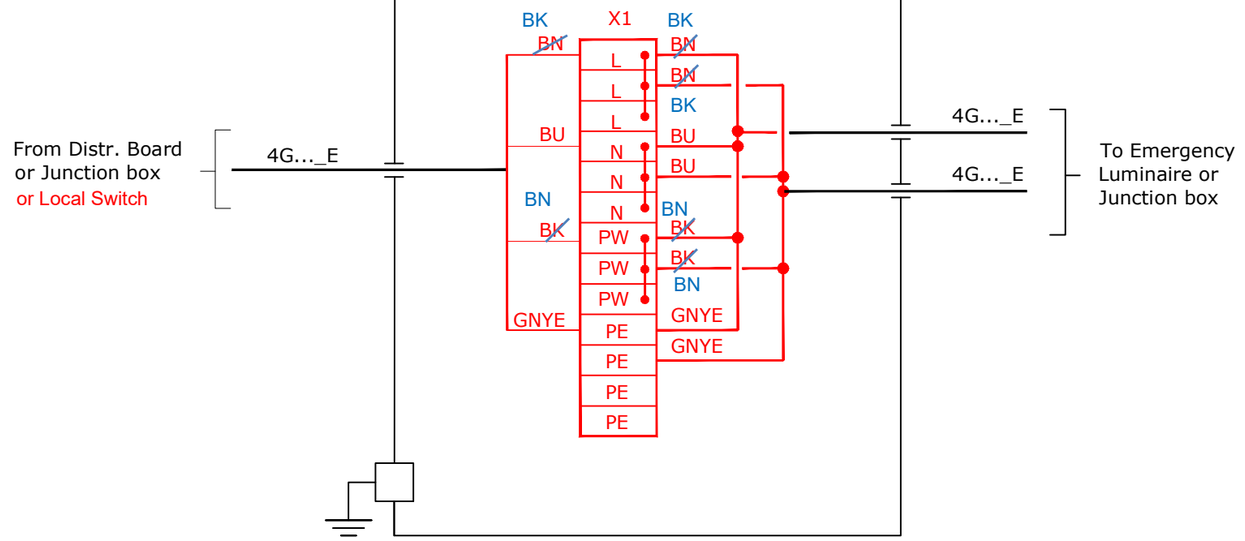
TAG : Typical



TYPE : L21E1 & L21E2

ITEM: EMERGENCY LIGHTING JUNCTION BOX

TAG : Typical



VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DG-20125**

REV.:	DATE:	SIGNATURE:
2_G	16/01/25	G.Randi

ROSETTI MARINO SpA

CROSSWIND

ROSETTI MARINO

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	08/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)

TITLE : BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET CIRCUIT DIAGRAM
TYPICAL JB INTERCONNECTING DIAGRAM

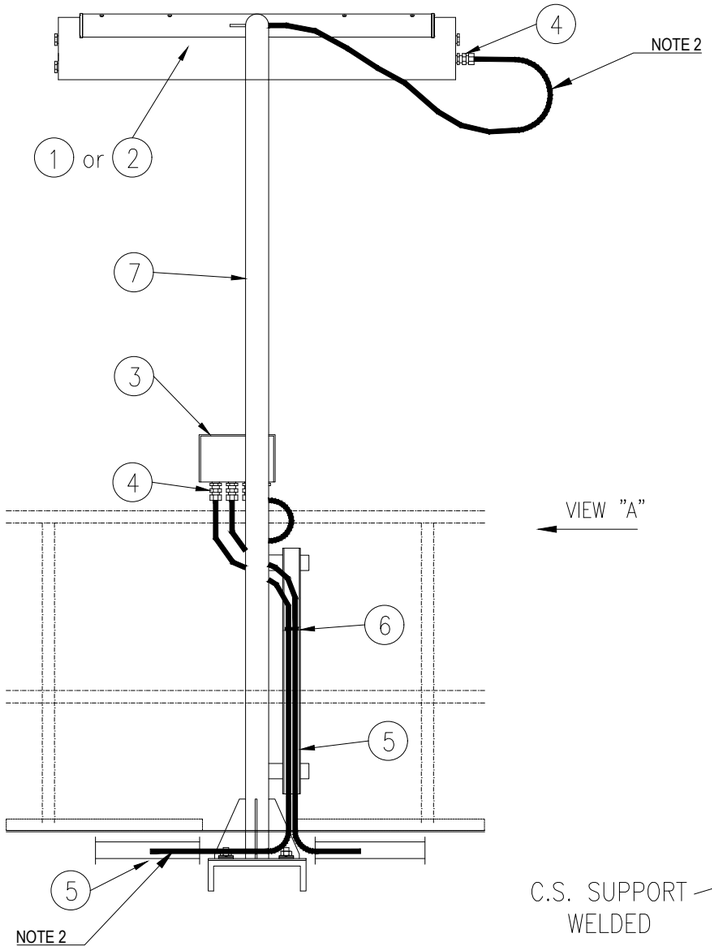
CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK | SCALE : NTS

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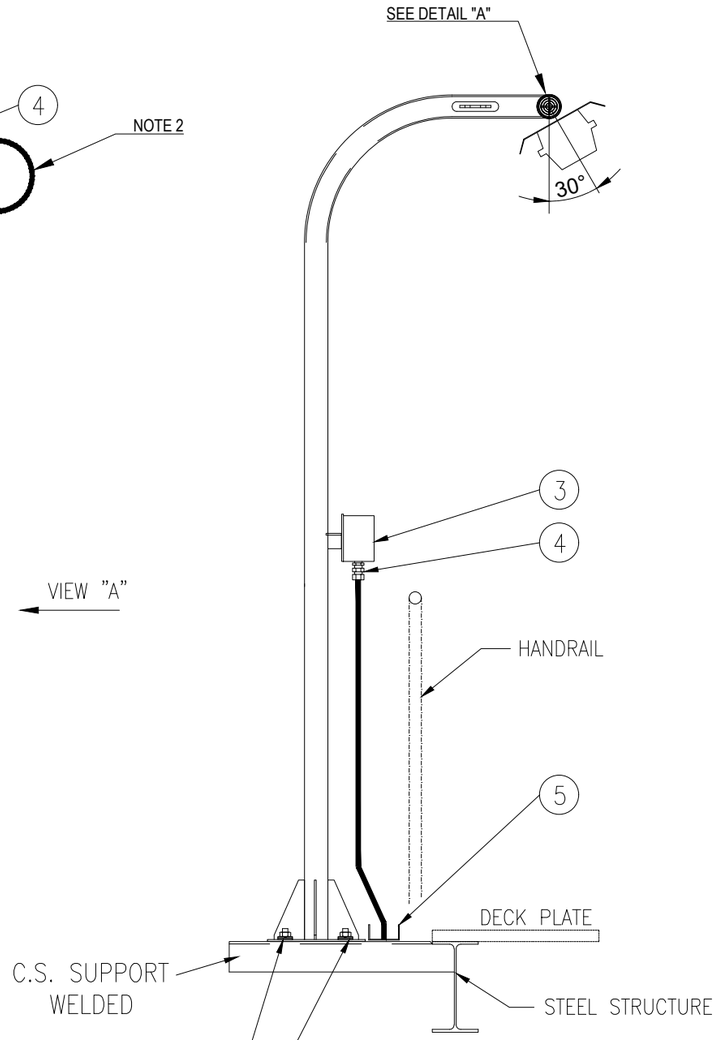
F.to UNI A3: 420mmx297mm

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L11A

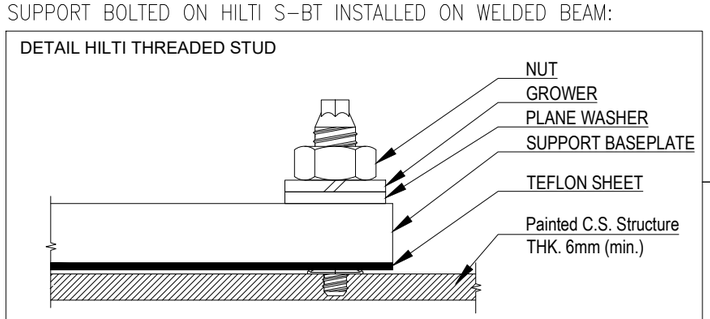


VIEW "A"

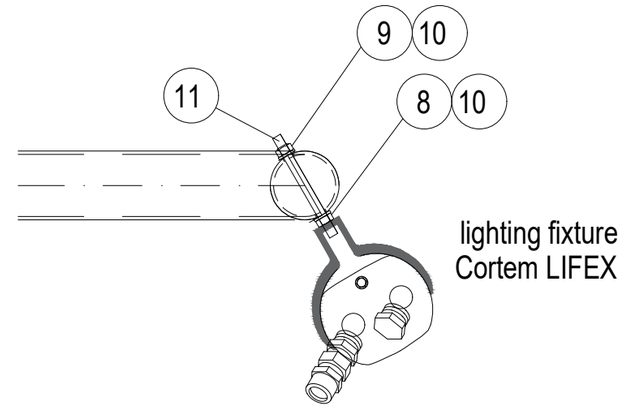


VIEW "A"

SUPPORT BOLTED ON HILTI S-BT INSTALLED ON WELDED BEAM:



POS.	DESCRIPTION	MATERIAL	SIZE	Q.TY	NOTE
1	42W LED LUMINARIES	ALUMINIUM ALLOY		1	
2	45W LED LUMINARIES C/W BATTERY	ALUMINIUM ALLOY		1	
3	JUNCTION BOX (Ex)	GRP		1	NOTE 1
4	CABLE GLAND ~~C/W EARTH TAG~~, WASHERS, LOCKNUT AND WEATHERPROOF WASHERS	BRASS NICKEL PLATED		AS REQ.	
5	CABLE TRAY	AISI 316L			
6	STAINLESS STEEL NYLON COATED CABLE TIE	SS NYLON COATED			
7	POLE SUPPORT FOR LAMP	AISI 316L	2"		
8	NUT	AISI 316L	M8		
9	SELF.LOCKING NUT	AISI 316L	M8		
10	LARGE PLANE WASHER (24mm DIAM.)	AISI 316L	M8		
11	THREADED ROD M8x100	AISI 316L	M8		



DETAIL "A"

NOTES:

1) FOR LAMPS IN HAZARDOUS AREA, USE ARMOURED CABLE, DOUBLE SEAL CABLE GLAND AND EX JUNCTION BOX.

2) ALWAYS ENSURE CABLE LENGTH IS >3m

VALID FOR CONSTRUCTION

REV.:	DATE:	SIGNATURE:
2_B	12/12/24	C.Pilato

ROSETTI MARINO SpA

02

CROSSWIND

ROSETTI MARINO

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	30/09/24	GRA	AMA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	04/07/24	NLK	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	21/11/23	SPS	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL TYPICAL INSTALLATION DETAILS-LIGHTING SYSTEM
LIGHTING FIXTURE MOUNTED ON POLE

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK | SCALE : NTS

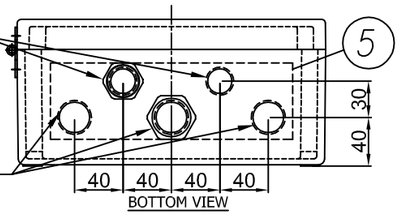
A3 | DRAWING NO. 123A90-DDL-EL-DD-20091 | SHEET 014 | REV. 02

F.to UNI A3: 420mmx297mm

File Name : 123A90-DDL-EL-DD-20091 REV.02.DWG

10 4 N°2 PASSING HOLES Ø20.2
C/W N°1 BNK PLUG M20 +
N°1 DUSTPROOF PVC PLUG

3 3 N°3 PASSING HOLES Ø25.2
C/W N°1 BNK PLUG M25 +
N°2 DUSTPROOF PVC PLUG



BOTTOM VIEW

8 I2400722-B015I00029809

TECHNOR ITALSMEA
A COMPANY OF MARECHAL ELECTRIC
Via Italia 33 - 20060 Cassano (MI) ITALY

CE 0080 Ex II 2G II 2D
FIDI 21ATEX 0090X
IECEx FIDI 21.0015X
Year of construction:

MADE IN ITALY

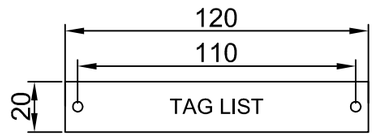
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230VAC 50Hz 20A
Max Dis. P. 6W

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Ex tb IIIC T85°C Db
IP66
T.amb. -20/+40°C
Serial Nr.

WARNINGS : DO NOT OPEN WHEN ENERGIZED

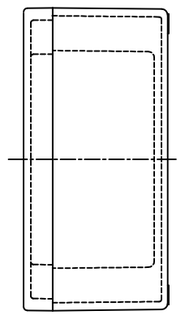
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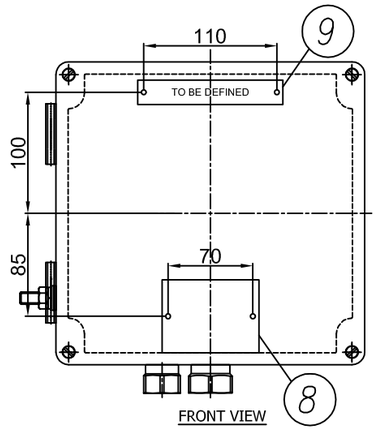
9 PLATE DETAIL



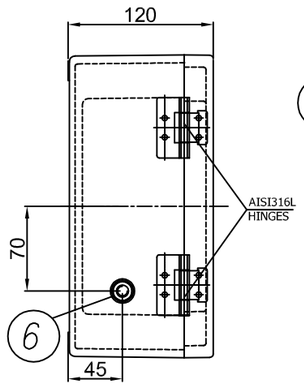
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BACKGROUND: WHITE
LETTERS: BLACK

7 Terminals numbered: NOTE 1

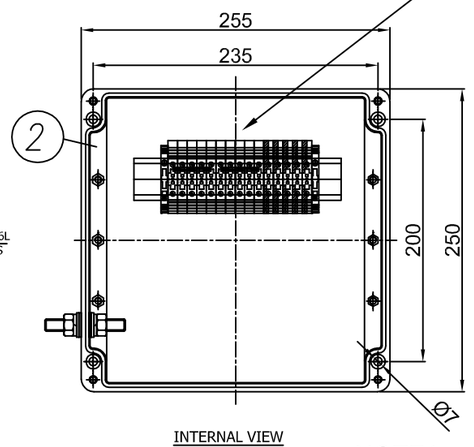

RIGHT VIEW



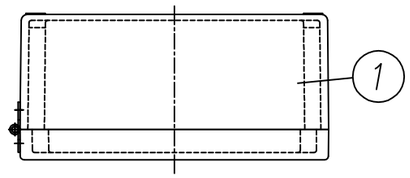
FRONT VIEW



LEFT VIEW



INTERNAL VIEW



TOP VIEW

NOTE1 :
- JB for Normal Lighting have terminals bridge: L-L-L-L-L, N-N-N-N-N, PE-PE-PE-PE-PE - JB for Emergency Lighting have terminals bridge: L-L-L, N-N-N, PW-PW-PW, PE-PE-PE-PE-PE

ITEM	DESCRIPTION	Pcs Q.TY	NOTE/MAT.	CODE	MANUFACTURER
11	DUSTPROOF PVC PLUG Ø25	2	–	.	TECHNOR ITALSMEA
10	DUSTPROOF PVC PLUG Ø20	1	–	.	TECHNOR ITALSMEA
9	LAMINATED PLASTIC TAG 120X20	1	–	.	TECHNOR ITALSMEA
8	AISI316L CERTIFICATE PLATE 80X60	1	–	.	TECHNOR ITALSMEA
7	BEIGE TERMINAL BLOCK SIZE 6 SQMM EARTH TERMINAL BLOCK SIZE 6 SQMM	10 5	WDU–6 WPE–6	.	WEIDMULLER
6	AISI316L INT/EXT EARTH BOLT M10	1	BTP–10	.	TECHNOR ITALSMEA
5	BRASS CONTINUITY PLATE THK. 0.8 MM	1	–	.	TECHNOR ITALSMEA
4	NICKEL PLATED BRASS PLUG M20	1	T20	.	TECHNOR ITALSMEA
3	NICKEL PLATED BRASS PLUG M25	1	T25	.	TECHNOR ITALSMEA
2	INTERNAL MOUNTING PLATE	1	PS–2526	.	TECHNOR ITALSMEA
1	GRP ENCLOSURE	1	AQ–252612P	.	TECHNOR ITALSMEA

-UNPAINTED (BLACK NATURAL)
Q.TY 92, ITEM 20: 2JBXXGPEE, ELEJB02

Explosion Proof
Electrical Equipment
Materiali Elettrici Antideflagranti
TECHNOR ITALSMEA
A COMPANY OF MARECHAL ELECTRIC

CROSSWIND

ROSETTI MARINO

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
05	20/12/24	FB	OB	OB	ACCEPTED FOR CONSTRUCTION (AFC)
04	26/11/24	FB	OB	OB	ACCEPTED FOR CONSTRUCTION (AFC)
03	25/10/24	FB	OB	OB	ACCEPTED FOR CONSTRUCTION (AFC)
02	12/09/24	FB	OB	OB	ACCEPTED FOR CONSTRUCTION (AFC)
01	03/09/24	FB	OB	OB	ACCEPTED FOR CONSTRUCTION (AFC)
00	30/07/24	FB	OB	OB	ISSUE FOR REVIEW (IFR)

TITLE : BASE LOAD POWER HUB (BLPH)

Junction Box for Normal & Emergency Lighting

CONTRACT NO./TITLE CW–I–WP4–2023–05/HOLLANDSE KUST NOORD WIND PARK

SCALE : NTS

A3

DRAWING NO. 1724001481–EL–DA–00003

SHEET 004

REV. 05

F.to UNI A3: 420mmx297mm

File Name : 1724001481–EL–DA–00003 Rev. 01

ENCLOSURE N°	TAG LIST	NORMAL LIGHTING	EMERGENCY LIGHTING
1	EJB-200N1-03-L2-04	X	
2	EJB-200N1-03-L2-03	X	
3	EJB-200N1-03-L2-01	X	
4	EJB-200N1-03-L2-02	X	
5	EJB-200N1-03-L2-12	X	
6	EJB-200N1-03-L2-11	X	
7	EJB-200N1-03-L2-10	X	
8	EJB-200N1-03-L2-09	X	
9	EJB-200N1-03-L2-08	X	
10	EJB-200N1-03-L2-07	X	
11	EJB-200N1-03-L2-06	X	
12	EJB-200N1-03-L2-05	X	
13	EJB-200N1-03-L2-14	X	
14	EJB-200N1-03-L2-13		X
15	EJB-200N1-09-L2-17		X
16	EJB-200N1-09-L2-01		X
17	EJB-200N1-09-L2-04		X
18	SPARE (TO BE PROVIDED BLANK)		X
19	EJB-200N1-09-L2-02		X
20	EJB-200N1-09-L2-15		X
21	EJB-200N1-09-L2-14		X
22	EJB-200N1-09-L2-13		X
23	EJB-200N1-09-L2-12		X
24	EJB-200N1-09-L2-11		X
25	EJB-200N1-09-L2-10		X
26	EJB-200N1-09-L2-09		X
27	EJB-200N1-09-L2-08		X
28	EJB-200N1-09-L2-07		X
29	EJB-200N1-09-L2-06		X
30	EJB-200N1-09-L2-05		X
31	EJB-200N1-09-L2-16	X	
32	EJB-200N1-04-L3-01	X	
33	EJB-200N1-04-L3-02	X	
34	EJB-200N1-10-L3-05		X
35	EJB-200N1-10-L3-06		X
36	EJB-200N1-10-L3-07		X
37	EJB-200N1-10-L3-08		X
38	EJB-200N1-10-L3-09		X
39	EJB-200N1-10-L3-02		X
40	EJB-200N1-10-L3-01		X
41	EJB-200N1-10-L3-03		X
42	EJB-200N1-10-L3-04		X
43	EJB-200N1-02-L1-03	X	
44	EJB-200N1-02-L1-02	X	
45	EJB-200N1-02-L1-01	X	
46	SPARE (TO BE PROVIDED BLANK)	X	
47	EJB-200N1-02-L1-10	X	
48	EJB-200N1-02-L1-19	X	
49	EJB-200N1-02-L1-18	X	

ENCLOSURE N°	TAG LIST	NORMAL LIGHTING	EMERGENCY LIGHTING
50	EJB-200N1-02-L1-17	X	
51	EJB-200N1-02-L1-16	X	
52	EJB-200N1-02-L1-15	X	
53	EJB-200N1-02-L1-14	X	
54	EJB-200N1-02-L1-13	X	
55	EJB-200N1-02-L1-12	X	
56	EJB-200N1-02-L1-11	X	
57	EJB-200N1-02-L1-06	X	
58	EJB-200N1-02-L1-05	X	
59	EJB-200N1-02-L1-07	X	
60	EJB-200N1-02-L1-08	X	
61	EJB-200N1-02-L1-09	X	
62	EJB-200N1-08-L1-03		X
63	SPARE (TO BE PROVIDED BLANK)		X
64	EJB-200N1-08-L1-01		X
65	EJB-200N1-08-L1-04		X
66	EJB-200N1-08-L1-19		X
67	EJB-200N1-08-L1-18		X
68	EJB-200N1-08-L1-17		X
69	EJB-200N1-08-L1-16		X
70	EJB-200N1-08-L1-15		X
71	EJB-200N1-08-L1-14		X
72	EJB-200N1-02-L1-20	X	
73	EJB-200N1-08-L1-12		X
74	EJB-200N1-08-L1-11		X
75	EJB-200N1-08-L1-10		X
76	EJB-200N1-08-L1-20		X
77	EJB-200N1-08-L1-05		X
78	EJB-200N1-08-L1-06		X
79	EJB-200N1-08-L1-07		X
80	EJB-200N1-08-L1-09		X
81	EJB-200N1-08-L1-08		X
82	EJB-200F2-01	X	
83	EJB-200F2-02	X	
84	SPARE (TO BE PROVIDED BLANK)	X	
85	SPARE (TO BE PROVIDED BLANK)	X	
86	SPARE (TO BE PROVIDED BLANK)	X	
87	SPARE (TO BE PROVIDED BLANK)	X	
88	SPARE (TO BE PROVIDED BLANK)	X	
89	SPARE (TO BE PROVIDED BLANK)		X
90	SPARE (TO BE PROVIDED BLANK)		X
91	SPARE (TO BE PROVIDED BLANK)		X
92	SPARE (TO BE PROVIDED BLANK)		X

Q.TY 92, ITEM 20: 2JBXXGPEE, ELEJB02

Explosion Proof
Electrical Equipment
Materiali Elettrici Antideflagranti

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00	30/07/24	FB	OB	OB	ISSUE FOR REVIEW (IFR)

TITLE : BASE LOAD POWER HUB (BLPH)

Junction Box for Normal & Emergency Lighting–Tag List

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE : NTS

A3

DRAWING NO. 1724001481-EL-DA-00003

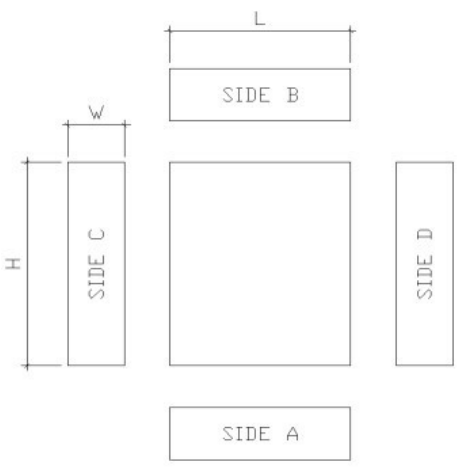
SHEET 005

REV. 05

F.to UNI A3: 420mmx297mm

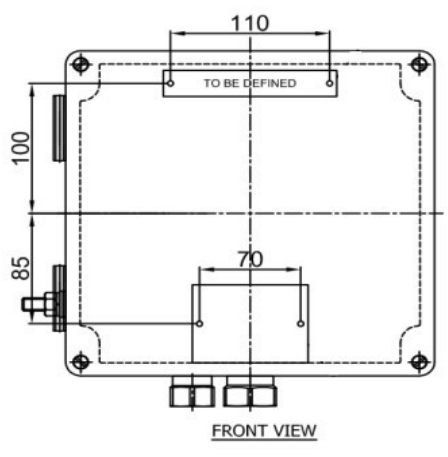
File Name : 1724001481-EL-DA-00003 Rev. 01

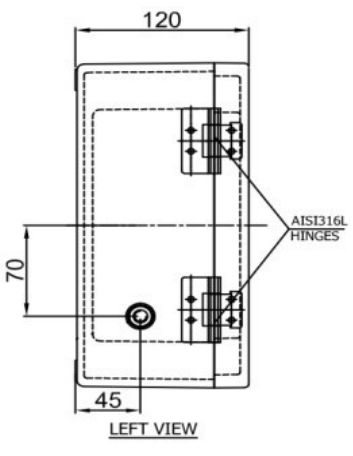
Row	Data Sheet for Control Stations, Junction Boxes and Sockets				Rev.
1	Junction Box for Normal & Emergency Lighting (Exdb)				
2	Item	Required	Manufacturer Proposal	Comments	
3	Model Number	by Vendor	AQ-252612P		01
4	Serial Number	by Vendor	B011041010004		01
5	Quantity	43+5(spare)		(39+9 spare)	01
6	Appkication	Lighting pole JB/Lighting JB			00
7	**Installation area**				
8	Indoor/Outdoor	Outdoor			00
9	Safe Area/Hazardous Area	Hazardous area			00
10	Zone 1/Zone 2	Zone-1			00
11	Temp. Class	Zone 1 Gas Group IIC (or) IIB + H2, T1	Ex eb IIC, T6 Gb		01
12	**Electrical input data**				
13	Voltage	230 V ac	230 V ac		01
14	Number of Phases	1ph + N + PE			00
15	**Material**				
16	Body	GRP	GRP		01
17	Execution	Ex eb	Ex eb		00
18	Protection Degree	IP56	IP 66		01
19	**Accessories**				
20	Hinged Cover	Required	AISI316L Hinges		01
21	Gasket	Required			00
22	Removable Gland Plates	Required	Brass Continuity plate 0.8mm thick		01
23	Internal Mounting Plate	Thickness 3mm threaded		connected to Internal ground bar	00
24	Internal Ground Bar	Required		connected to earth stud	00
25	Earth Stud	Required			00
26	Drainage Valve	Required			00
27	Pad lockable Cover	Required			00
28	Identification Label	Trafolite/ Stainless Steel	Laminated Plastic	for all label	01
29	**Side 'A'**				
30	Hubs Qty.	5	5		01
31	Size	No.3 M25, No.2 M20	No.3 Ø 25.2 mm, No.2 Ø 20.2 mm		01
32	Thread	ISO-M			00
33	Plug	No. 1 M20, No.1 M25	No. 1 Ø 20.2 mm, No.1 Ø 25.2 mm	nickel-plated brass	01
34	**Side 'B'**				
35	Hubs Qty.	Not Required			00
36	Size	NA			00
37	Thread	NA			00
38	**Side 'C'**				
39	Hubs Qty.	Not Required			00
40	Size	NA			00
41	Thread	NA			00
42	**Side 'D'**				
43	Hubs Qty.	Not Required			00
44	Size	NA			00
45	Thread	NA			00
46	**Terminals**				
47	Size [mm^2]	Suitable for 6 Sq.mm & 2.5 Sq.mm Cable	M25 & M20	suitable with wire-end ferrules DIN 46228	01
48	Qty.	n°5 for Ph // n°5 for N // n°5 for PE	n°5 for Ph // n°5 for N // n°5 for PE	Ex - jumpered	01
49	**Bonding Cable (yellow/Green)**				
50	Size [mm^2]	by vendor		6 mm^2	01
51	Qty.	Min. 0.15m			00
52	**Dimension**				
53	Height 'H' [mm]	by vendor	120 mm		01
54	Width 'W' [mm]	by vendor	250 mm		01
55	Length 'L' [mm]	by vendor	255 mm		01
56	Weight [Kg]	by vendor	2.65 Kg		01
57	JB Code (*)	Remarks			
58					



NOTES:

(*) Filled by Vendor





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Tag Number	Tag Description	Location	P.O.	Vendor	Manufacturer	Serial Number	Model Type Catalogue Number	Installation Zone	ATEX Certificate Number	Reference Document	ATEX Certification Marking	Notes / Comments	Skid / Package	Electrical Equip.	Barrier Calculation Ref.	Special Conditions of Safe Use Applicable	3D Location
CB-200F4B	AC UPS F&G - Battery Isolator-B	CONTAINER B-300 (LOWER DECK)	1724000372	3W Power	Cortem Spa		EJBC	Zone 1	EPT 20 ATEX 4075X	1724000372-EL-DG-00011	II 2GDEx db IIC T6 Gb Ex tb IIIC T 85°C Db	-	N/A	True	N/A	False	
EAT-200N1-01	Trace Heating - Remote Ambient Thermostat	LOWER DECK	1724001647	nVent	nVent	1244-022663	ETS-05-A2-E-A	Zone 1	Baseefa 13ATEX0137	1724001647-EL-DD-00004	II 2(1)G Ex eb ia mb [ia Ga] IIC T5 Gb - 40ºC ≤ Ta ≤ +60ºC II 2D Ex tb IIIC T100ºC Db	-	N/A	True	N/A	False	
EHT-1001-A	Self-regulating heat cable	LOWER DECK	1724001647	nVent	nVent	469145-000	3BTV2-CT	Zone 1	SGS20ATEX0048X	1724001647-EL-DD-00004	II 2 GD Ex 60079-30-1 eb IIC T6 Gb	-	N/A	True	N/A	True	
EHT-1002-A	Self-regulating heat cable	LOWER DECK	1724001647	nVent	nVent	469145-000	3BTV2-CT	Zone 1	SGS20ATEX0048X	1724001647-EL-DD-00004	II 2 GD Ex 60079-30-1 eb IIC T6 Gb	-	N/A	True	N/A	True	
EHT-1003-A	Self-regulating heat cable	LOWER DECK	1724001647	nVent	nVent	469145-000	3BTV2-CT	Zone 1	SGS20ATEX0048X	1724001647-EL-DD-00004	II 2 GD Ex 60079-30-1 eb IIC T6 Gb	-	N/A	True	N/A	True	
EHT-1004-A	Self-regulating heat cable	UPPER DECK	1724001647	nVent	nVent	469145-000	3BTV2-CT	Zone 1	SGS20ATEX0048X	1724001647-EL-DD-00004	II 2 GD Ex 60079-30-1 eb IIC T6 Gb	-	N/A	True	N/A	True	
EHT-1004-B	Self-regulating heat cable	UPPER DECK	1724001647	nVent	nVent	469145-000	3BTV2-CT	Zone 1	SGS20ATEX0048X	1724001647-EL-DD-00004	II 2 GD Ex 60079-30-1 eb IIC T6 Gb	-	N/A	True	N/A	True	
EHT-1005-A	Self-regulating heat cable	UPPER DECK	1724001647	nVent	nVent	469145-000	3BTV2-CT	Zone 1	SGS20ATEX0048X	1724001647-EL-DD-00004	II 2 GD Ex 60079-30-1 eb IIC T6 Gb	-	N/A	True	N/A	True	
EHT-1006-A	Self-regulating heat cable	UPPER DECK	1724001647	nVent	nVent	469145-000	3BTV2-CT	Zone 1	SGS20ATEX0048X	1724001647-EL-DD-00004	II 2 GD Ex 60079-30-1 eb IIC T6 Gb	-	N/A	True	N/A	True	
EHT-1007-A	Self-regulating heat cable	LOWER DECK	1724001647	nVent	nVent	469145-000	3BTV2-CT	Zone 1	SGS20ATEX0048X	1724001647-EL-DD-00004	II 2 GD Ex 60079-30-1 eb IIC T6 Gb	-	N/A	True	N/A	True	
EHT-2002-A	Self-regulating heat cable	UPPER DECK	1724001647	nVent	nVent	469145-000	3BTV2-CT	Zone 1	SGS20ATEX0048X	1724001647-EL-DD-00004	II 2 GD Ex 60079-30-1 eb IIC T6 Gb	-	N/A	True	N/A	True	
EJB-200F2-01	Top Obstruction Lights Junction Box	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990082	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	HAZARDOUS-AREA_8 HAZARDOUS-AREA_3
EJB-200F2-02	Intermediate obstruction lights junction box	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990083	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	HAZARDOUS-AREA_4
EJB-200N1-02-L1-01	Normal Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990045	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-02-L1-02	Normal Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990044	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-02-L1-03	Normal Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990043	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	HAZARDOUS-AREA_3
EJB-200N1-02-L1-05	Normal Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990058	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-02-L1-06	Normal Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990057	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-02-L1-07	Normal Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990059	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-02-L1-08	Normal Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990060	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-02-L1-09	Normal Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990061	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-02-L1-10	Normal Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990047	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-02-L1-11	Normal Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990056	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-02-L1-12	Normal Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990055	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-02-L1-13	Normal Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990054	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-02-L1-14	Normal Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990053	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-02-L1-15	Normal Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990052	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-02-L1-16	Normal Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990051	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-02-L1-17	Normal Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990050	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-02-L1-18	Normal Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990049	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-02-L1-19	Normal Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990048	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-02-L1-20	Normal Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990072	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-03-L2-01	Normal Lighting JB	LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990003	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-03-L2-02	Normal Lighting JB	LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990004	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-03-L2-03	Normal Lighting JB	LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990002	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-03-L2-04	Normal Lighting JB	LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990001	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-03-L2-05	Normal Lighting JB	LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990012	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-03-L2-06	Normal Lighting JB	LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990011	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-03-L2-07	Normal Lighting JB	LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990010	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-03-L2-08	Normal Lighting JB	LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990009	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-03-L2-09	Normal Lighting JB	LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990008	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-03-L2-10	Normal Lighting JB	LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990007	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-03-L2-11	Normal Lighting JB	LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990006	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-03-L2-12	Normal Lighting JB	LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990005	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-03-L2-13	Normal Lighting JB	LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990014	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-03-L2-14	Normal Lighting JB	LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990013	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-04-L3-01	Stair Normal Lighting JB	LOWER DECK STAIRS	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990032	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-04-L3-02	Stair Normal Lighting JB	LOWER DECK STAIRS	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990033	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-08-L1-01	Emergency Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990064	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-08-L1-03	Emergency Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990062	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	HAZARDOUS-AREA_3
EJB-200N1-08-L1-04	Emergency Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990065	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-08-L1-05	Emergency Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990077	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-08-L1-06	Emergency Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990078	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	

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[1] # EU – TYPE EXAMINATION CERTIFICATE

[2] Equipment or Protective Systems Intended for use in Potentially Explosive Atmospheres Directive 2014/34/EU.

[3] EU-Type Examination Certificate Number: **FIDI 21 ATEX 0090X** Issue: **1**

[4] Product: **Junction boxes, local control stations and local control panels**

Type: **AQ-***P / AQ-***AL / AR-***P / AR-***AL**
AQ-*P-HT / AQ-***AL-HT / AR-***P-HT / AR-***AL-HT**
SB-* / ST-***
EFE-* / EFXE-*** AL / EFXE-***SB / EFXE-***ST**
EFE-*-HT / EFXE-***AL-HT**

[5] Manufacturer: **Technor Italsmea S.p.A.**

[6] Address: **Via Italia 33, 20060 Gessate (MI), Italy**

[7] This product and any acceptable variation thereto is specified in the schedule to this certificate and documents therein referred to.

[8] FIDITAS Ltd., Notified Body number 2829 in accordance with Article 17 of Directive 2014/34/EU of the European Parliament and of the Council, dated 26 February 2014, certifies that this product has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of products intended for use in potentially explosive atmospheres given in Annex II of the Directive.

The examination and test results are recorded in confidential Report No: **FIDI 21 CR 075**

[9] Compliance with the Essential Health and Safety Requirements has been assured by compliance with:

EN IEC 60079-0:2018	**EN 60079-1:2014**	**EN IEC 60079-7:2015 / A1:2018**
EN 60079-11:2012	**EN 60079-18:2015/A1:2017**	**EN 60079-31:2014**

except in respect of those requirements listed at item 18 of the Schedule.

[10] If the sign 'X' is placed after the certificate number, it indicates that the product is subject to Specific Conditions of Use specified in the schedule to this certificate.

[11] This EU-Type Examination Certificate relates only to the design, examination and test of the specified product in accordance with Annex III. Further requirements of the Directive apply to the manufacturing process and supply of this products. These are not covered by this certificate.

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[12] The marking of the product shall include the following:



II 1 G	**Ex ia IIC/IIB T6...T4 Ga**(2) or
II 2(1) G or **II 2(2) G**	**Ex db eb ia/ib mb [**(3)**] IIC/IIB T6...T4 Gb**(1) or
II 2 G	**Ex eb IIC/IIB T6...T4 Gb**(1) or
II 2 D	**Ex tb IIIC T85°C...T135°C Db**

(1) Others type of protection additional to 'eb' depending to the components actually mounted.

(2) In case of enclosures containing 'eb' terminals and/or 'ia Ga' already certified components (with compatible marking) only.

(3) Associated equipment protection depending on the components actually mounted (see lists): e.g. [ia/ib/ia Ga/ia IIIC Da] and/or [ia IIIC Da] or [ia/ib/ia Ga/ia IIIC Da] and/or [ia/ib/ia Ga] [ia IIIC Da]

Our ref.: 21.CRT.400

Date: 23. 12.2021.

Fiditas d.o.o. ZAGREB

FIDITAS Ltd.
Certification department
Approved:

Marino Kelava, M.E.Eng.

Fiditas Ltd. Karlovačka cesta 197, 10250 Zagreb-Lučko, Croatia
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[13] **SCHEDULE**

[14] **EU - TYPE EXAMINATION CERTIFICATE No.:** **FIDI 21 ATEX 0090X**

[15] **Description of product**

Junction boxes, local control stations and local control panels are made of 'eb' and 'tb' enclosures in stainless steel, aluminium alloy or glass fiber reinforced polyester resin, of various dimensions, which shall house 'eb' and/or 'ia/ib' terminals and/or Ex components or Ex equipment made in different type of Ex protection. All Ex terminals, Ex components and Ex equipment are covered by their own ATEX certificates.

The terminals and components are be used according to data available in related component certificates, in relevant temperature range, voltage and current limitations. The terminals must be fitted in accordance with EN IEC 60079-0 and EN IEC 60079-7 with regards to creepage and clearance distances, and according to related safety instructions.

The cover is fixed to the body with screw, between body and cover a gasket guarantee the protection degree IP66 (IP66/67 depending on models). The cover of stainless-steel enclosure can be also fixed the body with looking devices, between body and cover a gasket guarantee the protection degree IP66. The IP degree of junction boxes, local control stations and local control panels depend on the components actually mounted. The walls and the bottom of the boxes can be drilled and taped with maximum size and maximum number of holes as specified in the manufacturer documents.

The cable glands or plugs, with separate ATEX certificate, made in type of protection 'eb' and/or 'tb' with appropriate IP protection are mounted according to related manufacturer's installation instructions. Each enclosure is provided with internal earthing certified terminal or earthing screw or bolt. Metal enclosures are provided by external earthing screw or bolt. Metal and polyester enclosures can be provided by passing through earthing terminals.

All enclosures can be provided by:
- Externally installed accessories as specified in manufacturer documents,
- Drain breath device type ECR3, included in this certificate,
- Internal/external earthing plate.

Model identification

Junction boxes

A(1)-(2) (3) (4) (5) (6)	(1) –	**Q**: Square size **R**: Rectangular size
	(2) (3) (4)	dimension, in cm
	(5)	Material **P**: Glass fiber reinforced polyester resin **AL**: Aluminium Alloy
	(6)	None: up to internal temperature of 105°C **HT**: up to internal temperature of 130°C
SB- (2) (3) (4)	(2) (3) (4)	dimension, in cm
ST- (2) (3) (4)	(2) (3) (4)	dimension, in cm

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Panel boards

EFE- (2) (3) (4) (6)	(2) (3) (4)	dimension, in cm
	(6)	None: up to internal temperature of 105°C **HT**: up to internal temperature of 130°C
EFXE- (2) (3) (4) (5) (6)	(2) (3) (4)	dimension, in cm
		Material
	(5)	**SB** or **ST**: stainless steel **AL**: Aluminium Alloy
	(6)	None: up to internal temperature of 105°C **HT**: up to internal temperature of 130°C

Technical data:

Electrical data:	According to Ex component to actually installed
Ambient temperature:	-50°C ÷ +95°C Other possible ranges are with: - min temperature: -50°C to -20 °C - max temperature of +40 °C to +95 °C
Mechanical protection:	IP66/IP67 depending on models IP66 without swing handle element IP55 with swing handle element

Temperature class and/or maximum surface temperature of any junction box or control panel depend on ambient temperature and internal power dissipation. The values that must be observed are given in relevant tables in this certificate.

For commercial reasons model name listed in the tables below can be modified as follows: first (2) and second (3) pair of digits can be reversed.

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Model sizes

Polyester High Temperature		Aluminium High Temperature	
AQ-080806P-HT	EFE-080806-HT	AQ-080806AL-HT	EFXE-080806AL-HT
AQ-080808P-HT	EFE-080808-HT	AR-081306AL-HT	EFXE-081306AL-HT
AR-081106P-HT	EFE-081106-HT	AR-081806AL-HT	EFXE-081806AL-HT
AR-081108P-HT	EFE-081108-HT	AR-082505AL-HT	EFXE-082505AL-HT
AR-081606P-HT	EFE-081606-HT	AQ-101008AL-HT	EFXE-101008AL-HT
AR-081608P-HT	EFE-081608-HT	AR-101608AL-HT	EFXE-101608AL-HT
AR-081906P-HT	EFE-081906-HT	AR-102008AL-HT	EFXE-102008AL-HT
AR-081908P-HT	EFE-081908-HT	AQ-121208AL-HT	EFXE-121208AL-HT
AR-082306P-HT	EFE-082306-HT	AQ-121209AL-HT	EFXE-121209AL-HT
AR-082308P-HT	EFE-082308-HT	AR-122208AL-HT	EFXE-122208AL-HT
AQ-121209P-HT	EFE-121209-HT	AR-122209AL-HT	EFXE-122209AL-HT
AR-122209P-HT	EFE-122209-HT	AR-123608AL-HT	EFXE-123608AL-HT
AQ-161609P-HT	EFE-161609-HT	AQ-141409AL-HT	EFXE-141409AL-HT
AR-162609P-HT	EFE-162609-HT	AR-142009AL-HT	EFXE-142009AL-HT
AR-163609P-HT	EFE-163609-HT	AQ-161609AL-HT	EFXE-161609AL-HT
AR-165609P-HT	EFE-165609-HT	AR-162609AL-HT	EFXE-162609AL-HT
AQ-202017P-HT	EFE-202017-HT	AR-163609AL-HT	EFXE-163609AL-HT
AR-203017P-HT	EFE-203017-HT	AR-165609AL-HT	EFXE-165609AL-HT
AQ-252612P-HT	EFE-252612-HT	AQ-181810AL-HT	EFXE-181810AL-HT
AQ-252616P-HT	EFE-252616-HT	AR-182810AL-HT	EFXE-182810AL-HT
AR-254012P-HT	EFE-254012-HT	AR-102311AL-HT	EFXE-102311AL-HT
AR-254016P-HT	EFE-254016-HT	AR-202311AL-HT	EFXE-202311AL-HT
AR-256012P-HT	EFE-256012-HT	AR-202318AL-HT	EFXE-202318AL-HT
AR-304020P-HT	EFE-304020-HT	AR-232811AL-HT	EFXE-232811AL-HT
AQ-363609P-HT	EFE-363609-HT	AR-233311AL-HT	EFXE-233311AL-HT
AR-406025P-HT	EFE-406025-HT	AR-233318AL-HT	EFXE-233318AL-HT
AQ-414012P-HT	EFE-414012-HT	AR-234011AL-HT	EFXE-234011AL-HT
AQ-414020P-HT	EFE-414020-HT	AR-234023AL-HT	EFXE-234023AL-HT
		AR-236011AL-HT	EFXE-236011AL-HT
		AR-314011AL-HT	EFXE-314011AL-HT
		AR-314014AL-HT	EFXE-314014AL-HT
		AR-314018AL-HT	EFXE-314018AL-HT
		AR-314023AL-HT	EFXE-314023AL-HT
		AR-316011AL-HT	EFXE-316011AL-HT
		AR-316018AL-HT	EFXE-316018AL-HT
		AQ-606020AL-HT	EFXE-606020AL-HT

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Polyester		Aluminium		Stainless steel	
AQ-080806P	EFE-080806	AQ-080806AL	EFXE-080806AL	SB-101210	EFXE-101210SB
AQ-080808P	EFE-080808	AR-081306AL	EFXE-081306AL	SB-151510	EFXE-151510SB
AR-081106P	EFE-081106	AR-081806AL	EFXE-081806AL	SB-142013	EFXE-142013SB
AR-081606P	EFE-081606	AR-081808AL	EFXE-081808AL	SB-202010	EFXE-202010SB
AR-081906P	EFE-081906	AR-082505AL	EFXE-082505AL	SB-202016	EFXE-202016SB
AQ-121209P	EFE-121209	AR-082508AL	EFXE-082508AL	SB-202713	EFXE-202713SB
AR-122209P	EFE-122209	AQ-101008AL	EFXE-101008AL	SB-272713	EFXE-272713SB
AQ-161609P	EFE-161609	AR-101508AL	EFXE-101508AL	SB-203016	EFXE-203016SB
AR-162609P	EFE-162609	AR-101608AL	EFXE-101608AL	SB-273513	EFXE-273513SB
AR-163609P	EFE-163609	AR-102008AL	EFXE-102008AL	SB-282816	EFXE-282816SB
AQ-252612P	EFE-252612	AQ-121208AL	EFXE-121208AL	SB-204016	EFXE-204016SB
AQ-252616P	EFE-252616	AR-122209AL	EFXE-122209AL	SB-353516	EFXE-353516SB
AR-254012P	EFE-254012	AQ-141409AL	EFXE-141409AL	SB-282827	EFXE-282827SB
AR-254016P	EFE-254016	AR-142009AL	EFXE-142009AL	SB-355016	EFXE-355016SB
AR-256012P	EFE-256012	AQ-161609AL	EFXE-161609AL	SB-383816	EFXE-383816SB
AQ-414012P	EFE-414012	AR-162410AL	EFXE-162410AL	SB-384516	EFXE-384516SB
		AR-162609AL	EFXE-162609AL	SB-385716	EFXE-385716SB
		AQ-181810AL	EFXE-181810AL	SB-505016	EFXE-505016SB
		AR-182810AL	EFXE-182810AL	SB-383827	EFXE-383827SB
		AR-202311AL	EFXE-202311AL	SB-575716	EFXE-575716SB
		AR-202318AL	EFXE-202318AL	SB-577620	EFXE-577620SB
		AR-232811AL	EFXE-232811AL	SB-575730	EFXE-575730SB
		AR-233312AL	EFXE-233312AL	SB-769520	EFXE-769520SB
		AR-233318AL	EFXE-233318AL	SB-1258040	EFXE-1258040SB

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Enclosure types (Stainless steel)	
ST-101210	EFXE-101210ST
ST-151510	EFXE-151510ST
ST-142013	EFXE-142013ST
ST-202010	EFXE-202010ST
ST-202016	EFXE-202016ST
ST-202713	EFXE-202713ST
ST-272713	EFXE-272713ST
ST-203016	EFXE-203016ST
ST-273513	EFXE-273513ST
ST-282816	EFXE-282816ST
ST-204016	EFXE-204016ST
ST-353516	EFXE-353516ST
ST-282827	EFXE-282827ST
ST-355016	EFXE-355016ST
ST-383816	EFXE-383816ST
ST-384516	EFXE-384516ST
ST-385716	EFXE-385716ST
ST-505016	EFXE-505016ST
ST-383827	EFXE-383827ST
ST-575716	EFXE-575716ST
ST-577620	EFXE-577620ST
ST-575730	EFXE-575730ST
ST-769520	EFXE-769520ST
ST-1258040	EFXE-1258040ST

Note 2 For stainless steel enclosures: dimensions (2) and (3) can be decreased or increased up to 20%, dimensions (4) can be increased up to 500 mm. Model name changes consequently.

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Power dissipation – HT glass fiber reinforced polyester resin enclosures

Enclosure types (polyester)		Maximum power dissipation (W) – Tamb. up to **40**°C							
		INTERNAL TEMP.60°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)	INTERNAL TEMP.127°C (T4/T135°C)
AQ-080806P-HT	EFE-080806-HT	3,5	5,2	7,0	7,8	9,6	10,4	11,3	15,2
AQ-080808P-HT	EFE-080808-HT	4,6	6,8	9,1	10,2	12,5	13,7	14,8	19,8
AR-081106P-HT	EFE-081106-HT	4,3	6,4	8,5	9,6	11,8	12,8	13,9	18,6
AR-081108P-HT	EFE-081108-HT	5,6	8,4	11,2	12,6	15,3	16,7	18,1	24,2
AR-081606P-HT	EFE-081606-HT	5,8	8,7	11,6	13,0	15,9	17,4	18,8	25.2
AR-081608P-HT	EFE-081608-HT	6,8	10,2	13,7	15,4	18,8	20,5	22,2	29,7
AR-081906P-HT	EFE-081906-HT	6,4	9,6	12,8	14,4	17,6	19,2	20,8	27,8
AR-081908P-HT	EFE-081908-HT	7,5	11,3	15,1	17,0	20,7	22,6	24,5	32,7
AR-082306P-HT	EFE-082306-HT	7,2	10,8	14,4	16,2	19,8	21,6	23,4	31,3
AR-082308P-HT	EFE-082308-HT	8,5	12,7	16,9	19,0	23,3	25,4	27,5	36,7
AQ-121209P-HT	EFE-121209-HT	8,0	12,0	15,9	17,9	21,9	23,9	25,9	34,7
AR-122209P-HT	EFE-122209-HT	10,8	16,2	21,6	24,3	29,7	32,4	35,1	47,0
AQ-161609P-HT	EFE-161609-HT	10,4	15,6	20,8	23,4	28,6	31,2	33,8	45,2
AR-162609P-HT	EFE-162609-HT	13,4	20,1	26,8	30,2	36,9	40,2	43,6	58,3
AR-163609P-HT	EFE-163609-HT	16,2	24,3	32,4	36,5	44,6	48,6	52,7	70,5
AR-165609P-HT	EFE-165609-HT	21,4	32,0	42,7	48,1	58,7	64,1	69,4	92,9
AQ-202017P-HT	EFE-202017-HT	18,0	26,9	35,9	40,4	49,4	53,9	58,4	78,1
AR-203017P-HT	EFE-203017-HT	20,9	31,3	41,7	47,0	57,4	62,6	67,8	90,8
AQ-252612P-HT	EFE-252612-HT	18,8	28,2	37,6	42,4	51,8	56,5	61,2	81,9
AQ-252616P-HT	EFE-252616-HT	20,8	31,1	41,5	46,7	57,1	62,3	67,5	90,3
AR-254012P-HT	EFE-254012-HT	22,8	34,2	45,7	51,4	62,8	68,5	74,2	99,3
AR-254016P-HT	EFE-254016-HT	26,2	39,3	52,4	58,9	72,0	78,6	85,1	113,9
AR-256012P-HT	EFE-256012-HT	29,0	43,6	58,1	65,3	79,9	87,1	94,4	126,3
AR-304020P-HT	EFE-304020-HT	32,3	48,5	64,7	72,7	88,9	97,0	105,1	140,7
AQ-363609P-HT	EFE-363609-HT	23,0	34,6	46,1	51,8	63,4	69,1	74,9	100,2
AR-406025P-HT	EFE-406025-HT	50,3	75,5	100,7	113,3	138,4	151,0	163,6	218,9
AQ-414012P-HT	EFE-414012-HT	29,1	43,7	58,2	65,5	80,1	87,3	94,6	126,6
AQ-414020P-HT	EFE-414020-HT	36,6	55,0	73,3	82,4	100,8	109,9	119,1	159,4

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Enclosure types (polyester)		Maximum power dissipation (W) – Tamb. up to **50**°C							
		INTERNAL TEMP.60°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)	INTERNAL TEMP.127°C (T4/T135°C)
AQ-080806P-HT	EFE-080806-HT	1,7	3,5	5,2	6,1	7,8	8,7	9,6	13,4
AQ-080808P-HT	EFE-080808-HT	2,3	4,6	6,8	8,0	10,2	11,4	12,5	17,5
AR-081106P-HT	EFE-081106-HT	2,1	4,3	6,4	7,5	9,6	10,7	11,8	16,5
AR-081108P-HT	EFE-081108-HT	2,8	5,6	8,4	9,8	12,6	13,9	15,3	21.5
AR-081606P-HT	EFE-081606-HT	2,9	5,8	8,7	10,1	13,0	14,5	15,9	22,3
AR-081608P-HT	EFE-081608-HT	3,4	6,8	10,2	11,9	15,4	17,1	18,8	26,3
AR-081906P-HT	EFE-081906-HT	3,2	6,4	9,6	11,2	14,4	16,0	17,6	24,6
AR-081908P-HT	EFE-081908-HT	3,8	7,5	11,3	13,2	17,0	18,8	20,7	29,0
AR-082306P-HT	EFE-082306-HT	3,6	7,2	10,8	12,6	16,2	18,0	19,8	27,7
AR-082308P-HT	EFE-082308-HT	4,2	8,5	12,7	14,8	19,0	21,1	23,3	32,5
AQ-121209P-HT	EFE-121209-HT	4,0	8,0	12,0	14,0	17,9	19,9	21,9	30,7
AR-122209P-HT	EFE-122209-HT	5,4	10,8	16,2	18,9	24,3	27,0	29,7	41,6
AQ-161609P-HT	EFE-161609-HT	5,2	10,4	15,6	18,2	23,4	26,0	28,6	40,0
AR-162609P-HT	EFE-162609-HT	6,7	13,4	20,1	23,5	30,2	33,5	36,9	51,6
AR-163609P-HT	EFE-163609-HT	8,1	16,2	24,3	28,4	36,5	40,5	44,6	62,3
AR-165609P-HT	EFE-165609-HT	10,7	21,4	32,0	37,4	48,1	53,4	58,7	82,2
AQ-202017P-HT	EFE-202017-HT	9,0	18,0	26,9	31,4	40,4	44,9	49,4	69,1
AR-203017P-HT	EFE-203017-HT	10,4	20,9	31,3	36,5	47,0	52,2	57,4	80,4
AQ-252612P-HT	EFE-252612-HT	9,4	18,8	28,2	32,9	42,4	47,1	51,8	72,5
AQ-252616P-HT	EFE-252616-HT	10,4	20,8	31,1	36,3	46,7	51,9	57,1	79,9
AR-254012P-HT	EFE-254012-HT	11,4	22,8	34,2	39,9	51,4	57,1	62,8	87,9
AR-254016P-HT	EFE-254016-HT	13,1	26,2	39,3	45,8	58,9	65,5	72,0	100,8
AR-256012P-HT	EFE-256012-HT	14,5	29,0	43,6	50,8	65,3	72,6	79,9	111,8
AR-304020P-HT	EFE-304020-HT	16,2	32,3	48,5	56,6	72,7	80,8	88,9	124,4
AQ-363609P-HT	EFE-363609-HT	11,5	23,0	34,6	40,3	51,8	57,6	63,4	88,7
AR-406025P-HT	EFE-406025-HT	25,2	50,3	75,5	88,1	113,3	125,8	138,4	193,8
AQ-414012P-HT	EFE-414012-HT	14,6	29,1	43,7	51,0	65,5	72,8	80,1	112,1
AQ-414020P-HT	EFE-414020-HT	18,3	36,6	55,0	64,1	82,4	91,6	100,8	141,1

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Enclosure types (polyester)		Maximum power dissipation (W) – Tamb. up to **55**°C							
		INTERNAL TEMP.65°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)	INTERNAL TEMP.127°C (T4/T135°C)
AQ-080806P-HT	EFE-080806-HT	1,7	2,6	4,4	5,2	7,0	7,8	8,7	12,5
AQ-080808P-HT	EFE-080808-HT	2,3	3,4	5,7	6,8	9,1	10,2	11,4	16,2
AR-081106P-HT	EFE-081106-HT	2,1	3,2	5,3	6,4	8,5	9,6	10,7	15,2
AR-081108P-HT	EFE-081108-HT	2,8	4,2	7,0	8,4	11,2	12,6	13,9	19,8
AR-081606P-HT	EFE-081606-HT	2,9	4,3	7,2	8,7	11,6	13,0	14,5	20,6
AR-081608P-HT	EFE-081608-HT	3,4	5,1	8,5	10,2	13,7	15,4	17,1	24,3
AR-081906P-HT	EFE-081906-HT	3,2	4,8	8,0	9,6	12,8	14,4	16,0	22,8
AR-081908P-HT	EFE-081908-HT	3,8	5,7	9,4	11,3	15,1	17,0	18,8	26,8
AR-082306P-HT	EFE-082306-HT	3,6	5,4	9,0	10,8	14,4	16,2	18,0	25,6
AR-082308P-HT	EFE-082308-HT	4,2	6,3	10,6	12,7	16,9	19,0	21,1	30,0
AQ-121209P-HT	EFE-121209-HT	4,0	6,0	10,0	12,0	15,9	17,9	19,9	28,3
AR-122209P-HT	EFE-122209-HT	5,4	8,1	13,5	16,2	21,6	24,3	27,0	38,3
AQ-161609P-HT	EFE-161609-HT	5,2	7,8	13,0	15,6	20,8	23,4	26,0	36,9
AR-162609P-HT	EFE-162609-HT	6,7	10,1	16,8	20,1	26,8	30,2	33,5	47,6
AR-163609P-HT	EFE-163609-HT	8,1	12,2	20,3	24,3	32,4	36,5	40,5	57,5
AR-165609P-HT	EFE-165609-HT	10,7	16,0	26,7	32,0	42,7	48,1	53,4	75,8
AQ-202017P-HT	EFE-202017-HT	9,0	13,5	22,4	26,9	35,9	40,4	44,9	63,7
AR-203017P-HT	EFE-203017-HT	10,4	15,7	26,1	31,3	41,7	47,0	52,2	74,0
AQ-252612P-HT	EFE-252612-HT	9,4	14,1	23,5	28,2	37,6	42,4	47,1	66,8
AQ-252616P-HT	EFE-252616-HT	10,4	15,6	26,0	31,1	41,5	46,7	51,9	73,7
AR-254012P-HT	EFE-254012-HT	11,4	17,1	28,5	34,2	45,7	51,4	57,1	81,0
AR-254016P-HT	EFE-254016-HT	13,1	19,6	32,7	39,3	52,4	58,9	65,5	92,9
AR-256012P-HT	EFE-256012-HT	14,5	21,8	36,3	43,6	58,1	65,3	72,6	103,0
AR-304020P-HT	EFE-304020-HT	16,2	24,2	40,4	48,5	64,7	72,7	80,8	114,7
AQ-363609P-HT	EFE-363609-HT	11,5	17,3	28,8	34,6	46,1	51,8	57,6	81,8
AR-406025P-HT	EFE-406025-HT	25,2	37,8	62,9	75,5	100,7	113,3	125,8	178,6
AQ-414012P-HT	EFE-414012-HT	14,6	21,8	36,4	43,7	58,2	65,5	72,8	103,0
AQ-414020P-HT	EFE-414020-HT	18,3	27,5	45,8	55,0	73,3	82,4	91,6	130,0

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Enclosure types (polyester)		Maximum power dissipation (W) – Tamb. up to **60**°C						
		INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)	INTERNAL TEMP.127°C (T4/T135°C)
AQ-080806P-HT	EFE-080806-HT	1,7	3,5	4,4	6,1	7,0	7,8	11,7
AQ-080808P-HT	EFE-080808-HT	2,3	4,6	5,7	8,0	9,1	10,2	15,2
AR-081106P-HT	EFE-081106-HT	2,1	4,3	5,3	7,5	8,5	9,6	14,3
AR-081108P-HT	EFE-081108-HT	2,8	5,6	7,0	9,8	11,2	12,6	18,7
AR-081606P-HT	EFE-081606-HT	2,9	5,8	7,2	10,1	11,6	13,0	19,4
AR-081608P-HT	EFE-081608-HT	3,4	6,8	8,5	11,9	13,7	15,4	22,9
AR-081906P-HT	EFE-081906-HT	3,2	6,4	8,0	11,2	12,8	14,4	21,4
AR-081908P-HT	EFE-081908-HT	3,8	7,5	9,4	13,2	15,1	17,0	25,3
AR-082306P-HT	EFE-082306-HT	3,6	7,2	9,0	12,6	14,4	16,2	24,1
AR-082308P-HT	EFE-082308-HT	4,2	8,5	10,6	14,8	16,9	19,0	28,3
AQ-121209P-HT	EFE-121209-HT	4,0	8,0	10,0	14,0	15,9	17,9	26,7
AR-122209P-HT	EFE-122209-HT	5,4	10,8	13,5	18,9	21,6	24,3	36,2
AQ-161609P-HT	EFE-161609-HT	5,2	10,4	13,0	18,2	20,8	23,4	34,8
AR-162609P-HT	EFE-162609-HT	6,7	13,4	16,8	23,5	26,8	30,2	44,9
AR-163609P-HT	EFE-163609-HT	8,1	16,2	20,3	28,4	32,4	36,5	54,2
AR-165609P-HT	EFE-165609-HT	10,7	21,4	26,7	37,4	42,7	48,1	71,5
AQ-202017P-HT	EFE-202017-HT	9,0	18,0	22,4	31,4	35,9	40,4	60,1
AR-203017P-HT	EFE-203017-HT	10,4	20,9	26,1	36,5	41,7	47,0	69,9
AQ-252612P-HT	EFE-252612-HT	9,4	18,8	23,5	32,9	37,6	42,4	63,0
AQ-252616P-HT	EFE-252616-HT	10,4	20,8	26,0	36,3	41,5	46,7	69,5
AR-254012P-HT	EFE-254012-HT	11,4	22,8	28,5	39,9	45,7	51,4	76,5
AR-254016P-HT	EFE-254016-HT	13,1	26,2	32,7	45,8	52,4	58,9	87,7
AR-256012P-HT	EFE-256012-HT	14,5	29,0	36,3	50,8	58,1	65,3	97,2
AR-304020P-HT	EFE-304020-HT	16,2	32,3	40,4	56,6	64,7	72,7	108,3
AQ-363609P-HT	EFE-363609-HT	11,5	23,0	28,8	40,3	46,1	51,8	77,1
AR-406025P-HT	EFE-406025-HT	25,2	50,3	62,9	88,1	100,7	113,3	168,7
AQ-414012P-HT	EFE-414012-HT	14,6	29,1	36,4	51,0	58,2	65,5	97,5
AQ-414020P-HT	EFE-414020-HT	18,3	36,6	45,8	64,1	73,3	82,4	122,7

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Enclosure types (polyester)		Maximum power dissipation (W) Tamb. up to **95**°C		
		INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)	INTERNAL TEMP.127°C (T4/T135°C)
AQ-080806P-HT	EFE-080806-HT	0,9	1,7	5,6
AQ-080808P-HT	EFE-080808-HT	1,1	2,3	7,3
AR-081106P-HT	EFE-081106-HT	1,1	2,1	6,5
AR-081108P-HT	EFE-081108-HT	1,4	2,8	9,0
AR-081606P-HT	EFE-081606-HT	1,4	2,9	9,2
AR-081608P-HT	EFE-081608-HT	1,7	3,4	10,9
AR-081906P-HT	EFE-081906-HT	1,6	3,2	10,2
AR-081908P-HT	EFE-081908-HT	1,9	3,8	12,1
AR-082306P-HT	EFE-082306-HT	1,8	3,6	11,5
AR-082308P-HT	EFE-082308-HT	2,1	4,2	13,5
AQ-121209P-HT	EFE-121209-HT	2,0	4,0	12,8
AR-122209P-HT	EFE-122209-HT	2,7	5,4	17,3
AQ-161609P-HT	EFE-161609-HT	2,6	5,2	16,6
AR-162609P-HT	EFE-162609-HT	3,4	6,7	21,5
AR-163609P-HT	EFE-163609-HT	4,1	8,1	26,0
AR-165609P-HT	EFE-165609-HT	5,3	10,7	34,2
AQ-202017P-HT	EFE-202017-HT	4,5	9,0	28,7
AR-203017P-HT	EFE-203017-HT	5,2	10,4	33,4
AQ-252612P-HT	EFE-252612-HT	4,7	9,4	30,1
AQ-252616P-HT	EFE-252616-HT	5,2	10,4	33,2
AR-254012P-HT	EFE-254012-HT	5,7	11,4	36,5
AR-254016P-HT	EFE-254016-HT	6,5	13,1	41,9
AR-256012P-HT	EFE-256012-HT	7,3	14,5	46,4
AR-304020P-HT	EFE-304020-HT	8,1	16,2	51,8
AQ-363609P-HT	EFE-363609-HT	5,8	11,5	36,8
AR-406025P-HT	EFE-406025-HT	12,6	25,2	80,6
AQ-414012P-HT	EFE-414012-HT	7,3	14,6	46,6
AQ-414020P-HT	EFE-414020-HT	9,2	18,3	58,6

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Power dissipation – HT aluminum alloy enclosures

Enclosure types (aluminium)		Maximum power dissipation (W) – Tamb. up to **40**°C							
		INTERNAL TEMP.60°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)	INTERNAL TEMP.130°C (T4/T135°C)
AQ-080806AL-HT	EFXE-080806AL-HT	5,2	7,8	10,4	11,7	14,3	15,6	16,9	23,4
AR-081306AL-HT	EFXE-081306AL-HT	7,0	10,6	14,1	15,9	19,4	21,2	23,0	31,8
AR-081806AL-HT	EFXE-081806AL-HT	8,9	13,3	17,8	20,0	24,5	26,7	28,9	40,0
AR-082505AL-HT	EFXE-082505AL-HT	10,9	16,4	21,9	24,7	30,1	32,9	35,6	49,4
AQ-101008AL-HT	EFXE-101008AL-HT	8,7	13,0	17,4	19,6	23,9	26,1	28,3	39,2
AR-101608AL-HT	EFXE-101608AL-HT	11,5	17,3	23,1	26,0	31,8	34,7	37,6	52,0
AR-102008AL-HT	EFXE-102008AL-HT	13,4	20,1	26,8	30,2	36,9	40,3	43,6	60,4
AQ-121208AL-HT	EFXE-121208AL-HT	10,8	16,2	21,6	24,3	29,7	32,4	35,1	48,6
AQ-121209AL-HT	EFXE-121209AL-HT	11,6	17,5	23,3	26,2	32,1	35,0	37,9	52,5
AR-122208AL-HT	EFXE-122208AL-HT	15,6	23,5	31,3	35,3	43,1	47,0	50,9	70,6
AR-122209AL-HT	EFXE-122209AL-HT	16,8	25,3	33,7	37,9	46,3	50,6	54,8	75,9
AR-123608AL-HT	EFXE-123608AL-HT	22,3	33,5	44,7	50,3	61,5	67,1	72,7	100,7
AQ-141409AL-HT	EFXE-141409AL-HT	13,7	20,6	27,5	31,0	37,9	41,3	44,8	62,0
AR-142009AL-HT	EFXE-142009AL-HT	17,1	25,7	34,2	38,5	47,1	51,4	55,7	77,1
AQ-161609AL-HT	EFXE-161609AL-HT	16,1	24,1	32,2	36,2	44,2	48,3	52,3	72,4
AR-162609AL-HT	EFXE-162609AL-HT	21,9	32,8	43,8	49,3	60,2	65,7	71,2	98,6
AR-163609AL-HT	EFXE-163609AL-HT	27,5	41,3	55,1	62,0	75,7	82,6	89,5	124,0
AR-165609AL-HT	EFXE-165609AL-HT	38,4	57,7	76,9	86,6	105,8	115,4	125,0	173,2
AQ-181810AL-HT	EFXE-181810AL-HT	19,7	29,6	39,5	44,4	54,3	59,2	64,2	88,8
AR-182810AL-HT	EFXE-182810AL-HT	26,1	39,1	52,2	58,7	71,8	78,3	84,8	117,5
AR-102311AL-HT	EFXE-102311AL-HT	18,2	27,3	36,5	41,0	50,1	54,7	59,3	82,1
AR-202311AL-HT	EFXE-202311AL-HT	26,1	39,1	52,2	58,7	71,7	78,3	84,8	117,4
AR-202318AL-HT	EFXE-202318AL-HT	35,9	53,9	71,8	80,8	98,8	107,8	116,8	161,7
AR-232811AL-HT	EFXE-232811AL-HT	31,6	47,5	63,3	71,3	87,1	95,0	103,0	142,6
AR-233311AL-HT	EFXE-233311AL-HT	35,3	52,9	70,6	79,4	97,0	105,9	114,7	158,8
AR-233318AL-HT	EFXE-233318AL-HT	47,5	71,3	95,1	107,0	130,8	142,7	154,6	214,1
AR-234011AL-HT	EFXE-234011AL-HT	40,2	60,4	80,5	90,6	110,7	120,8	130,9	181,2
AR-234023AL-HT	EFXE-234023AL-HT	62,2	93,3	124,5	140,0	171,2	186,7	202,3	280,1
AR-236011AL-HT	EFXE-236011AL-HT	54,1	81,2	108,3	121,9	148,9	162,5	176,0	243,8
AR-314011AL-HT	EFXE-314011AL-HT	48,6	72,9	97,2	109,3	133,6	145,8	157,9	218,7
AR-314014AL-HT	EFXE-314014AL-HT	54,9	82,4	109,9	123,7	151,2	164,9	178,7	247,4
AR-314018AL-HT	EFXE-314018AL-HT	63,8	95,7	127,6	143,5	175,4	191,4	207,3	287,1
AR-314023AL-HT	EFXE-314023AL-HT	73,5	110,3	147,1	165,5	202,3	220,7	239,1	331,0
AR-316011AL-HT	EFXE-316011AL-HT	64,0	96,0	128,1	144,1	176,1	192,1	208,1	288,2
AR-316018AL-HT	EFXE-316018AL-HT	82,7	124,1	165,5	186,2	227,6	248,3	268,9	372,4
AQ-606020AL-HT	EFXE-606020AL-HT	129,1	193,7	258,3	290,5	355,1	387,4	419,7	581,1

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Enclosure types (aluminium)		Maximum power dissipation (W) – Tamb. up to **50**°C							
		INTERNAL TEMP.60°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)	INTERNAL TEMP.130°C (T4/T135°C)
AQ-080806AL-HT	EFXE-080806AL-HT	2,6	5,2	7,8	9,1	11,7	13,0	14,3	20,8
AR-081306AL-HT	EFXE-081306AL-HT	3,5	7,0	10,6	12,3	15,9	17,7	19,4	28,3
AR-081806AL-HT	EFXE-081806AL-HT	4,4	8,9	13,3	15,5	20,0	22,2	24,5	35,6
AR-082505AL-HT	EFXE-082505AL-HT	5,4	10,9	16,4	19,2	24,7	27,4	30,1	43,9
AQ-101008AL-HT	EFXE-101008AL-HT	4,3	8,7	13,0	15,2	19,6	21,7	23,9	34,8
AR-101608AL-HT	EFXE-101608AL-HT	5,7	11,5	17,3	20,2	26,0	28,9	31,8	46,2
AR-102008AL-HT	EFXE-102008AL-HT	6,7	13,4	20,1	23,5	30,2	33,5	36,9	53,7
AQ-121208AL-HT	EFXE-121208AL-HT	5,4	10,8	16,2	18,9	24,3	27,0	29,7	43,2
AQ-121209AL-HT	EFXE-121209AL-HT	5,8	11,6	17,5	20,4	26,2	29,2	32,1	46,7
AR-122208AL-HT	EFXE-122208AL-HT	7,8	15,6	23,5	27,4	35,3	39,2	43,1	62,7
AR-122209AL-HT	EFXE-122209AL-HT	8,4	16,8	25,3	29,5	37,9	42,1	46,3	67,4
AR-123608AL-HT	EFXE-123608AL-HT	11,1	22,3	33,5	39,1	50,3	55,9	61,5	89,5
AQ-141409AL-HT	EFXE-141409AL-HT	6,8	13,7	20,6	24,1	31,0	34,4	37,9	55,1
AR-142009AL-HT	EFXE-142009AL-HT	8,5	17,1	25,7	30,0	38,5	42,8	47,1	68,5
AQ-161609AL-HT	EFXE-161609AL-HT	8,0	16,1	24,1	28,1	36,2	40,2	44,2	64,4
AR-162609AL-HT	EFXE-162609AL-HT	10,9	21,9	32,8	38,3	49,3	54,8	60,2	87,6
AR-163609AL-HT	EFXE-163609AL-HT	13,7	27,5	41,3	48,2	62,0	68,9	75,7	110,2
AR-165609AL-HT	EFXE-165609AL-HT	19,2	38,4	57,7	67,3	86,6	96,2	105,8	153,9
AQ-181810AL-HT	EFXE-181810AL-HT	9,8	19,7	29,6	34,5	44,4	49,3	54,3	79,0
AR-182810AL-HT	EFXE-182810AL-HT	13,0	26,1	39,1	45,7	58,7	65,2	71,8	104,4
AR-102311AL-HT	EFXE-102311AL-HT	9,1	18,2	27,3	31,9	41,0	45,6	50,1	73,0
AR-202311AL-HT	EFXE-202311AL-HT	13,0	26,1	39,1	45,6	58,7	65,2	71,7	104,4
AR-202318AL-HT	EFXE-202318AL-HT	17,9	35,9	53,9	62,8	80,8	89,8	98,8	143,7
AR-232811AL-HT	EFXE-232811AL-HT	15,8	31,6	47,5	55,4	71,3	79,2	87,1	126,7
AR-233311AL-HT	EFXE-233311AL-HT	17,6	35,3	52,9	61,7	79,4	88,2	97,0	141,2
AR-233318AL-HT	EFXE-233318AL-HT	23,7	47,5	71,3	83,2	107,0	118,9	130,8	190,3
AR-234011AL-HT	EFXE-234011AL-HT	20,1	40,2	60,4	70,5	90,6	100,7	110,7	161,1
AR-234023AL-HT	EFXE-234023AL-HT	31,1	62,2	93,3	108,9	140,0	155,6	171,2	249,0
AR-236011AL-HT	EFXE-236011AL-HT	27,0	54,1	81,2	94,8	121,9	135,4	148,9	216,7
AR-314011AL-HT	EFXE-314011AL-HT	24,3	48,6	72,9	85,0	109,3	121,5	133,6	194,4
AR-314014AL-HT	EFXE-314014AL-HT	27,4	54,9	82,4	96,2	123,7	137,4	151,2	219,9
AR-314018AL-HT	EFXE-314018AL-HT	31,9	63,8	95,7	111,6	143,5	159,5	175,4	255,2
AR-314023AL-HT	EFXE-314023AL-HT	36,7	73,5	110,3	128,7	165,5	183,9	202,3	294,2
AR-316011AL-HT	EFXE-316011AL-HT	32,0	64,0	96,0	112,0	144,1	160,1	176,1	256,2
AR-316018AL-HT	EFXE-316018AL-HT	41,3	82,7	124,1	144,8	186,2	206,9	227,6	331,0
AQ-606020AL-HT	EFXE-606020AL-HT	64,5	129,1	193,7	226,0	290,5	322,8	355,1	516,6

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Enclosure types (aluminium)		Maximum power dissipation (W) – Tamb. up to **55**°C							
		INTERNAL TEMP.65°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)	INTERNAL TEMP.130°C (T4/T135°C)
AQ-080806AL-HT	EFXE-080806AL-HT	2,6	3,9	6,5	7,8	10,4	11,7	13,0	19,5
AR-081306AL-HT	EFXE-081306AL-HT	3,5	5,3	8,8	10,6	14,1	15,9	17,7	26,5
AR-081806AL-HT	EFXE-081806AL-HT	4,4	6,6	11,1	13,3	17,8	20,0	22,2	33,4
AR-082505AL-HT	EFXE-082505AL-HT	5,4	8,2	13,7	16,4	21,9	24,7	27,4	41,1
AQ-101008AL-HT	EFXE-101008AL-HT	4,3	6,5	10,8	13,0	17,4	19,6	21,7	32,6
AR-101608AL-HT	EFXE-101608AL-HT	5,7	8,6	14,4	17,3	23,1	26,0	28,9	43,3
AR-102008AL-HT	EFXE-102008AL-HT	6,7	10,0	16,7	20,1	26,8	30,2	33,5	50,3
AQ-121208AL-HT	EFXE-121208AL-HT	5,4	8,1	13,5	16,2	21,6	24,3	27,0	40,5
AQ-121209AL-HT	EFXE-121209AL-HT	5,8	8,7	14,6	17,5	23,3	26,2	29,2	43,8
AR-122208AL-HT	EFXE-122208AL-HT	7,8	11,7	19,6	23,5	31,3	35,3	39,2	58,8
AR-122209AL-HT	EFXE-122209AL-HT	8,4	12,6	21,0	25,3	33,7	37,9	42,1	63,2
AR-123608AL-HT	EFXE-123608AL-HT	11,1	16,7	27,9	33,5	44,7	50,3	55,9	83,9
AQ-141409AL-HT	EFXE-141409AL-HT	6,8	10,3	17,2	20,6	27,5	31,0	34,4	51,7
AR-142009AL-HT	EFXE-142009AL-HT	8,5	12,8	21,4	25,7	34,2	38,5	42,8	64,3
AQ-161609AL-HT	EFXE-161609AL-HT	8,0	12,0	20,1	24,1	32,2	36,2	40,2	60,4
AR-162609AL-HT	EFXE-162609AL-HT	10,9	16,4	27,4	32,8	43,8	49,3	54,8	82,2
AR-163609AL-HT	EFXE-163609AL-HT	13,7	20,6	34,4	41,3	55,1	62,0	68,9	103,3
AR-165609AL-HT	EFXE-165609AL-HT	19,2	28,8	48,1	57,7	76,9	86,6	96,2	144,3
AQ-181810AL-HT	EFXE-181810AL-HT	9,8	14,8	24,6	29,6	39,5	44,4	49,3	74,0
AR-182810AL-HT	EFXE-182810AL-HT	13,0	19,5	32,6	39,1	52,2	58,7	65,2	97,9
AR-102311AL-HT	EFXE-102311AL-HT	9,1	13,6	22,8	27,3	36,5	41,0	45,6	68,4
AR-202311AL-HT	EFXE-202311AL-HT	13,0	19,5	32,6	39,1	52,2	58,7	65,2	97,9
AR-202318AL-HT	EFXE-202318AL-HT	17,9	26,9	44,9	53,9	71,8	80,8	89,8	134,7
AR-232811AL-HT	EFXE-232811AL-HT	15,8	23,7	39,6	47,5	63,3	71,3	79,2	118,8
AR-233311AL-HT	EFXE-233311AL-HT	17,6	26,4	44,1	52,9	70,6	79,4	88,2	132,3
AR-233318AL-HT	EFXE-233318AL-HT	23,7	35,6	59,4	71,3	95,1	107,0	118,9	178,4
AR-234011AL-HT	EFXE-234011AL-HT	20,1	30,2	50,3	60,4	80,5	90,6	100,7	151,0
AR-234023AL-HT	EFXE-234023AL-HT	31,1	46,6	77,8	93,3	124,5	140,0	155,6	233,4
AR-236011AL-HT	EFXE-236011AL-HT	27,0	40,6	67,7	81,2	108,3	121,9	135,4	203,1
AR-314011AL-HT	EFXE-314011AL-HT	24,3	36,4	60,7	72,9	97,2	109,3	121,5	182,3
AR-314014AL-HT	EFXE-314014AL-HT	27,4	41,2	68,7	82,4	109,9	123,7	137,4	206,2
AR-314018AL-HT	EFXE-314018AL-HT	31,9	47,8	79,7	95,7	127,6	143,5	159,5	239,2
AR-314023AL-HT	EFXE-314023AL-HT	36,7	55,1	91,9	110,3	147,1	165,5	183,9	275,8
AR-316011AL-HT	EFXE-316011AL-HT	32,0	48,0	80,0	96,0	128,1	144,1	160,1	240,1
AR-316018AL-HT	EFXE-316018AL-HT	41,3	62,0	103,4	124,1	165,5	186,2	206,9	310,3
AQ-606020AL-HT	EFXE-606020AL-HT	64,5	96,8	161,4	193,7	258,3	290,5	322,8	484,3

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Enclosure types (aluminium)		Maximum power dissipation (W) – Tamb. up to **60**°C						
		INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)	INTERNAL TEMP.130°C (T4/T135°C)
AQ-080806AL-HT	EFXE-080806AL-HT	2,6	5,2	6,5	9,1	10,4	11,7	18,2
AR-081306AL-HT	EFXE-081306AL-HT	3,5	7,0	8,8	12,3	14,1	15,9	24,7
AR-081806AL-HT	EFXE-081806AL-HT	4,4	8,9	11,1	15,5	17,8	20,0	31,1
AR-082505AL-HT	EFXE-082505AL-HT	5,4	10,9	13,7	19,2	21,9	24,7	38,4
AQ-101008AL-HT	EFXE-101008AL-HT	4,3	8,7	10,8	15,2	17,4	19,6	30,4
AR-101608AL-HT	EFXE-101608AL-HT	5,7	11,5	14,4	20,2	23,1	26,0	40,5
AR-102008AL-HT	EFXE-102008AL-HT	6,7	13,4	16,7	23,5	26,8	30,2	47,0
AQ-121208AL-HT	EFXE-121208AL-HT	5,4	10,8	13,5	18,9	21,6	24,3	37,8
AQ-121209AL-HT	EFXE-121209AL-HT	5,8	11,6	14,6	20,4	23,3	26,2	40,8
AR-122208AL-HT	EFXE-122208AL-HT	7,8	15,6	19,6	27,4	31,3	35,3	54,9
AR-122209AL-HT	EFXE-122209AL-HT	8,4	16,8	21,0	29,5	33,7	37,9	59,0
AR-123608AL-HT	EFXE-123608AL-HT	11,1	22,3	27,9	39,1	44,7	50,3	78,3
AQ-141409AL-HT	EFXE-141409AL-HT	6,8	13,7	17,2	24,1	27,5	31,0	48,2
AR-142009AL-HT	EFXE-142009AL-HT	8,5	17,1	21,4	30,0	34,2	38,5	60,0
AQ-161609AL-HT	EFXE-161609AL-HT	8,0	16,1	20,1	28,1	32,2	36,2	56,3
AR-162609AL-HT	EFXE-162609AL-HT	10,9	21,9	27,4	38,3	43,8	49,3	76,7
AR-163609AL-HT	EFXE-163609AL-HT	13,7	27,5	34,4	48,2	55,1	62,0	96,4
AR-165609AL-HT	EFXE-165609AL-HT	19,2	38,4	48,1	67,3	76,9	86,6	134,7
AQ-181810AL-HT	EFXE-181810AL-HT	9,8	19,7	24,6	34,5	39,5	44,4	69,1
AR-182810AL-HT	EFXE-182810AL-HT	13,0	26,1	32,6	45,7	52,2	58,7	91,4
AR-102311AL-HT	EFXE-102311AL-HT	9,1	18,2	22,8	31,9	36,5	41,0	63,8
AR-202311AL-HT	EFXE-202311AL-HT	13,0	26,1	32,6	45,6	52,2	58,7	91,3
AR-202318AL-HT	EFXE-202318AL-HT	17,9	35,9	44,9	62,8	71,8	80,8	125,7
AR-232811AL-HT	EFXE-232811AL-HT	15,8	31,6	39,6	55,4	63,3	71,3	110,9
AR-233311AL-HT	EFXE-233311AL-HT	17,6	35,3	44,1	61,7	70,6	79,4	123,5
AR-233318AL-HT	EFXE-233318AL-HT	23,7	47,5	59,4	83,2	95,1	107,0	166,5
AR-234011AL-HT	EFXE-234011AL-HT	20,1	40,2	50,3	70,5	80,5	90,6	141,0
AR-234023AL-HT	EFXE-234023AL-HT	31,1	62,2	77,8	108,9	124,5	140,0	217,9
AR-236011AL-HT	EFXE-236011AL-HT	27,0	54,1	67,7	94,8	108,3	121,9	189,6
AR-314011AL-HT	EFXE-314011AL-HT	24,3	48,6	60,7	85,0	97,2	109,3	170,1
AR-314014AL-HT	EFXE-314014AL-HT	27,4	54,9	68,7	96,2	109,9	123,7	192,4
AR-314018AL-HT	EFXE-314018AL-HT	31,9	63,8	79,7	111,6	127,6	143,5	223,3
AR-314023AL-HT	EFXE-314023AL-HT	36,7	73,5	91,9	128,7	147,1	165,5	257,4
AR-316011AL-HT	EFXE-316011AL-HT	32,0	64,0	80,0	112,0	128,1	144,1	224,1
AR-316018AL-HT	EFXE-316018AL-HT	41,3	82,7	103,4	144,8	165,5	186,2	289,6
AQ-606020AL-HT	EFXE-606020AL-HT	64,5	129,1	161,4	226,0	258,3	290,5	452,0

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Enclosure types (aluminium)		Maximum power dissipation (W) Tamb. up to **95**°C		
		INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)	INTERNAL TEMP.130°C (T4/T135°C)
AQ-080806AL-HT	EFXE-080806AL-HT	1,3	2,6	9,1
AR-081306AL-HT	EFXE-081306AL-HT	1,7	3,5	12,3
AR-081806AL-HT	EFXE-081806AL-HT	2,2	4,4	15,5
AR-082505AL-HT	EFXE-082505AL-HT	2,7	5,4	19,2
AQ-101008AL-HT	EFXE-101008AL-HT	2,1	4,3	15,2
AR-101608AL-HT	EFXE-101608AL-HT	2,8	5,7	20,2
AR-102008AL-HT	EFXE-102008AL-HT	3,3	6,7	23,5
AQ-121208AL-HT	EFXE-121208AL-HT	2,7	5,4	18,9
AQ-121209AL-HT	EFXE-121209AL-HT	2,9	5,8	20,4
AR-122208AL-HT	EFXE-122208AL-HT	3,9	7,8	27,4
AR-122209AL-HT	EFXE-122209AL-HT	4,2	8,4	29,5
AR-123608AL-HT	EFXE-123608AL-HT	5,5	11,1	39,1
AQ-141409AL-HT	EFXE-141409AL-HT	3,4	6,8	24,1
AR-142009AL-HT	EFXE-142009AL-HT	4,2	8,5	30,0
AQ-161609AL-HT	EFXE-161609AL-HT	4,0	8,0	28,1
AR-162609AL-HT	EFXE-162609AL-HT	5,4	10,9	38,3
AR-163609AL-HT	EFXE-163609AL-HT	6,8	13,7	48,2
AR-165609AL-HT	EFXE-165609AL-HT	9,6	19,2	67,3
AQ-181810AL-HT	EFXE-181810AL-HT	4,9	9,8	34,5
AR-182810AL-HT	EFXE-182810AL-HT	6,5	13,0	45,7
AR-102311AL-HT	EFXE-102311AL-HT	4,5	9,1	31,9
AR-202311AL-HT	EFXE-202311AL-HT	6,5	13,0	45,6
AR-202318AL-HT	EFXE-202318AL-HT	8,9	17,9	62,8
AR-232811AL-HT	EFXE-232811AL-HT	7,9	15,8	55,4
AR-233311AL-HT	EFXE-233311AL-HT	8,8	17,6	61,7
AR-233318AL-HT	EFXE-233318AL-HT	11,8	23,7	83,2
AR-234011AL-HT	EFXE-234011AL-HT	10,0	20,1	70,5
AR-234023AL-HT	EFXE-234023AL-HT	15,5	31,1	108,9
AR-236011AL-HT	EFXE-236011AL-HT	13,5	27,0	94,8
AR-314011AL-HT	EFXE-314011AL-HT	12,1	24,3	85,0
AR-314014AL-HT	EFXE-314014AL-HT	13,7	27,4	96,2
AR-314018AL-HT	EFXE-314018AL-HT	15,9	31,9	111,6
AR-314023AL-HT	EFXE-314023AL-HT	18,3	36,7	128,7
AR-316011AL-HT	EFXE-316011AL-HT	16,0	32,0	112,0
AR-316018AL-HT	EFXE-316018AL-HT	20,6	41,3	144,8
AQ-606020AL-HT	EFXE-606020AL-HT	32,2	64,5	226,0

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Power dissipation – Glass fiber reinforced polyester resin enclosures

Enclosure types (polyester)		Maximum power dissipation (W) – Tamb. up to **40**°C						
		INTERNAL TEMP.60°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
AQ-080806P	EFE-080806	3,4	5,2	6,9	7,8	9,5	10,4	11,3
AQ-080808P	EFE-080808	4,5	6,8	9,1	10,2	12,5	13,6	14,7
AR-081106P	EFE-081106	4,2	6,4	8,5	9,6	11,7	12,8	13,8
AR-081606P	EFE-081606	5,7	8,6	11,5	13,0	15,9	17,3	18,8
AR-081906P	EFE-081906	6,4	9,6	12,8	14,4	17,6	19,2	20,8
AQ-121209P	EFE-121209	7,9	11,9	15,9	17,9	21,9	23,9	25,9
AR-122209P	EFE-122209	10,8	16,2	21,6	24,3	29,7	32,4	35,1
AQ-161609P	EFE-161609	10,3	15,5	20,7	23,3	28,5	31,1	33,7
AR-162609P	EFE-162609	13,4	20,1	26,8	30,1	36,8	40,2	43,5
AR-163609P	EFE-163609	16,2	24,3	32,4	36,4	44,5	48,6	52,6
AQ-252612P	EFE-252612	18,8	28,2	37,6	42,3	51,7	56,4	61,1
AQ-252616P	EFE-252616	21,7	32,6	43,5	49,0	59,9	65,3	70,8
AR-254012P	EFE-254012	23,9	35,9	47,9	53,9	65,9	71,8	77,8
AR-254016P	EFE-254016	27,4	41,2	54,9	61,8	75,6	82,4	89,3
AR-256012P	EFE-256012	29,0	43,5	58,0	65,3	79,8	87,1	94,3
AQ-414012P	EFE-414012	29,1	43,6	58,2	65,5	80,0	87,3	94,6
AQ-414016P	EFE-414016	32,9	49,4	65,9	74,1	90,6	98,8	107,0

Enclosure types (polyester)		Maximum power dissipation (W) – Tamb. up to **50**°C						
		INTERNAL TEMP.60°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
AQ-080806P	EFE-080806	1,7	3,4	5,2	6,0	7,8	8,7	9,5
AQ-080808P	EFE-080808	2,2	4,5	6,8	7,9	10,2	11,3	12,5
AR-081106P	EFE-081106	2,1	4,2	6,4	7,4	9,6	10,6	11,7
AR-081606P	EFE-081606	2,8	5,7	8,6	10,1	13,0	14,4	15,9
AR-081906P	EFE-081906	3,2	6,4	9,6	11,2	14,4	16,0	17,6
AQ-121209P	EFE-121209	3,9	7,9	11,9	13,9	17,9	19,9	21,9
AR-122209P	EFE-122209	5,4	10,8	16,2	18,9	24,3	27,0	29,7
AQ-161609P	EFE-161609	5,1	10,3	15,5	18,1	23,3	25,9	28,5
AR-162609P	EFE-162609	6,7	13,4	20,1	23,4	30,1	33,5	36,8
AR-163609P	EFE-163609	8,1	16,2	24,3	28,3	36,4	40,5	44,5
AQ-252612P	EFE-252612	9,4	18,8	28,2	32,9	42,3	47,0	51,7
AQ-252616P	EFE-252616	10,8	21,7	32,6	38,1	49,0	54,4	59,9
AR-254012P	EFE-254012	11,9	23,9	35,9	41,9	53,9	59,9	65,9
AR-254016P	EFE-254016	13,7	27,4	41,2	48,1	61,8	68,7	75,6
AR-256012P	EFE-256012	14,5	29,0	43,5	50,8	65,3	72,6	79,8
AQ-414012P	EFE-414012	14,5	29,1	43,6	50,9	65,5	72,7	80,0
AQ-414016P	EFE-414016	16,4	32,9	49,4	57,6	74,1	82,3	90,6

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Enclosure types (polyester)		Maximum power dissipation (W) – Tamb. up to **55**°C						
		INTERNAL TEMP.65°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
AQ-080806P	EFE-080806	1,7	2,6	4,3	5,2	6,9	7,8	8,7
AQ-080808P	EFE-080808	2,2	3,4	5,6	6,8	9,1	10,2	11,3
AR-081106P	EFE-081106	2,1	3,2	5,3	6,4	8,5	9,6	10,6
AR-081606P	EFE-081606	2,8	4,3	7,2	8,6	11,5	13,0	14,4
AR-081906P	EFE-081906	3,2	4,8	8,0	9,6	12,8	14,4	16,0
AQ-121209P	EFE-121209	3,9	5,9	9,9	11,9	15,9	17,9	19,9
AR-122209P	EFE-122209	5,4	8,1	13,5	16,2	21,6	24,3	27,0
AQ-161609P	EFE-161609	5,1	7,7	12,9	15,5	20,7	23,3	25,9
AR-162609P	EFE-162609	6,7	10,0	16,7	20,1	26,8	30,1	33,5
AR-163609P	EFE-163609	8,1	12,1	20,2	24,3	32,4	36,4	40,5
AQ-252612P	EFE-252612	9,4	14,1	23,5	28,2	37,6	42,3	47,0
AQ-252616P	EFE-252616	10,8	16,3	27,2	32,6	43,5	49,0	54,4
AR-254012P	EFE-254012	11,9	17,9	29,9	35,9	47,9	53,9	59,9
AR-254016P	EFE-254016	13,7	20,6	34,3	41,2	54,9	61,8	68,7
AR-256012P	EFE-256012	14,5	21,7	36,3	43,5	58,0	65,3	72,6
AQ-414012P	EFE-414012	14,5	21,8	36,3	43,6	58,2	65,5	72,7
AQ-414016P	EFE-414016	16,4	24,7	41,1	49,4	65,9	74,1	82,3

Enclosure types (polyester)		Maximum power dissipation (W) – Tamb. up to **60**°C					
		INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
AQ-080806P	EFE-080806	1,7	3,4	4,3	6,0	6,9	7,8
AQ-080808P	EFE-080808	2,2	4,5	5,6	7,9	9,1	10,2
AR-081106P	EFE-081106	2,1	4,2	5,3	7,4	8,5	9,6
AR-081606P	EFE-081606	2,8	5,7	7,2	10,1	11,5	13,0
AR-081906P	EFE-081906	3,2	6,4	8,0	11,2	12,8	14,4
AQ-121209P	EFE-121209	3,9	7,9	9,9	13,9	15,9	17,9
AR-122209P	EFE-122209	5,4	10,8	13,5	18,9	21,6	24,3
AQ-161609P	EFE-161609	5,1	10,3	12,9	18,1	20,7	23,3
AR-162609P	EFE-162609	6,7	13,4	16,7	23,4	26,8	30,1
AR-163609P	EFE-163609	8,1	16,2	20,2	28,3	32,4	36,4
AQ-252612P	EFE-252612	9,4	18,8	23,5	32,9	37,6	42,3
AQ-252616P	EFE-252616	10,8	21,7	27,2	38,1	43,5	49,0
AR-254012P	EFE-254012	11,9	23,9	29,9	41,9	47,9	53,9
AR-254016P	EFE-254016	13,7	27,4	34,3	48,1	54,9	61,8
AR-256012P	EFE-256012	14,5	29,0	36,3	50,8	58,0	65,3
AQ-414012P	EFE-414012	14,5	29,1	36,3	50,9	58,2	65,5
AQ-414016P	EFE-414016	16,4	32,9	41,1	57,6	65,9	74,1

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Enclosure types (polyester)		Maximum power dissipation (W) – Tamb. up to **95**°C	
		INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
AQ-080806P	EFE-080806	0,8	1,7
AQ-080808P	EFE-080808	1,1	2,2
AR-081106P	EFE-081106	1,0	2,1
AR-081606P	EFE-081606	1,4	2,8
AR-081906P	EFE-081906	1,6	3,2
AQ-121209P	EFE-121209	1,9	3,9
AR-122209P	EFE-122209	2,7	5,4
AQ-161609P	EFE-161609	2,5	5,1
AR-162609P	EFE-162609	3,3	6,7
AR-163609P	EFE-163609	4,0	8,1
AQ-252612P	EFE-252612	4,7	9,4
AQ-252616P	EFE-252616	5,4	10,8
AR-254012P	EFE-254012	5,9	11,9
AR-254016P	EFE-254016	6,8	13,7
AR-256012P	EFE-256012	7,2	14,5
AQ-414012P	EFE-414012	7,2	14,5
AQ-414016P	EFE-414016	8,2	16,4

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Power dissipation – Aluminum alloy enclosures

Enclosure types (aluminium)		Maximum power dissipation (W) – Tamb. up to **40**°C						
		INTERNAL TEMP.60°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
AQ-080806AL	EFXE-080806AL	5,2	7,8	10,4	11,7	14,3	15,6	16,9
AR-081306AL	EFXE-081306AL	7,0	10,6	14,1	15,9	19,4	21,2	23,0
AR-081806AL	EFXE-081806AL	8,9	13,3	17,8	20,0	24,5	26,7	28,9
AR-081808AL	EFXE-081808AL	11,0	16,5	22,1	24,8	30,4	33,1	35,9
AR-082505AL	EFXE-082505AL	10,7	16,1	21,4	24,1	29,5	32,2	34,8
AR-082508AL	EFXE-082508AL	14,2	21,4	28,5	32,1	39,2	42,8	46,4
AQ-101008AL	EFXE-101008AL	8,7	13,0	17,4	19,6	23,9	26,1	28,3
AR-101508AL	EFXE-101508AL	11,1	16,6	22,2	24,9	30,5	33,3	36,0
AR-101608AL	EFXE-101608AL	11,5	17,3	23,1	26,0	31,8	34,7	37,6
AR-102008AL	EFXE-102008AL	13,4	20,1	26,8	30,2	36,9	40,3	43,6
AQ-121208AL	EFXE-121208AL	10,8	16,2	21,6	24,3	29,7	32,4	35,1
AR-122209AL	EFXE-122209AL	16,8	25,3	33,7	37,9	46,3	50,6	54,8
AQ-141409AL	EFXE-141409AL	13,7	20,6	27,5	31,0	37,9	41,3	44,8
AR-142009AL	EFXE-142009AL	17,1	25,7	34,2	38,5	47,1	51,4	55,7
AQ-161609AL	EFXE-161609AL	17,2	25,8	34,4	38,7	47,3	51,6	55,9
AR-162410AL	EFXE-162410AL	22,1	33,1	44,2	49,7	60,8	66,3	71,8
AR-162609AL	EFXE-162609AL	21,9	32,8	43,8	49,3	60,2	65,7	71,2
AQ-181810AL	EFXE-181810AL	19,7	29,6	39,5	44,4	54,3	59,2	64,2
AR-182810AL	EFXE-182810AL	26,1	39,1	52,2	58,7	71,8	78,3	84,8
AR-202311AL	EFXE-202311AL	25,8	38,7	51,6	58,0	71,0	77,4	83,9
AR-202318AL	EFXE-202318AL	35,5	53,3	71,1	80,0	97,8	106,7	115,6
AR-232811AL	EFXE-232811AL	31,6	47,5	63,3	71,3	87,1	95,0	103,0
AR-233312AL	EFXE-233312AL	37,0	55,6	74,1	83,4	101,9	111,2	120,5
AR-233318AL	EFXE-233318AL	47,5	71,3	95,1	107,0	130,8	142,7	154,6

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Enclosure types (aluminium)		Maximum power dissipation (W) – Tamb. up to **50**°C						
		INTERNAL TEMP.60°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
AQ-080806AL	EFXE-080806AL	2,6	5,2	7,8	9,1	11,7	13,0	14,3
AR-081306AL	EFXE-081306AL	3,5	7,0	10,6	12,3	15,9	17,7	19,4
AR-081806AL	EFXE-081806AL	4,4	8,9	13,3	15,5	20,0	22,2	24,5
AR-081808AL	EFXE-081808AL	5,5	11,0	16,5	19,3	24,8	27,6	30,4
AR-082505AL	EFXE-082505AL	5,3	10,7	16,1	18,7	24,1	26,8	29,5
AR-082508AL	EFXE-082508AL	7,1	14,2	21,4	24,9	32,1	35,7	39,2
AQ-101008AL	EFXE-101008AL	4,3	8,7	13,0	15,2	19,6	21,7	23,9
AR-101508AL	EFXE-101508AL	5,5	11,1	16,6	19,4	24,9	27,7	30,5
AR-101608AL	EFXE-101608AL	5,7	11,5	17,3	20,2	26,0	28,9	31,8
AR-102008AL	EFXE-102008AL	6,7	13,4	20,1	23,5	30,2	33,5	36,9
AQ-121208AL	EFXE-121208AL	5,4	10,8	16,2	18,9	24,3	27,0	29,7
AR-122209AL	EFXE-122209AL	8,4	16,8	25,3	29,5	37,9	42,1	46,3
AQ-141409AL	EFXE-141409AL	6,8	13,7	20,6	24,1	31,0	34,4	37,9
AR-142009AL	EFXE-142009AL	8,5	17,1	25,7	30,0	38,5	42,8	47,1
AQ-161609AL	EFXE-161609AL	8,6	17,2	25,8	30,1	38,7	43,0	47,3
AR-162410AL	EFXE-162410AL	11,0	22,1	33,1	38,7	49,7	55,3	60,8
AR-162609AL	EFXE-162609AL	10,9	21,9	32,8	38,3	49,3	54,8	60,2
AQ-181810AL	EFXE-181810AL	9,8	19,7	29,6	34,5	44,4	49,3	54,3
AR-182810AL	EFXE-182810AL	13,0	26,1	39,1	45,7	58,7	65,2	71,8
AR-202311AL	EFXE-202311AL	12,9	25,8	38,7	45,1	58,0	64,5	71,0
AR-202318AL	EFXE-202318AL	17,7	35,5	53,3	62,2	80,0	88,9	97,8
AR-232811AL	EFXE-232811AL	15,8	31,6	47,5	55,4	71,3	79,2	87,1
AR-233312AL	EFXE-233312AL	18,5	37,0	55,6	64,8	83,4	92,7	101,9
AR-233318AL	EFXE-233318AL	23,7	47,5	71,3	83,2	107,0	118,9	130,8

Enclosure types (aluminium)		Maximum power dissipation (W) – Tamb. up to **55**°C						
		INTERNAL TEMP.65°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
AQ-080806AL	EFXE-080806AL	2,6	3,9	6,5	7,8	10,4	11,7	13,0
AR-081306AL	EFXE-081306AL	3,5	5,3	8,8	10,6	14,1	15,9	17,7
AR-081806AL	EFXE-081806AL	4,4	6,6	11,1	13,3	17,8	20,0	22,2
AR-081808AL	EFXE-081808AL	5,5	8,2	13,8	16,5	22,1	24,8	27,6
AR-082505AL	EFXE-082505AL	5,3	8,0	13,4	16,1	21,4	24,1	26,8
AR-082508AL	EFXE-082508AL	7,1	10,7	17,8	21,4	28,5	32,1	35,7
AQ-101008AL	EFXE-101008AL	4,3	6,5	10,8	13,0	17,4	19,6	21,7
AR-101508AL	EFXE-101508AL	5,5	8,3	13,8	16,6	22,2	24,9	27,7
AR-101608AL	EFXE-101608AL	5,7	8,6	14,4	17,3	23,1	26,0	28,9
AR-102008AL	EFXE-102008AL	6,7	10,0	16,7	20,1	26,8	30,2	33,5
AQ-121208AL	EFXE-121208AL	5,4	8,1	13,5	16,2	21,6	24,3	27,0
AR-122209AL	EFXE-122209AL	8,4	12,6	21,0	25,3	33,7	37,9	42,1
AQ-141409AL	EFXE-141409AL	6,8	10,3	17,2	20,6	27,5	31,0	34,4
AR-142009AL	EFXE-142009AL	8,5	12,8	21,4	25,7	34,2	38,5	42,8
AQ-161609AL	EFXE-161609AL	8,6	12,9	21,5	25,8	34,4	38,7	43,0
AR-162410AL	EFXE-162410AL	11,0	16,5	27,6	33,1	44,2	49,7	55,3
AR-162609AL	EFXE-162609AL	10,9	16,4	27,4	32,8	43,8	49,3	54,8
AQ-181810AL	EFXE-181810AL	9,8	14,8	24,6	29,6	39,5	44,4	49,3
AR-182810AL	EFXE-182810AL	13,0	19,5	32,6	39,1	52,2	58,7	65,2
AR-202311AL	EFXE-202311AL	12,9	19,3	32,2	38,7	51,6	58,0	64,5
AR-202318AL	EFXE-202318AL	17,7	26,6	44,4	53,3	71,1	80,0	88,9
AR-232811AL	EFXE-232811AL	15,8	23,7	39,6	47,5	63,3	71,3	79,2
AR-233312AL	EFXE-233312AL	18,5	27,8	46,3	55,6	74,1	83,4	92,7
AR-233318AL	EFXE-233318AL	23,7	35,6	59,4	71,3	95,1	107,0	118,9

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Enclosure types (aluminium)		Maximum power dissipation (W) – Tamb. up to **60**°C					
		INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
AQ-080806AL	EFXE-080806AL	2,6	5,2	6,5	9,1	10,4	11,7
AR-081306AL	EFXE-081306AL	3,5	7,0	8,8	12,3	14,1	15,9
AR-081806AL	EFXE-081806AL	4,4	8,9	11,1	15,5	17,8	20,0
AR-081808AL	EFXE-081808AL	5,5	11,0	13,8	19,3	22,1	24,8
AR-082505AL	EFXE-082505AL	5,3	10,7	13,4	18,7	21,4	24,1
AR-082508AL	EFXE-082508AL	7,1	14,2	17,8	24,9	28,5	32,1
AQ-101008AL	EFXE-101008AL	4,3	8,7	10,8	15,2	17,4	19,6
AR-101508AL	EFXE-101508AL	5,5	11,1	13,8	19,4	22,2	24,9
AR-101608AL	EFXE-101608AL	5,7	11,5	14,4	20,2	23,1	26,0
AR-102008AL	EFXE-102008AL	6,7	13,4	16,7	23,5	26,8	30,2
AQ-121208AL	EFXE-121208AL	5,4	10,8	13,5	18,9	21,6	24,3
AR-122209AL	EFXE-122209AL	8,4	16,8	21,0	29,5	33,7	37,9
AQ-141409AL	EFXE-141409AL	6,8	13,7	17,2	24,1	27,5	31,0
AR-142009AL	EFXE-142009AL	8,5	17,1	21,4	30,0	34,2	38,5
AQ-161609AL	EFXE-161609AL	8,6	17,2	21,5	30,1	34,4	38,7
AR-162410AL	EFXE-162410AL	11,0	22,1	27,6	38,7	44,2	49,7
AR-162609AL	EFXE-162609AL	10,9	21,9	27,4	38,3	43,8	49,3
AQ-181810AL	EFXE-181810AL	9,8	19,7	24,6	34,5	39,5	44,4
AR-182810AL	EFXE-182810AL	13,0	26,1	32,6	45,7	52,2	58,7
AR-202311AL	EFXE-202311AL	12,9	25,8	32,2	45,1	51,6	58,0
AR-202318AL	EFXE-202318AL	17,7	35,5	44,4	62,2	71,1	80,0
AR-232811AL	EFXE-232811AL	15,8	31,6	39,6	55,4	63,3	71,3
AR-233312AL	EFXE-233312AL	18,5	37,0	46,3	64,8	74,1	83,4
AR-233318AL	EFXE-233318AL	23,7	47,5	59,4	83,2	95,1	107,0

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Enclosure types (aluminium)		Maximum power dissipation (W) – Tamb. up to **95**°C	
		INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
AQ-080806AL	EFXE-080806AL	1,3	2,6
AR-081306AL	EFXE-081306AL	1,7	3,5
AR-081806AL	EFXE-081806AL	2,2	4,4
AR-081808AL	EFXE-081808AL	2,7	5,5
AR-082505AL	EFXE-082505AL	2,6	5,3
AR-082508AL	EFXE-082508AL	3,5	7,1
AQ-101008AL	EFXE-101008AL	2,1	4,3
AR-101508AL	EFXE-101508AL	2,7	5,5
AR-101608AL	EFXE-101608AL	2,8	5,7
AR-102008AL	EFXE-102008AL	3,3	6,7
AQ-121208AL	EFXE-121208AL	2,7	5,4
AR-122209AL	EFXE-122209AL	4,2	8,4
AQ-141409AL	EFXE-141409AL	3,4	6,8
AR-142009AL	EFXE-142009AL	4,2	8,5
AQ-161609AL	EFXE-161609AL	4,3	8,6
AR-162410AL	EFXE-162410AL	5,5	11,0
AR-162609AL	EFXE-162609AL	5,4	10,9
AQ-181810AL	EFXE-181810AL	4,9	9,8
AR-182810AL	EFXE-182810AL	6,5	13,0
AR-202311AL	EFXE-202311AL	6,4	12,9
AR-202318AL	EFXE-202318AL	8,8	17,7
AR-232811AL	EFXE-232811AL	7,9	15,8
AR-233312AL	EFXE-233312AL	9,2	18,5
AR-233318AL	EFXE-233318AL	11,8	23,7

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Power dissipation – Stainless steel enclosures SB series

Enclosure types (stainless steel)		Maximum power dissipation (W) – Tamb. up to **40**°C						
		INTERNAL TEMP.60°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
SB-101210	EFXE-101210SB	5,5	8,3	11,1	12,5	15,3	16,7	18,1
SB-151510	EFXE-151510SB	8,0	12,0	16,0	18,0	22,0	24,0	26,1
SB-142013	EFXE-142013SB	10,4	15,7	20,9	23,5	28,8	31,4	34,0
SB-202010	EFXE-202010SB	10,7	16,1	21,4	24,1	29,5	32,2	34,8
SB-202016	EFXE-202016SB	13,9	20,8	27,8	31,3	38,3	41,7	45,2
SB-202713	EFXE-202713SB	14,4	21,6	28,9	32,5	39,7	43,3	46,9
SB-272713	EFXE-272713SB	16,7	25,1	33,5	37,7	46,0	50,2	54,4
SB-203016	EFXE-203016SB	17,1	25,7	34,3	38,6	47,2	51,4	55,7
SB-273513	EFXE-273513SB	19,2	28,9	38,5	43,3	53,0	57,8	62,6
SB-282816	EFXE-282816SB	19,3	29,0	38,7	43,6	53,3	58,1	63,0
SB-204016	EFXE-204016SB	20,2	30,3	40,4	45,5	55,6	60,6	65,7
SB-353516	EFXE-353516SB	24,4	36,6	48,8	54,9	67,1	73,2	79,3
SB-282827	EFXE-282827SB	26,2	39,3	52,5	59,0	72,2	78,7	85,3
SB-355016	EFXE-355016SB	29,7	44,5	59,4	66,8	81,7	89,1	96,6
SB-383816	EFXE-383816SB	26,6	39,9	53,2	59,8	73,1	79,8	86,5
SB-384516	EFXE-384516SB	29,1	43,7	58,3	65,6	80,2	87,5	94,8
SB-385716	EFXE-385716SB	33,4	50,1	66,8	75,2	91,9	100,3	108,7
SB-505016	EFXE-505016SB	35,8	53,8	71,7	80,7	98,6	107,6	116,6
SB-383827	EFXE-383827SB	35,1	52,7	70,2	79,0	96,6	105,4	114,2
SB-575716	EFXE-575716SB	41,5	62,3	83,1	93,5	114,3	124,7	135,1
SB-577620	EFXE-577620SB	53,9	80,9	107,9	121,3	148,3	161,8	175,3
SB-575730	EFXE-575730SB	55,8	83,7	111,6	125,6	153,5	167,5	181,4
SB-769520	EFXE-769520SB	72,2	108,3	144,4	162,4	198,5	216,6	234,6
SB-1258040	EFXE-1258040SB	72,2	108,3	144,4	162,4	198,5	216,6	234,6

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Enclosure types (Stainless steel)		Maximum power dissipation (W) – Tamb. up to **50**°C						
		INTERNAL TEMP.60°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
SB-101210	EFXE-101210SB	2,7	5,5	8,3	9,7	12,5	13,9	15,3
SB-151510	EFXE-151510SB	4,0	8,0	12,0	14,0	18,0	20,0	22,0
SB-142013	EFXE-142013SB	5,2	10,4	15,7	18,3	23,5	26,2	28,8
SB-202010	EFXE-202010SB	5,3	10,7	16,1	18,7	24,1	26,8	29,5
SB-202016	EFXE-202016SB	6,9	13,9	20,8	24,3	31,3	34,8	38,3
SB-202713	EFXE-202713SB	7,2	14,4	21,6	25,2	32,5	36,1	39,7
SB-272713	EFXE-272713SB	8,3	16,7	25,1	29,3	37,7	41,8	46,0
SB-203016	EFXE-203016SB	8,5	17,1	25,7	30,0	38,6	42,9	47,2
SB-273513	EFXE-273513SB	9,6	19,2	28,9	33,7	43,3	48,2	53,0
SB-282816	EFXE-282816SB	9,6	19,3	29,0	33,9	43,6	48,4	53,3
SB-204016	EFXE-204016SB	10,1	20,2	30,3	35,4	45,5	50,5	55,6
SB-353516	EFXE-353516SB	12,2	24,4	36,6	42,7	54,9	61,0	67,1
SB-282827	EFXE-282827SB	13,1	26,2	39,3	45,9	59,0	65,6	72,2
SB-355016	EFXE-355016SB	14,8	29,7	44,5	52,0	66,8	74,3	81,7
SB-383816	EFXE-383816SB	13,3	26,6	39,9	46,5	59,8	66,5	73,1
SB-384516	EFXE-384516SB	14,5	29,1	43,7	51,0	65,6	72,9	80,2
SB-385716	EFXE-385716SB	16,7	33,4	50,1	58,5	75,2	83,6	91,9
SB-505016	EFXE-505016SB	17,9	35,8	53,8	62,7	80,7	89,7	98,6
SB-383827	EFXE-383827SB	17,5	35,1	52,7	61,4	79,0	87,8	96,6
SB-575716	EFXE-575716SB	20,7	41,5	62,3	72,7	93,5	103,9	114,3
SB-577620	EFXE-577620SB	26,9	53,9	80,9	94,4	121,3	134,8	148,3
SB-575730	EFXE-575730SB	27,9	55,8	83,7	97,7	125,6	139,5	153,5
SB-769520	EFXE-769520SB	36,1	72,2	108,3	126,3	162,4	180,5	198,5
SB-1258040	EFXE-1258040SB	36,1	72,2	108,3	126,3	162,4	180,5	198,5

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Enclosure types (Stainless steel)		Maximum power dissipation (W) – Tamb. up to **55**°C						
		INTERNAL TEMP.65°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
SB-101210	EFXE-101210SB	2,7	4,1	6,9	8,3	11,1	12,5	13,9
SB-151510	EFXE-151510SB	4,0	6,0	10,0	12,0	16,0	18,0	20,0
SB-142013	EFXE-142013SB	5,2	7,8	13,1	15,7	20,9	23,5	26,2
SB-202010	EFXE-202010SB	5,3	8,0	13,4	16,1	21,4	24,1	26,8
SB-202016	EFXE-202016SB	6,9	10,4	17,4	20,8	27,8	31,3	34,8
SB-202713	EFXE-202713SB	7,2	10,8	18,0	21,6	28,9	32,5	36,1
SB-272713	EFXE-272713SB	8,3	12,5	20,9	25,1	33,5	37,7	41,8
SB-203016	EFXE-203016SB	8,5	12,8	21,4	25,7	34,3	38,6	42,9
SB-273513	EFXE-273513SB	9,6	14,4	24,1	28,9	38,5	43,3	48,2
SB-282816	EFXE-282816SB	9,6	14,5	24,2	29,0	38,7	43,6	48,4
SB-204016	EFXE-204016SB	10,1	15,1	25,2	30,3	40,4	45,5	50,5
SB-353516	EFXE-353516SB	12,2	18,3	30,5	36,6	48,8	54,9	61,0
SB-282827	EFXE-282827SB	13,1	19,6	32,8	39,3	52,5	59,0	65,6
SB-355016	EFXE-355016SB	14,8	22,2	37,1	44,5	59,4	66,8	74,3
SB-383816	EFXE-383816SB	13,3	19,9	33,2	39,9	53,2	59,8	66,5
SB-384516	EFXE-384516SB	14,5	21,8	36,4	43,7	58,3	65,6	72,9
SB-385716	EFXE-385716SB	16,7	25,0	41,8	50,1	66,8	75,2	83,6
SB-505016	EFXE-505016SB	17,9	26,9	44,8	53,8	71,7	80,7	89,7
SB-383827	EFXE-383827SB	17,5	26,3	43,9	52,7	70,2	79,0	87,8
SB-575716	EFXE-575716SB	20,7	31,1	51,9	62,3	83,1	93,5	103,9
SB-577620	EFXE-577620SB	26,9	40,4	67,4	80,9	107,9	121,3	134,8
SB-575730	EFXE-575730SB	27,9	41,8	69,7	83,7	111,6	125,6	139,5
SB-769520	EFXE-769520SB	36,1	54,1	90,2	108,3	144,4	162,4	180,5
SB-1258040	EFXE-1258040SB	36,1	54,1	90,2	108,3	144,4	162,4	180,5

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Enclosure types (Stainless steel)		Maximum power dissipation (W) – Tamb. up to **60**°C					
		INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
SB-101210	EFXE-101210SB	2,7	5,5	6,9	9,7	11,1	12,5
SB-151510	EFXE-151510SB	4,0	8,0	10,0	14,0	16,0	18,0
SB-142013	EFXE-142013SB	5,2	10,4	13,1	18,3	20,9	23,5
SB-202010	EFXE-202010SB	5,3	10,7	13,4	18,7	21,4	24,1
SB-202016	EFXE-202016SB	6,9	13,9	17,4	24,3	27,8	31,3
SB-202713	EFXE-202713SB	7,2	14,4	18,0	25,2	28,9	32,5
SB-272713	EFXE-272713SB	8,3	16,7	20,9	29,3	33,5	37,7
SB-203016	EFXE-203016SB	8,5	17,1	21,4	30,0	34,3	38,6
SB-273513	EFXE-273513SB	9,6	19,2	24,1	33,7	38,5	43,3
SB-282816	EFXE-282816SB	9,6	19,3	24,2	33,9	38,7	43,6
SB-204016	EFXE-204016SB	10,1	20,2	25,2	35,4	40,4	45,5
SB-353516	EFXE-353516SB	12,2	24,4	30,5	42,7	48,8	54,9
SB-282827	EFXE-282827SB	13,1	26,2	32,8	45,9	52,5	59,0
SB-355016	EFXE-355016SB	14,8	29,7	37,1	52,0	59,4	66,8
SB-383816	EFXE-383816SB	13,3	26,6	33,2	46,5	53,2	59,8
SB-384516	EFXE-384516SB	14,5	29,1	36,4	51,0	58,3	65,6
SB-385716	EFXE-385716SB	16,7	33,4	41,8	58,5	66,8	75,2
SB-505016	EFXE-505016SB	17,9	35,8	44,8	62,7	71,7	80,7
SB-383827	EFXE-383827SB	17,5	35,1	43,9	61,4	70,2	79,0
SB-575716	EFXE-575716SB	20,7	41,5	51,9	72,7	83,1	93,5
SB-577620	EFXE-577620SB	26,9	53,9	67,4	94,4	107,9	121,3
SB-575730	EFXE-575730SB	27,9	55,8	69,7	97,7	111,6	125,6
SB-769520	EFXE-769520SB	36,1	72,2	90,2	126,3	144,4	162,4
SB-1258040	EFXE-1258040SB	36,1	72,2	90,2	126,3	144,4	162,4

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Enclosure types (Stainless steel)		Maximum power dissipation (W) – Tamb. up to **95**°C	
		INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
SB-101210	EFXE-101210SB	1,3	2,7
SB-151510	EFXE-151510SB	2,0	4,0
SB-142013	EFXE-142013SB	2,6	5,2
SB-202010	EFXE-202010SB	2,6	5,3
SB-202016	EFXE-202016SB	3,4	6,9
SB-202713	EFXE-202713SB	3,6	7,2
SB-272713	EFXE-272713SB	4,1	8,3
SB-203016	EFXE-203016SB	4,2	8,5
SB-273513	EFXE-273513SB	4,8	9,6
SB-282816	EFXE-282816SB	4,8	9,6
SB-204016	EFXE-204016SB	5,0	10,1
SB-353516	EFXE-353516SB	6,1	12,2
SB-282827	EFXE-282827SB	6,5	13,1
SB-355016	EFXE-355016SB	7,4	14,8
SB-383816	EFXE-383816SB	6,6	13,3
SB-384516	EFXE-384516SB	7,2	14,5
SB-385716	EFXE-385716SB	8,3	16,7
SB-505016	EFXE-505016SB	8,9	17,9
SB-383827	EFXE-383827SB	8,7	17,5
SB-575716	EFXE-575716SB	10,3	20,7
SB-577620	EFXE-577620SB	13,4	26,9
SB-575730	EFXE-575730SB	13,9	27,9
SB-769520	EFXE-769520SB	18,0	36,1
SB-1258040	EFXE-1258040SB	18,0	36,1

Power dissipation – Stainless steel enclosures ST series

Enclosure types (Stainless steel)		Maximum power dissipation (W) – Tamb. up to **40**°C						
		INTERNAL TEMP.60°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
ST-101210	EFXE-101210ST	5,5	8,3	11,1	12,5	15,3	16,7	18,1
ST-151510	EFXE-151510ST	8,0	12,0	16,0	18,0	22,0	24,0	26,1
ST-142013	EFXE-142013ST	10,4	15,7	20,9	23,5	28,8	31,4	34,0
ST-202010	EFXE-202010ST	10,7	16,1	21,4	24,1	29,5	32,2	34,8
ST-202016	EFXE-202016ST	13,9	20,8	27,8	31,3	38,3	41,7	45,2
ST-202713	EFXE-202713ST	14,4	21,6	28,9	32,5	39,7	43,3	46,9
ST-272713	EFXE-272713ST	16,7	25,1	33,5	37,7	46,0	50,2	54,4
ST-203016	EFXE-203016ST	17,1	25,7	34,3	38,6	47,2	51,4	55,7
ST-273513	EFXE-273513ST	19,2	28,9	38,5	43,3	53,0	57,8	62,6
ST-282816	EFXE-282816ST	19,3	29,0	38,7	43,6	53,3	58,1	63,0
ST-204016	EFXE-204016ST	20,2	30,3	40,4	45,5	55,6	60,6	65,7
ST-353516	EFXE-353516ST	24,4	36,6	48,8	54,9	67,1	73,2	79,3
ST-282827	EFXE-282827ST	26,2	39,3	52,5	59,0	72,2	78,7	85,3
ST-355016	EFXE-355016ST	29,7	44,5	59,4	66,8	81,7	89,1	96,6
ST-383816	EFXE-383816ST	26,6	39,9	53,2	59,8	73,1	79,8	86,5
ST-384516	EFXE-384516ST	29,1	43,7	58,3	65,6	80,2	87,5	94,8
ST-385716	EFXE-385716ST	33,4	50,1	66,8	75,2	91,9	100,3	108,7
ST-505016	EFXE-505016ST	35,8	53,8	71,7	80,7	98,6	107,6	116,6
ST-383827	EFXE-383827ST	35,1	52,7	70,2	79,0	96,6	105,4	114,2
ST-575716	EFXE-575716ST	41,5	62,3	83,1	93,5	114,3	124,7	135,1
ST-577620	EFXE-577620ST	53,9	80,9	107,9	121,3	148,3	161,8	175,3
ST-575730	EFXE-575730ST	55,8	83,7	111,6	125,6	153,5	167,5	181,4
ST-769520	EFXE-769520ST	72,2	108,3	144,4	162,4	198,5	216,6	234,6
ST-1258040	EFXE-1258040ST	72,2	108,3	144,4	162,4	198,5	216,6	234,6

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Enclosure types (Stainless steel)		Maximum power dissipation (W) – Tamb. up to **50**°C						
		INTERNAL TEMP.60°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
ST-101210	EFXE-101210ST	2,7	5,5	8,3	9,7	12,5	13,9	15,3
ST-151510	EFXE-151510ST	4,0	8,0	12,0	14,0	18,0	20,0	22,0
ST-142013	EFXE-142013ST	5,2	10,4	15,7	18,3	23,5	26,2	28,8
ST-202010	EFXE-202010ST	5,3	10,7	16,1	18,7	24,1	26,8	29,5
ST-202016	EFXE-202016ST	6,9	13,9	20,8	24,3	31,3	34,8	38,3
ST-202713	EFXE-202713ST	7,2	14,4	21,6	25,2	32,5	36,1	39,7
ST-272713	EFXE-272713ST	8,3	16,7	25,1	29,3	37,7	41,8	46,0
ST-203016	EFXE-203016ST	8,5	17,1	25,7	30,0	38,6	42,9	47,2
ST-273513	EFXE-273513ST	9,6	19,2	28,9	33,7	43,3	48,2	53,0
ST-282816	EFXE-282816ST	9,6	19,3	29,0	33,9	43,6	48,4	53,3
ST-204016	EFXE-204016ST	10,1	20,2	30,3	35,4	45,5	50,5	55,6
ST-353516	EFXE-353516ST	12,2	24,4	36,6	42,7	54,9	61,0	67,1
ST-282827	EFXE-282827ST	13,1	26,2	39,3	45,9	59,0	65,6	72,2
ST-355016	EFXE-355016ST	14,8	29,7	44,5	52,0	66,8	74,3	81,7
ST-383816	EFXE-383816ST	13,3	26,6	39,9	46,5	59,8	66,5	73,1
ST-384516	EFXE-384516ST	14,5	29,1	43,7	51,0	65,6	72,9	80,2
ST-385716	EFXE-385716ST	16,7	33,4	50,1	58,5	75,2	83,6	91,9
ST-505016	EFXE-505016ST	17,9	35,8	53,8	62,7	80,7	89,7	98,6
ST-383827	EFXE-383827ST	17,5	35,1	52,7	61,4	79,0	87,8	96,6
ST-575716	EFXE-575716ST	20,7	41,5	62,3	72,7	93,5	103,9	114,3
ST-577620	EFXE-577620ST	26,9	53,9	80,9	94,4	121,3	134,8	148,3
ST-575730	EFXE-575730ST	27,9	55,8	83,7	97,7	125,6	139,5	153,5
ST-769520	EFXE-769520ST	36,1	72,2	108,3	126,3	162,4	180,5	198,5
ST-1258040	EFXE-1258040ST	36,1	72,2	108,3	126,3	162,4	180,5	198,5

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Enclosure types (Stainless steel)		Maximum power dissipation (W) – Tamb. up to **55**°C						
		INTERNAL TEMP.65°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
ST-101210	EFXE-101210ST	2,7	4,1	6,9	8,3	11,1	12,5	13,9
ST-151510	EFXE-151510ST	4,0	6,0	10,0	12,0	16,0	18,0	20,0
ST-142013	EFXE-142013ST	5,2	7,8	13,1	15,7	20,9	23,5	26,2
ST-202010	EFXE-202010ST	5,3	8,0	13,4	16,1	21,4	24,1	26,8
ST-202016	EFXE-202016ST	6,9	10,4	17,4	20,8	27,8	31,3	34,8
ST-202713	EFXE-202713ST	7,2	10,8	18,0	21,6	28,9	32,5	36,1
ST-272713	EFXE-272713ST	8,3	12,5	20,9	25,1	33,5	37,7	41,8
ST-203016	EFXE-203016ST	8,5	12,8	21,4	25,7	34,3	38,6	42,9
ST-273513	EFXE-273513ST	9,6	14,4	24,1	28,9	38,5	43,3	48,2
ST-282816	EFXE-282816ST	9,6	14,5	24,2	29,0	38,7	43,6	48,4
ST-204016	EFXE-204016ST	10,1	15,1	25,2	30,3	40,4	45,5	50,5
ST-353516	EFXE-353516ST	12,2	18,3	30,5	36,6	48,8	54,9	61,0
ST-282827	EFXE-282827ST	13,1	19,6	32,8	39,3	52,5	59,0	65,6
ST-355016	EFXE-355016ST	14,8	22,2	37,1	44,5	59,4	66,8	74,3
ST-383816	EFXE-383816ST	13,3	19,9	33,2	39,9	53,2	59,8	66,5
ST-384516	EFXE-384516ST	14,5	21,8	36,4	43,7	58,3	65,6	72,9
ST-385716	EFXE-385716ST	16,7	25,0	41,8	50,1	66,8	75,2	83,6
ST-505016	EFXE-505016ST	17,9	26,9	44,8	53,8	71,7	80,7	89,7
ST-383827	EFXE-383827ST	17,5	26,3	43,9	52,7	70,2	79,0	87,8
ST-575716	EFXE-575716ST	20,7	31,1	51,9	62,3	83,1	93,5	103,9
ST-577620	EFXE-577620ST	26,9	40,4	67,4	80,9	107,9	121,3	134,8
ST-575730	EFXE-575730ST	27,9	41,8	69,7	83,7	111,6	125,6	139,5
ST-769520	EFXE-769520ST	36,1	54,1	90,2	108,3	144,4	162,4	180,5
ST-1258040	EFXE-1258040ST	36,1	54,1	90,2	108,3	144,4	162,4	180,5

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Enclosure types (Stainless steel)		Maximum power dissipation (W) – Tamb. up to **60**°C					
		INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
ST-101210	EFXE-101210ST	2,7	5,5	6,9	9,7	11,1	12,5
ST-151510	EFXE-151510ST	4,0	8,0	10,0	14,0	16,0	18,0
ST-142013	EFXE-142013ST	5,2	10,4	13,1	18,3	20,9	23,5
ST-202010	EFXE-202010ST	5,3	10,7	13,4	18,7	21,4	24,1
ST-202016	EFXE-202016ST	6,9	13,9	17,4	24,3	27,8	31,3
ST-202713	EFXE-202713ST	7,2	14,4	18,0	25,2	28,9	32,5
ST-272713	EFXE-272713ST	8,3	16,7	20,9	29,3	33,5	37,7
ST-203016	EFXE-203016ST	8,5	17,1	21,4	30,0	34,3	38,6
ST-273513	EFXE-273513ST	9,6	19,2	24,1	33,7	38,5	43,3
ST-282816	EFXE-282816ST	9,6	19,3	24,2	33,9	38,7	43,6
ST-204016	EFXE-204016ST	10,1	20,2	25,2	35,4	40,4	45,5
ST-353516	EFXE-353516ST	12,2	24,4	30,5	42,7	48,8	54,9
ST-282827	EFXE-282827ST	13,1	26,2	32,8	45,9	52,5	59,0
ST-355016	EFXE-355016ST	14,8	29,7	37,1	52,0	59,4	66,8
ST-383816	EFXE-383816ST	13,3	26,6	33,2	46,5	53,2	59,8
ST-384516	EFXE-384516ST	14,5	29,1	36,4	51,0	58,3	65,6
ST-385716	EFXE-385716ST	16,7	33,4	41,8	58,5	66,8	75,2
ST-505016	EFXE-505016ST	17,9	35,8	44,8	62,7	71,7	80,7
ST-383827	EFXE-383827ST	17,5	35,1	43,9	61,4	70,2	79,0
ST-575716	EFXE-575716ST	20,7	41,5	51,9	72,7	83,1	93,5
ST-577620	EFXE-577620ST	26,9	53,9	67,4	94,4	107,9	121,3
ST-575730	EFXE-575730ST	27,9	55,8	69,7	97,7	111,6	125,6
ST-769520	EFXE-769520ST	36,1	72,2	90,2	126,3	144,4	162,4
ST-1258040	EFXE-1258040ST	36,1	72,2	90,2	126,3	144,4	162,4

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Enclosure types (Stainless steel)		Maximum power dissipation (W) – Tamb. up to **95**°C	
		INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
ST-101210	EFXE-101210ST	1,3	2,7
ST-151510	EFXE-151510ST	2,0	4,0
ST-142013	EFXE-142013ST	2,6	5,2
ST-202010	EFXE-202010ST	2,6	5,3
ST-202016	EFXE-202016ST	3,4	6,9
ST-202713	EFXE-202713ST	3,6	7,2
ST-272713	EFXE-272713ST	4,1	8,3
ST-203016	EFXE-203016ST	4,2	8,5
ST-273513	EFXE-273513ST	4,8	9,6
ST-282816	EFXE-282816ST	4,8	9,6
ST-204016	EFXE-204016ST	5,0	10,1
ST-353516	EFXE-353516ST	6,1	12,2
ST-282827	EFXE-282827ST	6,5	13,1
ST-355016	EFXE-355016ST	7,4	14,8
ST-383816	EFXE-383816ST	6,6	13,3
ST-384516	EFXE-384516ST	7,2	14,5
ST-385716	EFXE-385716ST	8,3	16,7
ST-505016	EFXE-505016ST	8,9	17,9
ST-383827	EFXE-383827ST	8,7	17,5
ST-575716	EFXE-575716ST	10,3	20,7
ST-577620	EFXE-577620ST	13,4	26,9
ST-575730	EFXE-575730ST	13,9	27,9
ST-769520	EFXE-769520ST	18,0	36,1
ST-1258040	EFXE-1258040ST	18,0	36,1

Maximum Power Dissipation calculation

The values specified in the tables as per clause 2.1.1 may be modified within the maximum admitted Tamb and maximum admitted internal temperature as follows.

$$Pdiss\ (W) = \frac{Tmax - Tamb}{Rth}$$

$Rth = A \times (\text{enclosure surface in } mm^2 \text{ except enclosure bottom})^B$

Legend:
Rth – Thermal resistance [K/W].
Tmax – Maximum allowed temperature inside enclosure.
Tamb – Ambient temperature of enclosure
A and B - coefficients determined for each series o enclosure. Exact values are given in manufacturer's documentation.

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[16] Confidential Report No. FIDI 21 CR 075

[16.1] Routine testing

Junction boxes, local control stations and local control panels fitted with wiring, shall be subject to a routine dielectric strength test according to the clause 7.1 of IEC 60079-7.

[17] Specific Conditions of Use

- Enclosures marked with warning label: "WARNING – POTENTIAL ELECTROSTATIC CHARGING HAZARD – SEE INSTRUCTIONS" must be cleaned only by damp cloth or antistatic products.
- Apparatus equipped with drain / venting valve Technor Italsmea model ECR3:
  - the valve cannot be open when an explosive dust atmosphere is present.
  - The valve can be open when an explosive gas atmosphere is present: when open, the equipment reaches the protection degree IP44.
  - When the valve is left in open position, it should be protected from light exposure.
- On the intrinsic safety terminals, the user must only connect devices with compatible intrinsic safety parameters according to EN 60079-14.

[18] Essential Health and Safety Requirements

Covered by the conformity with harmonized standards listed under item 9.

[19] Drawings and Documents

Title:	Drawing No.:	Rev. level:	Date:
Technical note	TN2111	0	17.11.2021
Instruction for use	TN2111 Annex A	0	08.11.2021
Apparatus list	TN2111 Annex B	0	17.11.2021
Drawings:			
Cable entries, plug, adaptors coupling systems	AC2111, sheet 1	0	10.11.2021
Example of operator arrangements for AQ-AR-EFE	AC2111, sheet 2	0	10.11.2021
Example of operator arrangements for SB-ST-EFEXE	AC2111, sheet 3	0	10.11.2021
Example terminals and earth bus bar	AC2111, sheet 4	0	10.11.2021
Drain / breath device type ECR3	AC2111, sheet 5	0	10.11.2021
Marking label SB..., ST..., AQ..., AR...	AC2111, sheet 6	0	10.11.2021
Marking label SB..., ST..., AQ..., AR...	AC2111, sheet 7	0	10.11.2021

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[1] **SUPPLEMENTARY EU – TYPE EXAMINATION CERTIFICATE**

[2] Equipment or Protective Systems Intended for use in Potentially Explosive Atmospheres Directive 2014/34/EU.

[3] Supplementary EU-Type Examination Certificate Number: **FIDI 21 ATEX 0090X/1**

[4] Product: **Junction boxes, local control stations and local control panels**

Type: **AQ-***P / AQ-***AL / AR-***P / AR-***AL**
AQ-*P-HT / AQ-***AL-HT / AR-***P-HT / AR-***AL-HT**
SB-* / ST-***
EFE-* / EFXE-*** AL/ EFXE-***SB / EFXE-***ST**
EFE-*-HT / EFXE-***AL-HT**

[5] Manufacturer: **Technor Italsmea S.p.A.**

[6] Address: **Via Italia 33, 20060 Gessate (MI), Italy**

[7] This supplementary certificate extends EU – Type Examination Certificate to apply to product designed and constructed in accordance with the specification set out in the Schedule of the said certificate but having any variations specified in the Schedule to this certificate and the documents therein referred to.

[8] FIDITAS Ltd., Notified Body number 2829 in accordance with Article 17 of Directive 2014/34/EU of the European Parliament and of the Council, dated 26 February 2014, certifies that this product has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of products intended for use in potentially explosive atmospheres given in Annex II of the Directive.

[9] The examination and test results are recorded in confidential Report No: **FIDI 23 CR 019**

[10] The marking of the product shall include the following:

II 1 G	**Ex ia IIC/IIB T6...T4 Ga**(2) or
II 2(1) G or **II 2(2) G**	**Ex db eb ia/ib mb [**(3)**] IIC/IIB T6...T4 Gb**(1) or
II 2 G	**Ex eb IIC/IIB T6...T4 Gb**(1) or
II 2 D	**Ex tb IIIC T85°C...T135°C Db**

(1) Others type of protection additional to 'eb' depending to the components actually mounted.

(2) In case of enclosures containing 'eb' terminals and/or 'ia Ga' already certified components (with compatible marking) only.

(3) Associated equipment protection depending on the components actually mounted (see lists): e.g. [ia/ib/ia Ga/ia IIIC Da] and/or [ia IIIC Da] or [ia/ib/ia Ga/ia IIIC Da] and/or [ia/ib/ia Ga] [ia IIIC Da]

FIDITAS Ltd.
Certification department
Approved:

Marino Kelava, M.E.Eng.

Our ref.: 23.CRT.071

Date: 19.04.2023

Fiditas d.o.o. ZAGREB

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[11] **SCHEDULE**

[12] **SUPPLEMENTARY EU - TYPE EXAMINATION CERTIFICATE No.: FIDI 21 ATEX 0090X /1**

[13] Description of the variation to the Product

New Ex products added:

- Surge voltage protection unit type: PLUGTRAB PT2 or PT4 – PHOENIX CONTACT; II 1G> Ex ia IIC T4...T6 Ga; KEMA 00 ATEX 1099X;
- SITRANS TH230/420, type: 7NG0317, 0310; 0410 TR320/TR420 7NG0327; 7NG0320; TYPE 7NG0420; Siemens AG; II 1G Ex ia IIC T6...T4 Ga; II 2(1)G Ex ib [ia Ga] IIC T6...T4 Gb; DEKRA 17 ATEX 0116X
- Enhanced Model 644 Temperature Transmitter, ROSEMOUNT INCORPORATED, II 1G Ex ia IIC T6...T4 Ga; DEKRA 21ATEX0003X,
- Temperature Transmitter type: 5434D; 5431D; 6431D; 5435D; 5437D; 5437D; 5437B; 6437D, II 1G Ex ia IIC T6...T4 Ga; II 2(1)G Ex ib [ia Ga] IIC T6...T4 Gb; DEKRA 16 ATEX 0047X,
- Controls Units and / or Junction Boxes Type: GUB..., TECHNOR ITALSMEA; II 2G Ex db (*) IIC T(*) Gb; INERIS 22 ATEX 0008X
- Cable Transit Device type: CF 8 Ex, CF 32 Ex, CF 16 Ex, C RS T...Ex, RS..B Ex, SF...Ex, SFX...B Ex, B...B Ex, R...B Ex and RO...B; ROXTEC INTERNATIONAL AB, II 2G Ex e IIC Gb, II 2D Ex tb IIC Db; NEMKO 12 ATEX 1278X
- Cable Transit Device type: HD 16 Ex, HD 24 Ex, HD 32 Ex and HDLC Ex, ROXTEC INTERNATIONAL AB, II 2G Ex eb IIC Gb, II 2D Ex tb IIIC Db, PRESAFE 15 ATEX 6419X
- Control stations and junction boxes type: CP..., TECHNOR ITALSMEA, II 2G Ex db IIC T6 or T5 or T4 Gb or II 2(1)G Ex db [ia Ga] IIC T6 Gb(***) or II 2(2)G Ex db [ib] IIC T6 Gb (***); INERIS 03 ATEX 0009X
- Industrial plug and socket type: DXN1, MARECHAL ELECTRIC, II 2G Ex db eb IIC T5 or T6; II 2D Ex tb IIIC T90°C/T70°C; LCIE 99 ATEX6027X
- Industrial plug and socket type: DXN3, MARECHAL ELECTRIC; II 2G Ex db eb IIC T5 or T6; II 2D Ex tb IIIC T90°C/T70°C; LCIE 05 ATEX 6149X
- Industrial plug and socket type: DXN6, MARECHAL ELECTRIC, II 2G Ex db eb IIC T5 or T6; II 2D Ex tb IIIC T90°C/T70°C; LCIE 05 ATEX 6150X
- Industrial plug and socket type: PXN12C, MARECHAL ELECTRIC, II 2G Ex eb IIC T*; II 2G Ex ia or ib IIC T*; II 2D Ex tb IIIC T* Db; LCIE 07 ATEX 6070X
- Industrial plug and socket type: DXN25C, MARECHAL ELECTRIC; II 2G Ex eb IIC T*; II 2G Ex ia or ib IIC T6; II2D Ex tb IIIC T*; LCIE 09ATEX3050X
- Industrial plug and socket type: DXN37C, MARECHAL ELECTRIC; II 2G Ex eb IIC T*; II 2G Ex ia or ib IIC T6; II2D Ex tb IIIC T*; LCIE 07ATEX6071X
- Industrial plug and socket type: SPeX, MARECHAL ELECTRIC, II 2G Ex eb IIC T*; II2D Ex tb IIIC T* Db; LCIE 07ATEX6073X
- Industrial plug and socket type: DXA1, MARECHAL ELECTRIC, II 2G Ex db eb IIC T* Gb; II 2D Ex tb IIC T*°C Db; LCIE 15ATEX 3033X
- Industrial plug and socket type: PNCX, MARECHAL ELECTRIC, II 2G Ex IIC T6 Gb; II 2D Ex tb IIIC T72°C Db; LCIE 16ATEX3001X
- Terminal type: WDU 240, WEIDMULLER, II 2G Ex eb IIC Gb; KEMA 01 ATEX 2186U.

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[14] Confidential Report No. FIDI 23 CR 019

[14.1] Routine testing

No change to specified in the initial certificate.

[15] Specific Conditions of Use

Addditional to those specified the initial certificate:

- Manufacturer must obey relevant specific condition of use of Ex equipment and/or schedule of limitation of Ex components installed in/on the product and forward to the end user if relevant for the installation and use.

[16] Essential Health and Safety Requirements

Compliance with the Essential Health and Safety Requirements is not affected by this variation.

[17] Drawings and Documents

Title:	Drawing No.:	Rev. level:	Date:
Technical note	TN2111	1	20.01.2023
Instruction for use	TN2111 Annex A	1	20.01.2023
Apparatus list	TN2111 Annex B	1	20.01.2023

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IECEx Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION
IEC Certification System for Explosive Atmospheres

for rules and details of the IECEx Scheme visit www.iecex.com

Certificate No.:	**IECEx FIDI 21.0015X**	Page 1 of 4	Certificate history: Issue 0 (2022-02-18)
Status:	**Current**	Issue No: 1	
Date of Issue:	2023-05-04		

Applicant: **Technor Italsmea S.p.A.**
Via Italia 33
20060 Gessate (MI)
Italy

Equipment: **Junction boxes, local control stations and local control panels**

Optional accessory: Model reference: AQ-***P / AQ-***AL / AR-***P / AR-***AL / AQ-***P-HT / AQ-***AL-HT / AR-***P-HT / AR-***AL-HT / SB-*** / ST-*** / EFE-*** / EFXE-*** AL/ EFXE-***SB / EFXE-***ST / EFE-***-HT / EFXE-***AL-HT

Type of Protection: **Flameproof enclosure 'db'; Intrinsic safety 'ia/ib'; Increased safety 'eb'; Encapsulation 'mb', Protection by enclosure 'tb'**

Marking: **Ex ia IIC/IIB T6...T4 Ga**(2) or

Ex db eb ia/ib mb [(3)] IIC/IIB T6...T4 Gb(1) or

Ex eb IIC/IIB T6...T4 Gb(1) or

Ex tb IIIC T85°C...T135°C Db

(1) Others type of protection additional to Ex e/eb depending to the components actually mounted.

(2) In case of enclosures containing Ex e/Ex eb terminals and/or Ex ia Ga already certified components (with compatible marking) only.

(3) Associated equipment protection depending on the components actually mounted (see lists): e.g. [ia/ib/ia Ga/ia IIIC Da] and/or [ia IIIC Da] or [ia/ib/ia Ga/ia IIIC Da] and/or [ia/ib/ia Ga] [ia IIIC Da]

Approved for issue on behalf of the IECEx Certification Body: **Marino Kelava**

Position: **Certification Signatory**

Signature:
(for printed version)

Date:
(for printed version)

1. This certificate and schedule may only be reproduced in full.
2. This certificate is not transferable and remains the property of the issuing body.
3. The Status and authenticity of this certificate may be verified by visiting www.iecex.com or use of this QR Code.

Certificate issued by:

Fiditas Ltd
Slavka Tomerlina 44
HR-10361 Zagreb-Sesvete
Croatia

Fiditas
explosion safety solutions

IECEx Certificate of Conformity

Certificate No.: **IECEx FIDI 21.0015X**

Date of issue: 2023-05-04 Issue No: 1

Manufacturer: **Technor Italsmea S.p.A.**
Via Italia 33
20060 Gessate (MI)
Italy

Manufacturing locations:

This certificate is issued as verification that a sample(s), representative of production, was assessed and tested and found to comply with the IEC Standard list below and that the manufacturer's quality system, relating to the Ex products covered by this certificate, was assessed and found to comply with the IECEx Quality system requirements.This certificate is granted subject to the conditions as set out in IECEx Scheme Rules, IECEx 02 and Operational Documents as amended

STANDARDS :
The equipment and any acceptable variations to it specified in the schedule of this certificate and the identified documents, was found to comply with the following standards

IEC 60079-0:2017 Explosive atmospheres - Part 0: Equipment - General requirements
Edition:7.0

IEC 60079-1:2014-06 Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"
Edition:7.0

IEC 60079-11:2011 Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"
Edition:6.0

IEC 60079-18:2017 Explosive atmospheres - Part 18: Protection by encapsulation "m"
Edition:4.1

IEC 60079-31:2013 Explosive atmospheres - Part 31: Equipment dust ignition protection by enclosure "t"
Edition:2

IEC 60079-7:2017 Explosive atmospheres - Part 7: Equipment protection by increased safety "e"
Edition:5.1

This Certificate **does not** indicate compliance with safety and performance requirements other than those expressly included in the Standards listed above.

TEST & ASSESSMENT REPORTS:
A sample(s) of the equipment listed has successfully met the examination and test requirements as recorded in:

Test Reports:

HR/FIDI/ExTR21.0016/00 HR/FIDI/ExTR21.0016/01

Quality Assessment Report:

FR/INE/QAR08.0002/15

IECEx Certificate of Conformity

EQUIPMENT:
Equipment and systems covered by this Certificate are as follows:

Junction boxes, local control stations and local control panels series AQ-…..; AR-…..; SB…..; EFE-…..; EFXE-….. use certified enclosures of various sizes, manufactured by Technor Italsmea S.p.A., type: AQ-.... ; AR-....; SB-...; ST- …, certificate IECEx FIDI 21.0012U.

Enclosures coded …-HT are made in glass fiber reinforced polyester resin or in aluminum, and covered by IECEx component certificates: IECEx PTB 08.0003U, enclosure type: 26.****** and IECEx PTB 08.0003U, enclosure type: 25.******.

Enclosures may be equipped with certified Ex equipment or Ex components and Ex terminals listed in manufacturer's documentation. Certified Ex equipment or Ex components and Ex terminals must be used according to data available in related component or equipment certificates, in particular relevant temperature range, voltage and current limitations. The cable glands or plugs, with separate IECEx certificate, made in type of protection ‘eb’ and/or ‘tb’ with appropriate IP protection are mounted according to related manufacturer’s installation instructions. Each enclosure is provided with internal earthing certified terminal or earthing screw or bolt. Metal enclosures are provided by external earthing screw or bolt. Metal and polyester enclosures can be provided by passing through earthing terminals.

All enclosures can be provided by:
- Externally installed accessories as specified in manufacturer documents,
- Drain breath device type ECR3, included in this certificate,
- Internal/external earthing plate.

For other description see Annex.

SPECIFIC CONDITIONS OF USE: YES as shown below:

- Enclosures marked with warning label: “WARNING – POTENTIAL ELECTROSTATIC CHARGING HAZARD – SEE INSTRUCTIONS” must be cleaned only by damp cloth or antistatic products.
- Apparatus equipped with drain / venting valve Technor Italsmea model ECR3:
  - the valve cannot be open when an explosive dust atmosphere is present.
  - The valve can be open when an explosive gas atmosphere is present: when open, the equipment reaches the protection degree IP44.
  - When the valve is left in open position, it should be protected from light exposure.
- On the intrinsic safety terminals, the user must only connect devices with compatible intrinsic safety parameters according to IEC 60079-14.

IECEx Certificate of Conformity

DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)
New IECEx certified Ex products added in the Apparatus list according to list given in HR/FIDI/ ExTR 21.0016/01.

Annex:

IECEx FIDI 21.0015X Technor Equipment Annex1 issue1.pdf

Technical description (continued from original certificate)

Model identification

Junction boxes

A(1)-(2) (3) (4) (5) (6)	(1) –	**Q**: Square size **R**: Rectangular size
	(2) (3) (4)	dimension, in cm
	(5)	Material **P**: Glass fiber reinforced polyester resin **AL**: Aluminium Alloy
	(6)	None: up to internal temperature of 105°C **HT**: up to internal temperature of 130°C
SB- (2) (3) (4)	(2) (3) (4)	dimension, in cm
ST- (2) (3) (4)	(2) (3) (4)	dimension, in cm

Panel boards

EFE- (2) (3) (4) (6)	(2) (3) (4)	dimension, in cm
	(6)	None: up to internal temperature of 105°C **HT**: up to internal temperature of 130°C
EFXE- (2) (3) (4) (5) (6)	(2) (3) (4)	dimension, in cm
	(5)	Material **SB** or **ST**: stainless steel **AL**: Aluminium Alloy
	(6)	None: up to internal temperature of 105°C **HT**: up to internal temperature of 130°C

Technical data:

Electrical data:	According to Ex component to actually installed
Ambient temperature:	-50°C to +95°C Other possible ranges are with: - min temperature: -50°C to -20 °C - max temperature of +40 °C to +95 °C
Mechanical protection:	IP55, IP66 or IP67 depending on model

Temperature class and/or maximum surface temperature of any junction box or control panel depend on ambient temperature and internal power dissipation. The values that must be observed are given in relevant tables in this certificate.

For commercial reasons model name listed in the tables below can be modified as follows: first (2) and second (3) pair of digits can be reversed.

Models sizes

Polyester High Temperature		Aluminium High Temperature	
AQ-080806P-HT	EFE-080806-HT	AQ-080806AL-HT	EFXE-080806AL-HT
AQ-080808P-HT	EFE-080808-HT	AR-081306AL-HT	EFXE-081306AL-HT
AR-081106P-HT	EFE-081106-HT	AR-081806AL-HT	EFXE-081806AL-HT
AR-081108P-HT	EFE-081108-HT	AR-082505AL-HT	EFXE-082505AL-HT
AR-081606P-HT	EFE-081606-HT	AQ-101008AL-HT	EFXE-101008AL-HT
AR-081608P-HT	EFE-081608-HT	AR-101608AL-HT	EFXE-101608AL-HT
AR-081906P-HT	EFE-081906-HT	AR-102008AL-HT	EFXE-102008AL-HT
AR-081908P-HT	EFE-081908-HT	AQ-121208AL-HT	EFXE-121208AL-HT
AR-082306P-HT	EFE-082306-HT	AQ-121209AL-HT	EFXE-121209AL-HT
AR-082308P-HT	EFE-082308-HT	AR-122208AL-HT	EFXE-122208AL-HT
AQ-121209P-HT	EFE-121209-HT	AR-122209AL-HT	EFXE-122209AL-HT
AR-122209P-HT	EFE-122209-HT	AR-123608AL-HT	EFXE-123608AL-HT
AQ-161609P-HT	EFE-161609-HT	AQ-141409AL-HT	EFXE-141409AL-HT
AR-162609P-HT	EFE-162609-HT	AR-142009AL-HT	EFXE-142009AL-HT
AR-163609P-HT	EFE-163609-HT	AQ-161609AL-HT	EFXE-161609AL-HT
AR-165609P-HT	EFE-165609-HT	AR-162609AL-HT	EFXE-162609AL-HT
AQ-202017P-HT	EFE-202017-HT	AR-163609AL-HT	EFXE-163609AL-HT
AR-203017P-HT	EFE-203017-HT	AR-165609AL-HT	EFXE-165609AL-HT
AQ-252612P-HT	EFE-252612-HT	AQ-181810AL-HT	EFXE-181810AL-HT
AQ-252616P-HT	EFE-252616-HT	AR-182810AL-HT	EFXE-182810AL-HT
AR-254012P-HT	EFE-254012-HT	AR-102311AL-HT	EFXE-102311AL-HT
AR-254016P-HT	EFE-254016-HT	AR-202311AL-HT	EFXE-202311AL-HT
AR-256012P-HT	EFE-256012-HT	AR-202318AL-HT	EFXE-202318AL-HT
AR-304020P-HT	EFE-304020-HT	AR-232811AL-HT	EFXE-232811AL-HT
AQ-363609P-HT	EFE-363609-HT	AR-233311AL-HT	EFXE-233311AL-HT
AR-406025P-HT	EFE-406025-HT	AR-233318AL-HT	EFXE-233318AL-HT
AQ-414012P-HT	EFE-414012-HT	AR-234011AL-HT	EFXE-234011AL-HT
AQ-414020P-HT	EFE-414020-HT	AR-234023AL-HT	EFXE-234023AL-HT
		AR-236011AL-HT	EFXE-236011AL-HT
		AR-314011AL-HT	EFXE-314011AL-HT
		AR-314014AL-HT	EFXE-314014AL-HT
		AR-314018AL-HT	EFXE-314018AL-HT
		AR-314023AL-HT	EFXE-314023AL-HT
		AR-316011AL-HT	EFXE-316011AL-HT
		AR-316018AL-HT	EFXE-316018AL-HT
		AQ-606020AL-HT	EFXE-606020AL-HT

Polyester		Aluminium		Stainless steel	
AQ-080806P	EFE-080806	AQ-080806AL	EFXE-080806AL	SB-101210	EFXE-101210SB
AQ-080808P	EFE-080808	AR-081306AL	EFXE-081306AL	SB-151510	EFXE-151510SB
AR-081106P	EFE-081106	AR-081806AL	EFXE-081806AL	SB-142013	EFXE-142013SB
AR-081606P	EFE-081606	AR-081808AL	EFXE-081808AL	SB-202010	EFXE-202010SB
AR-081906P	EFE-081906	AR-082505AL	EFXE-082505AL	SB-202016	EFXE-202016SB
AQ-121209P	EFE-121209	AR-082508AL	EFXE-082508AL	SB-202713	EFXE-202713SB
AR-122209P	EFE-122209	AQ-101008AL	EFXE-101008AL	SB-272713	EFXE-272713SB
AQ-161609P	EFE-161609	AR-101508AL	EFXE-101508AL	SB-203016	EFXE-203016SB
AR-162609P	EFE-162609	AR-101608AL	EFXE-101608AL	SB-273513	EFXE-273513SB
AR-163609P	EFE-163609	AR-102008AL	EFXE-102008AL	SB-282816	EFXE-282816SB
AQ-252612P	EFE-252612	AQ-121208AL	EFXE-121208AL	SB-204016	EFXE-204016SB
AQ-252616P	EFE-252616	AR-122209AL	EFXE-122209AL	SB-353516	EFXE-353516SB
AR-254012P	EFE-254012	AQ-141409AL	EFXE-141409AL	SB-282827	EFXE-282827SB
AR-254016P	EFE-254016	AR-142009AL	EFXE-142009AL	SB-355016	EFXE-355016SB
AR-256012P	EFE-256012	AQ-161609AL	EFXE-161609AL	SB-383816	EFXE-383816SB
AQ-414012P	EFE-414012	AR-162410AL	EFXE-162410AL	SB-384516	EFXE-384516SB
		AR-162609AL	EFXE-162609AL	SB-385716	EFXE-385716SB
		AQ-181810AL	EFXE-181810AL	SB-505016	EFXE-505016SB
		AR-182810AL	EFXE-182810AL	SB-383827	EFXE-383827SB
		AR-202311AL	EFXE-202311AL	SB-575716	EFXE-575716SB
		AR-202318AL	EFXE-202318AL	SB-577620	EFXE-577620SB
		AR-232811AL	EFXE-232811AL	SB-575730	EFXE-575730SB
		AR-233312AL	EFXE-233312AL	SB-769520	EFXE-769520SB
		AR-233318AL	EFXE-233318AL	SB-1258040	EFXE-1258040SB

Enclosure types (Stainless steel)	
ST-101210	EFXE-101210ST
ST-151510	EFXE-151510ST
ST-142013	EFXE-142013ST
ST-202010	EFXE-202010ST
ST-202016	EFXE-202016ST
ST-202713	EFXE-202713ST
ST-272713	EFXE-272713ST
ST-203016	EFXE-203016ST
ST-273513	EFXE-273513ST
ST-282816	EFXE-282816ST
ST-204016	EFXE-204016ST
ST-353516	EFXE-353516ST
ST-282827	EFXE-282827ST
ST-355016	EFXE-355016ST
ST-383816	EFXE-383816ST
ST-384516	EFXE-384516ST
ST-385716	EFXE-385716ST
ST-505016	EFXE-505016ST
ST-383827	EFXE-383827ST
ST-575716	EFXE-575716ST
ST-577620	EFXE-577620ST
ST-575730	EFXE-575730ST
ST-769520	EFXE-769520ST
ST-1258040	EFXE-1258040ST

Note 2 For stainless steel enclosures: dimensions (2) and (3) can be decreased or increased up to 20%, dimensions (4) can be increased up to 500 mm. Model name changes consequently.

Power dissipation – HT glass fiber reinforced polyester resin enclosures

Enclosure types (polyester)		Maximum power dissipation (W) – Tamb. up to **40**°C							
		INTERNAL TEMP.60°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)	INTERNAL TEMP.127°C (T4/T135°C)
AQ-080806P-HT	EFE-080806-HT	3,5	5,2	7,0	7,8	9,6	10,4	11,3	15,2
AQ-080808P-HT	EFE-080808-HT	4,6	6,8	9,1	10,2	12,5	13,7	14,8	19,8
AR-081106P-HT	EFE-081106-HT	4,3	6,4	8,5	9,6	11,8	12,8	13,9	18,6
AR-081108P-HT	EFE-081108-HT	5,6	8,4	11,2	12,6	15,3	16,7	18,1	24,2
AR-081606P-HT	EFE-081606-HT	5,8	8,7	11,6	13,0	15,9	17,4	18,8	25.2
AR-081608P-HT	EFE-081608-HT	6,8	10,2	13,7	15,4	18,8	20,5	22,2	29,7
AR-081906P-HT	EFE-081906-HT	6,4	9,6	12,8	14,4	17,6	19,2	20,8	27,8
AR-081908P-HT	EFE-081908-HT	7,5	11,3	15,1	17,0	20,7	22,6	24,5	32,7
AR-082306P-HT	EFE-082306-HT	7,2	10,8	14,4	16,2	19,8	21,6	23,4	31,3
AR-082308P-HT	EFE-082308-HT	8,5	12,7	16,9	19,0	23,3	25,4	27,5	36,7
AQ-121209P-HT	EFE-121209-HT	8,0	12,0	15,9	17,9	21,9	23,9	25,9	34,7
AR-122209P-HT	EFE-122209-HT	10,8	16,2	21,6	24,3	29,7	32,4	35,1	47,0
AQ-161609P-HT	EFE-161609-HT	10,4	15,6	20,8	23,4	28,6	31,2	33,8	45,2
AR-162609P-HT	EFE-162609-HT	13,4	20,1	26,8	30,2	36,9	40,2	43,6	58,3
AR-163609P-HT	EFE-163609-HT	16,2	24,3	32,4	36,5	44,6	48,6	52,7	70,5
AR-165609P-HT	EFE-165609-HT	21,4	32,0	42,7	48,1	58,7	64,1	69,4	92,9
AQ-202017P-HT	EFE-202017-HT	18,0	26,9	35,9	40,4	49,4	53,9	58,4	78,1
AR-203017P-HT	EFE-203017-HT	20,9	31,3	41,7	47,0	57,4	62,6	67,8	90,8
AQ-252612P-HT	EFE-252612-HT	18,8	28,2	37,6	42,4	51,8	56,5	61,2	81,9
AQ-252616P-HT	EFE-252616-HT	20,8	31,1	41,5	46,7	57,1	62,3	67,5	90,3
AR-254012P-HT	EFE-254012-HT	22,8	34,2	45,7	51,4	62,8	68,5	74,2	99,3
AR-254016P-HT	EFE-254016-HT	26,2	39,3	52,4	58,9	72,0	78,6	85,1	113,9
AR-256012P-HT	EFE-256012-HT	29,0	43,6	58,1	65,3	79,9	87,1	94,4	126,3
AR-304020P-HT	EFE-304020-HT	32,3	48,5	64,7	72,7	88,9	97,0	105,1	140,7
AQ-363609P-HT	EFE-363609-HT	23,0	34,6	46,1	51,8	63,4	69,1	74,9	100,2
AR-406025P-HT	EFE-406025-HT	50,3	75,5	100,7	113,3	138,4	151,0	163,6	218,9
AQ-414012P-HT	EFE-414012-HT	29,1	43,7	58,2	65,5	80,1	87,3	94,6	126,6
AQ-414020P-HT	EFE-414020-HT	36,6	55,0	73,3	82,4	100,8	109,9	119,1	159,4

Enclosure types (polyester)		Maximum power dissipation (W) – Tamb. up to **50**°C							
		INTERNAL TEMP.60°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)	INTERNAL TEMP.127°C (T4/T135°C)
AQ-080806P-HT	EFE-080806-HT	1,7	3,5	5,2	6,1	7,8	8,7	9,6	13,4
AQ-080808P-HT	EFE-080808-HT	2,3	4,6	6,8	8,0	10,2	11,4	12,5	17,5
AR-081106P-HT	EFE-081106-HT	2,1	4,3	6,4	7,5	9,6	10,7	11,8	16,5
AR-081108P-HT	EFE-081108-HT	2,8	5,6	8,4	9,8	12,6	13,9	15,3	21.5
AR-081606P-HT	EFE-081606-HT	2,9	5,8	8,7	10,1	13,0	14,5	15,9	22,3
AR-081608P-HT	EFE-081608-HT	3,4	6,8	10,2	11,9	15,4	17,1	18,8	26,3
AR-081906P-HT	EFE-081906-HT	3,2	6,4	9,6	11,2	14,4	16,0	17,6	24,6
AR-081908P-HT	EFE-081908-HT	3,8	7,5	11,3	13,2	17,0	18,8	20,7	29,0
AR-082306P-HT	EFE-082306-HT	3,6	7,2	10,8	12,6	16,2	18,0	19,8	27,7
AR-082308P-HT	EFE-082308-HT	4,2	8,5	12,7	14,8	19,0	21,1	23,3	32,5
AQ-121209P-HT	EFE-121209-HT	4,0	8,0	12,0	14,0	17,9	19,9	21,9	30,7
AR-122209P-HT	EFE-122209-HT	5,4	10,8	16,2	18,9	24,3	27,0	29,7	41,6
AQ-161609P-HT	EFE-161609-HT	5,2	10,4	15,6	18,2	23,4	26,0	28,6	40,0
AR-162609P-HT	EFE-162609-HT	6,7	13,4	20,1	23,5	30,2	33,5	36,9	51,6
AR-163609P-HT	EFE-163609-HT	8,1	16,2	24,3	28,4	36,5	40,5	44,6	62,3
AR-165609P-HT	EFE-165609-HT	10,7	21,4	32,0	37,4	48,1	53,4	58,7	82,2
AQ-202017P-HT	EFE-202017-HT	9,0	18,0	26,9	31,4	40,4	44,9	49,4	69,1
AR-203017P-HT	EFE-203017-HT	10,4	20,9	31,3	36,5	47,0	52,2	57,4	80,4
AQ-252612P-HT	EFE-252612-HT	9,4	18,8	28,2	32,9	42,4	47,1	51,8	72,5
AQ-252616P-HT	EFE-252616-HT	10,4	20,8	31,1	36,3	46,7	51,9	57,1	79,9
AR-254012P-HT	EFE-254012-HT	11,4	22,8	34,2	39,9	51,4	57,1	62,8	87,9
AR-254016P-HT	EFE-254016-HT	13,1	26,2	39,3	45,8	58,9	65,5	72,0	100,8
AR-256012P-HT	EFE-256012-HT	14,5	29,0	43,6	50,8	65,3	72,6	79,9	111,8
AR-304020P-HT	EFE-304020-HT	16,2	32,3	48,5	56,6	72,7	80,8	88,9	124,4
AQ-363609P-HT	EFE-363609-HT	11,5	23,0	34,6	40,3	51,8	57,6	63,4	88,7
AR-406025P-HT	EFE-406025-HT	25,2	50,3	75,5	88,1	113,3	125,8	138,4	193,8
AQ-414012P-HT	EFE-414012-HT	14,6	29,1	43,7	51,0	65,5	72,8	80,1	112,1
AQ-414020P-HT	EFE-414020-HT	18,3	36,6	55,0	64,1	82,4	91,6	100,8	141,1

Enclosure types (polyester)		Maximum power dissipation (W) – Tamb. up to **55**°C							
		INTERNAL TEMP.65°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)	INTERNAL TEMP.127°C (T4/T135°C)
AQ-080806P-HT	EFE-080806-HT	1,7	2,6	4,4	5,2	7,0	7,8	8,7	12,5
AQ-080808P-HT	EFE-080808-HT	2,3	3,4	5,7	6,8	9,1	10,2	11,4	16,2
AR-081106P-HT	EFE-081106-HT	2,1	3,2	5,3	6,4	8,5	9,6	10,7	15,2
AR-081108P-HT	EFE-081108-HT	2,8	4,2	7,0	8,4	11,2	12,6	13,9	19,8
AR-081606P-HT	EFE-081606-HT	2,9	4,3	7,2	8,7	11,6	13,0	14,5	20,6
AR-081608P-HT	EFE-081608-HT	3,4	5,1	8,5	10,2	13,7	15,4	17,1	24,3
AR-081906P-HT	EFE-081906-HT	3,2	4,8	8,0	9,6	12,8	14,4	16,0	22,8
AR-081908P-HT	EFE-081908-HT	3,8	5,7	9,4	11,3	15,1	17,0	18,8	26,8
AR-082306P-HT	EFE-082306-HT	3,6	5,4	9,0	10,8	14,4	16,2	18,0	25,6
AR-082308P-HT	EFE-082308-HT	4,2	6,3	10,6	12,7	16,9	19,0	21,1	30,0
AQ-121209P-HT	EFE-121209-HT	4,0	6,0	10,0	12,0	15,9	17,9	19,9	28,3
AR-122209P-HT	EFE-122209-HT	5,4	8,1	13,5	16,2	21,6	24,3	27,0	38,3
AQ-161609P-HT	EFE-161609-HT	5,2	7,8	13,0	15,6	20,8	23,4	26,0	36,9
AR-162609P-HT	EFE-162609-HT	6,7	10,1	16,8	20,1	26,8	30,2	33,5	47,6
AR-163609P-HT	EFE-163609-HT	8,1	12,2	20,3	24,3	32,4	36,5	40,5	57,5
AR-165609P-HT	EFE-165609-HT	10,7	16,0	26,7	32,0	42,7	48,1	53,4	75,8
AQ-202017P-HT	EFE-202017-HT	9,0	13,5	22,4	26,9	35,9	40,4	44,9	63,7
AR-203017P-HT	EFE-203017-HT	10,4	15,7	26,1	31,3	41,7	47,0	52,2	74,0
AQ-252612P-HT	EFE-252612-HT	9,4	14,1	23,5	28,2	37,6	42,4	47,1	66,8
AQ-252616P-HT	EFE-252616-HT	10,4	15,6	26,0	31,1	41,5	46,7	51,9	73,7
AR-254012P-HT	EFE-254012-HT	11,4	17,1	28,5	34,2	45,7	51,4	57,1	81,0
AR-254016P-HT	EFE-254016-HT	13,1	19,6	32,7	39,3	52,4	58,9	65,5	92,9
AR-256012P-HT	EFE-256012-HT	14,5	21,8	36,3	43,6	58,1	65,3	72,6	103,0
AR-304020P-HT	EFE-304020-HT	16,2	24,2	40,4	48,5	64,7	72,7	80,8	114,7
AQ-363609P-HT	EFE-363609-HT	11,5	17,3	28,8	34,6	46,1	51,8	57,6	81,8
AR-406025P-HT	EFE-406025-HT	25,2	37,8	62,9	75,5	100,7	113,3	125,8	178,6
AQ-414012P-HT	EFE-414012-HT	14,6	21,8	36,4	43,7	58,2	65,5	72,8	103,0
AQ-414020P-HT	EFE-414020-HT	18,3	27,5	45,8	55,0	73,3	82,4	91,6	130,0

Enclosure types (polyester)		Maximum power dissipation (W) – Tamb. up to **60**°C						
		INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)	INTERNAL TEMP.127°C (T4/T135°C)
AQ-080806P-HT	EFE-080806-HT	1,7	3,5	4,4	6,1	7,0	7,8	11,7
AQ-080808P-HT	EFE-080808-HT	2,3	4,6	5,7	8,0	9,1	10,2	15,2
AR-081106P-HT	EFE-081106-HT	2,1	4,3	5,3	7,5	8,5	9,6	14,3
AR-081108P-HT	EFE-081108-HT	2,8	5,6	7,0	9,8	11,2	12,6	18,7
AR-081606P-HT	EFE-081606-HT	2,9	5,8	7,2	10,1	11,6	13,0	19,4
AR-081608P-HT	EFE-081608-HT	3,4	6,8	8,5	11,9	13,7	15,4	22,9
AR-081906P-HT	EFE-081906-HT	3,2	6,4	8,0	11,2	12,8	14,4	21,4
AR-081908P-HT	EFE-081908-HT	3,8	7,5	9,4	13,2	15,1	17,0	25,3
AR-082306P-HT	EFE-082306-HT	3,6	7,2	9,0	12,6	14,4	16,2	24,1
AR-082308P-HT	EFE-082308-HT	4,2	8,5	10,6	14,8	16,9	19,0	28,3
AQ-121209P-HT	EFE-121209-HT	4,0	8,0	10,0	14,0	15,9	17,9	26,7
AR-122209P-HT	EFE-122209-HT	5,4	10,8	13,5	18,9	21,6	24,3	36,2
AQ-161609P-HT	EFE-161609-HT	5,2	10,4	13,0	18,2	20,8	23,4	34,8
AR-162609P-HT	EFE-162609-HT	6,7	13,4	16,8	23,5	26,8	30,2	44,9
AR-163609P-HT	EFE-163609-HT	8,1	16,2	20,3	28,4	32,4	36,5	54,2
AR-165609P-HT	EFE-165609-HT	10,7	21,4	26,7	37,4	42,7	48,1	71,5
AQ-202017P-HT	EFE-202017-HT	9,0	18,0	22,4	31,4	35,9	40,4	60,1
AR-203017P-HT	EFE-203017-HT	10,4	20,9	26,1	36,5	41,7	47,0	69,9
AQ-252612P-HT	EFE-252612-HT	9,4	18,8	23,5	32,9	37,6	42,4	63,0
AQ-252616P-HT	EFE-252616-HT	10,4	20,8	26,0	36,3	41,5	46,7	69,5
AR-254012P-HT	EFE-254012-HT	11,4	22,8	28,5	39,9	45,7	51,4	76,5
AR-254016P-HT	EFE-254016-HT	13,1	26,2	32,7	45,8	52,4	58,9	87,7
AR-256012P-HT	EFE-256012-HT	14,5	29,0	36,3	50,8	58,1	65,3	97,2
AR-304020P-HT	EFE-304020-HT	16,2	32,3	40,4	56,6	64,7	72,7	108,3
AQ-363609P-HT	EFE-363609-HT	11,5	23,0	28,8	40,3	46,1	51,8	77,1
AR-406025P-HT	EFE-406025-HT	25,2	50,3	62,9	88,1	100,7	113,3	168,7
AQ-414012P-HT	EFE-414012-HT	14,6	29,1	36,4	51,0	58,2	65,5	97,5
AQ-414020P-HT	EFE-414020-HT	18,3	36,6	45,8	64,1	73,3	82,4	122,7

Enclosure types (polyester)		Maximum power dissipation (W) Tamb. up to **95**°C		
		INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)	INTERNAL TEMP.127°C (T4/T135°C)
AQ-080806P-HT	EFE-080806-HT	0,9	1,7	5,6
AQ-080808P-HT	EFE-080808-HT	1,1	2,3	7,3
AR-081106P-HT	EFE-081106-HT	1,1	2,1	6,5
AR-081108P-HT	EFE-081108-HT	1,4	2,8	9,0
AR-081606P-HT	EFE-081606-HT	1,4	2,9	9,2
AR-081608P-HT	EFE-081608-HT	1,7	3,4	10,9
AR-081906P-HT	EFE-081906-HT	1,6	3,2	10,2
AR-081908P-HT	EFE-081908-HT	1,9	3,8	12,1
AR-082306P-HT	EFE-082306-HT	1,8	3,6	11,5
AR-082308P-HT	EFE-082308-HT	2,1	4,2	13,5
AQ-121209P-HT	EFE-121209-HT	2,0	4,0	12,8
AR-122209P-HT	EFE-122209-HT	2,7	5,4	17,3
AQ-161609P-HT	EFE-161609-HT	2,6	5,2	16,6
AR-162609P-HT	EFE-162609-HT	3,4	6,7	21,5
AR-163609P-HT	EFE-163609-HT	4,1	8,1	26,0
AR-165609P-HT	EFE-165609-HT	5,3	10,7	34,2
AQ-202017P-HT	EFE-202017-HT	4,5	9,0	28,7
AR-203017P-HT	EFE-203017-HT	5,2	10,4	33,4
AQ-252612P-HT	EFE-252612-HT	4,7	9,4	30,1
AQ-252616P-HT	EFE-252616-HT	5,2	10,4	33,2
AR-254012P-HT	EFE-254012-HT	5,7	11,4	36,5
AR-254016P-HT	EFE-254016-HT	6,5	13,1	41,9
AR-256012P-HT	EFE-256012-HT	7,3	14,5	46,4
AR-304020P-HT	EFE-304020-HT	8,1	16,2	51,8
AQ-363609P-HT	EFE-363609-HT	5,8	11,5	36,8
AR-406025P-HT	EFE-406025-HT	12,6	25,2	80,6
AQ-414012P-HT	EFE-414012-HT	7,3	14,6	46,6
AQ-414020P-HT	EFE-414020-HT	9,2	18,3	58,6

Power dissipation – HT aluminium alloy enclosures

Enclosure types (aluminium)		Maximum power dissipation (W) – Tamb. up to **40**°C							
		INTERNAL TEMP.60°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)	INTERNAL TEMP.130°C (T4/T135°C)
AQ-080806AL-HT	EFXE-080806AL-HT	5,2	7,8	10,4	11,7	14,3	15,6	16,9	23,4
AR-081306AL-HT	EFXE-081306AL-HT	7,0	10,6	14,1	15,9	19,4	21,2	23,0	31,8
AR-081806AL-HT	EFXE-081806AL-HT	8,9	13,3	17,8	20,0	24,5	26,7	28,9	40,0
AR-082505AL-HT	EFXE-082505AL-HT	10,9	16,4	21,9	24,7	30,1	32,9	35,6	49,4
AQ-101008AL-HT	EFXE-101008AL-HT	8,7	13,0	17,4	19,6	23,9	26,1	28,3	39,2
AR-101608AL-HT	EFXE-101608AL-HT	11,5	17,3	23,1	26,0	31,8	34,7	37,6	52,0
AR-102008AL-HT	EFXE-102008AL-HT	13,4	20,1	26,8	30,2	36,9	40,3	43,6	60,4
AQ-121208AL-HT	EFXE-121208AL-HT	10,8	16,2	21,6	24,3	29,7	32,4	35,1	48,6
AQ-121209AL-HT	EFXE-121209AL-HT	11,6	17,5	23,3	26,2	32,1	35,0	37,9	52,5
AR-122208AL-HT	EFXE-122208AL-HT	15,6	23,5	31,3	35,3	43,1	47,0	50,9	70,6
AR-122209AL-HT	EFXE-122209AL-HT	16,8	25,3	33,7	37,9	46,3	50,6	54,8	75,9
AR-123608AL-HT	EFXE-123608AL-HT	22,3	33,5	44,7	50,3	61,5	67,1	72,7	100,7
AQ-141409AL-HT	EFXE-141409AL-HT	13,7	20,6	27,5	31,0	37,9	41,3	44,8	62,0
AR-142009AL-HT	EFXE-142009AL-HT	17,1	25,7	34,2	38,5	47,1	51,4	55,7	77,1
AQ-161609AL-HT	EFXE-161609AL-HT	16,1	24,1	32,2	36,2	44,2	48,3	52,3	72,4
AR-162609AL-HT	EFXE-162609AL-HT	21,9	32,8	43,8	49,3	60,2	65,7	71,2	98,6
AR-163609AL-HT	EFXE-163609AL-HT	27,5	41,3	55,1	62,0	75,7	82,6	89,5	124,0
AR-165609AL-HT	EFXE-165609AL-HT	38,4	57,7	76,9	86,6	105,8	115,4	125,0	173,2
AQ-181810AL-HT	EFXE-181810AL-HT	19,7	29,6	39,5	44,4	54,3	59,2	64,2	88,8
AR-182810AL-HT	EFXE-182810AL-HT	26,1	39,1	52,2	58,7	71,8	78,3	84,8	117,5
AR-102311AL-HT	EFXE-102311AL-HT	18,2	27,3	36,5	41,0	50,1	54,7	59,3	82,1
AR-202311AL-HT	EFXE-202311AL-HT	26,1	39,1	52,2	58,7	71,7	78,3	84,8	117,4
AR-202318AL-HT	EFXE-202318AL-HT	35,9	53,9	71,8	80,8	98,8	107,8	116,8	161,7
AR-232811AL-HT	EFXE-232811AL-HT	31,6	47,5	63,3	71,3	87,1	95,0	103,0	142,6
AR-233311AL-HT	EFXE-233311AL-HT	35,3	52,9	70,6	79,4	97,0	105,9	114,7	158,8
AR-233318AL-HT	EFXE-233318AL-HT	47,5	71,3	95,1	107,0	130,8	142,7	154,6	214,1
AR-234011AL-HT	EFXE-234011AL-HT	40,2	60,4	80,5	90,6	110,7	120,8	130,9	181,2
AR-234023AL-HT	EFXE-234023AL-HT	62,2	93,3	124,5	140,0	171,2	186,7	202,3	280,1
AR-236011AL-HT	EFXE-236011AL-HT	54,1	81,2	108,3	121,9	148,9	162,5	176,0	243,8
AR-314011AL-HT	EFXE-314011AL-HT	48,6	72,9	97,2	109,3	133,6	145,8	157,9	218,7
AR-314014AL-HT	EFXE-314014AL-HT	54,9	82,4	109,9	123,7	151,2	164,9	178,7	247,4
AR-314018AL-HT	EFXE-314018AL-HT	63,8	95,7	127,6	143,5	175,4	191,4	207,3	287,1
AR-314023AL-HT	EFXE-314023AL-HT	73,5	110,3	147,1	165,5	202,3	220,7	239,1	331,0
AR-316011AL-HT	EFXE-316011AL-HT	64,0	96,0	128,1	144,1	176,1	192,1	208,1	288,2
AR-316018AL-HT	EFXE-316018AL-HT	82,7	124,1	165,5	186,2	227,6	248,3	268,9	372,4
AQ-606020AL-HT	EFXE-606020AL-HT	129,1	193,7	258,3	290,5	355,1	387,4	419,7	581,1

Enclosure types (aluminium)		Maximum power dissipation (W) – Tamb. up to **50**°C							
		INTERNAL TEMP.60°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)	INTERNAL TEMP.130°C (T4/T135°C)
AQ-080806AL-HT	EFXE-080806AL-HT	2,6	5,2	7,8	9,1	11,7	13,0	14,3	20,8
AR-081306AL-HT	EFXE-081306AL-HT	3,5	7,0	10,6	12,3	15,9	17,7	19,4	28,3
AR-081806AL-HT	EFXE-081806AL-HT	4,4	8,9	13,3	15,5	20,0	22,2	24,5	35,6
AR-082505AL-HT	EFXE-082505AL-HT	5,4	10,9	16,4	19,2	24,7	27,4	30,1	43,9
AQ-101008AL-HT	EFXE-101008AL-HT	4,3	8,7	13,0	15,2	19,6	21,7	23,9	34,8
AR-101608AL-HT	EFXE-101608AL-HT	5,7	11,5	17,3	20,2	26,0	28,9	31,8	46,2
AR-102008AL-HT	EFXE-102008AL-HT	6,7	13,4	20,1	23,5	30,2	33,5	36,9	53,7
AQ-121208AL-HT	EFXE-121208AL-HT	5,4	10,8	16,2	18,9	24,3	27,0	29,7	43,2
AQ-121209AL-HT	EFXE-121209AL-HT	5,8	11,6	17,5	20,4	26,2	29,2	32,1	46,7
AR-122208AL-HT	EFXE-122208AL-HT	7,8	15,6	23,5	27,4	35,3	39,2	43,1	62,7
AR-122209AL-HT	EFXE-122209AL-HT	8,4	16,8	25,3	29,5	37,9	42,1	46,3	67,4
AR-123608AL-HT	EFXE-123608AL-HT	11,1	22,3	33,5	39,1	50,3	55,9	61,5	89,5
AQ-141409AL-HT	EFXE-141409AL-HT	6,8	13,7	20,6	24,1	31,0	34,4	37,9	55,1
AR-142009AL-HT	EFXE-142009AL-HT	8,5	17,1	25,7	30,0	38,5	42,8	47,1	68,5
AQ-161609AL-HT	EFXE-161609AL-HT	8,0	16,1	24,1	28,1	36,2	40,2	44,2	64,4
AR-162609AL-HT	EFXE-162609AL-HT	10,9	21,9	32,8	38,3	49,3	54,8	60,2	87,6
AR-163609AL-HT	EFXE-163609AL-HT	13,7	27,5	41,3	48,2	62,0	68,9	75,7	110,2
AR-165609AL-HT	EFXE-165609AL-HT	19,2	38,4	57,7	67,3	86,6	96,2	105,8	153,9
AQ-181810AL-HT	EFXE-181810AL-HT	9,8	19,7	29,6	34,5	44,4	49,3	54,3	79,0
AR-182810AL-HT	EFXE-182810AL-HT	13,0	26,1	39,1	45,7	58,7	65,2	71,8	104,4
AR-102311AL-HT	EFXE-102311AL-HT	9,1	18,2	27,3	31,9	41,0	45,6	50,1	73,0
AR-202311AL-HT	EFXE-202311AL-HT	13,0	26,1	39,1	45,6	58,7	65,2	71,7	104,4
AR-202318AL-HT	EFXE-202318AL-HT	17,9	35,9	53,9	62,8	80,8	89,8	98,8	143,7
AR-232811AL-HT	EFXE-232811AL-HT	15,8	31,6	47,5	55,4	71,3	79,2	87,1	126,7
AR-233311AL-HT	EFXE-233311AL-HT	17,6	35,3	52,9	61,7	79,4	88,2	97,0	141,2
AR-233318AL-HT	EFXE-233318AL-HT	23,7	47,5	71,3	83,2	107,0	118,9	130,8	190,3
AR-234011AL-HT	EFXE-234011AL-HT	20,1	40,2	60,4	70,5	90,6	100,7	110,7	161,1
AR-234023AL-HT	EFXE-234023AL-HT	31,1	62,2	93,3	108,9	140,0	155,6	171,2	249,0
AR-236011AL-HT	EFXE-236011AL-HT	27,0	54,1	81,2	94,8	121,9	135,4	148,9	216,7
AR-314011AL-HT	EFXE-314011AL-HT	24,3	48,6	72,9	85,0	109,3	121,5	133,6	194,4
AR-314014AL-HT	EFXE-314014AL-HT	27,4	54,9	82,4	96,2	123,7	137,4	151,2	219,9
AR-314018AL-HT	EFXE-314018AL-HT	31,9	63,8	95,7	111,6	143,5	159,5	175,4	255,2
AR-314023AL-HT	EFXE-314023AL-HT	36,7	73,5	110,3	128,7	165,5	183,9	202,3	294,2
AR-316011AL-HT	EFXE-316011AL-HT	32,0	64,0	96,0	112,0	144,1	160,1	176,1	256,2
AR-316018AL-HT	EFXE-316018AL-HT	41,3	82,7	124,1	144,8	186,2	206,9	227,6	331,0
AQ-606020AL-HT	EFXE-606020AL-HT	64,5	129,1	193,7	226,0	290,5	322,8	355,1	516,6

Enclosure types (aluminium)		Maximum power dissipation (W) – Tamb. up to **55**°C							
		INTERNAL TEMP.65°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)	INTERNAL TEMP.130°C (T4/T135°C)
AQ-080806AL-HT	EFXE-080806AL-HT	2,6	3,9	6,5	7,8	10,4	11,7	13,0	19,5
AR-081306AL-HT	EFXE-081306AL-HT	3,5	5,3	8,8	10,6	14,1	15,9	17,7	26,5
AR-081806AL-HT	EFXE-081806AL-HT	4,4	6,6	11,1	13,3	17,8	20,0	22,2	33,4
AR-082505AL-HT	EFXE-082505AL-HT	5,4	8,2	13,7	16,4	21,9	24,7	27,4	41,1
AQ-101008AL-HT	EFXE-101008AL-HT	4,3	6,5	10,8	13,0	17,4	19,6	21,7	32,6
AR-101608AL-HT	EFXE-101608AL-HT	5,7	8,6	14,4	17,3	23,1	26,0	28,9	43,3
AR-102008AL-HT	EFXE-102008AL-HT	6,7	10,0	16,7	20,1	26,8	30,2	33,5	50,3
AQ-121208AL-HT	EFXE-121208AL-HT	5,4	8,1	13,5	16,2	21,6	24,3	27,0	40,5
AQ-121209AL-HT	EFXE-121209AL-HT	5,8	8,7	14,6	17,5	23,3	26,2	29,2	43,8
AR-122208AL-HT	EFXE-122208AL-HT	7,8	11,7	19,6	23,5	31,3	35,3	39,2	58,8
AR-122209AL-HT	EFXE-122209AL-HT	8,4	12,6	21,0	25,3	33,7	37,9	42,1	63,2
AR-123608AL-HT	EFXE-123608AL-HT	11,1	16,7	27,9	33,5	44,7	50,3	55,9	83,9
AQ-141409AL-HT	EFXE-141409AL-HT	6,8	10,3	17,2	20,6	27,5	31,0	34,4	51,7
AR-142009AL-HT	EFXE-142009AL-HT	8,5	12,8	21,4	25,7	34,2	38,5	42,8	64,3
AQ-161609AL-HT	EFXE-161609AL-HT	8,0	12,0	20,1	24,1	32,2	36,2	40,2	60,4
AR-162609AL-HT	EFXE-162609AL-HT	10,9	16,4	27,4	32,8	43,8	49,3	54,8	82,2
AR-163609AL-HT	EFXE-163609AL-HT	13,7	20,6	34,4	41,3	55,1	62,0	68,9	103,3
AR-165609AL-HT	EFXE-165609AL-HT	19,2	28,8	48,1	57,7	76,9	86,6	96,2	144,3
AQ-181810AL-HT	EFXE-181810AL-HT	9,8	14,8	24,6	29,6	39,5	44,4	49,3	74,0
AR-182810AL-HT	EFXE-182810AL-HT	13,0	19,5	32,6	39,1	52,2	58,7	65,2	97,9
AR-102311AL-HT	EFXE-102311AL-HT	9,1	13,6	22,8	27,3	36,5	41,0	45,6	68,4
AR-202311AL-HT	EFXE-202311AL-HT	13,0	19,5	32,6	39,1	52,2	58,7	65,2	97,9
AR-202318AL-HT	EFXE-202318AL-HT	17,9	26,9	44,9	53,9	71,8	80,8	89,8	134,7
AR-232811AL-HT	EFXE-232811AL-HT	15,8	23,7	39,6	47,5	63,3	71,3	79,2	118,8
AR-233311AL-HT	EFXE-233311AL-HT	17,6	26,4	44,1	52,9	70,6	79,4	88,2	132,3
AR-233318AL-HT	EFXE-233318AL-HT	23,7	35,6	59,4	71,3	95,1	107,0	118,9	178,4
AR-234011AL-HT	EFXE-234011AL-HT	20,1	30,2	50,3	60,4	80,5	90,6	100,7	151,0
AR-234023AL-HT	EFXE-234023AL-HT	31,1	46,6	77,8	93,3	124,5	140,0	155,6	233,4
AR-236011AL-HT	EFXE-236011AL-HT	27,0	40,6	67,7	81,2	108,3	121,9	135,4	203,1
AR-314011AL-HT	EFXE-314011AL-HT	24,3	36,4	60,7	72,9	97,2	109,3	121,5	182,3
AR-314014AL-HT	EFXE-314014AL-HT	27,4	41,2	68,7	82,4	109,9	123,7	137,4	206,2
AR-314018AL-HT	EFXE-314018AL-HT	31,9	47,8	79,7	95,7	127,6	143,5	159,5	239,2
AR-314023AL-HT	EFXE-314023AL-HT	36,7	55,1	91,9	110,3	147,1	165,5	183,9	275,8
AR-316011AL-HT	EFXE-316011AL-HT	32,0	48,0	80,0	96,0	128,1	144,1	160,1	240,1
AR-316018AL-HT	EFXE-316018AL-HT	41,3	62,0	103,4	124,1	165,5	186,2	206,9	310,3
AQ-606020AL-HT	EFXE-606020AL-HT	64,5	96,8	161,4	193,7	258,3	290,5	322,8	484,3

Enclosure types (aluminium)		Maximum power dissipation (W) – Tamb. up to **60**°C						
		INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)	INTERNAL TEMP.130°C (T4/T135°C)
AQ-080806AL-HT	EFXE-080806AL-HT	2,6	5,2	6,5	9,1	10,4	11,7	18,2
AR-081306AL-HT	EFXE-081306AL-HT	3,5	7,0	8,8	12,3	14,1	15,9	24,7
AR-081806AL-HT	EFXE-081806AL-HT	4,4	8,9	11,1	15,5	17,8	20,0	31,1
AR-082505AL-HT	EFXE-082505AL-HT	5,4	10,9	13,7	19,2	21,9	24,7	38,4
AQ-101008AL-HT	EFXE-101008AL-HT	4,3	8,7	10,8	15,2	17,4	19,6	30,4
AR-101608AL-HT	EFXE-101608AL-HT	5,7	11,5	14,4	20,2	23,1	26,0	40,5
AR-102008AL-HT	EFXE-102008AL-HT	6,7	13,4	16,7	23,5	26,8	30,2	47,0
AQ-121208AL-HT	EFXE-121208AL-HT	5,4	10,8	13,5	18,9	21,6	24,3	37,8
AQ-121209AL-HT	EFXE-121209AL-HT	5,8	11,6	14,6	20,4	23,3	26,2	40,8
AR-122208AL-HT	EFXE-122208AL-HT	7,8	15,6	19,6	27,4	31,3	35,3	54,9
AR-122209AL-HT	EFXE-122209AL-HT	8,4	16,8	21,0	29,5	33,7	37,9	59,0
AR-123608AL-HT	EFXE-123608AL-HT	11,1	22,3	27,9	39,1	44,7	50,3	78,3
AQ-141409AL-HT	EFXE-141409AL-HT	6,8	13,7	17,2	24,1	27,5	31,0	48,2
AR-142009AL-HT	EFXE-142009AL-HT	8,5	17,1	21,4	30,0	34,2	38,5	60,0
AQ-161609AL-HT	EFXE-161609AL-HT	8,0	16,1	20,1	28,1	32,2	36,2	56,3
AR-162609AL-HT	EFXE-162609AL-HT	10,9	21,9	27,4	38,3	43,8	49,3	76,7
AR-163609AL-HT	EFXE-163609AL-HT	13,7	27,5	34,4	48,2	55,1	62,0	96,4
AR-165609AL-HT	EFXE-165609AL-HT	19,2	38,4	48,1	67,3	76,9	86,6	134,7
AQ-181810AL-HT	EFXE-181810AL-HT	9,8	19,7	24,6	34,5	39,5	44,4	69,1
AR-182810AL-HT	EFXE-182810AL-HT	13,0	26,1	32,6	45,7	52,2	58,7	91,4
AR-102311AL-HT	EFXE-102311AL-HT	9,1	18,2	22,8	31,9	36,5	41,0	63,8
AR-202311AL-HT	EFXE-202311AL-HT	13,0	26,1	32,6	45,6	52,2	58,7	91,3
AR-202318AL-HT	EFXE-202318AL-HT	17,9	35,9	44,9	62,8	71,8	80,8	125,7
AR-232811AL-HT	EFXE-232811AL-HT	15,8	31,6	39,6	55,4	63,3	71,3	110,9
AR-233311AL-HT	EFXE-233311AL-HT	17,6	35,3	44,1	61,7	70,6	79,4	123,5
AR-233318AL-HT	EFXE-233318AL-HT	23,7	47,5	59,4	83,2	95,1	107,0	166,5
AR-234011AL-HT	EFXE-234011AL-HT	20,1	40,2	50,3	70,5	80,5	90,6	141,0
AR-234023AL-HT	EFXE-234023AL-HT	31,1	62,2	77,8	108,9	124,5	140,0	217,9
AR-236011AL-HT	EFXE-236011AL-HT	27,0	54,1	67,7	94,8	108,3	121,9	189,6
AR-314011AL-HT	EFXE-314011AL-HT	24,3	48,6	60,7	85,0	97,2	109,3	170,1
AR-314014AL-HT	EFXE-314014AL-HT	27,4	54,9	68,7	96,2	109,9	123,7	192,4
AR-314018AL-HT	EFXE-314018AL-HT	31,9	63,8	79,7	111,6	127,6	143,5	223,3
AR-314023AL-HT	EFXE-314023AL-HT	36,7	73,5	91,9	128,7	147,1	165,5	257,4
AR-316011AL-HT	EFXE-316011AL-HT	32,0	64,0	80,0	112,0	128,1	144,1	224,1
AR-316018AL-HT	EFXE-316018AL-HT	41,3	82,7	103,4	144,8	165,5	186,2	289,6
AQ-606020AL-HT	EFXE-606020AL-HT	64,5	129,1	161,4	226,0	258,3	290,5	452,0

Enclosure types (aluminium)		Maximum power dissipation (W) Tamb. up to **95**°C		
		INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)	INTERNAL TEMP.130°C (T4/T135°C)
AQ-080806AL-HT	EFXE-080806AL-HT	1,3	2,6	9,1
AR-081306AL-HT	EFXE-081306AL-HT	1,7	3,5	12,3
AR-081806AL-HT	EFXE-081806AL-HT	2,2	4,4	15,5
AR-082505AL-HT	EFXE-082505AL-HT	2,7	5,4	19,2
AQ-101008AL-HT	EFXE-101008AL-HT	2,1	4,3	15,2
AR-101608AL-HT	EFXE-101608AL-HT	2,8	5,7	20,2
AR-102008AL-HT	EFXE-102008AL-HT	3,3	6,7	23,5
AQ-121208AL-HT	EFXE-121208AL-HT	2,7	5,4	18,9
AQ-121209AL-HT	EFXE-121209AL-HT	2,9	5,8	20,4
AR-122208AL-HT	EFXE-122208AL-HT	3,9	7,8	27,4
AR-122209AL-HT	EFXE-122209AL-HT	4,2	8,4	29,5
AR-123608AL-HT	EFXE-123608AL-HT	5,5	11,1	39,1
AQ-141409AL-HT	EFXE-141409AL-HT	3,4	6,8	24,1
AR-142009AL-HT	EFXE-142009AL-HT	4,2	8,5	30,0
AQ-161609AL-HT	EFXE-161609AL-HT	4,0	8,0	28,1
AR-162609AL-HT	EFXE-162609AL-HT	5,4	10,9	38,3
AR-163609AL-HT	EFXE-163609AL-HT	6,8	13,7	48,2
AR-165609AL-HT	EFXE-165609AL-HT	9,6	19,2	67,3
AQ-181810AL-HT	EFXE-181810AL-HT	4,9	9,8	34,5
AR-182810AL-HT	EFXE-182810AL-HT	6,5	13,0	45,7
AR-102311AL-HT	EFXE-102311AL-HT	4,5	9,1	31,9
AR-202311AL-HT	EFXE-202311AL-HT	6,5	13,0	45,6
AR-202318AL-HT	EFXE-202318AL-HT	8,9	17,9	62,8
AR-232811AL-HT	EFXE-232811AL-HT	7,9	15,8	55,4
AR-233311AL-HT	EFXE-233311AL-HT	8,8	17,6	61,7
AR-233318AL-HT	EFXE-233318AL-HT	11,8	23,7	83,2
AR-234011AL-HT	EFXE-234011AL-HT	10,0	20,1	70,5
AR-234023AL-HT	EFXE-234023AL-HT	15,5	31,1	108,9
AR-236011AL-HT	EFXE-236011AL-HT	13,5	27,0	94,8
AR-314011AL-HT	EFXE-314011AL-HT	12,1	24,3	85,0
AR-314014AL-HT	EFXE-314014AL-HT	13,7	27,4	96,2
AR-314018AL-HT	EFXE-314018AL-HT	15,9	31,9	111,6
AR-314023AL-HT	EFXE-314023AL-HT	18,3	36,7	128,7
AR-316011AL-HT	EFXE-316011AL-HT	16,0	32,0	112,0
AR-316018AL-HT	EFXE-316018AL-HT	20,6	41,3	144,8
AQ-606020AL-HT	EFXE-606020AL-HT	32,2	64,5	226,0

Power dissipation – Glass fiber reinforced polyester resin enclosures

Enclosure types (polyester)		Maximum power dissipation (W) – Tamb. up to **40**°C						
		INTERNAL TEMP.60°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
AQ-080806P	EFE-080806	3,4	5,2	6,9	7,8	9,5	10,4	11,3
AQ-080808P	EFE-080808	4,5	6,8	9,1	10,2	12,5	13,6	14,7
AR-081106P	EFE-081106	4,2	6,4	8,5	9,6	11,7	12,8	13,8
AR-081606P	EFE-081606	5,7	8,6	11,5	13,0	15,9	17,3	18,8
AR-081906P	EFE-081906	6,4	9,6	12,8	14,4	17,6	19,2	20,8
AQ-121209P	EFE-121209	7,9	11,9	15,9	17,9	21,9	23,9	25,9
AR-122209P	EFE-122209	10,8	16,2	21,6	24,3	29,7	32,4	35,1
AQ-161609P	EFE-161609	10,3	15,5	20,7	23,3	28,5	31,1	33,7
AR-162609P	EFE-162609	13,4	20,1	26,8	30,1	36,8	40,2	43,5
AR-163609P	EFE-163609	16,2	24,3	32,4	36,4	44,5	48,6	52,6
AQ-252612P	EFE-252612	18,8	28,2	37,6	42,3	51,7	56,4	61,1
AQ-252616P	EFE-252616	21,7	32,6	43,5	49,0	59,9	65,3	70,8
AR-254012P	EFE-254012	23,9	35,9	47,9	53,9	65,9	71,8	77,8
AR-254016P	EFE-254016	27,4	41,2	54,9	61,8	75,6	82,4	89,3
AR-256012P	EFE-256012	29,0	43,5	58,0	65,3	79,8	87,1	94,3
AQ-414012P	EFE-414012	29,1	43,6	58,2	65,5	80,0	87,3	94,6
AQ-414016P	EFE-414016	32,9	49,4	65,9	74,1	90,6	98,8	107,0

Enclosure types (polyester)		Maximum power dissipation (W) – Tamb. up to **50**°C						
		INTERNAL TEMP.60°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
AQ-080806P	EFE-080806	1,7	3,4	5,2	6,0	7,8	8,7	9,5
AQ-080808P	EFE-080808	2,2	4,5	6,8	7,9	10,2	11,3	12,5
AR-081106P	EFE-081106	2,1	4,2	6,4	7,4	9,6	10,6	11,7
AR-081606P	EFE-081606	2,8	5,7	8,6	10,1	13,0	14,4	15,9
AR-081906P	EFE-081906	3,2	6,4	9,6	11,2	14,4	16,0	17,6
AQ-121209P	EFE-121209	3,9	7,9	11,9	13,9	17,9	19,9	21,9
AR-122209P	EFE-122209	5,4	10,8	16,2	18,9	24,3	27,0	29,7
AQ-161609P	EFE-161609	5,1	10,3	15,5	18,1	23,3	25,9	28,5
AR-162609P	EFE-162609	6,7	13,4	20,1	23,4	30,1	33,5	36,8
AR-163609P	EFE-163609	8,1	16,2	24,3	28,3	36,4	40,5	44,5
AQ-252612P	EFE-252612	9,4	18,8	28,2	32,9	42,3	47,0	51,7
AQ-252616P	EFE-252616	10,8	21,7	32,6	38,1	49,0	54,4	59,9
AR-254012P	EFE-254012	11,9	23,9	35,9	41,9	53,9	59,9	65,9
AR-254016P	EFE-254016	13,7	27,4	41,2	48,1	61,8	68,7	75,6
AR-256012P	EFE-256012	14,5	29,0	43,5	50,8	65,3	72,6	79,8
AQ-414012P	EFE-414012	14,5	29,1	43,6	50,9	65,5	72,7	80,0
AQ-414016P	EFE-414016	16,4	32,9	49,4	57,6	74,1	82,3	90,6

Enclosure types (polyester)		Maximum power dissipation (W) – Tamb. up to **55**°C						
		INTERNAL TEMP.65°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
AQ-080806P	EFE-080806	1,7	2,6	4,3	5,2	6,9	7,8	8,7
AQ-080808P	EFE-080808	2,2	3,4	5,6	6,8	9,1	10,2	11,3
AR-081106P	EFE-081106	2,1	3,2	5,3	6,4	8,5	9,6	10,6
AR-081606P	EFE-081606	2,8	4,3	7,2	8,6	11,5	13,0	14,4
AR-081906P	EFE-081906	3,2	4,8	8,0	9,6	12,8	14,4	16,0
AQ-121209P	EFE-121209	3,9	5,9	9,9	11,9	15,9	17,9	19,9
AR-122209P	EFE-122209	5,4	8,1	13,5	16,2	21,6	24,3	27,0
AQ-161609P	EFE-161609	5,1	7,7	12,9	15,5	20,7	23,3	25,9
AR-162609P	EFE-162609	6,7	10,0	16,7	20,1	26,8	30,1	33,5
AR-163609P	EFE-163609	8,1	12,1	20,2	24,3	32,4	36,4	40,5
AQ-252612P	EFE-252612	9,4	14,1	23,5	28,2	37,6	42,3	47,0
AQ-252616P	EFE-252616	10,8	16,3	27,2	32,6	43,5	49,0	54,4
AR-254012P	EFE-254012	11,9	17,9	29,9	35,9	47,9	53,9	59,9
AR-254016P	EFE-254016	13,7	20,6	34,3	41,2	54,9	61,8	68,7
AR-256012P	EFE-256012	14,5	21,7	36,3	43,5	58,0	65,3	72,6
AQ-414012P	EFE-414012	14,5	21,8	36,3	43,6	58,2	65,5	72,7
AQ-414016P	EFE-414016	16,4	24,7	41,1	49,4	65,9	74,1	82,3

Enclosure types (polyester)		Maximum power dissipation (W) – Tamb. up to **60**°C					
		INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
AQ-080806P	EFE-080806	1,7	3,4	4,3	6,0	6,9	7,8
AQ-080808P	EFE-080808	2,2	4,5	5,6	7,9	9,1	10,2
AR-081106P	EFE-081106	2,1	4,2	5,3	7,4	8,5	9,6
AR-081606P	EFE-081606	2,8	5,7	7,2	10,1	11,5	13,0
AR-081906P	EFE-081906	3,2	6,4	8,0	11,2	12,8	14,4
AQ-121209P	EFE-121209	3,9	7,9	9,9	13,9	15,9	17,9
AR-122209P	EFE-122209	5,4	10,8	13,5	18,9	21,6	24,3
AQ-161609P	EFE-161609	5,1	10,3	12,9	18,1	20,7	23,3
AR-162609P	EFE-162609	6,7	13,4	16,7	23,4	26,8	30,1
AR-163609P	EFE-163609	8,1	16,2	20,2	28,3	32,4	36,4
AQ-252612P	EFE-252612	9,4	18,8	23,5	32,9	37,6	42,3
AQ-252616P	EFE-252616	10,8	21,7	27,2	38,1	43,5	49,0
AR-254012P	EFE-254012	11,9	23,9	29,9	41,9	47,9	53,9
AR-254016P	EFE-254016	13,7	27,4	34,3	48,1	54,9	61,8
AR-256012P	EFE-256012	14,5	29,0	36,3	50,8	58,0	65,3
AQ-414012P	EFE-414012	14,5	29,1	36,3	50,9	58,2	65,5
AQ-414016P	EFE-414016	16,4	32,9	41,1	57,6	65,9	74,1

Enclosure types (polyester)		Maximum power dissipation (W) – Tamb. up to **95**°C	
		INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
AQ-080806P	EFE-080806	0,8	1,7
AQ-080808P	EFE-080808	1,1	2,2
AR-081106P	EFE-081106	1,0	2,1
AR-081606P	EFE-081606	1,4	2,8
AR-081906P	EFE-081906	1,6	3,2
AQ-121209P	EFE-121209	1,9	3,9
AR-122209P	EFE-122209	2,7	5,4
AQ-161609P	EFE-161609	2,5	5,1
AR-162609P	EFE-162609	3,3	6,7
AR-163609P	EFE-163609	4,0	8,1
AQ-252612P	EFE-252612	4,7	9,4
AQ-252616P	EFE-252616	5,4	10,8
AR-254012P	EFE-254012	5,9	11,9
AR-254016P	EFE-254016	6,8	13,7
AR-256012P	EFE-256012	7,2	14,5
AQ-414012P	EFE-414012	7,2	14,5
AQ-414016P	EFE-414016	8,2	16,4

Power dissipation – Aluminium alloy enclosures

Enclosure types (aluminium)		Maximum power dissipation (W) – Tamb. up to **40**°C						
		INTERNAL TEMP.60°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
AQ-080806AL	EFXE-080806AL	5,2	7,8	10,4	11,7	14,3	15,6	16,9
AR-081306AL	EFXE-081306AL	7,0	10,6	14,1	15,9	19,4	21,2	23,0
AR-081806AL	EFXE-081806AL	8,9	13,3	17,8	20,0	24,5	26,7	28,9
AR-081808AL	EFXE-081808AL	11,0	16,5	22,1	24,8	30,4	33,1	35,9
AR-082505AL	EFXE-082505AL	10,7	16,1	21,4	24,1	29,5	32,2	34,8
AR-082508AL	EFXE-082508AL	14,2	21,4	28,5	32,1	39,2	42,8	46,4
AQ-101008AL	EFXE-101008AL	8,7	13,0	17,4	19,6	23,9	26,1	28,3
AR-101508AL	EFXE-101508AL	11,1	16,6	22,2	24,9	30,5	33,3	36,0
AR-101608AL	EFXE-101608AL	11,5	17,3	23,1	26,0	31,8	34,7	37,6
AR-102008AL	EFXE-102008AL	13,4	20,1	26,8	30,2	36,9	40,3	43,6
AQ-121208AL	EFXE-121208AL	10,8	16,2	21,6	24,3	29,7	32,4	35,1
AR-122209AL	EFXE-122209AL	16,8	25,3	33,7	37,9	46,3	50,6	54,8
AQ-141409AL	EFXE-141409AL	13,7	20,6	27,5	31,0	37,9	41,3	44,8
AR-142009AL	EFXE-142009AL	17,1	25,7	34,2	38,5	47,1	51,4	55,7
AQ-161609AL	EFXE-161609AL	17,2	25,8	34,4	38,7	47,3	51,6	55,9
AR-162410AL	EFXE-162410AL	22,1	33,1	44,2	49,7	60,8	66,3	71,8
AR-162609AL	EFXE-162609AL	21,9	32,8	43,8	49,3	60,2	65,7	71,2
AQ-181810AL	EFXE-181810AL	19,7	29,6	39,5	44,4	54,3	59,2	64,2
AR-182810AL	EFXE-182810AL	26,1	39,1	52,2	58,7	71,8	78,3	84,8
AR-202311AL	EFXE-202311AL	25,8	38,7	51,6	58,0	71,0	77,4	83,9
AR-202318AL	EFXE-202318AL	35,5	53,3	71,1	80,0	97,8	106,7	115,6
AR-232811AL	EFXE-232811AL	31,6	47,5	63,3	71,3	87,1	95,0	103,0
AR-233312AL	EFXE-233312AL	37,0	55,6	74,1	83,4	101,9	111,2	120,5
AR-233318AL	EFXE-233318AL	47,5	71,3	95,1	107,0	130,8	142,7	154,6

Enclosure types (aluminium)		Maximum power dissipation (W) – Tamb. up to **50**°C						
		INTERNAL TEMP.60°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
AQ-080806AL	EFXE-080806AL	2,6	5,2	7,8	9,1	11,7	13,0	14,3
AR-081306AL	EFXE-081306AL	3,5	7,0	10,6	12,3	15,9	17,7	19,4
AR-081806AL	EFXE-081806AL	4,4	8,9	13,3	15,5	20,0	22,2	24,5
AR-081808AL	EFXE-081808AL	5,5	11,0	16,5	19,3	24,8	27,6	30,4
AR-082505AL	EFXE-082505AL	5,3	10,7	16,1	18,7	24,1	26,8	29,5
AR-082508AL	EFXE-082508AL	7,1	14,2	21,4	24,9	32,1	35,7	39,2
AQ-101008AL	EFXE-101008AL	4,3	8,7	13,0	15,2	19,6	21,7	23,9
AR-101508AL	EFXE-101508AL	5,5	11,1	16,6	19,4	24,9	27,7	30,5
AR-101608AL	EFXE-101608AL	5,7	11,5	17,3	20,2	26,0	28,9	31,8
AR-102008AL	EFXE-102008AL	6,7	13,4	20,1	23,5	30,2	33,5	36,9
AQ-121208AL	EFXE-121208AL	5,4	10,8	16,2	18,9	24,3	27,0	29,7
AR-122209AL	EFXE-122209AL	8,4	16,8	25,3	29,5	37,9	42,1	46,3
AQ-141409AL	EFXE-141409AL	6,8	13,7	20,6	24,1	31,0	34,4	37,9
AR-142009AL	EFXE-142009AL	8,5	17,1	25,7	30,0	38,5	42,8	47,1
AQ-161609AL	EFXE-161609AL	8,6	17,2	25,8	30,1	38,7	43,0	47,3
AR-162410AL	EFXE-162410AL	11,0	22,1	33,1	38,7	49,7	55,3	60,8
AR-162609AL	EFXE-162609AL	10,9	21,9	32,8	38,3	49,3	54,8	60,2
AQ-181810AL	EFXE-181810AL	9,8	19,7	29,6	34,5	44,4	49,3	54,3
AR-182810AL	EFXE-182810AL	13,0	26,1	39,1	45,7	58,7	65,2	71,8
AR-202311AL	EFXE-202311AL	12,9	25,8	38,7	45,1	58,0	64,5	71,0
AR-202318AL	EFXE-202318AL	17,7	35,5	53,3	62,2	80,0	88,9	97,8
AR-232811AL	EFXE-232811AL	15,8	31,6	47,5	55,4	71,3	79,2	87,1
AR-233312AL	EFXE-233312AL	18,5	37,0	55,6	64,8	83,4	92,7	101,9
AR-233318AL	EFXE-233318AL	23,7	47,5	71,3	83,2	107,0	118,9	130,8

Enclosure types (aluminium)		Maximum power dissipation (W) – Tamb. up to **55**°C						
		INTERNAL TEMP.65°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
AQ-080806AL	EFXE-080806AL	2,6	3,9	6,5	7,8	10,4	11,7	13,0
AR-081306AL	EFXE-081306AL	3,5	5,3	8,8	10,6	14,1	15,9	17,7
AR-081806AL	EFXE-081806AL	4,4	6,6	11,1	13,3	17,8	20,0	22,2
AR-081808AL	EFXE-081808AL	5,5	8,2	13,8	16,5	22,1	24,8	27,6
AR-082505AL	EFXE-082505AL	5,3	8,0	13,4	16,1	21,4	24,1	26,8
AR-082508AL	EFXE-082508AL	7,1	10,7	17,8	21,4	28,5	32,1	35,7
AQ-101008AL	EFXE-101008AL	4,3	6,5	10,8	13,0	17,4	19,6	21,7
AR-101508AL	EFXE-101508AL	5,5	8,3	13,8	16,6	22,2	24,9	27,7
AR-101608AL	EFXE-101608AL	5,7	8,6	14,4	17,3	23,1	26,0	28,9
AR-102008AL	EFXE-102008AL	6,7	10,0	16,7	20,1	26,8	30,2	33,5
AQ-121208AL	EFXE-121208AL	5,4	8,1	13,5	16,2	21,6	24,3	27,0
AR-122209AL	EFXE-122209AL	8,4	12,6	21,0	25,3	33,7	37,9	42,1
AQ-141409AL	EFXE-141409AL	6,8	10,3	17,2	20,6	27,5	31,0	34,4
AR-142009AL	EFXE-142009AL	8,5	12,8	21,4	25,7	34,2	38,5	42,8
AQ-161609AL	EFXE-161609AL	8,6	12,9	21,5	25,8	34,4	38,7	43,0
AR-162410AL	EFXE-162410AL	11,0	16,5	27,6	33,1	44,2	49,7	55,3
AR-162609AL	EFXE-162609AL	10,9	16,4	27,4	32,8	43,8	49,3	54,8
AQ-181810AL	EFXE-181810AL	9,8	14,8	24,6	29,6	39,5	44,4	49,3
AR-182810AL	EFXE-182810AL	13,0	19,5	32,6	39,1	52,2	58,7	65,2
AR-202311AL	EFXE-202311AL	12,9	19,3	32,2	38,7	51,6	58,0	64,5
AR-202318AL	EFXE-202318AL	17,7	26,6	44,4	53,3	71,1	80,0	88,9
AR-232811AL	EFXE-232811AL	15,8	23,7	39,6	47,5	63,3	71,3	79,2
AR-233312AL	EFXE-233312AL	18,5	27,8	46,3	55,6	74,1	83,4	92,7
AR-233318AL	EFXE-233318AL	23,7	35,6	59,4	71,3	95,1	107,0	118,9

Enclosure types (aluminium)		Maximum power dissipation (W) – Tamb. up to **60**°C					
		INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
AQ-080806AL	EFXE-080806AL	2,6	5,2	6,5	9,1	10,4	11,7
AR-081306AL	EFXE-081306AL	3,5	7,0	8,8	12,3	14,1	15,9
AR-081806AL	EFXE-081806AL	4,4	8,9	11,1	15,5	17,8	20,0
AR-081808AL	EFXE-081808AL	5,5	11,0	13,8	19,3	22,1	24,8
AR-082505AL	EFXE-082505AL	5,3	10,7	13,4	18,7	21,4	24,1
AR-082508AL	EFXE-082508AL	7,1	14,2	17,8	24,9	28,5	32,1
AQ-101008AL	EFXE-101008AL	4,3	8,7	10,8	15,2	17,4	19,6
AR-101508AL	EFXE-101508AL	5,5	11,1	13,8	19,4	22,2	24,9
AR-101608AL	EFXE-101608AL	5,7	11,5	14,4	20,2	23,1	26,0
AR-102008AL	EFXE-102008AL	6,7	13,4	16,7	23,5	26,8	30,2
AQ-121208AL	EFXE-121208AL	5,4	10,8	13,5	18,9	21,6	24,3
AR-122209AL	EFXE-122209AL	8,4	16,8	21,0	29,5	33,7	37,9
AQ-141409AL	EFXE-141409AL	6,8	13,7	17,2	24,1	27,5	31,0
AR-142009AL	EFXE-142009AL	8,5	17,1	21,4	30,0	34,2	38,5
AQ-161609AL	EFXE-161609AL	8,6	17,2	21,5	30,1	34,4	38,7
AR-162410AL	EFXE-162410AL	11,0	22,1	27,6	38,7	44,2	49,7
AR-162609AL	EFXE-162609AL	10,9	21,9	27,4	38,3	43,8	49,3
AQ-181810AL	EFXE-181810AL	9,8	19,7	24,6	34,5	39,5	44,4
AR-182810AL	EFXE-182810AL	13,0	26,1	32,6	45,7	52,2	58,7
AR-202311AL	EFXE-202311AL	12,9	25,8	32,2	45,1	51,6	58,0
AR-202318AL	EFXE-202318AL	17,7	35,5	44,4	62,2	71,1	80,0
AR-232811AL	EFXE-232811AL	15,8	31,6	39,6	55,4	63,3	71,3
AR-233312AL	EFXE-233312AL	18,5	37,0	46,3	64,8	74,1	83,4
AR-233318AL	EFXE-233318AL	23,7	47,5	59,4	83,2	95,1	107,0

Enclosure types (aluminium)		Maximum power dissipation (W) – Tamb. up to **95**°C	
		INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
AQ-080806AL	EFXE-080806AL	1,3	2,6
AR-081306AL	EFXE-081306AL	1,7	3,5
AR-081806AL	EFXE-081806AL	2,2	4,4
AR-081808AL	EFXE-081808AL	2,7	5,5
AR-082505AL	EFXE-082505AL	2,6	5,3
AR-082508AL	EFXE-082508AL	3,5	7,1
AQ-101008AL	EFXE-101008AL	2,1	4,3
AR-101508AL	EFXE-101508AL	2,7	5,5
AR-101608AL	EFXE-101608AL	2,8	5,7
AR-102008AL	EFXE-102008AL	3,3	6,7
AQ-121208AL	EFXE-121208AL	2,7	5,4
AR-122209AL	EFXE-122209AL	4,2	8,4
AQ-141409AL	EFXE-141409AL	3,4	6,8
AR-142009AL	EFXE-142009AL	4,2	8,5
AQ-161609AL	EFXE-161609AL	4,3	8,6
AR-162410AL	EFXE-162410AL	5,5	11,0
AR-162609AL	EFXE-162609AL	5,4	10,9
AQ-181810AL	EFXE-181810AL	4,9	9,8
AR-182810AL	EFXE-182810AL	6,5	13,0
AR-202311AL	EFXE-202311AL	6,4	12,9
AR-202318AL	EFXE-202318AL	8,8	17,7
AR-232811AL	EFXE-232811AL	7,9	15,8
AR-233312AL	EFXE-233312AL	9,2	18,5
AR-233318AL	EFXE-233318AL	11,8	23,7

Power dissipation – Stainless steel enclosures SB series

Enclosure types (stainless steel)		Maximum power dissipation (W) – Tamb. up to **40**°C						
		INTERNAL TEMP.60°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
SB-101210	EFXE-101210SB	5,5	8,3	11,1	12,5	15,3	16,7	18,1
SB-151510	EFXE-151510SB	8,0	12,0	16,0	18,0	22,0	24,0	26,1
SB-142013	EFXE-142013SB	10,4	15,7	20,9	23,5	28,8	31,4	34,0
SB-202010	EFXE-202010SB	10,7	16,1	21,4	24,1	29,5	32,2	34,8
SB-202016	EFXE-202016SB	13,9	20,8	27,8	31,3	38,3	41,7	45,2
SB-202713	EFXE-202713SB	14,4	21,6	28,9	32,5	39,7	43,3	46,9
SB-272713	EFXE-272713SB	16,7	25,1	33,5	37,7	46,0	50,2	54,4
SB-203016	EFXE-203016SB	17,1	25,7	34,3	38,6	47,2	51,4	55,7
SB-273513	EFXE-273513SB	19,2	28,9	38,5	43,3	53,0	57,8	62,6
SB-282816	EFXE-282816SB	19,3	29,0	38,7	43,6	53,3	58,1	63,0
SB-204016	EFXE-204016SB	20,2	30,3	40,4	45,5	55,6	60,6	65,7
SB-353516	EFXE-353516SB	24,4	36,6	48,8	54,9	67,1	73,2	79,3
SB-282827	EFXE-282827SB	26,2	39,3	52,5	59,0	72,2	78,7	85,3
SB-355016	EFXE-355016SB	29,7	44,5	59,4	66,8	81,7	89,1	96,6
SB-383816	EFXE-383816SB	26,6	39,9	53,2	59,8	73,1	79,8	86,5
SB-384516	EFXE-384516SB	29,1	43,7	58,3	65,6	80,2	87,5	94,8
SB-385716	EFXE-385716SB	33,4	50,1	66,8	75,2	91,9	100,3	108,7
SB-505016	EFXE-505016SB	35,8	53,8	71,7	80,7	98,6	107,6	116,6
SB-383827	EFXE-383827SB	35,1	52,7	70,2	79,0	96,6	105,4	114,2
SB-575716	EFXE-575716SB	41,5	62,3	83,1	93,5	114,3	124,7	135,1
SB-577620	EFXE-577620SB	53,9	80,9	107,9	121,3	148,3	161,8	175,3
SB-575730	EFXE-575730SB	55,8	83,7	111,6	125,6	153,5	167,5	181,4
SB-769520	EFXE-769520SB	72,2	108,3	144,4	162,4	198,5	216,6	234,6
SB-1258040	EFXE-1258040SB	72,2	108,3	144,4	162,4	198,5	216,6	234,6

Enclosure types (Stainless steel)		Maximum power dissipation (W) – Tamb. up to **50**°C						
		INTERNAL TEMP.60°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
SB-101210	EFXE-101210SB	2,7	5,5	8,3	9,7	12,5	13,9	15,3
SB-151510	EFXE-151510SB	4,0	8,0	12,0	14,0	18,0	20,0	22,0
SB-142013	EFXE-142013SB	5,2	10,4	15,7	18,3	23,5	26,2	28,8
SB-202010	EFXE-202010SB	5,3	10,7	16,1	18,7	24,1	26,8	29,5
SB-202016	EFXE-202016SB	6,9	13,9	20,8	24,3	31,3	34,8	38,3
SB-202713	EFXE-202713SB	7,2	14,4	21,6	25,2	32,5	36,1	39,7
SB-272713	EFXE-272713SB	8,3	16,7	25,1	29,3	37,7	41,8	46,0
SB-203016	EFXE-203016SB	8,5	17,1	25,7	30,0	38,6	42,9	47,2
SB-273513	EFXE-273513SB	9,6	19,2	28,9	33,7	43,3	48,2	53,0
SB-282816	EFXE-282816SB	9,6	19,3	29,0	33,9	43,6	48,4	53,3
SB-204016	EFXE-204016SB	10,1	20,2	30,3	35,4	45,5	50,5	55,6
SB-353516	EFXE-353516SB	12,2	24,4	36,6	42,7	54,9	61,0	67,1
SB-282827	EFXE-282827SB	13,1	26,2	39,3	45,9	59,0	65,6	72,2
SB-355016	EFXE-355016SB	14,8	29,7	44,5	52,0	66,8	74,3	81,7
SB-383816	EFXE-383816SB	13,3	26,6	39,9	46,5	59,8	66,5	73,1
SB-384516	EFXE-384516SB	14,5	29,1	43,7	51,0	65,6	72,9	80,2
SB-385716	EFXE-385716SB	16,7	33,4	50,1	58,5	75,2	83,6	91,9
SB-505016	EFXE-505016SB	17,9	35,8	53,8	62,7	80,7	89,7	98,6
SB-383827	EFXE-383827SB	17,5	35,1	52,7	61,4	79,0	87,8	96,6
SB-575716	EFXE-575716SB	20,7	41,5	62,3	72,7	93,5	103,9	114,3
SB-577620	EFXE-577620SB	26,9	53,9	80,9	94,4	121,3	134,8	148,3
SB-575730	EFXE-575730SB	27,9	55,8	83,7	97,7	125,6	139,5	153,5
SB-769520	EFXE-769520SB	36,1	72,2	108,3	126,3	162,4	180,5	198,5
SB-1258040	EFXE-1258040SB	36,1	72,2	108,3	126,3	162,4	180,5	198,5

Enclosure types (Stainless steel)		Maximum power dissipation (W) – Tamb. up to **55**°C						
		INTERNAL TEMP.65°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
SB-101210	EFXE-101210SB	2,7	4,1	6,9	8,3	11,1	12,5	13,9
SB-151510	EFXE-151510SB	4,0	6,0	10,0	12,0	16,0	18,0	20,0
SB-142013	EFXE-142013SB	5,2	7,8	13,1	15,7	20,9	23,5	26,2
SB-202010	EFXE-202010SB	5,3	8,0	13,4	16,1	21,4	24,1	26,8
SB-202016	EFXE-202016SB	6,9	10,4	17,4	20,8	27,8	31,3	34,8
SB-202713	EFXE-202713SB	7,2	10,8	18,0	21,6	28,9	32,5	36,1
SB-272713	EFXE-272713SB	8,3	12,5	20,9	25,1	33,5	37,7	41,8
SB-203016	EFXE-203016SB	8,5	12,8	21,4	25,7	34,3	38,6	42,9
SB-273513	EFXE-273513SB	9,6	14,4	24,1	28,9	38,5	43,3	48,2
SB-282816	EFXE-282816SB	9,6	14,5	24,2	29,0	38,7	43,6	48,4
SB-204016	EFXE-204016SB	10,1	15,1	25,2	30,3	40,4	45,5	50,5
SB-353516	EFXE-353516SB	12,2	18,3	30,5	36,6	48,8	54,9	61,0
SB-282827	EFXE-282827SB	13,1	19,6	32,8	39,3	52,5	59,0	65,6
SB-355016	EFXE-355016SB	14,8	22,2	37,1	44,5	59,4	66,8	74,3
SB-383816	EFXE-383816SB	13,3	19,9	33,2	39,9	53,2	59,8	66,5
SB-384516	EFXE-384516SB	14,5	21,8	36,4	43,7	58,3	65,6	72,9
SB-385716	EFXE-385716SB	16,7	25,0	41,8	50,1	66,8	75,2	83,6
SB-505016	EFXE-505016SB	17,9	26,9	44,8	53,8	71,7	80,7	89,7
SB-383827	EFXE-383827SB	17,5	26,3	43,9	52,7	70,2	79,0	87,8
SB-575716	EFXE-575716SB	20,7	31,1	51,9	62,3	83,1	93,5	103,9
SB-577620	EFXE-577620SB	26,9	40,4	67,4	80,9	107,9	121,3	134,8
SB-575730	EFXE-575730SB	27,9	41,8	69,7	83,7	111,6	125,6	139,5
SB-769520	EFXE-769520SB	36,1	54,1	90,2	108,3	144,4	162,4	180,5
SB-1258040	EFXE-1258040SB	36,1	54,1	90,2	108,3	144,4	162,4	180,5

Enclosure types (Stainless steel)		Maximum power dissipation (W) – Tamb. up to **60**°C					
		INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
SB-101210	EFXE-101210SB	2,7	5,5	6,9	9,7	11,1	12,5
SB-151510	EFXE-151510SB	4,0	8,0	10,0	14,0	16,0	18,0
SB-142013	EFXE-142013SB	5,2	10,4	13,1	18,3	20,9	23,5
SB-202010	EFXE-202010SB	5,3	10,7	13,4	18,7	21,4	24,1
SB-202016	EFXE-202016SB	6,9	13,9	17,4	24,3	27,8	31,3
SB-202713	EFXE-202713SB	7,2	14,4	18,0	25,2	28,9	32,5
SB-272713	EFXE-272713SB	8,3	16,7	20,9	29,3	33,5	37,7
SB-203016	EFXE-203016SB	8,5	17,1	21,4	30,0	34,3	38,6
SB-273513	EFXE-273513SB	9,6	19,2	24,1	33,7	38,5	43,3
SB-282816	EFXE-282816SB	9,6	19,3	24,2	33,9	38,7	43,6
SB-204016	EFXE-204016SB	10,1	20,2	25,2	35,4	40,4	45,5
SB-353516	EFXE-353516SB	12,2	24,4	30,5	42,7	48,8	54,9
SB-282827	EFXE-282827SB	13,1	26,2	32,8	45,9	52,5	59,0
SB-355016	EFXE-355016SB	14,8	29,7	37,1	52,0	59,4	66,8
SB-383816	EFXE-383816SB	13,3	26,6	33,2	46,5	53,2	59,8
SB-384516	EFXE-384516SB	14,5	29,1	36,4	51,0	58,3	65,6
SB-385716	EFXE-385716SB	16,7	33,4	41,8	58,5	66,8	75,2
SB-505016	EFXE-505016SB	17,9	35,8	44,8	62,7	71,7	80,7
SB-383827	EFXE-383827SB	17,5	35,1	43,9	61,4	70,2	79,0
SB-575716	EFXE-575716SB	20,7	41,5	51,9	72,7	83,1	93,5
SB-577620	EFXE-577620SB	26,9	53,9	67,4	94,4	107,9	121,3
SB-575730	EFXE-575730SB	27,9	55,8	69,7	97,7	111,6	125,6
SB-769520	EFXE-769520SB	36,1	72,2	90,2	126,3	144,4	162,4
SB-1258040	EFXE-1258040SB	36,1	72,2	90,2	126,3	144,4	162,4

Enclosure types (Stainless steel)		Maximum power dissipation (W) – Tamb. up to **95**°C	
		INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
SB-101210	EFXE-101210SB	1,3	2,7
SB-151510	EFXE-151510SB	2,0	4,0
SB-142013	EFXE-142013SB	2,6	5,2
SB-202010	EFXE-202010SB	2,6	5,3
SB-202016	EFXE-202016SB	3,4	6,9
SB-202713	EFXE-202713SB	3,6	7,2
SB-272713	EFXE-272713SB	4,1	8,3
SB-203016	EFXE-203016SB	4,2	8,5
SB-273513	EFXE-273513SB	4,8	9,6
SB-282816	EFXE-282816SB	4,8	9,6
SB-204016	EFXE-204016SB	5,0	10,1
SB-353516	EFXE-353516SB	6,1	12,2
SB-282827	EFXE-282827SB	6,5	13,1
SB-355016	EFXE-355016SB	7,4	14,8
SB-383816	EFXE-383816SB	6,6	13,3
SB-384516	EFXE-384516SB	7,2	14,5
SB-385716	EFXE-385716SB	8,3	16,7
SB-505016	EFXE-505016SB	8,9	17,9
SB-383827	EFXE-383827SB	8,7	17,5
SB-575716	EFXE-575716SB	10,3	20,7
SB-577620	EFXE-577620SB	13,4	26,9
SB-575730	EFXE-575730SB	13,9	27,9
SB-769520	EFXE-769520SB	18,0	36,1
SB-1258040	EFXE-1258040SB	18,0	36,1

Power dissipation – Stainless steel enclosures ST series

Enclosure types (Stainless steel)		Maximum power dissipation (W) – Tamb. up to **40**°C						
		INTERNAL TEMP.60°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
ST-101210	EFXE-101210ST	5,5	8,3	11,1	12,5	15,3	16,7	18,1
ST-151510	EFXE-151510ST	8,0	12,0	16,0	18,0	22,0	24,0	26,1
ST-142013	EFXE-142013ST	10,4	15,7	20,9	23,5	28,8	31,4	34,0
ST-202010	EFXE-202010ST	10,7	16,1	21,4	24,1	29,5	32,2	34,8
ST-202016	EFXE-202016ST	13,9	20,8	27,8	31,3	38,3	41,7	45,2
ST-202713	EFXE-202713ST	14,4	21,6	28,9	32,5	39,7	43,3	46,9
ST-272713	EFXE-272713ST	16,7	25,1	33,5	37,7	46,0	50,2	54,4
ST-203016	EFXE-203016ST	17,1	25,7	34,3	38,6	47,2	51,4	55,7
ST-273513	EFXE-273513ST	19,2	28,9	38,5	43,3	53,0	57,8	62,6
ST-282816	EFXE-282816ST	19,3	29,0	38,7	43,6	53,3	58,1	63,0
ST-204016	EFXE-204016ST	20,2	30,3	40,4	45,5	55,6	60,6	65,7
ST-353516	EFXE-353516ST	24,4	36,6	48,8	54,9	67,1	73,2	79,3
ST-282827	EFXE-282827ST	26,2	39,3	52,5	59,0	72,2	78,7	85,3
ST-355016	EFXE-355016ST	29,7	44,5	59,4	66,8	81,7	89,1	96,6
ST-383816	EFXE-383816ST	26,6	39,9	53,2	59,8	73,1	79,8	86,5
ST-384516	EFXE-384516ST	29,1	43,7	58,3	65,6	80,2	87,5	94,8
ST-385716	EFXE-385716ST	33,4	50,1	66,8	75,2	91,9	100,3	108,7
ST-505016	EFXE-505016ST	35,8	53,8	71,7	80,7	98,6	107,6	116,6
ST-383827	EFXE-383827ST	35,1	52,7	70,2	79,0	96,6	105,4	114,2
ST-575716	EFXE-575716ST	41,5	62,3	83,1	93,5	114,3	124,7	135,1
ST-577620	EFXE-577620ST	53,9	80,9	107,9	121,3	148,3	161,8	175,3
ST-575730	EFXE-575730ST	55,8	83,7	111,6	125,6	153,5	167,5	181,4
ST-769520	EFXE-769520ST	72,2	108,3	144,4	162,4	198,5	216,6	234,6
ST-1258040	EFXE-1258040ST	72,2	108,3	144,4	162,4	198,5	216,6	234,6

Enclosure types (Stainless steel)		Maximum power dissipation (W) – Tamb. up to **50**°C						
		INTERNAL TEMP.60°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
ST-101210	EFXE-101210ST	2,7	5,5	8,3	9,7	12,5	13,9	15,3
ST-151510	EFXE-151510ST	4,0	8,0	12,0	14,0	18,0	20,0	22,0
ST-142013	EFXE-142013ST	5,2	10,4	15,7	18,3	23,5	26,2	28,8
ST-202010	EFXE-202010ST	5,3	10,7	16,1	18,7	24,1	26,8	29,5
ST-202016	EFXE-202016ST	6,9	13,9	20,8	24,3	31,3	34,8	38,3
ST-202713	EFXE-202713ST	7,2	14,4	21,6	25,2	32,5	36,1	39,7
ST-272713	EFXE-272713ST	8,3	16,7	25,1	29,3	37,7	41,8	46,0
ST-203016	EFXE-203016ST	8,5	17,1	25,7	30,0	38,6	42,9	47,2
ST-273513	EFXE-273513ST	9,6	19,2	28,9	33,7	43,3	48,2	53,0
ST-282816	EFXE-282816ST	9,6	19,3	29,0	33,9	43,6	48,4	53,3
ST-204016	EFXE-204016ST	10,1	20,2	30,3	35,4	45,5	50,5	55,6
ST-353516	EFXE-353516ST	12,2	24,4	36,6	42,7	54,9	61,0	67,1
ST-282827	EFXE-282827ST	13,1	26,2	39,3	45,9	59,0	65,6	72,2
ST-355016	EFXE-355016ST	14,8	29,7	44,5	52,0	66,8	74,3	81,7
ST-383816	EFXE-383816ST	13,3	26,6	39,9	46,5	59,8	66,5	73,1
ST-384516	EFXE-384516ST	14,5	29,1	43,7	51,0	65,6	72,9	80,2
ST-385716	EFXE-385716ST	16,7	33,4	50,1	58,5	75,2	83,6	91,9
ST-505016	EFXE-505016ST	17,9	35,8	53,8	62,7	80,7	89,7	98,6
ST-383827	EFXE-383827ST	17,5	35,1	52,7	61,4	79,0	87,8	96,6
ST-575716	EFXE-575716ST	20,7	41,5	62,3	72,7	93,5	103,9	114,3
ST-577620	EFXE-577620ST	26,9	53,9	80,9	94,4	121,3	134,8	148,3
ST-575730	EFXE-575730ST	27,9	55,8	83,7	97,7	125,6	139,5	153,5
ST-769520	EFXE-769520ST	36,1	72,2	108,3	126,3	162,4	180,5	198,5
ST-1258040	EFXE-1258040ST	36,1	72,2	108,3	126,3	162,4	180,5	198,5

Enclosure types (Stainless steel)		Maximum power dissipation (W) – Tamb. up to **55**°C						
		INTERNAL TEMP.65°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
ST-101210	EFXE-101210ST	2,7	4,1	6,9	8,3	11,1	12,5	13,9
ST-151510	EFXE-151510ST	4,0	6,0	10,0	12,0	16,0	18,0	20,0
ST-142013	EFXE-142013ST	5,2	7,8	13,1	15,7	20,9	23,5	26,2
ST-202010	EFXE-202010ST	5,3	8,0	13,4	16,1	21,4	24,1	26,8
ST-202016	EFXE-202016ST	6,9	10,4	17,4	20,8	27,8	31,3	34,8
ST-202713	EFXE-202713ST	7,2	10,8	18,0	21,6	28,9	32,5	36,1
ST-272713	EFXE-272713ST	8,3	12,5	20,9	25,1	33,5	37,7	41,8
ST-203016	EFXE-203016ST	8,5	12,8	21,4	25,7	34,3	38,6	42,9
ST-273513	EFXE-273513ST	9,6	14,4	24,1	28,9	38,5	43,3	48,2
ST-282816	EFXE-282816ST	9,6	14,5	24,2	29,0	38,7	43,6	48,4
ST-204016	EFXE-204016ST	10,1	15,1	25,2	30,3	40,4	45,5	50,5
ST-353516	EFXE-353516ST	12,2	18,3	30,5	36,6	48,8	54,9	61,0
ST-282827	EFXE-282827ST	13,1	19,6	32,8	39,3	52,5	59,0	65,6
ST-355016	EFXE-355016ST	14,8	22,2	37,1	44,5	59,4	66,8	74,3
ST-383816	EFXE-383816ST	13,3	19,9	33,2	39,9	53,2	59,8	66,5
ST-384516	EFXE-384516ST	14,5	21,8	36,4	43,7	58,3	65,6	72,9
ST-385716	EFXE-385716ST	16,7	25,0	41,8	50,1	66,8	75,2	83,6
ST-505016	EFXE-505016ST	17,9	26,9	44,8	53,8	71,7	80,7	89,7
ST-383827	EFXE-383827ST	17,5	26,3	43,9	52,7	70,2	79,0	87,8
ST-575716	EFXE-575716ST	20,7	31,1	51,9	62,3	83,1	93,5	103,9
ST-577620	EFXE-577620ST	26,9	40,4	67,4	80,9	107,9	121,3	134,8
ST-575730	EFXE-575730ST	27,9	41,8	69,7	83,7	111,6	125,6	139,5
ST-769520	EFXE-769520ST	36,1	54,1	90,2	108,3	144,4	162,4	180,5
ST-1258040	EFXE-1258040ST	36,1	54,1	90,2	108,3	144,4	162,4	180,5

Enclosure types (Stainless steel)		Maximum power dissipation (W) – Tamb. up to **60**°C					
		INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
ST-101210	EFXE-101210ST	2,7	5,5	6,9	9,7	11,1	12,5
ST-151510	EFXE-151510ST	4,0	8,0	10,0	14,0	16,0	18,0
ST-142013	EFXE-142013ST	5,2	10,4	13,1	18,3	20,9	23,5
ST-202010	EFXE-202010ST	5,3	10,7	13,4	18,7	21,4	24,1
ST-202016	EFXE-202016ST	6,9	13,9	17,4	24,3	27,8	31,3
ST-202713	EFXE-202713ST	7,2	14,4	18,0	25,2	28,9	32,5
ST-272713	EFXE-272713ST	8,3	16,7	20,9	29,3	33,5	37,7
ST-203016	EFXE-203016ST	8,5	17,1	21,4	30,0	34,3	38,6
ST-273513	EFXE-273513ST	9,6	19,2	24,1	33,7	38,5	43,3
ST-282816	EFXE-282816ST	9,6	19,3	24,2	33,9	38,7	43,6
ST-204016	EFXE-204016ST	10,1	20,2	25,2	35,4	40,4	45,5
ST-353516	EFXE-353516ST	12,2	24,4	30,5	42,7	48,8	54,9
ST-282827	EFXE-282827ST	13,1	26,2	32,8	45,9	52,5	59,0
ST-355016	EFXE-355016ST	14,8	29,7	37,1	52,0	59,4	66,8
ST-383816	EFXE-383816ST	13,3	26,6	33,2	46,5	53,2	59,8
ST-384516	EFXE-384516ST	14,5	29,1	36,4	51,0	58,3	65,6
ST-385716	EFXE-385716ST	16,7	33,4	41,8	58,5	66,8	75,2
ST-505016	EFXE-505016ST	17,9	35,8	44,8	62,7	71,7	80,7
ST-383827	EFXE-383827ST	17,5	35,1	43,9	61,4	70,2	79,0
ST-575716	EFXE-575716ST	20,7	41,5	51,9	72,7	83,1	93,5
ST-577620	EFXE-577620ST	26,9	53,9	67,4	94,4	107,9	121,3
ST-575730	EFXE-575730ST	27,9	55,8	69,7	97,7	111,6	125,6
ST-769520	EFXE-769520ST	36,1	72,2	90,2	126,3	144,4	162,4
ST-1258040	EFXE-1258040ST	36,1	72,2	90,2	126,3	144,4	162,4

Enclosure types (Stainless steel)		Maximum power dissipation (W) – Tamb. up to **95**°C	
		INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
ST-101210	EFXE-101210ST	1,3	2,7
ST-151510	EFXE-151510ST	2,0	4,0
ST-142013	EFXE-142013ST	2,6	5,2
ST-202010	EFXE-202010ST	2,6	5,3
ST-202016	EFXE-202016ST	3,4	6,9
ST-202713	EFXE-202713ST	3,6	7,2
ST-272713	EFXE-272713ST	4,1	8,3
ST-203016	EFXE-203016ST	4,2	8,5
ST-273513	EFXE-273513ST	4,8	9,6
ST-282816	EFXE-282816ST	4,8	9,6
ST-204016	EFXE-204016ST	5,0	10,1
ST-353516	EFXE-353516ST	6,1	12,2
ST-282827	EFXE-282827ST	6,5	13,1
ST-355016	EFXE-355016ST	7,4	14,8
ST-383816	EFXE-383816ST	6,6	13,3
ST-384516	EFXE-384516ST	7,2	14,5
ST-385716	EFXE-385716ST	8,3	16,7
ST-505016	EFXE-505016ST	8,9	17,9
ST-383827	EFXE-383827ST	8,7	17,5
ST-575716	EFXE-575716ST	10,3	20,7
ST-577620	EFXE-577620ST	13,4	26,9
ST-575730	EFXE-575730ST	13,9	27,9
ST-769520	EFXE-769520ST	18,0	36,1
ST-1258040	EFXE-1258040ST	18,0	36,1

Maximum Power Dissipation calculation

The values specified in the tables as per clause 2.1.1 may be modified within the maximum admitted Tamb and maximum admitted internal temperature as follows.

$$Pdiss\ (W) = \frac{Tmax - Tamb}{Rth}$$

$Rth = A \times (\text{enclosure surface in } mm^2 \text{ except enclosure bottom})^{B}$

Legend:
Rth – Thermal resistance [K/W].
Tmax – Maximum allowed temperature inside enclosure.
Tamb – Ambient temperature of enclosure
A and B - coefficients determined for each series of enclosure. Exact values are given in manufacturer's documentation.

Warning labels:

WARNING – DO NOT OPEN WHEN ENERGIZED (*)
(*) Not mandatory for apparatus with protection type Ex ia Ga and Ex ib Gb.

WARNING – POTENTIAL ELECTROSTATIC CHARGING HAZARD – SEE INSTRUCTIONS

To be added when the enclosures or parts of them have a surface resistance more than 10^9 Ω or 10^{11} Ω according to IEC 60079-0 Clause 7.4.2 a), as applicable, and as per following cases:

- are equipped with transparent parts made of polycarbonate.
- for category II 2 G / EPL Gb Gas group IIC: are painted and the paint layer thickness is > 0.2mm.
- for category II 2 G / EPL Gb Gas group IIB: are painted and the paint layer thickness is > 2mm.
- for category II 2 D / EPL Db: are painted and the paint layer thickness is > 2mm.
- for category II 2 G / EPL Gb Gas group IIC: not conductive individual materials (labels), applied on painted enclosures, have exposed (chargeable area) > 2000mm^2 or, not conductive individual materials (labels), applied on unpainted (conductive earthed surface) enclosures, have exposed (chargeable area) > 8000mm^2.
- for category II 2 G /EPL Gb Gas group IIB: not conductive individual materials (labels), applied on painted enclosures, have exposed (chargeable area) > 10000mm^2 or, not conductive individual materials (labels), applied on unpainted (conductive earthed surface) enclosures, have exposed (chargeable area) > 40000mm^2.

OPEN THE VALVE ONLY WHEN THE APPARATUS IS DE-ENERGIZED AND ONLY WHEN AN EXPLOSIVE DUST ATMOSPHERE IS NOT PRESENT
To be added on Ex tb apparatus equipped with the drain / venting device ECR3.

Other warnings depend on the components actually mounted, according to the component manufacturer's documentation.

The tables below state the maximum power dissipation values (W) related to the internal temperature (Tint) and ambient temperature (Tamb).

ITEM	Tag	EJB-200N1-02-L1-06	: JB - NORMAL LIGHTING	Dwg	123A90-DDL-EL-DL-20118
	S/Sys	83-40	: Normal Lighting Upper Deck	Module	UD
TASK	code	C10001627	Location: Onshore Activities	User	Rosetti Marino Quality Control
FORM	Process	MC	Activity: CCK / Discipline: ATEX / Form: CJX01		Hazardous Area Equipment Detailed Inspection

Schedule Ref. #				**Area Code**					
Area Class Drawing	123A90-DDL-SAF-DL-30022			**Serial No.**		24P00297990002			
Manufacturer	TECNOR ITALSMEA			**Model**		AQ-252612P			
Cert No.	21ATEX 0090X-FIDI 21 0015X			**Equipment Ambient Temp.**		-20 C° to +40 C°			
Area Classification	hazardous	**Zone**	2	**Gas group**	IIC	**Temp class**	T1		
Equipment Protection Type	Ex eb	**EPL**	Gb	**Gas group**	IIC	**Temp class**	T6	**IP Rating**	IP66

Detailed Note:

1) Inspection shall only be performed by competent personnel

2) All fields are to be completed. Any non-applicable field shall state “NA”. Comments are required for ‘Failure’ column ONLY.

3) An Inspection Sheet should be completed for EACH individual item of Equipment.

	General Equipment	Detailed	OK/NA/PL	Comments
1	Equipment is appropriate to the EPL / Zone requirements of the area	x	OK	
2	Equipment group is correct	x	OK	
3	Equipment temperature class is correct	x	OK	
4	Degree of IP protection of equipment is appropriate for the level of protection	x	OK	
5	Equipment circuit identification is correct	x	OK	
6	Equipment circuit identification is available	x	OK	
7	Enclosure glass parts and glass-to-metal sealing gaskets and / or compounds are satisfactory	x	NA	
8	There is no damage or unauthorized modifications	x	OK	
9	There is no evidence of unauthorized modifications	x	OK	
10	Bolts, cable entry devices (direct and indirect) & blanking elements are of the correct type, are complete & tight		OK	
	Physical check	x	OK	
11	Threaded covers on enclosures are of the correct type, are tight and secured		NA	
	Physical check	x	NA	
12	Joint surfaces are clean and undamaged and gaskets, if any, are satisfactory and positioned correctly	x	OK	
13	Condition of enclosure gaskets is satisfactory	x	OK	
14	There is no evidence or ingress of water or dust in the enclosure in accordance with the IP rating	x	OK	
15	Electrical connections are tight	x	OK	
16	Bridging links do not reduce creepage / clearance and are allowed	x	NA	
17	Unused terminals are tightened	x	OK	
18	Encapsulated components are undamaged	x	NA	
19	Flameproof components are undamaged	x	NA	
20	Fluorescent lamps are not indicating EOL effects (only for Ex “e” – Ex “n” – Ex “t”)	x	NA	
21	HID lamps are not indicating EOL effects	x	NA	
22	Lamp type, rating, pin configuration and position are correct	x	NA	
23	Breathing and drainage devices are satisfactory	x	OK	
24	Type of cable is appropriate	x	OK	
25	There is no obvious damage to the cables	x	OK	
26	Cable glands are the correct type and installed correctly	x	OK	
27	Sealing of trunking, ducts, pipes and or conduits is satisfactory	x	NA	
28	Stopping boxes and cable boxes are corrected filled	x	OK	

ITEM	Tag	EJB-200N1-02-L1-06	: JB - NORMAL LIGHTING			Dwg	123A90-DDL-EL-DL-20118
	S/Sys	83-40	: Normal Lighting Upper Deck			Module	UD
TASK	code	C10001627		Location	Onshore Activities	User	Rosetti Marino Quality Control
FORM	Process	MC	Activity CCK	Discipline	ATEX	Form	CJX01 Hazardous Area Equipment Detailed Inspection

29	Integrity of conduit system and interface with mixed system maintained	x	NA	
30	Earthing connections, including any supplementary earthing bonding connections are satisfactory (for example connections are tight and conductors are of sufficient cross-section		PL	
	Physical check	x	OK	
31	Automated electric protective devices operate within permitted limits	x	NA	
32	Special conditions (if applicable) have been complied with.	x	NA	
33	All cable cores are uniquely labeled	x	OK	
34	Cable cores not in use are correctly terminated	x	PL	
35	Equipment is adequately protected against corrosion, weather, vibration and other adverse factors	x	OK	
36	No undue accumulation of dust and dirt	x	OK	
37	All equipment housings are clean and dry	x	OK	
38	All moving parts are free and have no mechanical damage	x	OK	
	Applicable for Installation of Heating Systems			
39	Temperature sensors function according to manufacturer's documents (only applicable for Ex-d e Ex-e)	x	NA	
40	Safety cut off devices function according to manufacturer's documents (only applicable for Ex-d e Ex-e)	x	NA	
41	The setting of the safety cut off is sealed (only applicable for Ex-d e Ex-e)	x	NA	
42	Reset of a heating system safety cut off possible with tool only(only applicable for Ex-d e Ex-e)	x	NA	
43	Auto-reset is not possible (only applicable for Ex-d e Ex-e)	x	NA	
44	Reset of a safety cut off under fault conditions is prevented (only applicable for Ex-d e Ex-e)	x	NA	
45	Safety cut off independent from control system (only applicable for Ex-d e Ex-e)	x	NA	
46	Level switch is installed and correctly set, if required (only applicable for Ex-d e Ex-e)	x	NA	
47	Flow switch is installed and correctly set, if required (only applicable for Ex-d e Ex-e)	x	NA	
	Extra Ex d checks			
48	Obstructions adjacent to flame proof flanged joints are in accordance with IEC 60079-14	x	NA	
49	Ex d conduits seals are fitted to all conduits and satisfactorily sealed	x	NA	
50	Cable glands are of the correct type and installed correctly	x	NA	
51	Adaptors, reducers, stop ends, etc. are all certified Ex d	x	NA	
52	Flame path are clean and undamaged	x	NA	
53	Flange gap dimensions are within tolerances	x	NA	
54	Motor fans have sufficient clearance to the enclosure and/or covers, cooling systems are undamaged, motor foundations have no indentations or cracks	x	NA	
55	The ventilation airflow is not impeded	x	NA	
56	Insulation resistance (IR) of the motor windings is satisfactory	x	NA	
57	Fault loop impedance (TN systems) or earthing resistance (IT systems) is satisfactory	x	NA	
58	Variable voltage/frequency installation complies with documentation	x	NA	
	Extra Ex e checks			
59	All Equipment is Ex e certified (including components within enclosure)	x	OK	
60	Power conductors are not bunched together causing possible hot spots	x	PL	
61	Motor fans have sufficient clearance to the enclosure and/or covers, cooling systems are undamaged, motor foundations have no indentations or cracks	x	NA	
62	Insulation resistance (IR) of the motor windings is satisfactory	x	NA	
63	Fault loop impedance (TN systems) or earthing resistance (IT systems) is satisfactory	x	NA	
64	The ventilation airflow is not impeded	x	NA	
65	Motor protection devices operate within the permitted tE or tA time limits.	x	NA	
66	Variable voltage/frequency installation complies with documentation	x	NA	

ITEM	Tag	EJB-200N1-02-L1-06	: JB - NORMAL LIGHTING		Dwg	123A90-DDL-EL-DL-20118	
	S/Sys	83-40	: Normal Lighting Upper Deck		Module	UD	
TASK	code	C10001627	Location	Onshore Activities	User	Rosetti Marino Quality Control	
FORM	Process	MC	Activity CCK	Discipline ATEX	Form	CJX01	Hazardous Area Equipment Detailed Inspection

Extra Ex n (nR, nL) checks				
67	All Terminals are Ex n certified (if required on certificate)	x	NA	
68	Hermetically sealed and enclosed break devices are undamaged	x	NA	
69	Restricted breathing properties satisfactory (conduct vacuum test)	x	NA	
70	Test port, if fitted, is functional (type “nR” only)	x	NA	
71	Breathing operation is satisfactory (type “nR” only)	x	NA	
72	Motor fans have sufficient clearance to the enclosure and/or covers, cooling systems are	x	NA	
73	The ventilation airflow is not impeded	x	NA	
74	Insulation resistance (IR) of the motor windings is satisfactory	x	NA	
75	Motor protection devices operate within the permitted tE or tA time limits.	x	NA	
76	Variable voltage/frequency installation complies with documentation	x	NA	
Extra Ex p checks				
77	Pressurization gas is correct type	x	NA	
78	Actual pressure is within maximum and minimum settings for equipment	x	NA	
79	Timers set as per certification documentation	x	NA	
80	Alarms and trip functions operate correctly as per certification documentation	x	NA	
81	Fault loop impedance (TN systems) or earthing resistance (IT systems) is satisfactory	x	NA	
82	Automatic electrical protective devices operate within permitted limits	x	NA	
83	Automatic electrical protective devices are set correctly	x	NA	
84	Protective gas inlet temperature is below maximum specified	x	NA	
85	Ducts, pipes and enclosures are in good condition	x	NA	
86	Protective gas is substantially free from contaminants	x	NA	
87	Protective gas pressure and/or flow is adequate	x	NA	
88	Pressure and/or flow indicators, alarms and interlocks function correctly	x	NA	
89	Conditions of spark and particle barriers of ducts for exhausting the gas in hazardous area are satisfactory	x	NA	
90	Specific conditions of use (if applicable) are complied with		NA	
Extra Ex i (Intrinsically Safe – IS) checks				
91	Equipment has adequate circuit identification for ‘IS’ Installation	x	NA	
92	Cables are installed in accordance with the documentation	x	NA	
93	Segregation is maintained between IS and non-IS Circuits	x	NA	
94	Cable screens are isolated at one end (field side)	x	NA	
95	Cable screens are earthed in accordance with the documentation	x	NA	
96	Safety barrier units, relays and other energy limiting devices are of the approved type, installed in	x	NA	
97	Equipment installed is the one specified in the documentation	x	NA	
98	Ambient temperature range of the apparatus is correct for the installation	x	NA	
99	Service temperature range of the apparatus is correct for the installation	x	NA	
100	Installation is clearly labelled	x	NA	
101	Printed circuit boards are clean and undamaged	x	NA	
102	The maximum voltage Um of the associated apparatus is not exceeded	x	NA	
103	Point-to-point connections are all correct	x	NA	
104	Earth continuity is satisfactory (e.g. connections are tight, conductors are of sufficient cross-section)	x	NA	
105	Earth connections maintain the integrity of the type of protection	x	NA	
106	Intrinsically safe circuit earthing is satisfactory	x	NA	
107	Insulation resistance is satisfactory	x	NA	
108	Short-circuit protection of the power supply is in accordance with the documentation	x	NA	

	BARRIER:	**Manufacturer:**	NA	**Model:**	NA	
		Authority:	NA	**Cert No:**	NA	**Type:**

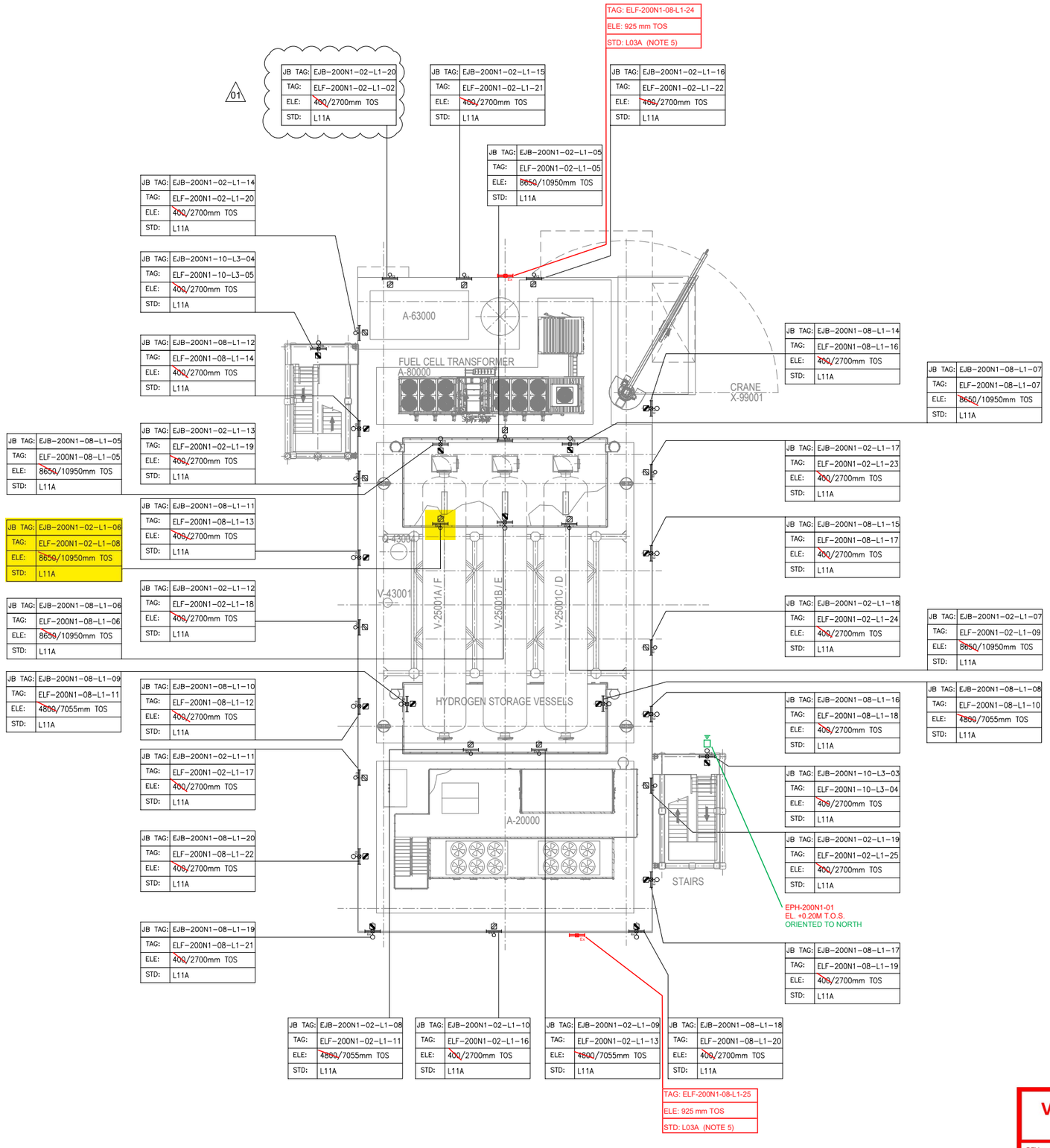
Remarks: Initial inspection should be detailed and carried out before equipment is brought into service as per IEC 60079-17

Please mark only one box as appropriate	
●	**Passed - Complete**
	Failed

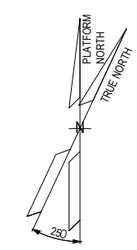
Page 3/3	Performed by	☐ WITNESS ☐ REVIEW	☐ WITNESS ☐ REVIEW
Company	ICS IMPIANTI	RM(ROSETTI)	
Name	Michele Tartaglia	Alessio Polo	
Date	2025-01-14	2025-01-18	
Signature	PROVERLIS Digitaly signed by Michele Tartaglia 2025-01-14T08:47:35.360Z	PROVERLIS Digitaly signed by Alessio Polo 2025-01-18T13:10:58.329Z	

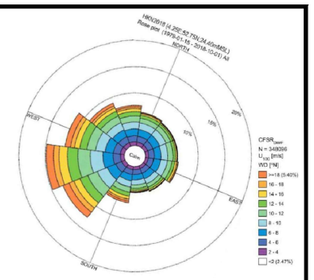
DRAWING NO. 123A90-DDL-EL-DL-20118

REV. 01



PLAN ON UPPER DECK
EL+30.310 T.O.S.





NOTES

1. ALL DIMENSIONS AND ELEVATIONS ARE GIVEN IN mm UNLESS OTHERWISE NOTED.
2. ELEVATIONS REFER TO T.O.S.
3. ELEVATION OF THE LAMPS ARE REFFERED TO THE BOTTOM OF THE LAMP.
4. FOR THE ELEVATION OF JB, REFER TO THE TYPICAL INSTALLATION.
5. FOR ELF-200N1-08-L1-24 AND ELF-200N1-08-L1-25 CONSTRUCTION DETAILS REFER TO DOC. 123A90-DDL-ST-DD-90076

LEGEND

- EMERGENCY LIGHTING JB
- 60W LED EMERGENCY LUMINARIES
- 60W LED EMERGENCY LUMINARIES FIXTURE POLE MOUNTED
- NORMAL LIGHTING JB
- 45W LED NORMAL LUMINARIES
- 45W LED NORMAL LUMINARIES FIXTURE POLE MOUNTED
- WELDING SOCKET WITH INTEGRATED JB
- SMALL POWER SOCKET WITH INTEGRATED JB
- TWILIGHT RELAY SENSOR

JB TAG:	JB-TAG
TAG:	TAG
ELE:	ELEVATION
STD:	STANDARD

REFERENCE DOCUMENTS

123A90-DDL-PP-DL-70070	PLOT PLAN - LOWER & UPPER DECK
123A90-DDL-EL-DL-20100	ELECTRICAL EQUIPMENT LAYOUT - TOP DECK
123A90-DDL-EL-DD-20091	ELECTRICAL TYPICAL INSTALLATION DETAILS - LIGHTING SYSTEM
123A90-DDL-EL-DD-20092	ELECTRICAL TYPICAL INSTALLATION DETAILS - POWER SYSTEM & CABLE INSTALLATION
123A90-DDL-EL-RE-20153	LIGHTING CALCULATION STUDY REPORT
123A90-DDL-ST-DD-90076	IDENTIFICATION PANELS ASSEMBLY AND DETAILS

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	02/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	28/05/24	ASR	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DL-20118**

REV.:	DATE:	SIGNATURE:
1_G	09/01/25	V.Ramponi

ROSETTI MARINO SpA

CROSSWIND

ROSETTI MARINO

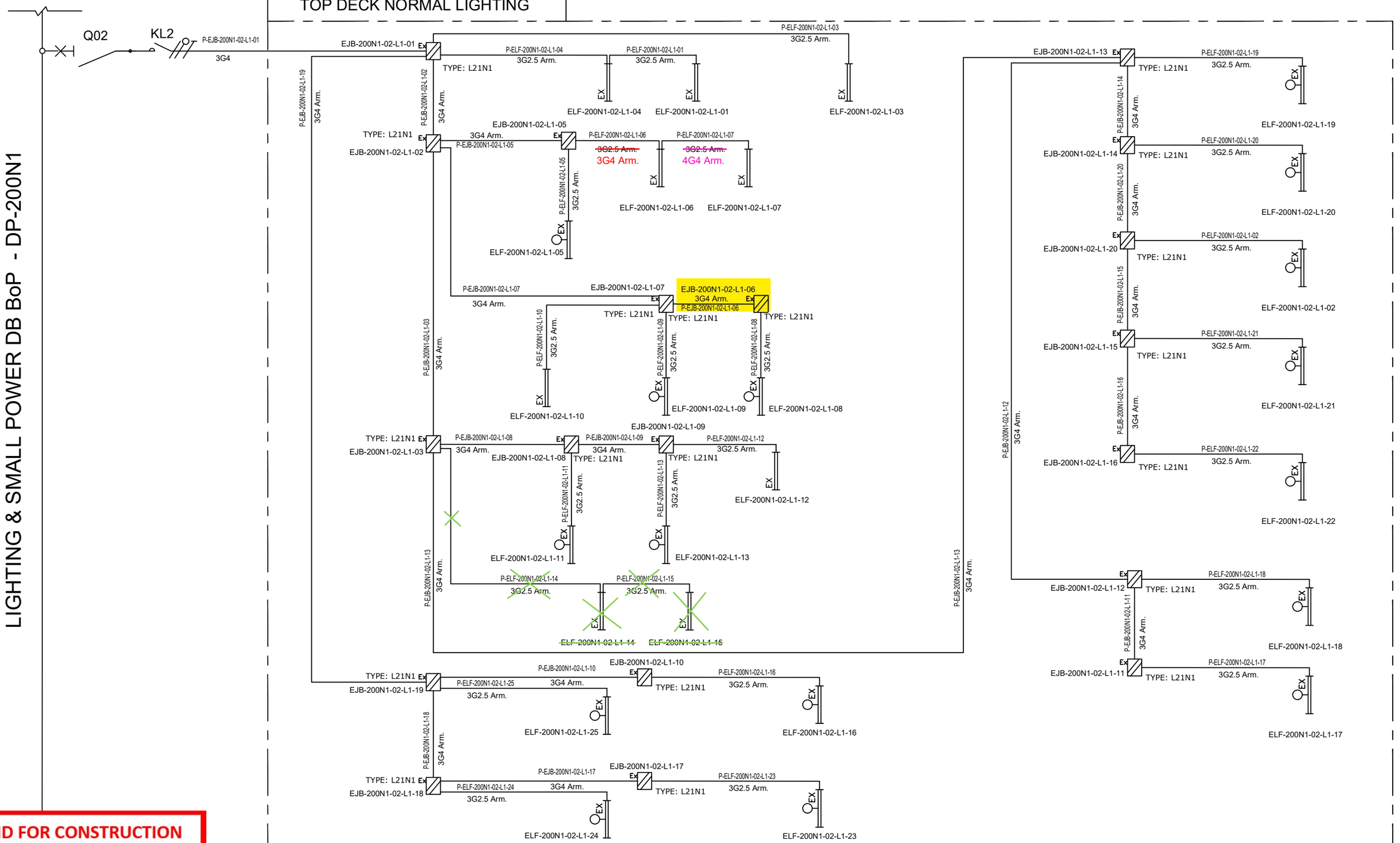
TITLE : BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET LAYOUT – TOP DECK

CONTRACT NO./TITLE CW-1-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK			SCALE 1:150
DRAWN ASR	CHECKED FMA/AMA	APPROVED FPA/DLO	DATE 01/08/24
A1	DRAWING NO. 123A90-DDL-EL-DL-20118	SHEET 1of2	REV. 01

File Name : 123A90-DDL-EL-DL-20118

LIGHTING & SMALL POWER DB BoP - DP-200N1

TOP DECK NORMAL LIGHTING



VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DG-20125**

REV.:	DATE:	SIGNATURE:
2_G	16/01/25	G.Randi

ROSETTI MARINO SpA

CROSSWIND

ROSETTI MARINO

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	08/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	01/07/24	ASR	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

TITLE : BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET CIRCUIT DIAGRAM
TOP DECK–NORMAL LIGHTING

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE : NTS

A3

DRAWING NO. 123A90–DDL–EL–DG–20125

SHEET 010

REV. 01

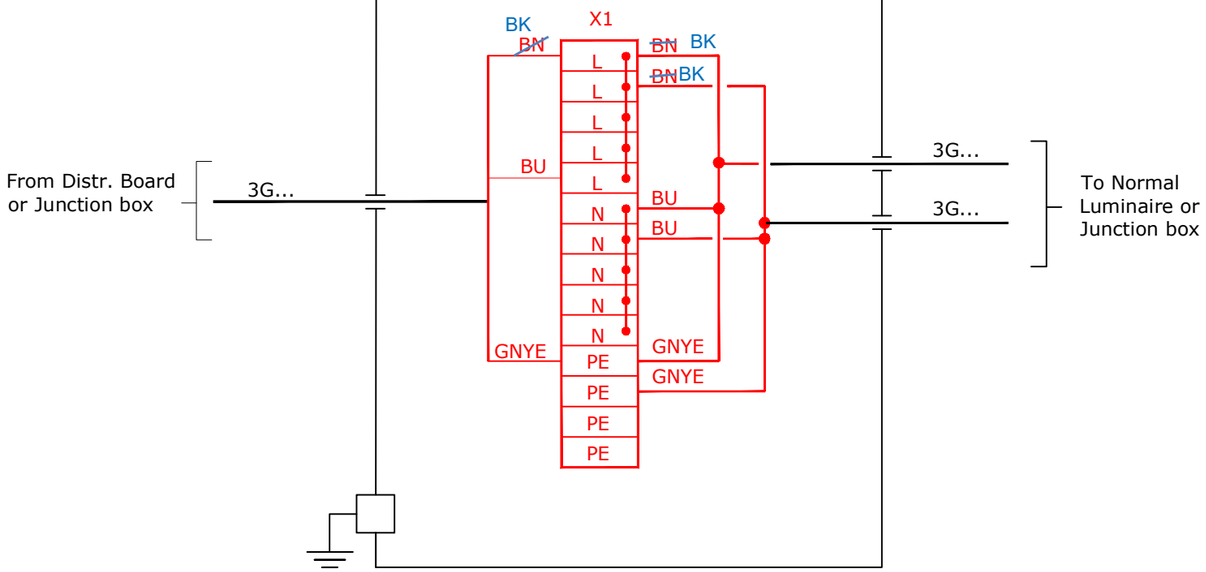
F.to UNI A3: 420mmx297mm

File Name : 123A90–DDL–EL–DG–20125

TYPE : L21N1 & L21N2

ITEM: NORMAL LIGHTING JUNCTION BOX

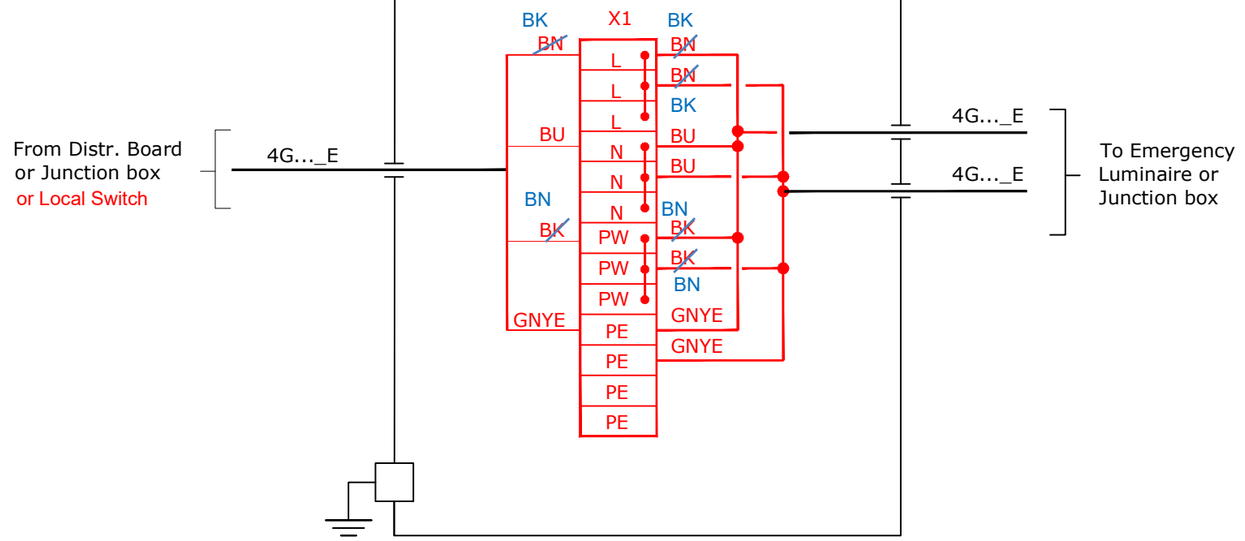
TAG : Typical



TYPE : L21E1 & L21E2

ITEM: EMERGENCY LIGHTING JUNCTION BOX

TAG : Typical



VALID FOR CONSTRUCTION

FDL DWG: **123A90-FDL-EL-DG-20125**

REV.:	DATE:	SIGNATURE:
2_G	16/01/25	G.Randi

ROSETTI MARINO SpA

CROSSWIND

ROSETTI MARINO

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	08/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)

TITLE : BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET CIRCUIT DIAGRAM
TYPICAL JB INTERCONNECTING DIAGRAM

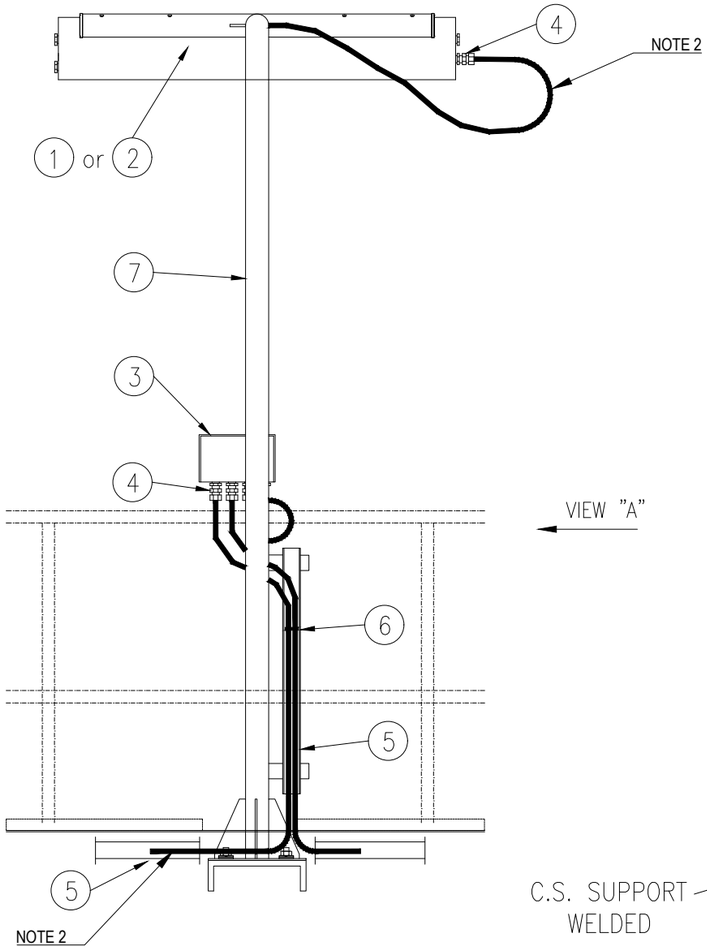
CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK | SCALE : NTS

A3	DRAWING NO.	SHEET	REV.
	123A90-DDL-EL-DG-20125	016	01

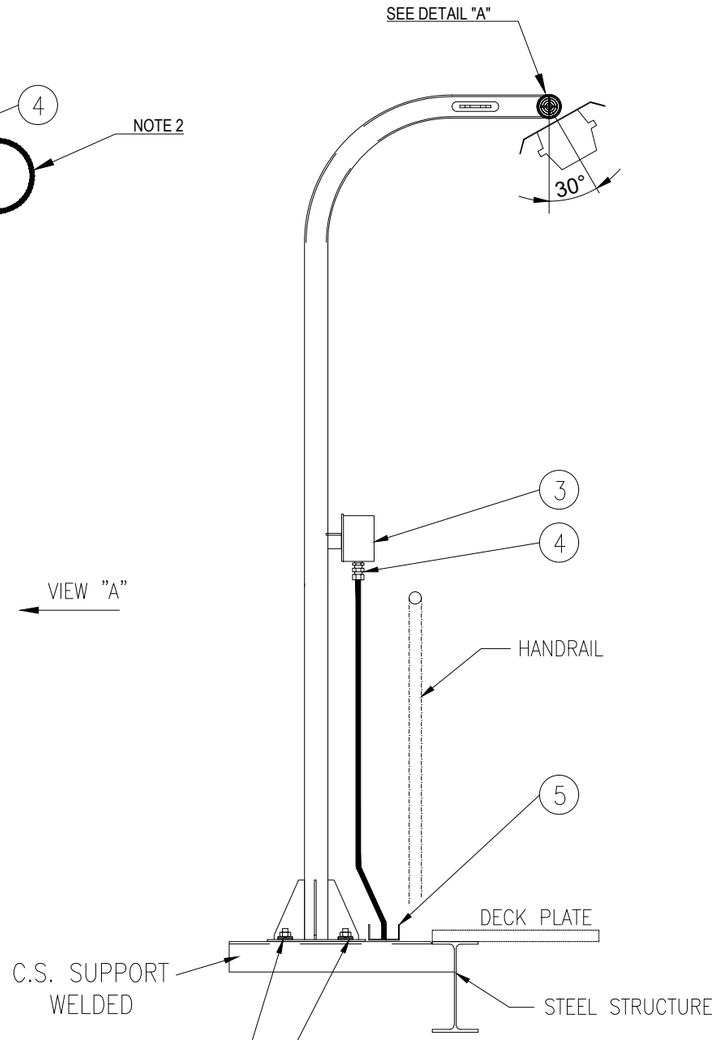
F.to UNI A3: 420mmx297mm

File Name : 123A90-DDL-EL-DG-20125

L11A

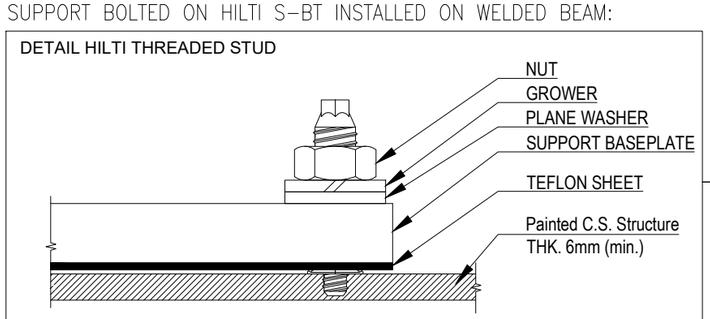


VIEW "A"

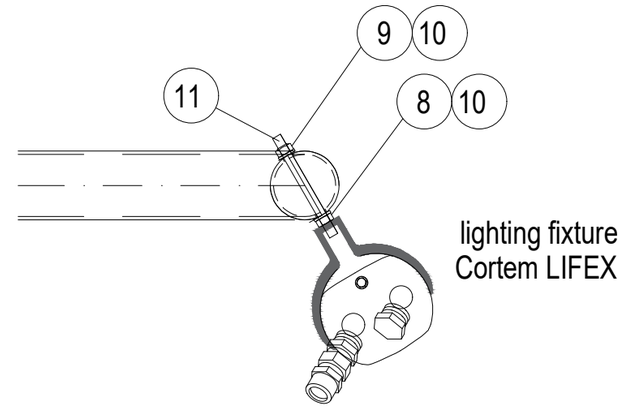


VIEW "A"

SUPPORT BOLTED ON HILTI S-BT INSTALLED ON WELDED BEAM:



POS.	DESCRIPTION	MATERIAL	SIZE	Q.TY	NOTE
1	42W LED LUMINARIES	ALUMINIUM ALLOY		1	
2	45W LED LUMINARIES C/W BATTERY	ALUMINIUM ALLOY		1	
3	JUNCTION BOX (Ex)	GRP		1	NOTE 1
4	CABLE GLAND C/W EARTH TAG, WASHERS, LOCKNUT AND WEATHERPROOF WASHERS	BRASS NICKEL PLATED		AS REQ.	
5	CABLE TRAY	AISI 316L			
6	STAINLESS STEEL NYLON COATED CABLE TIE	SS NYLON COATED			
7	POLE SUPPORT FOR LAMP	AISI 316L	2"		
8	NUT	AISI 316L	M8		
9	SELF.LOCKING NUT	AISI 316L	M8		
10	LARGE PLANE WASHER (24mm DIAM.)	AISI 316L	M8		
11	THREADED ROD M8x100	AISI 316L	M8		



DETAIL "A"

NOTES:

1) FOR LAMPS IN HAZARDOUS AREA, USE ARMOURED CABLE, DOUBLE SEAL CABLE GLAND AND EX JUNCTION BOX.

2) ALWAYS ENSURE CABLE LENGTH IS >3m

VALID FOR CONSTRUCTION

REV.:	DATE:	SIGNATURE:
2_B	12/12/24	C.Pilato

ROSETTI MARINO SpA

02

CROSSWIND

ROSETTI MARINO

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	30/09/24	GRA	AMA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	04/07/24	NLK	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	21/11/23	SPS	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL TYPICAL INSTALLATION DETAILS-LIGHTING SYSTEM
LIGHTING FIXTURE MOUNTED ON POLE

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK | SCALE : NTS

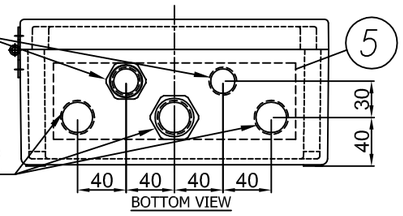
A3 | DRAWING NO. 123A90-DDL-EL-DD-20091 | SHEET 014 | REV. 02

F.to UNI A3: 420mmx297mm

File Name : 123A90-DDL-EL-DD-20091 REV.02.DWG

(10)(4) N°2 PASSING HOLES Ø20.2
C/W N°1 BNK PLUG M20 +
N°1 DUSTPROOF PVC PLUG

(3)(3) N°3 PASSING HOLES Ø25.2
C/W N°1 BNK PLUG M25 +
N°2 DUSTPROOF PVC PLUG



BOTTOM VIEW

(8) I2400722-B015I00029809

TECHNOR ITALSMEA
A COMPANY OF MARECHAL ELECTRIC
Via Italia 33 - 20060 Cassano (MI) ITALY

CE 0080 Ex II 2G II 2D
FIDI 21ATEX 0090X
IECEx FIDI 21.0015X
Year of construction:

MADE IN ITALY

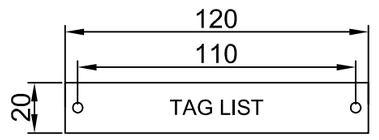
TYPE: AQ-252612P
230VAC 50Hz 20A
Max Dis. P. 6W

Ex eb IIC T6 Gb
Ex tb IIIC T85°C Db
IP66
T.amb. -20/+40°C
Serial Nr.

WARNINGS : DO NOT OPEN WHEN ENERGIZED

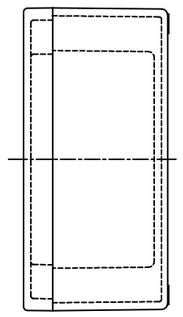
A002MAX

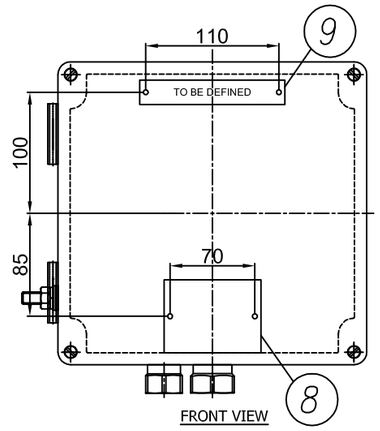
(9) PLATE DETAIL



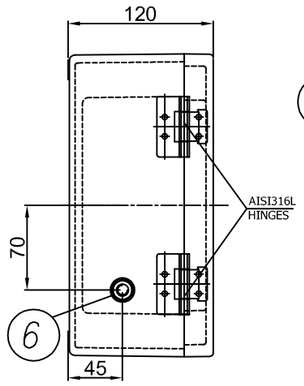
MATERIAL: LAMINATED PLASTIC
BACKGROUND: WHITE
LETTERS: BLACK

(7) Terminals numbered: NOTE 1

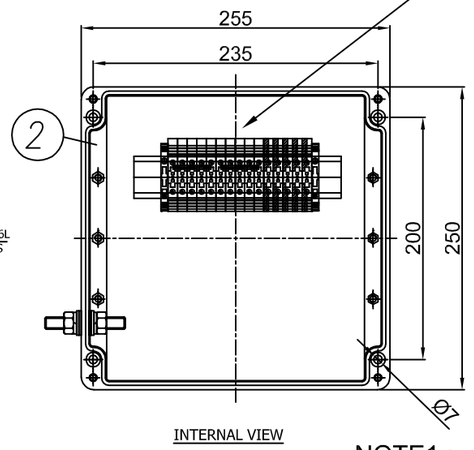

RIGHT VIEW



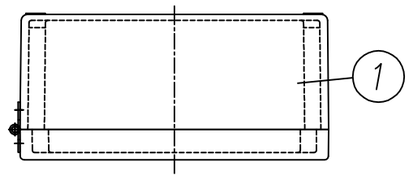
FRONT VIEW



LEFT VIEW



INTERNAL VIEW



TOP VIEW

NOTE1 :
- JB for Normal Lighting have terminals bridge: L-L-L-L-L, N-N-N-N-N, PE-PE-PE-PE-PE - JB for Emergency Lighting have terminals bridge: L-L-L, N-N-N, PW-PW-PW, PE-PE-PE-PE-PE

ITEM	DESCRIPTION	Pcs Q.TY	NOTE/MAT.	CODE	MANUFACTURER
11	DUSTPROOF PVC PLUG Ø25	2	–	.	TECHNOR ITALSMEA
10	DUSTPROOF PVC PLUG Ø20	1	–	.	TECHNOR ITALSMEA
9	LAMINATED PLASTIC TAG 120X20	1	–	.	TECHNOR ITALSMEA
8	AISI316L CERTIFICATE PLATE 80X60	1	–	.	TECHNOR ITALSMEA
7	BEIGE TERMINAL BLOCK SIZE 6 SQMM EARTH TERMINAL BLOCK SIZE 6 SQMM	10 5	WDU–6 WPE–6	.	WEIDMULLER
6	AISI316L INT/EXT EARTH BOLT M10	1	BTP–10	.	TECHNOR ITALSMEA
5	BRASS CONTINUITY PLATE THK. 0.8 MM	1	–	.	TECHNOR ITALSMEA
4	NICKEL PLATED BRASS PLUG M20	1	T20	.	TECHNOR ITALSMEA
3	NICKEL PLATED BRASS PLUG M25	1	T25	.	TECHNOR ITALSMEA
2	INTERNAL MOUNTING PLATE	1	PS–2526	.	TECHNOR ITALSMEA
1	GRP ENCLOSURE	1	AQ–252612P	.	TECHNOR ITALSMEA

-UNPAINTED (BLACK NATURAL)
Q.TY 92, ITEM 20: 2JBXXGPEE, ELEJB02

Explosion Proof
Electrical Equipment
Materiali Elettrici Antideflagranti
TECHNOR ITALSMEA
A COMPANY OF MARECHAL ELECTRIC

CROSSWIND

ROSETTI MARINO

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
05	20/12/24	FB	OB	OB	ACCEPTED FOR CONSTRUCTION (AFC)
04	26/11/24	FB	OB	OB	ACCEPTED FOR CONSTRUCTION (AFC)
03	25/10/24	FB	OB	OB	ACCEPTED FOR CONSTRUCTION (AFC)
02	12/09/24	FB	OB	OB	ACCEPTED FOR CONSTRUCTION (AFC)
01	03/09/24	FB	OB	OB	ACCEPTED FOR CONSTRUCTION (AFC)
00	30/07/24	FB	OB	OB	ISSUE FOR REVIEW (IFR)

TITLE : BASE LOAD POWER HUB (BLPH)

Junction Box for Normal & Emergency Lighting

CONTRACT NO./TITLE CW–I–WP4–2023–05/HOLLANDSE KUST NOORD WIND PARK | SCALE : NTS

A3 | DRAWING NO. 1724001481–EL–DA–00003 | SHEET 004 | REV. 05

F.to UNI A3: 420mmx297mm

File Name : 1724001481–EL–DA–00003 Rev. 01

ENCLOSURE N°	TAG LIST	NORMAL LIGHTING	EMERGENCY LIGHTING
1	EJB-200N1-03-L2-04	X	
2	EJB-200N1-03-L2-03	X	
3	EJB-200N1-03-L2-01	X	
4	EJB-200N1-03-L2-02	X	
5	EJB-200N1-03-L2-12	X	
6	EJB-200N1-03-L2-11	X	
7	EJB-200N1-03-L2-10	X	
8	EJB-200N1-03-L2-09	X	
9	EJB-200N1-03-L2-08	X	
10	EJB-200N1-03-L2-07	X	
11	EJB-200N1-03-L2-06	X	
12	EJB-200N1-03-L2-05	X	
13	EJB-200N1-03-L2-14	X	
14	EJB-200N1-03-L2-13		X
15	EJB-200N1-09-L2-17		X
16	EJB-200N1-09-L2-01		X
17	EJB-200N1-09-L2-04		X
18	SPARE (TO BE PROVIDED BLANK)		X
19	EJB-200N1-09-L2-02		X
20	EJB-200N1-09-L2-15		X
21	EJB-200N1-09-L2-14		X
22	EJB-200N1-09-L2-13		X
23	EJB-200N1-09-L2-12		X
24	EJB-200N1-09-L2-11		X
25	EJB-200N1-09-L2-10		X
26	EJB-200N1-09-L2-09		X
27	EJB-200N1-09-L2-08		X
28	EJB-200N1-09-L2-07		X
29	EJB-200N1-09-L2-06		X
30	EJB-200N1-09-L2-05		X
31	EJB-200N1-09-L2-16	X	
32	EJB-200N1-04-L3-01	X	
33	EJB-200N1-04-L3-02	X	
34	EJB-200N1-10-L3-05		X
35	EJB-200N1-10-L3-06		X
36	EJB-200N1-10-L3-07		X
37	EJB-200N1-10-L3-08		X
38	EJB-200N1-10-L3-09		X
39	EJB-200N1-10-L3-02		X
40	EJB-200N1-10-L3-01		X
41	EJB-200N1-10-L3-03		X
42	EJB-200N1-10-L3-04		X
43	EJB-200N1-02-L1-03	X	
44	EJB-200N1-02-L1-02	X	
45	EJB-200N1-02-L1-01	X	
46	SPARE (TO BE PROVIDED BLANK)	X	
47	EJB-200N1-02-L1-10	X	
48	EJB-200N1-02-L1-19	X	
49	EJB-200N1-02-L1-18	X	

ENCLOSURE N°	TAG LIST	NORMAL LIGHTING	EMERGENCY LIGHTING
50	EJB-200N1-02-L1-17	X	
51	EJB-200N1-02-L1-16	X	
52	EJB-200N1-02-L1-15	X	
53	EJB-200N1-02-L1-14	X	
54	EJB-200N1-02-L1-13	X	
55	EJB-200N1-02-L1-12	X	
56	EJB-200N1-02-L1-11	X	
57	EJB-200N1-02-L1-06	X	
58	EJB-200N1-02-L1-05	X	
59	EJB-200N1-02-L1-07	X	
60	EJB-200N1-02-L1-08	X	
61	EJB-200N1-02-L1-09	X	
62	EJB-200N1-08-L1-03		X
63	SPARE (TO BE PROVIDED BLANK)		X
64	EJB-200N1-08-L1-01		X
65	EJB-200N1-08-L1-04		X
66	EJB-200N1-08-L1-19		X
67	EJB-200N1-08-L1-18		X
68	EJB-200N1-08-L1-17		X
69	EJB-200N1-08-L1-16		X
70	EJB-200N1-08-L1-15		X
71	EJB-200N1-08-L1-14		X
72	EJB-200N1-02-L1-20	X	
73	EJB-200N1-08-L1-12		X
74	EJB-200N1-08-L1-11		X
75	EJB-200N1-08-L1-10		X
76	EJB-200N1-08-L1-20		X
77	EJB-200N1-08-L1-05		X
78	EJB-200N1-08-L1-06		X
79	EJB-200N1-08-L1-07		X
80	EJB-200N1-08-L1-09		X
81	EJB-200N1-08-L1-08		X
82	EJB-200F2-01	X	
83	EJB-200F2-02	X	
84	SPARE (TO BE PROVIDED BLANK)	X	
85	SPARE (TO BE PROVIDED BLANK)	X	
86	SPARE (TO BE PROVIDED BLANK)	X	
87	SPARE (TO BE PROVIDED BLANK)	X	
88	SPARE (TO BE PROVIDED BLANK)	X	
89	SPARE (TO BE PROVIDED BLANK)		X
90	SPARE (TO BE PROVIDED BLANK)		X
91	SPARE (TO BE PROVIDED BLANK)		X
92	SPARE (TO BE PROVIDED BLANK)		X

Q.TY 92, ITEM 20: 2JBXXGPEE, ELEJB02

Explosion Proof
Electrical Equipment
Materiali Elettrici Antideflagranti

TECHNOR ITALSMEA
A COMPANY OF MARECHAL ELECTRIC

CROSSWIND

ROSETTI MARINO

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
05	20/12/24	FB	OB	OB	ACCEPTED FOR CONSTRUCTION (AFC)
04	26/11/24	FB	OB	OB	ACCEPTED FOR CONSTRUCTION (AFC)
03	25/10/24	FB	OB	OB	ACCEPTED FOR CONSTRUCTION (AFC)
02	12/09/24	FB	OB	OB	ACCEPTED FOR CONSTRUCTION (AFC)
01	03/09/24	FB	OB	OB	ACCEPTED FOR CONSTRUCTION (AFC)
00	30/07/24	FB	OB	OB	ISSUE FOR REVIEW (IFR)

TITLE : BASE LOAD POWER HUB (BLPH)

Junction Box for Normal & Emergency Lighting–Tag List

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE : NTS

A3

DRAWING NO. 1724001481-EL-DA-00003

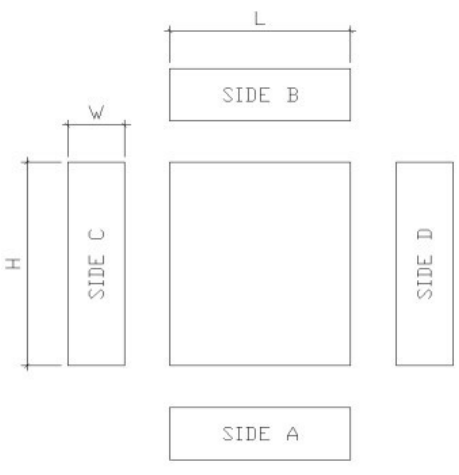
SHEET 005

REV. 05

F.to UNI A3: 420mmx297mm

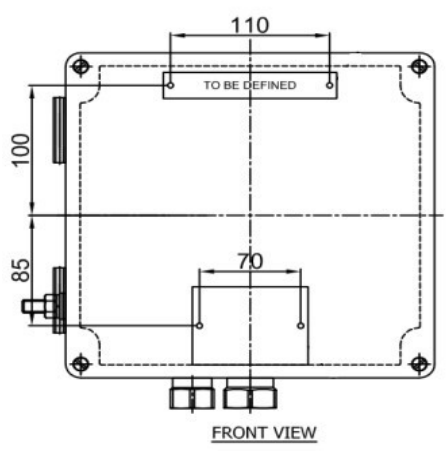
File Name : 1724001481-EL-DA-00003 Rev. 01

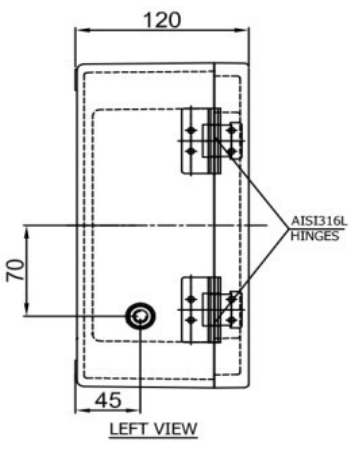
Row	Data Sheet for Control Stations, Junction Boxes and Sockets				Rev.
1	Junction Box for Normal & Emergency Lighting (Exdb)				
2	Item	Required	Manufacturer Proposal	Comments	
3	Model Number	by Vendor	AQ-252612P		01
4	Serial Number	by Vendor	B011041010004		01
5	Quantity	43+5(spare)		(39+9 spare)	01
6	Appkication	Lighting pole JB/Lighting JB			00
7	**Installation area**				
8	Indoor/Outdoor	Outdoor			00
9	Safe Area/Hazardous Area	Hazardous area			00
10	Zone 1/Zone 2	Zone-1			00
11	Temp. Class	Zone 1 Gas Group IIC (or) IIB + H2, T1	Ex eb IIC, T6 Gb		01
12	**Electrical input data**				
13	Voltage	230 V ac	230 V ac		01
14	Number of Phases	1ph + N + PE			00
15	**Material**				
16	Body	GRP	GRP		01
17	Execution	Ex eb	Ex eb		00
18	Protection Degree	IP56	IP 66		01
19	**Accessories**				
20	Hinged Cover	Required	AISI316L Hinges		01
21	Gasket	Required			00
22	Removable Gland Plates	Required	Brass Continuity plate 0.8mm thick		01
23	Internal Mounting Plate	Thickness 3mm threaded		connected to Internal ground bar	00
24	Internal Ground Bar	Required		connected to earth stud	00
25	Earth Stud	Required			00
26	Drainage Valve	Required			00
27	Pad lockable Cover	Required			00
28	Identification Label	Trafolite/ Stainless Steel	Laminated Plastic	for all label	01
29	**Side 'A'**				
30	Hubs Qty.	5	5		01
31	Size	No.3 M25, No.2 M20	No.3 Ø 25.2 mm, No.2 Ø 20.2 mm		01
32	Thread	ISO-M			00
33	Plug	No. 1 M20, No.1 M25	No. 1 Ø 20.2 mm, No.1 Ø 25.2 mm	nickel-plated brass	01
34	**Side 'B'**				
35	Hubs Qty.	Not Required			00
36	Size	NA			00
37	Thread	NA			00
38	**Side 'C'**				
39	Hubs Qty.	Not Required			00
40	Size	NA			00
41	Thread	NA			00
42	**Side 'D'**				
43	Hubs Qty.	Not Required			00
44	Size	NA			00
45	Thread	NA			00
46	**Terminals**				
47	Size [mm^2]	Suitable for 6 Sq.mm & 2.5 Sq.mm Cable	M25 & M20	suitable with wire-end ferrules DIN 46228	01
48	Qty.	n°5 for Ph // n°5 for N // n°5 for PE	n°5 for Ph // n°5 for N // n°5 for PE	Ex - jumpered	01
49	**Bonding Cable (yellow/Green)**				
50	Size [mm^2]	by vendor		6 mm^2	01
51	Qty.	Min. 0.15m			00
52	**Dimension**				
53	Height 'H' [mm]	by vendor	120 mm		01
54	Width 'W' [mm]	by vendor	250 mm		01
55	Length 'L' [mm]	by vendor	255 mm		01
56	Weight [Kg]	by vendor	2.65 Kg		01
57	JB Code (*)	Remarks			
58					



NOTES:

(*) Filled by Vendor





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Tag Number	Tag Description	Location	P.O.	Vendor	Manufacturer	Serial Number	Model Type Catalogue Number	Installation Zone	ATEX Certificate Number	Reference Document	ATEX Certification Marking	Notes / Comments	Skid / Package	Electrical Equip.	Barrier Calculation Ref.	Special Conditions of Safe Use Applicable	3D Location
CB-200F4B	AC UPS F&G - Battery Isolator-B	CONTAINER B-300 (LOWER DECK)	1724000372	3W Power	Cortem Spa		EJBC	Zone 1	EPT 20 ATEX 4075X	1724000372-EL-DG-00011	II 2GDEx db IIC T6 Gb Ex tb IIIC T 85°C Db	-	N/A	True	N/A	False	
EAT-200N1-01	Trace Heating - Remote Ambient Thermostat	LOWER DECK	1724001647	nVent	nVent	1244-022663	ETS-05-A2-E-A	Zone 1	Baseefa 13ATEX0137	1724001647-EL-DD-00004	II 2(1)G Ex eb ia mb [ia Ga] IIC T5 Gb - 40ºC ≤ Ta ≤ +60ºC II 2D Ex tb IIIC T100ºC Db	-	N/A	True	N/A	False	
EHT-1001-A	Self-regulating heat cable	LOWER DECK	1724001647	nVent	nVent	469145-000	3BTV2-CT	Zone 1	SGS20ATEX0048X	1724001647-EL-DD-00004	II 2 GD Ex 60079-30-1 eb IIC T6 Gb	-	N/A	True	N/A	True	
EHT-1002-A	Self-regulating heat cable	LOWER DECK	1724001647	nVent	nVent	469145-000	3BTV2-CT	Zone 1	SGS20ATEX0048X	1724001647-EL-DD-00004	II 2 GD Ex 60079-30-1 eb IIC T6 Gb	-	N/A	True	N/A	True	
EHT-1003-A	Self-regulating heat cable	LOWER DECK	1724001647	nVent	nVent	469145-000	3BTV2-CT	Zone 1	SGS20ATEX0048X	1724001647-EL-DD-00004	II 2 GD Ex 60079-30-1 eb IIC T6 Gb	-	N/A	True	N/A	True	
EHT-1004-A	Self-regulating heat cable	UPPER DECK	1724001647	nVent	nVent	469145-000	3BTV2-CT	Zone 1	SGS20ATEX0048X	1724001647-EL-DD-00004	II 2 GD Ex 60079-30-1 eb IIC T6 Gb	-	N/A	True	N/A	True	
EHT-1004-B	Self-regulating heat cable	UPPER DECK	1724001647	nVent	nVent	469145-000	3BTV2-CT	Zone 1	SGS20ATEX0048X	1724001647-EL-DD-00004	II 2 GD Ex 60079-30-1 eb IIC T6 Gb	-	N/A	True	N/A	True	
EHT-1005-A	Self-regulating heat cable	UPPER DECK	1724001647	nVent	nVent	469145-000	3BTV2-CT	Zone 1	SGS20ATEX0048X	1724001647-EL-DD-00004	II 2 GD Ex 60079-30-1 eb IIC T6 Gb	-	N/A	True	N/A	True	
EHT-1006-A	Self-regulating heat cable	UPPER DECK	1724001647	nVent	nVent	469145-000	3BTV2-CT	Zone 1	SGS20ATEX0048X	1724001647-EL-DD-00004	II 2 GD Ex 60079-30-1 eb IIC T6 Gb	-	N/A	True	N/A	True	
EHT-1007-A	Self-regulating heat cable	LOWER DECK	1724001647	nVent	nVent	469145-000	3BTV2-CT	Zone 1	SGS20ATEX0048X	1724001647-EL-DD-00004	II 2 GD Ex 60079-30-1 eb IIC T6 Gb	-	N/A	True	N/A	True	
EHT-2002-A	Self-regulating heat cable	UPPER DECK	1724001647	nVent	nVent	469145-000	3BTV2-CT	Zone 1	SGS20ATEX0048X	1724001647-EL-DD-00004	II 2 GD Ex 60079-30-1 eb IIC T6 Gb	-	N/A	True	N/A	True	
EJB-200F2-01	Top Obstruction Lights Junction Box	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990082	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	HAZARDOUS-AREA_8 HAZARDOUS-AREA_3
EJB-200F2-02	Intermediate obstruction lights junction box	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990083	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	HAZARDOUS-AREA_4
EJB-200N1-02-L1-01	Normal Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990045	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-02-L1-02	Normal Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990044	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-02-L1-03	Normal Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990043	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	HAZARDOUS-AREA_3
EJB-200N1-02-L1-05	Normal Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990058	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-02-L1-06	Normal Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990057	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-02-L1-07	Normal Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990059	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-02-L1-08	Normal Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990060	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-02-L1-09	Normal Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990061	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-02-L1-10	Normal Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990047	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-02-L1-11	Normal Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990056	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-02-L1-12	Normal Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990055	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-02-L1-13	Normal Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990054	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-02-L1-14	Normal Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990053	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-02-L1-15	Normal Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990052	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-02-L1-16	Normal Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990051	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-02-L1-17	Normal Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990050	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-02-L1-18	Normal Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990049	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-02-L1-19	Normal Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990048	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-02-L1-20	Normal Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990072	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-03-L2-01	Normal Lighting JB	LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990003	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-03-L2-02	Normal Lighting JB	LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990004	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-03-L2-03	Normal Lighting JB	LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990002	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-03-L2-04	Normal Lighting JB	LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990001	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-03-L2-05	Normal Lighting JB	LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990012	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-03-L2-06	Normal Lighting JB	LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990011	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-03-L2-07	Normal Lighting JB	LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990010	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-03-L2-08	Normal Lighting JB	LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990009	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-03-L2-09	Normal Lighting JB	LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990008	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-03-L2-10	Normal Lighting JB	LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990007	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-03-L2-11	Normal Lighting JB	LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990006	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-03-L2-12	Normal Lighting JB	LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990005	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-03-L2-13	Normal Lighting JB	LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990014	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-03-L2-14	Normal Lighting JB	LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990013	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-04-L3-01	Stair Normal Lighting JB	LOWER DECK STAIRS	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990032	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-04-L3-02	Stair Normal Lighting JB	LOWER DECK STAIRS	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990033	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-08-L1-01	Emergency Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990064	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-08-L1-03	Emergency Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990062	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	HAZARDOUS-AREA_3
EJB-200N1-08-L1-04	Emergency Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990065	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-08-L1-05	Emergency Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990077	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-08-L1-06	Emergency Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990078	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	

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explosion safety solutions

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[1] # EU – TYPE EXAMINATION CERTIFICATE

[2] Equipment or Protective Systems Intended for use in Potentially Explosive Atmospheres Directive 2014/34/EU.

[3] EU-Type Examination Certificate Number: **FIDI 21 ATEX 0090X** Issue: **1**

[4] Product: **Junction boxes, local control stations and local control panels**

Type: **AQ-***P / AQ-***AL / AR-***P / AR-***AL**
AQ-*P-HT / AQ-***AL-HT / AR-***P-HT / AR-***AL-HT**
SB-* / ST-***
EFE-* / EFXE-*** AL / EFXE-***SB / EFXE-***ST**
EFE-*-HT / EFXE-***AL-HT**

[5] Manufacturer: **Technor Italsmea S.p.A.**

[6] Address: **Via Italia 33, 20060 Gessate (MI), Italy**

[7] This product and any acceptable variation thereto is specified in the schedule to this certificate and documents therein referred to.

[8] FIDITAS Ltd., Notified Body number 2829 in accordance with Article 17 of Directive 2014/34/EU of the European Parliament and of the Council, dated 26 February 2014, certifies that this product has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of products intended for use in potentially explosive atmospheres given in Annex II of the Directive.

The examination and test results are recorded in confidential Report No: **FIDI 21 CR 075**

[9] Compliance with the Essential Health and Safety Requirements has been assured by compliance with:

EN IEC 60079-0:2018	**EN 60079-1:2014**	**EN IEC 60079-7:2015 / A1:2018**
EN 60079-11:2012	**EN 60079-18:2015/A1:2017**	**EN 60079-31:2014**

except in respect of those requirements listed at item 18 of the Schedule.

[10] If the sign 'X' is placed after the certificate number, it indicates that the product is subject to Specific Conditions of Use specified in the schedule to this certificate.

[11] This EU-Type Examination Certificate relates only to the design, examination and test of the specified product in accordance with Annex III. Further requirements of the Directive apply to the manufacturing process and supply of this products. These are not covered by this certificate.

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This certificate may only be reproduced in its entirety, without any change, schedule included

[12] The marking of the product shall include the following:



II 1 G	**Ex ia IIC/IIB T6...T4 Ga**(2) or
II 2(1) G or **II 2(2) G**	**Ex db eb ia/ib mb [**(3)**] IIC/IIB T6...T4 Gb**(1) or
II 2 G	**Ex eb IIC/IIB T6...T4 Gb**(1) or
II 2 D	**Ex tb IIIC T85°C...T135°C Db**

(1) Others type of protection additional to 'eb' depending to the components actually mounted.

(2) In case of enclosures containing 'eb' terminals and/or 'ia Ga' already certified components (with compatible marking) only.

(3) Associated equipment protection depending on the components actually mounted (see lists): e.g. [ia/ib/ia Ga/ia IIIC Da] and/or [ia IIIC Da] or [ia/ib/ia Ga/ia IIIC Da] and/or [ia/ib/ia Ga] [ia IIIC Da]

Our ref.: 21.CRT.400

Date: 23. 12.2021.

Fiditas d.o.o. ZAGREB

FIDITAS Ltd.
Certification department
Approved:

Marino Kelava, M.E.Eng.

Fiditas Ltd. Karlovačka cesta 197, 10250 Zagreb-Lučko, Croatia
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[13] **SCHEDULE**

[14] **EU - TYPE EXAMINATION CERTIFICATE No.:** **FIDI 21 ATEX 0090X**

[15] **Description of product**

Junction boxes, local control stations and local control panels are made of 'eb' and 'tb' enclosures in stainless steel, aluminium alloy or glass fiber reinforced polyester resin, of various dimensions, which shall house 'eb' and/or 'ia/ib' terminals and/or Ex components or Ex equipment made in different type of Ex protection. All Ex terminals, Ex components and Ex equipment are covered by their own ATEX certificates.

The terminals and components are be used according to data available in related component certificates, in relevant temperature range, voltage and current limitations. The terminals must be fitted in accordance with EN IEC 60079-0 and EN IEC 60079-7 with regards to creepage and clearance distances, and according to related safety instructions.

The cover is fixed to the body with screw, between body and cover a gasket guarantee the protection degree IP66 (IP66/67 depending on models). The cover of stainless-steel enclosure can be also fixed the body with looking devices, between body and cover a gasket guarantee the protection degree IP66. The IP degree of junction boxes, local control stations and local control panels depend on the components actually mounted. The walls and the bottom of the boxes can be drilled and taped with maximum size and maximum number of holes as specified in the manufacturer documents.

The cable glands or plugs, with separate ATEX certificate, made in type of protection 'eb' and/or 'tb' with appropriate IP protection are mounted according to related manufacturer's installation instructions. Each enclosure is provided with internal earthing certified terminal or earthing screw or bolt. Metal enclosures are provided by external earthing screw or bolt. Metal and polyester enclosures can be provided by passing through earthing terminals.

All enclosures can be provided by:
- Externally installed accessories as specified in manufacturer documents,
- Drain breath device type ECR3, included in this certificate,
- Internal/external earthing plate.

Model identification

Junction boxes

A(1)-(2) (3) (4) (5) (6)	(1) –	**Q**: Square size **R**: Rectangular size
	(2) (3) (4)	dimension, in cm
	(5)	Material **P**: Glass fiber reinforced polyester resin **AL**: Aluminium Alloy
	(6)	None: up to internal temperature of 105°C **HT**: up to internal temperature of 130°C
SB- (2) (3) (4)	(2) (3) (4)	dimension, in cm
ST- (2) (3) (4)	(2) (3) (4)	dimension, in cm

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Panel boards

EFE- (2) (3) (4) (6)	(2) (3) (4)	dimension, in cm
	(6)	None: up to internal temperature of 105°C **HT**: up to internal temperature of 130°C
EFXE- (2) (3) (4) (5) (6)	(2) (3) (4)	dimension, in cm
		Material
	(5)	**SB** or **ST**: stainless steel **AL**: Aluminium Alloy
	(6)	None: up to internal temperature of 105°C **HT**: up to internal temperature of 130°C

Technical data:

Electrical data:	According to Ex component to actually installed
Ambient temperature:	-50°C ÷ +95°C Other possible ranges are with: - min temperature: -50°C to -20 °C - max temperature of +40 °C to +95 °C
Mechanical protection:	IP66/IP67 depending on models IP66 without swing handle element IP55 with swing handle element

Temperature class and/or maximum surface temperature of any junction box or control panel depend on ambient temperature and internal power dissipation. The values that must be observed are given in relevant tables in this certificate.

For commercial reasons model name listed in the tables below can be modified as follows: first (2) and second (3) pair of digits can be reversed.

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Model sizes

Polyester High Temperature		Aluminium High Temperature	
AQ-080806P-HT	EFE-080806-HT	AQ-080806AL-HT	EFXE-080806AL-HT
AQ-080808P-HT	EFE-080808-HT	AR-081306AL-HT	EFXE-081306AL-HT
AR-081106P-HT	EFE-081106-HT	AR-081806AL-HT	EFXE-081806AL-HT
AR-081108P-HT	EFE-081108-HT	AR-082505AL-HT	EFXE-082505AL-HT
AR-081606P-HT	EFE-081606-HT	AQ-101008AL-HT	EFXE-101008AL-HT
AR-081608P-HT	EFE-081608-HT	AR-101608AL-HT	EFXE-101608AL-HT
AR-081906P-HT	EFE-081906-HT	AR-102008AL-HT	EFXE-102008AL-HT
AR-081908P-HT	EFE-081908-HT	AQ-121208AL-HT	EFXE-121208AL-HT
AR-082306P-HT	EFE-082306-HT	AQ-121209AL-HT	EFXE-121209AL-HT
AR-082308P-HT	EFE-082308-HT	AR-122208AL-HT	EFXE-122208AL-HT
AQ-121209P-HT	EFE-121209-HT	AR-122209AL-HT	EFXE-122209AL-HT
AR-122209P-HT	EFE-122209-HT	AR-123608AL-HT	EFXE-123608AL-HT
AQ-161609P-HT	EFE-161609-HT	AQ-141409AL-HT	EFXE-141409AL-HT
AR-162609P-HT	EFE-162609-HT	AR-142009AL-HT	EFXE-142009AL-HT
AR-163609P-HT	EFE-163609-HT	AQ-161609AL-HT	EFXE-161609AL-HT
AR-165609P-HT	EFE-165609-HT	AR-162609AL-HT	EFXE-162609AL-HT
AQ-202017P-HT	EFE-202017-HT	AR-163609AL-HT	EFXE-163609AL-HT
AR-203017P-HT	EFE-203017-HT	AR-165609AL-HT	EFXE-165609AL-HT
AQ-252612P-HT	EFE-252612-HT	AQ-181810AL-HT	EFXE-181810AL-HT
AQ-252616P-HT	EFE-252616-HT	AR-182810AL-HT	EFXE-182810AL-HT
AR-254012P-HT	EFE-254012-HT	AR-102311AL-HT	EFXE-102311AL-HT
AR-254016P-HT	EFE-254016-HT	AR-202311AL-HT	EFXE-202311AL-HT
AR-256012P-HT	EFE-256012-HT	AR-202318AL-HT	EFXE-202318AL-HT
AR-304020P-HT	EFE-304020-HT	AR-232811AL-HT	EFXE-232811AL-HT
AQ-363609P-HT	EFE-363609-HT	AR-233311AL-HT	EFXE-233311AL-HT
AR-406025P-HT	EFE-406025-HT	AR-233318AL-HT	EFXE-233318AL-HT
AQ-414012P-HT	EFE-414012-HT	AR-234011AL-HT	EFXE-234011AL-HT
AQ-414020P-HT	EFE-414020-HT	AR-234023AL-HT	EFXE-234023AL-HT
		AR-236011AL-HT	EFXE-236011AL-HT
		AR-314011AL-HT	EFXE-314011AL-HT
		AR-314014AL-HT	EFXE-314014AL-HT
		AR-314018AL-HT	EFXE-314018AL-HT
		AR-314023AL-HT	EFXE-314023AL-HT
		AR-316011AL-HT	EFXE-316011AL-HT
		AR-316018AL-HT	EFXE-316018AL-HT
		AQ-606020AL-HT	EFXE-606020AL-HT

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Polyester		Aluminium		Stainless steel	
AQ-080806P	EFE-080806	AQ-080806AL	EFXE-080806AL	SB-101210	EFXE-101210SB
AQ-080808P	EFE-080808	AR-081306AL	EFXE-081306AL	SB-151510	EFXE-151510SB
AR-081106P	EFE-081106	AR-081806AL	EFXE-081806AL	SB-142013	EFXE-142013SB
AR-081606P	EFE-081606	AR-081808AL	EFXE-081808AL	SB-202010	EFXE-202010SB
AR-081906P	EFE-081906	AR-082505AL	EFXE-082505AL	SB-202016	EFXE-202016SB
AQ-121209P	EFE-121209	AR-082508AL	EFXE-082508AL	SB-202713	EFXE-202713SB
AR-122209P	EFE-122209	AQ-101008AL	EFXE-101008AL	SB-272713	EFXE-272713SB
AQ-161609P	EFE-161609	AR-101508AL	EFXE-101508AL	SB-203016	EFXE-203016SB
AR-162609P	EFE-162609	AR-101608AL	EFXE-101608AL	SB-273513	EFXE-273513SB
AR-163609P	EFE-163609	AR-102008AL	EFXE-102008AL	SB-282816	EFXE-282816SB
AQ-252612P	EFE-252612	AQ-121208AL	EFXE-121208AL	SB-204016	EFXE-204016SB
AQ-252616P	EFE-252616	AR-122209AL	EFXE-122209AL	SB-353516	EFXE-353516SB
AR-254012P	EFE-254012	AQ-141409AL	EFXE-141409AL	SB-282827	EFXE-282827SB
AR-254016P	EFE-254016	AR-142009AL	EFXE-142009AL	SB-355016	EFXE-355016SB
AR-256012P	EFE-256012	AQ-161609AL	EFXE-161609AL	SB-383816	EFXE-383816SB
AQ-414012P	EFE-414012	AR-162410AL	EFXE-162410AL	SB-384516	EFXE-384516SB
		AR-162609AL	EFXE-162609AL	SB-385716	EFXE-385716SB
		AQ-181810AL	EFXE-181810AL	SB-505016	EFXE-505016SB
		AR-182810AL	EFXE-182810AL	SB-383827	EFXE-383827SB
		AR-202311AL	EFXE-202311AL	SB-575716	EFXE-575716SB
		AR-202318AL	EFXE-202318AL	SB-577620	EFXE-577620SB
		AR-232811AL	EFXE-232811AL	SB-575730	EFXE-575730SB
		AR-233312AL	EFXE-233312AL	SB-769520	EFXE-769520SB
		AR-233318AL	EFXE-233318AL	SB-1258040	EFXE-1258040SB

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Enclosure types (Stainless steel)	
ST-101210	EFXE-101210ST
ST-151510	EFXE-151510ST
ST-142013	EFXE-142013ST
ST-202010	EFXE-202010ST
ST-202016	EFXE-202016ST
ST-202713	EFXE-202713ST
ST-272713	EFXE-272713ST
ST-203016	EFXE-203016ST
ST-273513	EFXE-273513ST
ST-282816	EFXE-282816ST
ST-204016	EFXE-204016ST
ST-353516	EFXE-353516ST
ST-282827	EFXE-282827ST
ST-355016	EFXE-355016ST
ST-383816	EFXE-383816ST
ST-384516	EFXE-384516ST
ST-385716	EFXE-385716ST
ST-505016	EFXE-505016ST
ST-383827	EFXE-383827ST
ST-575716	EFXE-575716ST
ST-577620	EFXE-577620ST
ST-575730	EFXE-575730ST
ST-769520	EFXE-769520ST
ST-1258040	EFXE-1258040ST

Note 2 For stainless steel enclosures: dimensions (2) and (3) can be decreased or increased up to 20%, dimensions (4) can be increased up to 500 mm. Model name changes consequently.

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Power dissipation – HT glass fiber reinforced polyester resin enclosures

Enclosure types (polyester)		Maximum power dissipation (W) – Tamb. up to **40**°C							
		INTERNAL TEMP.60°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)	INTERNAL TEMP.127°C (T4/T135°C)
AQ-080806P-HT	EFE-080806-HT	3,5	5,2	7,0	7,8	9,6	10,4	11,3	15,2
AQ-080808P-HT	EFE-080808-HT	4,6	6,8	9,1	10,2	12,5	13,7	14,8	19,8
AR-081106P-HT	EFE-081106-HT	4,3	6,4	8,5	9,6	11,8	12,8	13,9	18,6
AR-081108P-HT	EFE-081108-HT	5,6	8,4	11,2	12,6	15,3	16,7	18,1	24,2
AR-081606P-HT	EFE-081606-HT	5,8	8,7	11,6	13,0	15,9	17,4	18,8	25.2
AR-081608P-HT	EFE-081608-HT	6,8	10,2	13,7	15,4	18,8	20,5	22,2	29,7
AR-081906P-HT	EFE-081906-HT	6,4	9,6	12,8	14,4	17,6	19,2	20,8	27,8
AR-081908P-HT	EFE-081908-HT	7,5	11,3	15,1	17,0	20,7	22,6	24,5	32,7
AR-082306P-HT	EFE-082306-HT	7,2	10,8	14,4	16,2	19,8	21,6	23,4	31,3
AR-082308P-HT	EFE-082308-HT	8,5	12,7	16,9	19,0	23,3	25,4	27,5	36,7
AQ-121209P-HT	EFE-121209-HT	8,0	12,0	15,9	17,9	21,9	23,9	25,9	34,7
AR-122209P-HT	EFE-122209-HT	10,8	16,2	21,6	24,3	29,7	32,4	35,1	47,0
AQ-161609P-HT	EFE-161609-HT	10,4	15,6	20,8	23,4	28,6	31,2	33,8	45,2
AR-162609P-HT	EFE-162609-HT	13,4	20,1	26,8	30,2	36,9	40,2	43,6	58,3
AR-163609P-HT	EFE-163609-HT	16,2	24,3	32,4	36,5	44,6	48,6	52,7	70,5
AR-165609P-HT	EFE-165609-HT	21,4	32,0	42,7	48,1	58,7	64,1	69,4	92,9
AQ-202017P-HT	EFE-202017-HT	18,0	26,9	35,9	40,4	49,4	53,9	58,4	78,1
AR-203017P-HT	EFE-203017-HT	20,9	31,3	41,7	47,0	57,4	62,6	67,8	90,8
AQ-252612P-HT	EFE-252612-HT	18,8	28,2	37,6	42,4	51,8	56,5	61,2	81,9
AQ-252616P-HT	EFE-252616-HT	20,8	31,1	41,5	46,7	57,1	62,3	67,5	90,3
AR-254012P-HT	EFE-254012-HT	22,8	34,2	45,7	51,4	62,8	68,5	74,2	99,3
AR-254016P-HT	EFE-254016-HT	26,2	39,3	52,4	58,9	72,0	78,6	85,1	113,9
AR-256012P-HT	EFE-256012-HT	29,0	43,6	58,1	65,3	79,9	87,1	94,4	126,3
AR-304020P-HT	EFE-304020-HT	32,3	48,5	64,7	72,7	88,9	97,0	105,1	140,7
AQ-363609P-HT	EFE-363609-HT	23,0	34,6	46,1	51,8	63,4	69,1	74,9	100,2
AR-406025P-HT	EFE-406025-HT	50,3	75,5	100,7	113,3	138,4	151,0	163,6	218,9
AQ-414012P-HT	EFE-414012-HT	29,1	43,7	58,2	65,5	80,1	87,3	94,6	126,6
AQ-414020P-HT	EFE-414020-HT	36,6	55,0	73,3	82,4	100,8	109,9	119,1	159,4

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Enclosure types (polyester)		Maximum power dissipation (W) – Tamb. up to **50**°C							
		INTERNAL TEMP.60°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)	INTERNAL TEMP.127°C (T4/T135°C)
AQ-080806P-HT	EFE-080806-HT	1,7	3,5	5,2	6,1	7,8	8,7	9,6	13,4
AQ-080808P-HT	EFE-080808-HT	2,3	4,6	6,8	8,0	10,2	11,4	12,5	17,5
AR-081106P-HT	EFE-081106-HT	2,1	4,3	6,4	7,5	9,6	10,7	11,8	16,5
AR-081108P-HT	EFE-081108-HT	2,8	5,6	8,4	9,8	12,6	13,9	15,3	21.5
AR-081606P-HT	EFE-081606-HT	2,9	5,8	8,7	10,1	13,0	14,5	15,9	22,3
AR-081608P-HT	EFE-081608-HT	3,4	6,8	10,2	11,9	15,4	17,1	18,8	26,3
AR-081906P-HT	EFE-081906-HT	3,2	6,4	9,6	11,2	14,4	16,0	17,6	24,6
AR-081908P-HT	EFE-081908-HT	3,8	7,5	11,3	13,2	17,0	18,8	20,7	29,0
AR-082306P-HT	EFE-082306-HT	3,6	7,2	10,8	12,6	16,2	18,0	19,8	27,7
AR-082308P-HT	EFE-082308-HT	4,2	8,5	12,7	14,8	19,0	21,1	23,3	32,5
AQ-121209P-HT	EFE-121209-HT	4,0	8,0	12,0	14,0	17,9	19,9	21,9	30,7
AR-122209P-HT	EFE-122209-HT	5,4	10,8	16,2	18,9	24,3	27,0	29,7	41,6
AQ-161609P-HT	EFE-161609-HT	5,2	10,4	15,6	18,2	23,4	26,0	28,6	40,0
AR-162609P-HT	EFE-162609-HT	6,7	13,4	20,1	23,5	30,2	33,5	36,9	51,6
AR-163609P-HT	EFE-163609-HT	8,1	16,2	24,3	28,4	36,5	40,5	44,6	62,3
AR-165609P-HT	EFE-165609-HT	10,7	21,4	32,0	37,4	48,1	53,4	58,7	82,2
AQ-202017P-HT	EFE-202017-HT	9,0	18,0	26,9	31,4	40,4	44,9	49,4	69,1
AR-203017P-HT	EFE-203017-HT	10,4	20,9	31,3	36,5	47,0	52,2	57,4	80,4
AQ-252612P-HT	EFE-252612-HT	9,4	18,8	28,2	32,9	42,4	47,1	51,8	72,5
AQ-252616P-HT	EFE-252616-HT	10,4	20,8	31,1	36,3	46,7	51,9	57,1	79,9
AR-254012P-HT	EFE-254012-HT	11,4	22,8	34,2	39,9	51,4	57,1	62,8	87,9
AR-254016P-HT	EFE-254016-HT	13,1	26,2	39,3	45,8	58,9	65,5	72,0	100,8
AR-256012P-HT	EFE-256012-HT	14,5	29,0	43,6	50,8	65,3	72,6	79,9	111,8
AR-304020P-HT	EFE-304020-HT	16,2	32,3	48,5	56,6	72,7	80,8	88,9	124,4
AQ-363609P-HT	EFE-363609-HT	11,5	23,0	34,6	40,3	51,8	57,6	63,4	88,7
AR-406025P-HT	EFE-406025-HT	25,2	50,3	75,5	88,1	113,3	125,8	138,4	193,8
AQ-414012P-HT	EFE-414012-HT	14,6	29,1	43,7	51,0	65,5	72,8	80,1	112,1
AQ-414020P-HT	EFE-414020-HT	18,3	36,6	55,0	64,1	82,4	91,6	100,8	141,1

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Enclosure types (polyester)		Maximum power dissipation (W) – Tamb. up to **55**°C							
		INTERNAL TEMP.65°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)	INTERNAL TEMP.127°C (T4/T135°C)
AQ-080806P-HT	EFE-080806-HT	1,7	2,6	4,4	5,2	7,0	7,8	8,7	12,5
AQ-080808P-HT	EFE-080808-HT	2,3	3,4	5,7	6,8	9,1	10,2	11,4	16,2
AR-081106P-HT	EFE-081106-HT	2,1	3,2	5,3	6,4	8,5	9,6	10,7	15,2
AR-081108P-HT	EFE-081108-HT	2,8	4,2	7,0	8,4	11,2	12,6	13,9	19,8
AR-081606P-HT	EFE-081606-HT	2,9	4,3	7,2	8,7	11,6	13,0	14,5	20,6
AR-081608P-HT	EFE-081608-HT	3,4	5,1	8,5	10,2	13,7	15,4	17,1	24,3
AR-081906P-HT	EFE-081906-HT	3,2	4,8	8,0	9,6	12,8	14,4	16,0	22,8
AR-081908P-HT	EFE-081908-HT	3,8	5,7	9,4	11,3	15,1	17,0	18,8	26,8
AR-082306P-HT	EFE-082306-HT	3,6	5,4	9,0	10,8	14,4	16,2	18,0	25,6
AR-082308P-HT	EFE-082308-HT	4,2	6,3	10,6	12,7	16,9	19,0	21,1	30,0
AQ-121209P-HT	EFE-121209-HT	4,0	6,0	10,0	12,0	15,9	17,9	19,9	28,3
AR-122209P-HT	EFE-122209-HT	5,4	8,1	13,5	16,2	21,6	24,3	27,0	38,3
AQ-161609P-HT	EFE-161609-HT	5,2	7,8	13,0	15,6	20,8	23,4	26,0	36,9
AR-162609P-HT	EFE-162609-HT	6,7	10,1	16,8	20,1	26,8	30,2	33,5	47,6
AR-163609P-HT	EFE-163609-HT	8,1	12,2	20,3	24,3	32,4	36,5	40,5	57,5
AR-165609P-HT	EFE-165609-HT	10,7	16,0	26,7	32,0	42,7	48,1	53,4	75,8
AQ-202017P-HT	EFE-202017-HT	9,0	13,5	22,4	26,9	35,9	40,4	44,9	63,7
AR-203017P-HT	EFE-203017-HT	10,4	15,7	26,1	31,3	41,7	47,0	52,2	74,0
AQ-252612P-HT	EFE-252612-HT	9,4	14,1	23,5	28,2	37,6	42,4	47,1	66,8
AQ-252616P-HT	EFE-252616-HT	10,4	15,6	26,0	31,1	41,5	46,7	51,9	73,7
AR-254012P-HT	EFE-254012-HT	11,4	17,1	28,5	34,2	45,7	51,4	57,1	81,0
AR-254016P-HT	EFE-254016-HT	13,1	19,6	32,7	39,3	52,4	58,9	65,5	92,9
AR-256012P-HT	EFE-256012-HT	14,5	21,8	36,3	43,6	58,1	65,3	72,6	103,0
AR-304020P-HT	EFE-304020-HT	16,2	24,2	40,4	48,5	64,7	72,7	80,8	114,7
AQ-363609P-HT	EFE-363609-HT	11,5	17,3	28,8	34,6	46,1	51,8	57,6	81,8
AR-406025P-HT	EFE-406025-HT	25,2	37,8	62,9	75,5	100,7	113,3	125,8	178,6
AQ-414012P-HT	EFE-414012-HT	14,6	21,8	36,4	43,7	58,2	65,5	72,8	103,0
AQ-414020P-HT	EFE-414020-HT	18,3	27,5	45,8	55,0	73,3	82,4	91,6	130,0

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Enclosure types (polyester)		Maximum power dissipation (W) – Tamb. up to **60**°C						
		INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)	INTERNAL TEMP.127°C (T4/T135°C)
AQ-080806P-HT	EFE-080806-HT	1,7	3,5	4,4	6,1	7,0	7,8	11,7
AQ-080808P-HT	EFE-080808-HT	2,3	4,6	5,7	8,0	9,1	10,2	15,2
AR-081106P-HT	EFE-081106-HT	2,1	4,3	5,3	7,5	8,5	9,6	14,3
AR-081108P-HT	EFE-081108-HT	2,8	5,6	7,0	9,8	11,2	12,6	18,7
AR-081606P-HT	EFE-081606-HT	2,9	5,8	7,2	10,1	11,6	13,0	19,4
AR-081608P-HT	EFE-081608-HT	3,4	6,8	8,5	11,9	13,7	15,4	22,9
AR-081906P-HT	EFE-081906-HT	3,2	6,4	8,0	11,2	12,8	14,4	21,4
AR-081908P-HT	EFE-081908-HT	3,8	7,5	9,4	13,2	15,1	17,0	25,3
AR-082306P-HT	EFE-082306-HT	3,6	7,2	9,0	12,6	14,4	16,2	24,1
AR-082308P-HT	EFE-082308-HT	4,2	8,5	10,6	14,8	16,9	19,0	28,3
AQ-121209P-HT	EFE-121209-HT	4,0	8,0	10,0	14,0	15,9	17,9	26,7
AR-122209P-HT	EFE-122209-HT	5,4	10,8	13,5	18,9	21,6	24,3	36,2
AQ-161609P-HT	EFE-161609-HT	5,2	10,4	13,0	18,2	20,8	23,4	34,8
AR-162609P-HT	EFE-162609-HT	6,7	13,4	16,8	23,5	26,8	30,2	44,9
AR-163609P-HT	EFE-163609-HT	8,1	16,2	20,3	28,4	32,4	36,5	54,2
AR-165609P-HT	EFE-165609-HT	10,7	21,4	26,7	37,4	42,7	48,1	71,5
AQ-202017P-HT	EFE-202017-HT	9,0	18,0	22,4	31,4	35,9	40,4	60,1
AR-203017P-HT	EFE-203017-HT	10,4	20,9	26,1	36,5	41,7	47,0	69,9
AQ-252612P-HT	EFE-252612-HT	9,4	18,8	23,5	32,9	37,6	42,4	63,0
AQ-252616P-HT	EFE-252616-HT	10,4	20,8	26,0	36,3	41,5	46,7	69,5
AR-254012P-HT	EFE-254012-HT	11,4	22,8	28,5	39,9	45,7	51,4	76,5
AR-254016P-HT	EFE-254016-HT	13,1	26,2	32,7	45,8	52,4	58,9	87,7
AR-256012P-HT	EFE-256012-HT	14,5	29,0	36,3	50,8	58,1	65,3	97,2
AR-304020P-HT	EFE-304020-HT	16,2	32,3	40,4	56,6	64,7	72,7	108,3
AQ-363609P-HT	EFE-363609-HT	11,5	23,0	28,8	40,3	46,1	51,8	77,1
AR-406025P-HT	EFE-406025-HT	25,2	50,3	62,9	88,1	100,7	113,3	168,7
AQ-414012P-HT	EFE-414012-HT	14,6	29,1	36,4	51,0	58,2	65,5	97,5
AQ-414020P-HT	EFE-414020-HT	18,3	36,6	45,8	64,1	73,3	82,4	122,7

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Enclosure types (polyester)		Maximum power dissipation (W) Tamb. up to **95**°C		
		INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)	INTERNAL TEMP.127°C (T4/T135°C)
AQ-080806P-HT	EFE-080806-HT	0,9	1,7	5,6
AQ-080808P-HT	EFE-080808-HT	1,1	2,3	7,3
AR-081106P-HT	EFE-081106-HT	1,1	2,1	6,5
AR-081108P-HT	EFE-081108-HT	1,4	2,8	9,0
AR-081606P-HT	EFE-081606-HT	1,4	2,9	9,2
AR-081608P-HT	EFE-081608-HT	1,7	3,4	10,9
AR-081906P-HT	EFE-081906-HT	1,6	3,2	10,2
AR-081908P-HT	EFE-081908-HT	1,9	3,8	12,1
AR-082306P-HT	EFE-082306-HT	1,8	3,6	11,5
AR-082308P-HT	EFE-082308-HT	2,1	4,2	13,5
AQ-121209P-HT	EFE-121209-HT	2,0	4,0	12,8
AR-122209P-HT	EFE-122209-HT	2,7	5,4	17,3
AQ-161609P-HT	EFE-161609-HT	2,6	5,2	16,6
AR-162609P-HT	EFE-162609-HT	3,4	6,7	21,5
AR-163609P-HT	EFE-163609-HT	4,1	8,1	26,0
AR-165609P-HT	EFE-165609-HT	5,3	10,7	34,2
AQ-202017P-HT	EFE-202017-HT	4,5	9,0	28,7
AR-203017P-HT	EFE-203017-HT	5,2	10,4	33,4
AQ-252612P-HT	EFE-252612-HT	4,7	9,4	30,1
AQ-252616P-HT	EFE-252616-HT	5,2	10,4	33,2
AR-254012P-HT	EFE-254012-HT	5,7	11,4	36,5
AR-254016P-HT	EFE-254016-HT	6,5	13,1	41,9
AR-256012P-HT	EFE-256012-HT	7,3	14,5	46,4
AR-304020P-HT	EFE-304020-HT	8,1	16,2	51,8
AQ-363609P-HT	EFE-363609-HT	5,8	11,5	36,8
AR-406025P-HT	EFE-406025-HT	12,6	25,2	80,6
AQ-414012P-HT	EFE-414012-HT	7,3	14,6	46,6
AQ-414020P-HT	EFE-414020-HT	9,2	18,3	58,6

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Power dissipation – HT aluminum alloy enclosures

Enclosure types (aluminium)		Maximum power dissipation (W) – Tamb. up to **40**°C							
		INTERNAL TEMP.60°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)	INTERNAL TEMP.130°C (T4/T135°C)
AQ-080806AL-HT	EFXE-080806AL-HT	5,2	7,8	10,4	11,7	14,3	15,6	16,9	23,4
AR-081306AL-HT	EFXE-081306AL-HT	7,0	10,6	14,1	15,9	19,4	21,2	23,0	31,8
AR-081806AL-HT	EFXE-081806AL-HT	8,9	13,3	17,8	20,0	24,5	26,7	28,9	40,0
AR-082505AL-HT	EFXE-082505AL-HT	10,9	16,4	21,9	24,7	30,1	32,9	35,6	49,4
AQ-101008AL-HT	EFXE-101008AL-HT	8,7	13,0	17,4	19,6	23,9	26,1	28,3	39,2
AR-101608AL-HT	EFXE-101608AL-HT	11,5	17,3	23,1	26,0	31,8	34,7	37,6	52,0
AR-102008AL-HT	EFXE-102008AL-HT	13,4	20,1	26,8	30,2	36,9	40,3	43,6	60,4
AQ-121208AL-HT	EFXE-121208AL-HT	10,8	16,2	21,6	24,3	29,7	32,4	35,1	48,6
AQ-121209AL-HT	EFXE-121209AL-HT	11,6	17,5	23,3	26,2	32,1	35,0	37,9	52,5
AR-122208AL-HT	EFXE-122208AL-HT	15,6	23,5	31,3	35,3	43,1	47,0	50,9	70,6
AR-122209AL-HT	EFXE-122209AL-HT	16,8	25,3	33,7	37,9	46,3	50,6	54,8	75,9
AR-123608AL-HT	EFXE-123608AL-HT	22,3	33,5	44,7	50,3	61,5	67,1	72,7	100,7
AQ-141409AL-HT	EFXE-141409AL-HT	13,7	20,6	27,5	31,0	37,9	41,3	44,8	62,0
AR-142009AL-HT	EFXE-142009AL-HT	17,1	25,7	34,2	38,5	47,1	51,4	55,7	77,1
AQ-161609AL-HT	EFXE-161609AL-HT	16,1	24,1	32,2	36,2	44,2	48,3	52,3	72,4
AR-162609AL-HT	EFXE-162609AL-HT	21,9	32,8	43,8	49,3	60,2	65,7	71,2	98,6
AR-163609AL-HT	EFXE-163609AL-HT	27,5	41,3	55,1	62,0	75,7	82,6	89,5	124,0
AR-165609AL-HT	EFXE-165609AL-HT	38,4	57,7	76,9	86,6	105,8	115,4	125,0	173,2
AQ-181810AL-HT	EFXE-181810AL-HT	19,7	29,6	39,5	44,4	54,3	59,2	64,2	88,8
AR-182810AL-HT	EFXE-182810AL-HT	26,1	39,1	52,2	58,7	71,8	78,3	84,8	117,5
AR-102311AL-HT	EFXE-102311AL-HT	18,2	27,3	36,5	41,0	50,1	54,7	59,3	82,1
AR-202311AL-HT	EFXE-202311AL-HT	26,1	39,1	52,2	58,7	71,7	78,3	84,8	117,4
AR-202318AL-HT	EFXE-202318AL-HT	35,9	53,9	71,8	80,8	98,8	107,8	116,8	161,7
AR-232811AL-HT	EFXE-232811AL-HT	31,6	47,5	63,3	71,3	87,1	95,0	103,0	142,6
AR-233311AL-HT	EFXE-233311AL-HT	35,3	52,9	70,6	79,4	97,0	105,9	114,7	158,8
AR-233318AL-HT	EFXE-233318AL-HT	47,5	71,3	95,1	107,0	130,8	142,7	154,6	214,1
AR-234011AL-HT	EFXE-234011AL-HT	40,2	60,4	80,5	90,6	110,7	120,8	130,9	181,2
AR-234023AL-HT	EFXE-234023AL-HT	62,2	93,3	124,5	140,0	171,2	186,7	202,3	280,1
AR-236011AL-HT	EFXE-236011AL-HT	54,1	81,2	108,3	121,9	148,9	162,5	176,0	243,8
AR-314011AL-HT	EFXE-314011AL-HT	48,6	72,9	97,2	109,3	133,6	145,8	157,9	218,7
AR-314014AL-HT	EFXE-314014AL-HT	54,9	82,4	109,9	123,7	151,2	164,9	178,7	247,4
AR-314018AL-HT	EFXE-314018AL-HT	63,8	95,7	127,6	143,5	175,4	191,4	207,3	287,1
AR-314023AL-HT	EFXE-314023AL-HT	73,5	110,3	147,1	165,5	202,3	220,7	239,1	331,0
AR-316011AL-HT	EFXE-316011AL-HT	64,0	96,0	128,1	144,1	176,1	192,1	208,1	288,2
AR-316018AL-HT	EFXE-316018AL-HT	82,7	124,1	165,5	186,2	227,6	248,3	268,9	372,4
AQ-606020AL-HT	EFXE-606020AL-HT	129,1	193,7	258,3	290,5	355,1	387,4	419,7	581,1

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Enclosure types (aluminium)		Maximum power dissipation (W) – Tamb. up to **50**°C							
		INTERNAL TEMP.60°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)	INTERNAL TEMP.130°C (T4/T135°C)
AQ-080806AL-HT	EFXE-080806AL-HT	2,6	5,2	7,8	9,1	11,7	13,0	14,3	20,8
AR-081306AL-HT	EFXE-081306AL-HT	3,5	7,0	10,6	12,3	15,9	17,7	19,4	28,3
AR-081806AL-HT	EFXE-081806AL-HT	4,4	8,9	13,3	15,5	20,0	22,2	24,5	35,6
AR-082505AL-HT	EFXE-082505AL-HT	5,4	10,9	16,4	19,2	24,7	27,4	30,1	43,9
AQ-101008AL-HT	EFXE-101008AL-HT	4,3	8,7	13,0	15,2	19,6	21,7	23,9	34,8
AR-101608AL-HT	EFXE-101608AL-HT	5,7	11,5	17,3	20,2	26,0	28,9	31,8	46,2
AR-102008AL-HT	EFXE-102008AL-HT	6,7	13,4	20,1	23,5	30,2	33,5	36,9	53,7
AQ-121208AL-HT	EFXE-121208AL-HT	5,4	10,8	16,2	18,9	24,3	27,0	29,7	43,2
AQ-121209AL-HT	EFXE-121209AL-HT	5,8	11,6	17,5	20,4	26,2	29,2	32,1	46,7
AR-122208AL-HT	EFXE-122208AL-HT	7,8	15,6	23,5	27,4	35,3	39,2	43,1	62,7
AR-122209AL-HT	EFXE-122209AL-HT	8,4	16,8	25,3	29,5	37,9	42,1	46,3	67,4
AR-123608AL-HT	EFXE-123608AL-HT	11,1	22,3	33,5	39,1	50,3	55,9	61,5	89,5
AQ-141409AL-HT	EFXE-141409AL-HT	6,8	13,7	20,6	24,1	31,0	34,4	37,9	55,1
AR-142009AL-HT	EFXE-142009AL-HT	8,5	17,1	25,7	30,0	38,5	42,8	47,1	68,5
AQ-161609AL-HT	EFXE-161609AL-HT	8,0	16,1	24,1	28,1	36,2	40,2	44,2	64,4
AR-162609AL-HT	EFXE-162609AL-HT	10,9	21,9	32,8	38,3	49,3	54,8	60,2	87,6
AR-163609AL-HT	EFXE-163609AL-HT	13,7	27,5	41,3	48,2	62,0	68,9	75,7	110,2
AR-165609AL-HT	EFXE-165609AL-HT	19,2	38,4	57,7	67,3	86,6	96,2	105,8	153,9
AQ-181810AL-HT	EFXE-181810AL-HT	9,8	19,7	29,6	34,5	44,4	49,3	54,3	79,0
AR-182810AL-HT	EFXE-182810AL-HT	13,0	26,1	39,1	45,7	58,7	65,2	71,8	104,4
AR-102311AL-HT	EFXE-102311AL-HT	9,1	18,2	27,3	31,9	41,0	45,6	50,1	73,0
AR-202311AL-HT	EFXE-202311AL-HT	13,0	26,1	39,1	45,6	58,7	65,2	71,7	104,4
AR-202318AL-HT	EFXE-202318AL-HT	17,9	35,9	53,9	62,8	80,8	89,8	98,8	143,7
AR-232811AL-HT	EFXE-232811AL-HT	15,8	31,6	47,5	55,4	71,3	79,2	87,1	126,7
AR-233311AL-HT	EFXE-233311AL-HT	17,6	35,3	52,9	61,7	79,4	88,2	97,0	141,2
AR-233318AL-HT	EFXE-233318AL-HT	23,7	47,5	71,3	83,2	107,0	118,9	130,8	190,3
AR-234011AL-HT	EFXE-234011AL-HT	20,1	40,2	60,4	70,5	90,6	100,7	110,7	161,1
AR-234023AL-HT	EFXE-234023AL-HT	31,1	62,2	93,3	108,9	140,0	155,6	171,2	249,0
AR-236011AL-HT	EFXE-236011AL-HT	27,0	54,1	81,2	94,8	121,9	135,4	148,9	216,7
AR-314011AL-HT	EFXE-314011AL-HT	24,3	48,6	72,9	85,0	109,3	121,5	133,6	194,4
AR-314014AL-HT	EFXE-314014AL-HT	27,4	54,9	82,4	96,2	123,7	137,4	151,2	219,9
AR-314018AL-HT	EFXE-314018AL-HT	31,9	63,8	95,7	111,6	143,5	159,5	175,4	255,2
AR-314023AL-HT	EFXE-314023AL-HT	36,7	73,5	110,3	128,7	165,5	183,9	202,3	294,2
AR-316011AL-HT	EFXE-316011AL-HT	32,0	64,0	96,0	112,0	144,1	160,1	176,1	256,2
AR-316018AL-HT	EFXE-316018AL-HT	41,3	82,7	124,1	144,8	186,2	206,9	227,6	331,0
AQ-606020AL-HT	EFXE-606020AL-HT	64,5	129,1	193,7	226,0	290,5	322,8	355,1	516,6

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Enclosure types (aluminium)		Maximum power dissipation (W) – Tamb. up to **55**°C							
		INTERNAL TEMP.65°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)	INTERNAL TEMP.130°C (T4/T135°C)
AQ-080806AL-HT	EFXE-080806AL-HT	2,6	3,9	6,5	7,8	10,4	11,7	13,0	19,5
AR-081306AL-HT	EFXE-081306AL-HT	3,5	5,3	8,8	10,6	14,1	15,9	17,7	26,5
AR-081806AL-HT	EFXE-081806AL-HT	4,4	6,6	11,1	13,3	17,8	20,0	22,2	33,4
AR-082505AL-HT	EFXE-082505AL-HT	5,4	8,2	13,7	16,4	21,9	24,7	27,4	41,1
AQ-101008AL-HT	EFXE-101008AL-HT	4,3	6,5	10,8	13,0	17,4	19,6	21,7	32,6
AR-101608AL-HT	EFXE-101608AL-HT	5,7	8,6	14,4	17,3	23,1	26,0	28,9	43,3
AR-102008AL-HT	EFXE-102008AL-HT	6,7	10,0	16,7	20,1	26,8	30,2	33,5	50,3
AQ-121208AL-HT	EFXE-121208AL-HT	5,4	8,1	13,5	16,2	21,6	24,3	27,0	40,5
AQ-121209AL-HT	EFXE-121209AL-HT	5,8	8,7	14,6	17,5	23,3	26,2	29,2	43,8
AR-122208AL-HT	EFXE-122208AL-HT	7,8	11,7	19,6	23,5	31,3	35,3	39,2	58,8
AR-122209AL-HT	EFXE-122209AL-HT	8,4	12,6	21,0	25,3	33,7	37,9	42,1	63,2
AR-123608AL-HT	EFXE-123608AL-HT	11,1	16,7	27,9	33,5	44,7	50,3	55,9	83,9
AQ-141409AL-HT	EFXE-141409AL-HT	6,8	10,3	17,2	20,6	27,5	31,0	34,4	51,7
AR-142009AL-HT	EFXE-142009AL-HT	8,5	12,8	21,4	25,7	34,2	38,5	42,8	64,3
AQ-161609AL-HT	EFXE-161609AL-HT	8,0	12,0	20,1	24,1	32,2	36,2	40,2	60,4
AR-162609AL-HT	EFXE-162609AL-HT	10,9	16,4	27,4	32,8	43,8	49,3	54,8	82,2
AR-163609AL-HT	EFXE-163609AL-HT	13,7	20,6	34,4	41,3	55,1	62,0	68,9	103,3
AR-165609AL-HT	EFXE-165609AL-HT	19,2	28,8	48,1	57,7	76,9	86,6	96,2	144,3
AQ-181810AL-HT	EFXE-181810AL-HT	9,8	14,8	24,6	29,6	39,5	44,4	49,3	74,0
AR-182810AL-HT	EFXE-182810AL-HT	13,0	19,5	32,6	39,1	52,2	58,7	65,2	97,9
AR-102311AL-HT	EFXE-102311AL-HT	9,1	13,6	22,8	27,3	36,5	41,0	45,6	68,4
AR-202311AL-HT	EFXE-202311AL-HT	13,0	19,5	32,6	39,1	52,2	58,7	65,2	97,9
AR-202318AL-HT	EFXE-202318AL-HT	17,9	26,9	44,9	53,9	71,8	80,8	89,8	134,7
AR-232811AL-HT	EFXE-232811AL-HT	15,8	23,7	39,6	47,5	63,3	71,3	79,2	118,8
AR-233311AL-HT	EFXE-233311AL-HT	17,6	26,4	44,1	52,9	70,6	79,4	88,2	132,3
AR-233318AL-HT	EFXE-233318AL-HT	23,7	35,6	59,4	71,3	95,1	107,0	118,9	178,4
AR-234011AL-HT	EFXE-234011AL-HT	20,1	30,2	50,3	60,4	80,5	90,6	100,7	151,0
AR-234023AL-HT	EFXE-234023AL-HT	31,1	46,6	77,8	93,3	124,5	140,0	155,6	233,4
AR-236011AL-HT	EFXE-236011AL-HT	27,0	40,6	67,7	81,2	108,3	121,9	135,4	203,1
AR-314011AL-HT	EFXE-314011AL-HT	24,3	36,4	60,7	72,9	97,2	109,3	121,5	182,3
AR-314014AL-HT	EFXE-314014AL-HT	27,4	41,2	68,7	82,4	109,9	123,7	137,4	206,2
AR-314018AL-HT	EFXE-314018AL-HT	31,9	47,8	79,7	95,7	127,6	143,5	159,5	239,2
AR-314023AL-HT	EFXE-314023AL-HT	36,7	55,1	91,9	110,3	147,1	165,5	183,9	275,8
AR-316011AL-HT	EFXE-316011AL-HT	32,0	48,0	80,0	96,0	128,1	144,1	160,1	240,1
AR-316018AL-HT	EFXE-316018AL-HT	41,3	62,0	103,4	124,1	165,5	186,2	206,9	310,3
AQ-606020AL-HT	EFXE-606020AL-HT	64,5	96,8	161,4	193,7	258,3	290,5	322,8	484,3

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Enclosure types (aluminium)		Maximum power dissipation (W) – Tamb. up to **60**°C						
		INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)	INTERNAL TEMP.130°C (T4/T135°C)
AQ-080806AL-HT	EFXE-080806AL-HT	2,6	5,2	6,5	9,1	10,4	11,7	18,2
AR-081306AL-HT	EFXE-081306AL-HT	3,5	7,0	8,8	12,3	14,1	15,9	24,7
AR-081806AL-HT	EFXE-081806AL-HT	4,4	8,9	11,1	15,5	17,8	20,0	31,1
AR-082505AL-HT	EFXE-082505AL-HT	5,4	10,9	13,7	19,2	21,9	24,7	38,4
AQ-101008AL-HT	EFXE-101008AL-HT	4,3	8,7	10,8	15,2	17,4	19,6	30,4
AR-101608AL-HT	EFXE-101608AL-HT	5,7	11,5	14,4	20,2	23,1	26,0	40,5
AR-102008AL-HT	EFXE-102008AL-HT	6,7	13,4	16,7	23,5	26,8	30,2	47,0
AQ-121208AL-HT	EFXE-121208AL-HT	5,4	10,8	13,5	18,9	21,6	24,3	37,8
AQ-121209AL-HT	EFXE-121209AL-HT	5,8	11,6	14,6	20,4	23,3	26,2	40,8
AR-122208AL-HT	EFXE-122208AL-HT	7,8	15,6	19,6	27,4	31,3	35,3	54,9
AR-122209AL-HT	EFXE-122209AL-HT	8,4	16,8	21,0	29,5	33,7	37,9	59,0
AR-123608AL-HT	EFXE-123608AL-HT	11,1	22,3	27,9	39,1	44,7	50,3	78,3
AQ-141409AL-HT	EFXE-141409AL-HT	6,8	13,7	17,2	24,1	27,5	31,0	48,2
AR-142009AL-HT	EFXE-142009AL-HT	8,5	17,1	21,4	30,0	34,2	38,5	60,0
AQ-161609AL-HT	EFXE-161609AL-HT	8,0	16,1	20,1	28,1	32,2	36,2	56,3
AR-162609AL-HT	EFXE-162609AL-HT	10,9	21,9	27,4	38,3	43,8	49,3	76,7
AR-163609AL-HT	EFXE-163609AL-HT	13,7	27,5	34,4	48,2	55,1	62,0	96,4
AR-165609AL-HT	EFXE-165609AL-HT	19,2	38,4	48,1	67,3	76,9	86,6	134,7
AQ-181810AL-HT	EFXE-181810AL-HT	9,8	19,7	24,6	34,5	39,5	44,4	69,1
AR-182810AL-HT	EFXE-182810AL-HT	13,0	26,1	32,6	45,7	52,2	58,7	91,4
AR-102311AL-HT	EFXE-102311AL-HT	9,1	18,2	22,8	31,9	36,5	41,0	63,8
AR-202311AL-HT	EFXE-202311AL-HT	13,0	26,1	32,6	45,6	52,2	58,7	91,3
AR-202318AL-HT	EFXE-202318AL-HT	17,9	35,9	44,9	62,8	71,8	80,8	125,7
AR-232811AL-HT	EFXE-232811AL-HT	15,8	31,6	39,6	55,4	63,3	71,3	110,9
AR-233311AL-HT	EFXE-233311AL-HT	17,6	35,3	44,1	61,7	70,6	79,4	123,5
AR-233318AL-HT	EFXE-233318AL-HT	23,7	47,5	59,4	83,2	95,1	107,0	166,5
AR-234011AL-HT	EFXE-234011AL-HT	20,1	40,2	50,3	70,5	80,5	90,6	141,0
AR-234023AL-HT	EFXE-234023AL-HT	31,1	62,2	77,8	108,9	124,5	140,0	217,9
AR-236011AL-HT	EFXE-236011AL-HT	27,0	54,1	67,7	94,8	108,3	121,9	189,6
AR-314011AL-HT	EFXE-314011AL-HT	24,3	48,6	60,7	85,0	97,2	109,3	170,1
AR-314014AL-HT	EFXE-314014AL-HT	27,4	54,9	68,7	96,2	109,9	123,7	192,4
AR-314018AL-HT	EFXE-314018AL-HT	31,9	63,8	79,7	111,6	127,6	143,5	223,3
AR-314023AL-HT	EFXE-314023AL-HT	36,7	73,5	91,9	128,7	147,1	165,5	257,4
AR-316011AL-HT	EFXE-316011AL-HT	32,0	64,0	80,0	112,0	128,1	144,1	224,1
AR-316018AL-HT	EFXE-316018AL-HT	41,3	82,7	103,4	144,8	165,5	186,2	289,6
AQ-606020AL-HT	EFXE-606020AL-HT	64,5	129,1	161,4	226,0	258,3	290,5	452,0

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Enclosure types (aluminium)		Maximum power dissipation (W) Tamb. up to **95**°C		
		INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)	INTERNAL TEMP.130°C (T4/T135°C)
AQ-080806AL-HT	EFXE-080806AL-HT	1,3	2,6	9,1
AR-081306AL-HT	EFXE-081306AL-HT	1,7	3,5	12,3
AR-081806AL-HT	EFXE-081806AL-HT	2,2	4,4	15,5
AR-082505AL-HT	EFXE-082505AL-HT	2,7	5,4	19,2
AQ-101008AL-HT	EFXE-101008AL-HT	2,1	4,3	15,2
AR-101608AL-HT	EFXE-101608AL-HT	2,8	5,7	20,2
AR-102008AL-HT	EFXE-102008AL-HT	3,3	6,7	23,5
AQ-121208AL-HT	EFXE-121208AL-HT	2,7	5,4	18,9
AQ-121209AL-HT	EFXE-121209AL-HT	2,9	5,8	20,4
AR-122208AL-HT	EFXE-122208AL-HT	3,9	7,8	27,4
AR-122209AL-HT	EFXE-122209AL-HT	4,2	8,4	29,5
AR-123608AL-HT	EFXE-123608AL-HT	5,5	11,1	39,1
AQ-141409AL-HT	EFXE-141409AL-HT	3,4	6,8	24,1
AR-142009AL-HT	EFXE-142009AL-HT	4,2	8,5	30,0
AQ-161609AL-HT	EFXE-161609AL-HT	4,0	8,0	28,1
AR-162609AL-HT	EFXE-162609AL-HT	5,4	10,9	38,3
AR-163609AL-HT	EFXE-163609AL-HT	6,8	13,7	48,2
AR-165609AL-HT	EFXE-165609AL-HT	9,6	19,2	67,3
AQ-181810AL-HT	EFXE-181810AL-HT	4,9	9,8	34,5
AR-182810AL-HT	EFXE-182810AL-HT	6,5	13,0	45,7
AR-102311AL-HT	EFXE-102311AL-HT	4,5	9,1	31,9
AR-202311AL-HT	EFXE-202311AL-HT	6,5	13,0	45,6
AR-202318AL-HT	EFXE-202318AL-HT	8,9	17,9	62,8
AR-232811AL-HT	EFXE-232811AL-HT	7,9	15,8	55,4
AR-233311AL-HT	EFXE-233311AL-HT	8,8	17,6	61,7
AR-233318AL-HT	EFXE-233318AL-HT	11,8	23,7	83,2
AR-234011AL-HT	EFXE-234011AL-HT	10,0	20,1	70,5
AR-234023AL-HT	EFXE-234023AL-HT	15,5	31,1	108,9
AR-236011AL-HT	EFXE-236011AL-HT	13,5	27,0	94,8
AR-314011AL-HT	EFXE-314011AL-HT	12,1	24,3	85,0
AR-314014AL-HT	EFXE-314014AL-HT	13,7	27,4	96,2
AR-314018AL-HT	EFXE-314018AL-HT	15,9	31,9	111,6
AR-314023AL-HT	EFXE-314023AL-HT	18,3	36,7	128,7
AR-316011AL-HT	EFXE-316011AL-HT	16,0	32,0	112,0
AR-316018AL-HT	EFXE-316018AL-HT	20,6	41,3	144,8
AQ-606020AL-HT	EFXE-606020AL-HT	32,2	64,5	226,0

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Power dissipation – Glass fiber reinforced polyester resin enclosures

Enclosure types (polyester)		Maximum power dissipation (W) – Tamb. up to **40**°C						
		INTERNAL TEMP.60°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
AQ-080806P	EFE-080806	3,4	5,2	6,9	7,8	9,5	10,4	11,3
AQ-080808P	EFE-080808	4,5	6,8	9,1	10,2	12,5	13,6	14,7
AR-081106P	EFE-081106	4,2	6,4	8,5	9,6	11,7	12,8	13,8
AR-081606P	EFE-081606	5,7	8,6	11,5	13,0	15,9	17,3	18,8
AR-081906P	EFE-081906	6,4	9,6	12,8	14,4	17,6	19,2	20,8
AQ-121209P	EFE-121209	7,9	11,9	15,9	17,9	21,9	23,9	25,9
AR-122209P	EFE-122209	10,8	16,2	21,6	24,3	29,7	32,4	35,1
AQ-161609P	EFE-161609	10,3	15,5	20,7	23,3	28,5	31,1	33,7
AR-162609P	EFE-162609	13,4	20,1	26,8	30,1	36,8	40,2	43,5
AR-163609P	EFE-163609	16,2	24,3	32,4	36,4	44,5	48,6	52,6
AQ-252612P	EFE-252612	18,8	28,2	37,6	42,3	51,7	56,4	61,1
AQ-252616P	EFE-252616	21,7	32,6	43,5	49,0	59,9	65,3	70,8
AR-254012P	EFE-254012	23,9	35,9	47,9	53,9	65,9	71,8	77,8
AR-254016P	EFE-254016	27,4	41,2	54,9	61,8	75,6	82,4	89,3
AR-256012P	EFE-256012	29,0	43,5	58,0	65,3	79,8	87,1	94,3
AQ-414012P	EFE-414012	29,1	43,6	58,2	65,5	80,0	87,3	94,6
AQ-414016P	EFE-414016	32,9	49,4	65,9	74,1	90,6	98,8	107,0

Enclosure types (polyester)		Maximum power dissipation (W) – Tamb. up to **50**°C						
		INTERNAL TEMP.60°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
AQ-080806P	EFE-080806	1,7	3,4	5,2	6,0	7,8	8,7	9,5
AQ-080808P	EFE-080808	2,2	4,5	6,8	7,9	10,2	11,3	12,5
AR-081106P	EFE-081106	2,1	4,2	6,4	7,4	9,6	10,6	11,7
AR-081606P	EFE-081606	2,8	5,7	8,6	10,1	13,0	14,4	15,9
AR-081906P	EFE-081906	3,2	6,4	9,6	11,2	14,4	16,0	17,6
AQ-121209P	EFE-121209	3,9	7,9	11,9	13,9	17,9	19,9	21,9
AR-122209P	EFE-122209	5,4	10,8	16,2	18,9	24,3	27,0	29,7
AQ-161609P	EFE-161609	5,1	10,3	15,5	18,1	23,3	25,9	28,5
AR-162609P	EFE-162609	6,7	13,4	20,1	23,4	30,1	33,5	36,8
AR-163609P	EFE-163609	8,1	16,2	24,3	28,3	36,4	40,5	44,5
AQ-252612P	EFE-252612	9,4	18,8	28,2	32,9	42,3	47,0	51,7
AQ-252616P	EFE-252616	10,8	21,7	32,6	38,1	49,0	54,4	59,9
AR-254012P	EFE-254012	11,9	23,9	35,9	41,9	53,9	59,9	65,9
AR-254016P	EFE-254016	13,7	27,4	41,2	48,1	61,8	68,7	75,6
AR-256012P	EFE-256012	14,5	29,0	43,5	50,8	65,3	72,6	79,8
AQ-414012P	EFE-414012	14,5	29,1	43,6	50,9	65,5	72,7	80,0
AQ-414016P	EFE-414016	16,4	32,9	49,4	57,6	74,1	82,3	90,6

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Enclosure types (polyester)		Maximum power dissipation (W) – Tamb. up to **55**°C						
		INTERNAL TEMP.65°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
AQ-080806P	EFE-080806	1,7	2,6	4,3	5,2	6,9	7,8	8,7
AQ-080808P	EFE-080808	2,2	3,4	5,6	6,8	9,1	10,2	11,3
AR-081106P	EFE-081106	2,1	3,2	5,3	6,4	8,5	9,6	10,6
AR-081606P	EFE-081606	2,8	4,3	7,2	8,6	11,5	13,0	14,4
AR-081906P	EFE-081906	3,2	4,8	8,0	9,6	12,8	14,4	16,0
AQ-121209P	EFE-121209	3,9	5,9	9,9	11,9	15,9	17,9	19,9
AR-122209P	EFE-122209	5,4	8,1	13,5	16,2	21,6	24,3	27,0
AQ-161609P	EFE-161609	5,1	7,7	12,9	15,5	20,7	23,3	25,9
AR-162609P	EFE-162609	6,7	10,0	16,7	20,1	26,8	30,1	33,5
AR-163609P	EFE-163609	8,1	12,1	20,2	24,3	32,4	36,4	40,5
AQ-252612P	EFE-252612	9,4	14,1	23,5	28,2	37,6	42,3	47,0
AQ-252616P	EFE-252616	10,8	16,3	27,2	32,6	43,5	49,0	54,4
AR-254012P	EFE-254012	11,9	17,9	29,9	35,9	47,9	53,9	59,9
AR-254016P	EFE-254016	13,7	20,6	34,3	41,2	54,9	61,8	68,7
AR-256012P	EFE-256012	14,5	21,7	36,3	43,5	58,0	65,3	72,6
AQ-414012P	EFE-414012	14,5	21,8	36,3	43,6	58,2	65,5	72,7
AQ-414016P	EFE-414016	16,4	24,7	41,1	49,4	65,9	74,1	82,3

Enclosure types (polyester)		Maximum power dissipation (W) – Tamb. up to **60**°C					
		INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
AQ-080806P	EFE-080806	1,7	3,4	4,3	6,0	6,9	7,8
AQ-080808P	EFE-080808	2,2	4,5	5,6	7,9	9,1	10,2
AR-081106P	EFE-081106	2,1	4,2	5,3	7,4	8,5	9,6
AR-081606P	EFE-081606	2,8	5,7	7,2	10,1	11,5	13,0
AR-081906P	EFE-081906	3,2	6,4	8,0	11,2	12,8	14,4
AQ-121209P	EFE-121209	3,9	7,9	9,9	13,9	15,9	17,9
AR-122209P	EFE-122209	5,4	10,8	13,5	18,9	21,6	24,3
AQ-161609P	EFE-161609	5,1	10,3	12,9	18,1	20,7	23,3
AR-162609P	EFE-162609	6,7	13,4	16,7	23,4	26,8	30,1
AR-163609P	EFE-163609	8,1	16,2	20,2	28,3	32,4	36,4
AQ-252612P	EFE-252612	9,4	18,8	23,5	32,9	37,6	42,3
AQ-252616P	EFE-252616	10,8	21,7	27,2	38,1	43,5	49,0
AR-254012P	EFE-254012	11,9	23,9	29,9	41,9	47,9	53,9
AR-254016P	EFE-254016	13,7	27,4	34,3	48,1	54,9	61,8
AR-256012P	EFE-256012	14,5	29,0	36,3	50,8	58,0	65,3
AQ-414012P	EFE-414012	14,5	29,1	36,3	50,9	58,2	65,5
AQ-414016P	EFE-414016	16,4	32,9	41,1	57,6	65,9	74,1

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Enclosure types (polyester)		Maximum power dissipation (W) – Tamb. up to **95**°C	
		INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
AQ-080806P	EFE-080806	0,8	1,7
AQ-080808P	EFE-080808	1,1	2,2
AR-081106P	EFE-081106	1,0	2,1
AR-081606P	EFE-081606	1,4	2,8
AR-081906P	EFE-081906	1,6	3,2
AQ-121209P	EFE-121209	1,9	3,9
AR-122209P	EFE-122209	2,7	5,4
AQ-161609P	EFE-161609	2,5	5,1
AR-162609P	EFE-162609	3,3	6,7
AR-163609P	EFE-163609	4,0	8,1
AQ-252612P	EFE-252612	4,7	9,4
AQ-252616P	EFE-252616	5,4	10,8
AR-254012P	EFE-254012	5,9	11,9
AR-254016P	EFE-254016	6,8	13,7
AR-256012P	EFE-256012	7,2	14,5
AQ-414012P	EFE-414012	7,2	14,5
AQ-414016P	EFE-414016	8,2	16,4

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Power dissipation – Aluminum alloy enclosures

Enclosure types (aluminium)		Maximum power dissipation (W) – Tamb. up to **40**°C						
		INTERNAL TEMP.60°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
AQ-080806AL	EFXE-080806AL	5,2	7,8	10,4	11,7	14,3	15,6	16,9
AR-081306AL	EFXE-081306AL	7,0	10,6	14,1	15,9	19,4	21,2	23,0
AR-081806AL	EFXE-081806AL	8,9	13,3	17,8	20,0	24,5	26,7	28,9
AR-081808AL	EFXE-081808AL	11,0	16,5	22,1	24,8	30,4	33,1	35,9
AR-082505AL	EFXE-082505AL	10,7	16,1	21,4	24,1	29,5	32,2	34,8
AR-082508AL	EFXE-082508AL	14,2	21,4	28,5	32,1	39,2	42,8	46,4
AQ-101008AL	EFXE-101008AL	8,7	13,0	17,4	19,6	23,9	26,1	28,3
AR-101508AL	EFXE-101508AL	11,1	16,6	22,2	24,9	30,5	33,3	36,0
AR-101608AL	EFXE-101608AL	11,5	17,3	23,1	26,0	31,8	34,7	37,6
AR-102008AL	EFXE-102008AL	13,4	20,1	26,8	30,2	36,9	40,3	43,6
AQ-121208AL	EFXE-121208AL	10,8	16,2	21,6	24,3	29,7	32,4	35,1
AR-122209AL	EFXE-122209AL	16,8	25,3	33,7	37,9	46,3	50,6	54,8
AQ-141409AL	EFXE-141409AL	13,7	20,6	27,5	31,0	37,9	41,3	44,8
AR-142009AL	EFXE-142009AL	17,1	25,7	34,2	38,5	47,1	51,4	55,7
AQ-161609AL	EFXE-161609AL	17,2	25,8	34,4	38,7	47,3	51,6	55,9
AR-162410AL	EFXE-162410AL	22,1	33,1	44,2	49,7	60,8	66,3	71,8
AR-162609AL	EFXE-162609AL	21,9	32,8	43,8	49,3	60,2	65,7	71,2
AQ-181810AL	EFXE-181810AL	19,7	29,6	39,5	44,4	54,3	59,2	64,2
AR-182810AL	EFXE-182810AL	26,1	39,1	52,2	58,7	71,8	78,3	84,8
AR-202311AL	EFXE-202311AL	25,8	38,7	51,6	58,0	71,0	77,4	83,9
AR-202318AL	EFXE-202318AL	35,5	53,3	71,1	80,0	97,8	106,7	115,6
AR-232811AL	EFXE-232811AL	31,6	47,5	63,3	71,3	87,1	95,0	103,0
AR-233312AL	EFXE-233312AL	37,0	55,6	74,1	83,4	101,9	111,2	120,5
AR-233318AL	EFXE-233318AL	47,5	71,3	95,1	107,0	130,8	142,7	154,6

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Enclosure types (aluminium)		Maximum power dissipation (W) – Tamb. up to **50**°C						
		INTERNAL TEMP.60°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
AQ-080806AL	EFXE-080806AL	2,6	5,2	7,8	9,1	11,7	13,0	14,3
AR-081306AL	EFXE-081306AL	3,5	7,0	10,6	12,3	15,9	17,7	19,4
AR-081806AL	EFXE-081806AL	4,4	8,9	13,3	15,5	20,0	22,2	24,5
AR-081808AL	EFXE-081808AL	5,5	11,0	16,5	19,3	24,8	27,6	30,4
AR-082505AL	EFXE-082505AL	5,3	10,7	16,1	18,7	24,1	26,8	29,5
AR-082508AL	EFXE-082508AL	7,1	14,2	21,4	24,9	32,1	35,7	39,2
AQ-101008AL	EFXE-101008AL	4,3	8,7	13,0	15,2	19,6	21,7	23,9
AR-101508AL	EFXE-101508AL	5,5	11,1	16,6	19,4	24,9	27,7	30,5
AR-101608AL	EFXE-101608AL	5,7	11,5	17,3	20,2	26,0	28,9	31,8
AR-102008AL	EFXE-102008AL	6,7	13,4	20,1	23,5	30,2	33,5	36,9
AQ-121208AL	EFXE-121208AL	5,4	10,8	16,2	18,9	24,3	27,0	29,7
AR-122209AL	EFXE-122209AL	8,4	16,8	25,3	29,5	37,9	42,1	46,3
AQ-141409AL	EFXE-141409AL	6,8	13,7	20,6	24,1	31,0	34,4	37,9
AR-142009AL	EFXE-142009AL	8,5	17,1	25,7	30,0	38,5	42,8	47,1
AQ-161609AL	EFXE-161609AL	8,6	17,2	25,8	30,1	38,7	43,0	47,3
AR-162410AL	EFXE-162410AL	11,0	22,1	33,1	38,7	49,7	55,3	60,8
AR-162609AL	EFXE-162609AL	10,9	21,9	32,8	38,3	49,3	54,8	60,2
AQ-181810AL	EFXE-181810AL	9,8	19,7	29,6	34,5	44,4	49,3	54,3
AR-182810AL	EFXE-182810AL	13,0	26,1	39,1	45,7	58,7	65,2	71,8
AR-202311AL	EFXE-202311AL	12,9	25,8	38,7	45,1	58,0	64,5	71,0
AR-202318AL	EFXE-202318AL	17,7	35,5	53,3	62,2	80,0	88,9	97,8
AR-232811AL	EFXE-232811AL	15,8	31,6	47,5	55,4	71,3	79,2	87,1
AR-233312AL	EFXE-233312AL	18,5	37,0	55,6	64,8	83,4	92,7	101,9
AR-233318AL	EFXE-233318AL	23,7	47,5	71,3	83,2	107,0	118,9	130,8

Enclosure types (aluminium)		Maximum power dissipation (W) – Tamb. up to **55**°C						
		INTERNAL TEMP.65°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
AQ-080806AL	EFXE-080806AL	2,6	3,9	6,5	7,8	10,4	11,7	13,0
AR-081306AL	EFXE-081306AL	3,5	5,3	8,8	10,6	14,1	15,9	17,7
AR-081806AL	EFXE-081806AL	4,4	6,6	11,1	13,3	17,8	20,0	22,2
AR-081808AL	EFXE-081808AL	5,5	8,2	13,8	16,5	22,1	24,8	27,6
AR-082505AL	EFXE-082505AL	5,3	8,0	13,4	16,1	21,4	24,1	26,8
AR-082508AL	EFXE-082508AL	7,1	10,7	17,8	21,4	28,5	32,1	35,7
AQ-101008AL	EFXE-101008AL	4,3	6,5	10,8	13,0	17,4	19,6	21,7
AR-101508AL	EFXE-101508AL	5,5	8,3	13,8	16,6	22,2	24,9	27,7
AR-101608AL	EFXE-101608AL	5,7	8,6	14,4	17,3	23,1	26,0	28,9
AR-102008AL	EFXE-102008AL	6,7	10,0	16,7	20,1	26,8	30,2	33,5
AQ-121208AL	EFXE-121208AL	5,4	8,1	13,5	16,2	21,6	24,3	27,0
AR-122209AL	EFXE-122209AL	8,4	12,6	21,0	25,3	33,7	37,9	42,1
AQ-141409AL	EFXE-141409AL	6,8	10,3	17,2	20,6	27,5	31,0	34,4
AR-142009AL	EFXE-142009AL	8,5	12,8	21,4	25,7	34,2	38,5	42,8
AQ-161609AL	EFXE-161609AL	8,6	12,9	21,5	25,8	34,4	38,7	43,0
AR-162410AL	EFXE-162410AL	11,0	16,5	27,6	33,1	44,2	49,7	55,3
AR-162609AL	EFXE-162609AL	10,9	16,4	27,4	32,8	43,8	49,3	54,8
AQ-181810AL	EFXE-181810AL	9,8	14,8	24,6	29,6	39,5	44,4	49,3
AR-182810AL	EFXE-182810AL	13,0	19,5	32,6	39,1	52,2	58,7	65,2
AR-202311AL	EFXE-202311AL	12,9	19,3	32,2	38,7	51,6	58,0	64,5
AR-202318AL	EFXE-202318AL	17,7	26,6	44,4	53,3	71,1	80,0	88,9
AR-232811AL	EFXE-232811AL	15,8	23,7	39,6	47,5	63,3	71,3	79,2
AR-233312AL	EFXE-233312AL	18,5	27,8	46,3	55,6	74,1	83,4	92,7
AR-233318AL	EFXE-233318AL	23,7	35,6	59,4	71,3	95,1	107,0	118,9

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Enclosure types (aluminium)		Maximum power dissipation (W) – Tamb. up to **60**°C					
		INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
AQ-080806AL	EFXE-080806AL	2,6	5,2	6,5	9,1	10,4	11,7
AR-081306AL	EFXE-081306AL	3,5	7,0	8,8	12,3	14,1	15,9
AR-081806AL	EFXE-081806AL	4,4	8,9	11,1	15,5	17,8	20,0
AR-081808AL	EFXE-081808AL	5,5	11,0	13,8	19,3	22,1	24,8
AR-082505AL	EFXE-082505AL	5,3	10,7	13,4	18,7	21,4	24,1
AR-082508AL	EFXE-082508AL	7,1	14,2	17,8	24,9	28,5	32,1
AQ-101008AL	EFXE-101008AL	4,3	8,7	10,8	15,2	17,4	19,6
AR-101508AL	EFXE-101508AL	5,5	11,1	13,8	19,4	22,2	24,9
AR-101608AL	EFXE-101608AL	5,7	11,5	14,4	20,2	23,1	26,0
AR-102008AL	EFXE-102008AL	6,7	13,4	16,7	23,5	26,8	30,2
AQ-121208AL	EFXE-121208AL	5,4	10,8	13,5	18,9	21,6	24,3
AR-122209AL	EFXE-122209AL	8,4	16,8	21,0	29,5	33,7	37,9
AQ-141409AL	EFXE-141409AL	6,8	13,7	17,2	24,1	27,5	31,0
AR-142009AL	EFXE-142009AL	8,5	17,1	21,4	30,0	34,2	38,5
AQ-161609AL	EFXE-161609AL	8,6	17,2	21,5	30,1	34,4	38,7
AR-162410AL	EFXE-162410AL	11,0	22,1	27,6	38,7	44,2	49,7
AR-162609AL	EFXE-162609AL	10,9	21,9	27,4	38,3	43,8	49,3
AQ-181810AL	EFXE-181810AL	9,8	19,7	24,6	34,5	39,5	44,4
AR-182810AL	EFXE-182810AL	13,0	26,1	32,6	45,7	52,2	58,7
AR-202311AL	EFXE-202311AL	12,9	25,8	32,2	45,1	51,6	58,0
AR-202318AL	EFXE-202318AL	17,7	35,5	44,4	62,2	71,1	80,0
AR-232811AL	EFXE-232811AL	15,8	31,6	39,6	55,4	63,3	71,3
AR-233312AL	EFXE-233312AL	18,5	37,0	46,3	64,8	74,1	83,4
AR-233318AL	EFXE-233318AL	23,7	47,5	59,4	83,2	95,1	107,0

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Enclosure types (aluminium)		Maximum power dissipation (W) – Tamb. up to **95**°C	
		INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
AQ-080806AL	EFXE-080806AL	1,3	2,6
AR-081306AL	EFXE-081306AL	1,7	3,5
AR-081806AL	EFXE-081806AL	2,2	4,4
AR-081808AL	EFXE-081808AL	2,7	5,5
AR-082505AL	EFXE-082505AL	2,6	5,3
AR-082508AL	EFXE-082508AL	3,5	7,1
AQ-101008AL	EFXE-101008AL	2,1	4,3
AR-101508AL	EFXE-101508AL	2,7	5,5
AR-101608AL	EFXE-101608AL	2,8	5,7
AR-102008AL	EFXE-102008AL	3,3	6,7
AQ-121208AL	EFXE-121208AL	2,7	5,4
AR-122209AL	EFXE-122209AL	4,2	8,4
AQ-141409AL	EFXE-141409AL	3,4	6,8
AR-142009AL	EFXE-142009AL	4,2	8,5
AQ-161609AL	EFXE-161609AL	4,3	8,6
AR-162410AL	EFXE-162410AL	5,5	11,0
AR-162609AL	EFXE-162609AL	5,4	10,9
AQ-181810AL	EFXE-181810AL	4,9	9,8
AR-182810AL	EFXE-182810AL	6,5	13,0
AR-202311AL	EFXE-202311AL	6,4	12,9
AR-202318AL	EFXE-202318AL	8,8	17,7
AR-232811AL	EFXE-232811AL	7,9	15,8
AR-233312AL	EFXE-233312AL	9,2	18,5
AR-233318AL	EFXE-233318AL	11,8	23,7

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Power dissipation – Stainless steel enclosures SB series

Enclosure types (stainless steel)		Maximum power dissipation (W) – Tamb. up to **40**°C						
		INTERNAL TEMP.60°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
SB-101210	EFXE-101210SB	5,5	8,3	11,1	12,5	15,3	16,7	18,1
SB-151510	EFXE-151510SB	8,0	12,0	16,0	18,0	22,0	24,0	26,1
SB-142013	EFXE-142013SB	10,4	15,7	20,9	23,5	28,8	31,4	34,0
SB-202010	EFXE-202010SB	10,7	16,1	21,4	24,1	29,5	32,2	34,8
SB-202016	EFXE-202016SB	13,9	20,8	27,8	31,3	38,3	41,7	45,2
SB-202713	EFXE-202713SB	14,4	21,6	28,9	32,5	39,7	43,3	46,9
SB-272713	EFXE-272713SB	16,7	25,1	33,5	37,7	46,0	50,2	54,4
SB-203016	EFXE-203016SB	17,1	25,7	34,3	38,6	47,2	51,4	55,7
SB-273513	EFXE-273513SB	19,2	28,9	38,5	43,3	53,0	57,8	62,6
SB-282816	EFXE-282816SB	19,3	29,0	38,7	43,6	53,3	58,1	63,0
SB-204016	EFXE-204016SB	20,2	30,3	40,4	45,5	55,6	60,6	65,7
SB-353516	EFXE-353516SB	24,4	36,6	48,8	54,9	67,1	73,2	79,3
SB-282827	EFXE-282827SB	26,2	39,3	52,5	59,0	72,2	78,7	85,3
SB-355016	EFXE-355016SB	29,7	44,5	59,4	66,8	81,7	89,1	96,6
SB-383816	EFXE-383816SB	26,6	39,9	53,2	59,8	73,1	79,8	86,5
SB-384516	EFXE-384516SB	29,1	43,7	58,3	65,6	80,2	87,5	94,8
SB-385716	EFXE-385716SB	33,4	50,1	66,8	75,2	91,9	100,3	108,7
SB-505016	EFXE-505016SB	35,8	53,8	71,7	80,7	98,6	107,6	116,6
SB-383827	EFXE-383827SB	35,1	52,7	70,2	79,0	96,6	105,4	114,2
SB-575716	EFXE-575716SB	41,5	62,3	83,1	93,5	114,3	124,7	135,1
SB-577620	EFXE-577620SB	53,9	80,9	107,9	121,3	148,3	161,8	175,3
SB-575730	EFXE-575730SB	55,8	83,7	111,6	125,6	153,5	167,5	181,4
SB-769520	EFXE-769520SB	72,2	108,3	144,4	162,4	198,5	216,6	234,6
SB-1258040	EFXE-1258040SB	72,2	108,3	144,4	162,4	198,5	216,6	234,6

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Enclosure types (Stainless steel)		Maximum power dissipation (W) – Tamb. up to **50**°C						
		INTERNAL TEMP.60°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
SB-101210	EFXE-101210SB	2,7	5,5	8,3	9,7	12,5	13,9	15,3
SB-151510	EFXE-151510SB	4,0	8,0	12,0	14,0	18,0	20,0	22,0
SB-142013	EFXE-142013SB	5,2	10,4	15,7	18,3	23,5	26,2	28,8
SB-202010	EFXE-202010SB	5,3	10,7	16,1	18,7	24,1	26,8	29,5
SB-202016	EFXE-202016SB	6,9	13,9	20,8	24,3	31,3	34,8	38,3
SB-202713	EFXE-202713SB	7,2	14,4	21,6	25,2	32,5	36,1	39,7
SB-272713	EFXE-272713SB	8,3	16,7	25,1	29,3	37,7	41,8	46,0
SB-203016	EFXE-203016SB	8,5	17,1	25,7	30,0	38,6	42,9	47,2
SB-273513	EFXE-273513SB	9,6	19,2	28,9	33,7	43,3	48,2	53,0
SB-282816	EFXE-282816SB	9,6	19,3	29,0	33,9	43,6	48,4	53,3
SB-204016	EFXE-204016SB	10,1	20,2	30,3	35,4	45,5	50,5	55,6
SB-353516	EFXE-353516SB	12,2	24,4	36,6	42,7	54,9	61,0	67,1
SB-282827	EFXE-282827SB	13,1	26,2	39,3	45,9	59,0	65,6	72,2
SB-355016	EFXE-355016SB	14,8	29,7	44,5	52,0	66,8	74,3	81,7
SB-383816	EFXE-383816SB	13,3	26,6	39,9	46,5	59,8	66,5	73,1
SB-384516	EFXE-384516SB	14,5	29,1	43,7	51,0	65,6	72,9	80,2
SB-385716	EFXE-385716SB	16,7	33,4	50,1	58,5	75,2	83,6	91,9
SB-505016	EFXE-505016SB	17,9	35,8	53,8	62,7	80,7	89,7	98,6
SB-383827	EFXE-383827SB	17,5	35,1	52,7	61,4	79,0	87,8	96,6
SB-575716	EFXE-575716SB	20,7	41,5	62,3	72,7	93,5	103,9	114,3
SB-577620	EFXE-577620SB	26,9	53,9	80,9	94,4	121,3	134,8	148,3
SB-575730	EFXE-575730SB	27,9	55,8	83,7	97,7	125,6	139,5	153,5
SB-769520	EFXE-769520SB	36,1	72,2	108,3	126,3	162,4	180,5	198,5
SB-1258040	EFXE-1258040SB	36,1	72,2	108,3	126,3	162,4	180,5	198,5

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Enclosure types (Stainless steel)		Maximum power dissipation (W) – Tamb. up to **55**°C						
		INTERNAL TEMP.65°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
SB-101210	EFXE-101210SB	2,7	4,1	6,9	8,3	11,1	12,5	13,9
SB-151510	EFXE-151510SB	4,0	6,0	10,0	12,0	16,0	18,0	20,0
SB-142013	EFXE-142013SB	5,2	7,8	13,1	15,7	20,9	23,5	26,2
SB-202010	EFXE-202010SB	5,3	8,0	13,4	16,1	21,4	24,1	26,8
SB-202016	EFXE-202016SB	6,9	10,4	17,4	20,8	27,8	31,3	34,8
SB-202713	EFXE-202713SB	7,2	10,8	18,0	21,6	28,9	32,5	36,1
SB-272713	EFXE-272713SB	8,3	12,5	20,9	25,1	33,5	37,7	41,8
SB-203016	EFXE-203016SB	8,5	12,8	21,4	25,7	34,3	38,6	42,9
SB-273513	EFXE-273513SB	9,6	14,4	24,1	28,9	38,5	43,3	48,2
SB-282816	EFXE-282816SB	9,6	14,5	24,2	29,0	38,7	43,6	48,4
SB-204016	EFXE-204016SB	10,1	15,1	25,2	30,3	40,4	45,5	50,5
SB-353516	EFXE-353516SB	12,2	18,3	30,5	36,6	48,8	54,9	61,0
SB-282827	EFXE-282827SB	13,1	19,6	32,8	39,3	52,5	59,0	65,6
SB-355016	EFXE-355016SB	14,8	22,2	37,1	44,5	59,4	66,8	74,3
SB-383816	EFXE-383816SB	13,3	19,9	33,2	39,9	53,2	59,8	66,5
SB-384516	EFXE-384516SB	14,5	21,8	36,4	43,7	58,3	65,6	72,9
SB-385716	EFXE-385716SB	16,7	25,0	41,8	50,1	66,8	75,2	83,6
SB-505016	EFXE-505016SB	17,9	26,9	44,8	53,8	71,7	80,7	89,7
SB-383827	EFXE-383827SB	17,5	26,3	43,9	52,7	70,2	79,0	87,8
SB-575716	EFXE-575716SB	20,7	31,1	51,9	62,3	83,1	93,5	103,9
SB-577620	EFXE-577620SB	26,9	40,4	67,4	80,9	107,9	121,3	134,8
SB-575730	EFXE-575730SB	27,9	41,8	69,7	83,7	111,6	125,6	139,5
SB-769520	EFXE-769520SB	36,1	54,1	90,2	108,3	144,4	162,4	180,5
SB-1258040	EFXE-1258040SB	36,1	54,1	90,2	108,3	144,4	162,4	180,5

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Enclosure types (Stainless steel)		Maximum power dissipation (W) – Tamb. up to **60**°C					
		INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
SB-101210	EFXE-101210SB	2,7	5,5	6,9	9,7	11,1	12,5
SB-151510	EFXE-151510SB	4,0	8,0	10,0	14,0	16,0	18,0
SB-142013	EFXE-142013SB	5,2	10,4	13,1	18,3	20,9	23,5
SB-202010	EFXE-202010SB	5,3	10,7	13,4	18,7	21,4	24,1
SB-202016	EFXE-202016SB	6,9	13,9	17,4	24,3	27,8	31,3
SB-202713	EFXE-202713SB	7,2	14,4	18,0	25,2	28,9	32,5
SB-272713	EFXE-272713SB	8,3	16,7	20,9	29,3	33,5	37,7
SB-203016	EFXE-203016SB	8,5	17,1	21,4	30,0	34,3	38,6
SB-273513	EFXE-273513SB	9,6	19,2	24,1	33,7	38,5	43,3
SB-282816	EFXE-282816SB	9,6	19,3	24,2	33,9	38,7	43,6
SB-204016	EFXE-204016SB	10,1	20,2	25,2	35,4	40,4	45,5
SB-353516	EFXE-353516SB	12,2	24,4	30,5	42,7	48,8	54,9
SB-282827	EFXE-282827SB	13,1	26,2	32,8	45,9	52,5	59,0
SB-355016	EFXE-355016SB	14,8	29,7	37,1	52,0	59,4	66,8
SB-383816	EFXE-383816SB	13,3	26,6	33,2	46,5	53,2	59,8
SB-384516	EFXE-384516SB	14,5	29,1	36,4	51,0	58,3	65,6
SB-385716	EFXE-385716SB	16,7	33,4	41,8	58,5	66,8	75,2
SB-505016	EFXE-505016SB	17,9	35,8	44,8	62,7	71,7	80,7
SB-383827	EFXE-383827SB	17,5	35,1	43,9	61,4	70,2	79,0
SB-575716	EFXE-575716SB	20,7	41,5	51,9	72,7	83,1	93,5
SB-577620	EFXE-577620SB	26,9	53,9	67,4	94,4	107,9	121,3
SB-575730	EFXE-575730SB	27,9	55,8	69,7	97,7	111,6	125,6
SB-769520	EFXE-769520SB	36,1	72,2	90,2	126,3	144,4	162,4
SB-1258040	EFXE-1258040SB	36,1	72,2	90,2	126,3	144,4	162,4

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Enclosure types (Stainless steel)		Maximum power dissipation (W) – Tamb. up to **95**°C	
		INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
SB-101210	EFXE-101210SB	1,3	2,7
SB-151510	EFXE-151510SB	2,0	4,0
SB-142013	EFXE-142013SB	2,6	5,2
SB-202010	EFXE-202010SB	2,6	5,3
SB-202016	EFXE-202016SB	3,4	6,9
SB-202713	EFXE-202713SB	3,6	7,2
SB-272713	EFXE-272713SB	4,1	8,3
SB-203016	EFXE-203016SB	4,2	8,5
SB-273513	EFXE-273513SB	4,8	9,6
SB-282816	EFXE-282816SB	4,8	9,6
SB-204016	EFXE-204016SB	5,0	10,1
SB-353516	EFXE-353516SB	6,1	12,2
SB-282827	EFXE-282827SB	6,5	13,1
SB-355016	EFXE-355016SB	7,4	14,8
SB-383816	EFXE-383816SB	6,6	13,3
SB-384516	EFXE-384516SB	7,2	14,5
SB-385716	EFXE-385716SB	8,3	16,7
SB-505016	EFXE-505016SB	8,9	17,9
SB-383827	EFXE-383827SB	8,7	17,5
SB-575716	EFXE-575716SB	10,3	20,7
SB-577620	EFXE-577620SB	13,4	26,9
SB-575730	EFXE-575730SB	13,9	27,9
SB-769520	EFXE-769520SB	18,0	36,1
SB-1258040	EFXE-1258040SB	18,0	36,1

Power dissipation – Stainless steel enclosures ST series

Enclosure types (Stainless steel)		Maximum power dissipation (W) – Tamb. up to **40**°C						
		INTERNAL TEMP.60°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
ST-101210	EFXE-101210ST	5,5	8,3	11,1	12,5	15,3	16,7	18,1
ST-151510	EFXE-151510ST	8,0	12,0	16,0	18,0	22,0	24,0	26,1
ST-142013	EFXE-142013ST	10,4	15,7	20,9	23,5	28,8	31,4	34,0
ST-202010	EFXE-202010ST	10,7	16,1	21,4	24,1	29,5	32,2	34,8
ST-202016	EFXE-202016ST	13,9	20,8	27,8	31,3	38,3	41,7	45,2
ST-202713	EFXE-202713ST	14,4	21,6	28,9	32,5	39,7	43,3	46,9
ST-272713	EFXE-272713ST	16,7	25,1	33,5	37,7	46,0	50,2	54,4
ST-203016	EFXE-203016ST	17,1	25,7	34,3	38,6	47,2	51,4	55,7
ST-273513	EFXE-273513ST	19,2	28,9	38,5	43,3	53,0	57,8	62,6
ST-282816	EFXE-282816ST	19,3	29,0	38,7	43,6	53,3	58,1	63,0
ST-204016	EFXE-204016ST	20,2	30,3	40,4	45,5	55,6	60,6	65,7
ST-353516	EFXE-353516ST	24,4	36,6	48,8	54,9	67,1	73,2	79,3
ST-282827	EFXE-282827ST	26,2	39,3	52,5	59,0	72,2	78,7	85,3
ST-355016	EFXE-355016ST	29,7	44,5	59,4	66,8	81,7	89,1	96,6
ST-383816	EFXE-383816ST	26,6	39,9	53,2	59,8	73,1	79,8	86,5
ST-384516	EFXE-384516ST	29,1	43,7	58,3	65,6	80,2	87,5	94,8
ST-385716	EFXE-385716ST	33,4	50,1	66,8	75,2	91,9	100,3	108,7
ST-505016	EFXE-505016ST	35,8	53,8	71,7	80,7	98,6	107,6	116,6
ST-383827	EFXE-383827ST	35,1	52,7	70,2	79,0	96,6	105,4	114,2
ST-575716	EFXE-575716ST	41,5	62,3	83,1	93,5	114,3	124,7	135,1
ST-577620	EFXE-577620ST	53,9	80,9	107,9	121,3	148,3	161,8	175,3
ST-575730	EFXE-575730ST	55,8	83,7	111,6	125,6	153,5	167,5	181,4
ST-769520	EFXE-769520ST	72,2	108,3	144,4	162,4	198,5	216,6	234,6
ST-1258040	EFXE-1258040ST	72,2	108,3	144,4	162,4	198,5	216,6	234,6

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Enclosure types (Stainless steel)		Maximum power dissipation (W) – Tamb. up to **50**°C						
		INTERNAL TEMP.60°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
ST-101210	EFXE-101210ST	2,7	5,5	8,3	9,7	12,5	13,9	15,3
ST-151510	EFXE-151510ST	4,0	8,0	12,0	14,0	18,0	20,0	22,0
ST-142013	EFXE-142013ST	5,2	10,4	15,7	18,3	23,5	26,2	28,8
ST-202010	EFXE-202010ST	5,3	10,7	16,1	18,7	24,1	26,8	29,5
ST-202016	EFXE-202016ST	6,9	13,9	20,8	24,3	31,3	34,8	38,3
ST-202713	EFXE-202713ST	7,2	14,4	21,6	25,2	32,5	36,1	39,7
ST-272713	EFXE-272713ST	8,3	16,7	25,1	29,3	37,7	41,8	46,0
ST-203016	EFXE-203016ST	8,5	17,1	25,7	30,0	38,6	42,9	47,2
ST-273513	EFXE-273513ST	9,6	19,2	28,9	33,7	43,3	48,2	53,0
ST-282816	EFXE-282816ST	9,6	19,3	29,0	33,9	43,6	48,4	53,3
ST-204016	EFXE-204016ST	10,1	20,2	30,3	35,4	45,5	50,5	55,6
ST-353516	EFXE-353516ST	12,2	24,4	36,6	42,7	54,9	61,0	67,1
ST-282827	EFXE-282827ST	13,1	26,2	39,3	45,9	59,0	65,6	72,2
ST-355016	EFXE-355016ST	14,8	29,7	44,5	52,0	66,8	74,3	81,7
ST-383816	EFXE-383816ST	13,3	26,6	39,9	46,5	59,8	66,5	73,1
ST-384516	EFXE-384516ST	14,5	29,1	43,7	51,0	65,6	72,9	80,2
ST-385716	EFXE-385716ST	16,7	33,4	50,1	58,5	75,2	83,6	91,9
ST-505016	EFXE-505016ST	17,9	35,8	53,8	62,7	80,7	89,7	98,6
ST-383827	EFXE-383827ST	17,5	35,1	52,7	61,4	79,0	87,8	96,6
ST-575716	EFXE-575716ST	20,7	41,5	62,3	72,7	93,5	103,9	114,3
ST-577620	EFXE-577620ST	26,9	53,9	80,9	94,4	121,3	134,8	148,3
ST-575730	EFXE-575730ST	27,9	55,8	83,7	97,7	125,6	139,5	153,5
ST-769520	EFXE-769520ST	36,1	72,2	108,3	126,3	162,4	180,5	198,5
ST-1258040	EFXE-1258040ST	36,1	72,2	108,3	126,3	162,4	180,5	198,5

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Enclosure types (Stainless steel)		Maximum power dissipation (W) – Tamb. up to **55**°C						
		INTERNAL TEMP.65°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
ST-101210	EFXE-101210ST	2,7	4,1	6,9	8,3	11,1	12,5	13,9
ST-151510	EFXE-151510ST	4,0	6,0	10,0	12,0	16,0	18,0	20,0
ST-142013	EFXE-142013ST	5,2	7,8	13,1	15,7	20,9	23,5	26,2
ST-202010	EFXE-202010ST	5,3	8,0	13,4	16,1	21,4	24,1	26,8
ST-202016	EFXE-202016ST	6,9	10,4	17,4	20,8	27,8	31,3	34,8
ST-202713	EFXE-202713ST	7,2	10,8	18,0	21,6	28,9	32,5	36,1
ST-272713	EFXE-272713ST	8,3	12,5	20,9	25,1	33,5	37,7	41,8
ST-203016	EFXE-203016ST	8,5	12,8	21,4	25,7	34,3	38,6	42,9
ST-273513	EFXE-273513ST	9,6	14,4	24,1	28,9	38,5	43,3	48,2
ST-282816	EFXE-282816ST	9,6	14,5	24,2	29,0	38,7	43,6	48,4
ST-204016	EFXE-204016ST	10,1	15,1	25,2	30,3	40,4	45,5	50,5
ST-353516	EFXE-353516ST	12,2	18,3	30,5	36,6	48,8	54,9	61,0
ST-282827	EFXE-282827ST	13,1	19,6	32,8	39,3	52,5	59,0	65,6
ST-355016	EFXE-355016ST	14,8	22,2	37,1	44,5	59,4	66,8	74,3
ST-383816	EFXE-383816ST	13,3	19,9	33,2	39,9	53,2	59,8	66,5
ST-384516	EFXE-384516ST	14,5	21,8	36,4	43,7	58,3	65,6	72,9
ST-385716	EFXE-385716ST	16,7	25,0	41,8	50,1	66,8	75,2	83,6
ST-505016	EFXE-505016ST	17,9	26,9	44,8	53,8	71,7	80,7	89,7
ST-383827	EFXE-383827ST	17,5	26,3	43,9	52,7	70,2	79,0	87,8
ST-575716	EFXE-575716ST	20,7	31,1	51,9	62,3	83,1	93,5	103,9
ST-577620	EFXE-577620ST	26,9	40,4	67,4	80,9	107,9	121,3	134,8
ST-575730	EFXE-575730ST	27,9	41,8	69,7	83,7	111,6	125,6	139,5
ST-769520	EFXE-769520ST	36,1	54,1	90,2	108,3	144,4	162,4	180,5
ST-1258040	EFXE-1258040ST	36,1	54,1	90,2	108,3	144,4	162,4	180,5

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Enclosure types (Stainless steel)		Maximum power dissipation (W) – Tamb. up to **60**°C					
		INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
ST-101210	EFXE-101210ST	2,7	5,5	6,9	9,7	11,1	12,5
ST-151510	EFXE-151510ST	4,0	8,0	10,0	14,0	16,0	18,0
ST-142013	EFXE-142013ST	5,2	10,4	13,1	18,3	20,9	23,5
ST-202010	EFXE-202010ST	5,3	10,7	13,4	18,7	21,4	24,1
ST-202016	EFXE-202016ST	6,9	13,9	17,4	24,3	27,8	31,3
ST-202713	EFXE-202713ST	7,2	14,4	18,0	25,2	28,9	32,5
ST-272713	EFXE-272713ST	8,3	16,7	20,9	29,3	33,5	37,7
ST-203016	EFXE-203016ST	8,5	17,1	21,4	30,0	34,3	38,6
ST-273513	EFXE-273513ST	9,6	19,2	24,1	33,7	38,5	43,3
ST-282816	EFXE-282816ST	9,6	19,3	24,2	33,9	38,7	43,6
ST-204016	EFXE-204016ST	10,1	20,2	25,2	35,4	40,4	45,5
ST-353516	EFXE-353516ST	12,2	24,4	30,5	42,7	48,8	54,9
ST-282827	EFXE-282827ST	13,1	26,2	32,8	45,9	52,5	59,0
ST-355016	EFXE-355016ST	14,8	29,7	37,1	52,0	59,4	66,8
ST-383816	EFXE-383816ST	13,3	26,6	33,2	46,5	53,2	59,8
ST-384516	EFXE-384516ST	14,5	29,1	36,4	51,0	58,3	65,6
ST-385716	EFXE-385716ST	16,7	33,4	41,8	58,5	66,8	75,2
ST-505016	EFXE-505016ST	17,9	35,8	44,8	62,7	71,7	80,7
ST-383827	EFXE-383827ST	17,5	35,1	43,9	61,4	70,2	79,0
ST-575716	EFXE-575716ST	20,7	41,5	51,9	72,7	83,1	93,5
ST-577620	EFXE-577620ST	26,9	53,9	67,4	94,4	107,9	121,3
ST-575730	EFXE-575730ST	27,9	55,8	69,7	97,7	111,6	125,6
ST-769520	EFXE-769520ST	36,1	72,2	90,2	126,3	144,4	162,4
ST-1258040	EFXE-1258040ST	36,1	72,2	90,2	126,3	144,4	162,4

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Enclosure types (Stainless steel)		Maximum power dissipation (W) – Tamb. up to **95**°C	
		INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
ST-101210	EFXE-101210ST	1,3	2,7
ST-151510	EFXE-151510ST	2,0	4,0
ST-142013	EFXE-142013ST	2,6	5,2
ST-202010	EFXE-202010ST	2,6	5,3
ST-202016	EFXE-202016ST	3,4	6,9
ST-202713	EFXE-202713ST	3,6	7,2
ST-272713	EFXE-272713ST	4,1	8,3
ST-203016	EFXE-203016ST	4,2	8,5
ST-273513	EFXE-273513ST	4,8	9,6
ST-282816	EFXE-282816ST	4,8	9,6
ST-204016	EFXE-204016ST	5,0	10,1
ST-353516	EFXE-353516ST	6,1	12,2
ST-282827	EFXE-282827ST	6,5	13,1
ST-355016	EFXE-355016ST	7,4	14,8
ST-383816	EFXE-383816ST	6,6	13,3
ST-384516	EFXE-384516ST	7,2	14,5
ST-385716	EFXE-385716ST	8,3	16,7
ST-505016	EFXE-505016ST	8,9	17,9
ST-383827	EFXE-383827ST	8,7	17,5
ST-575716	EFXE-575716ST	10,3	20,7
ST-577620	EFXE-577620ST	13,4	26,9
ST-575730	EFXE-575730ST	13,9	27,9
ST-769520	EFXE-769520ST	18,0	36,1
ST-1258040	EFXE-1258040ST	18,0	36,1

Maximum Power Dissipation calculation

The values specified in the tables as per clause 2.1.1 may be modified within the maximum admitted Tamb and maximum admitted internal temperature as follows.

$$Pdiss\ (W) = \frac{Tmax - Tamb}{Rth}$$

$Rth = A \times (\text{enclosure surface in } mm^2 \text{ except enclosure bottom})^B$

Legend:
Rth – Thermal resistance [K/W].
Tmax – Maximum allowed temperature inside enclosure.
Tamb – Ambient temperature of enclosure
A and B - coefficients determined for each series o enclosure. Exact values are given in manufacturer's documentation.

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[16] Confidential Report No. FIDI 21 CR 075

[16.1] Routine testing

Junction boxes, local control stations and local control panels fitted with wiring, shall be subject to a routine dielectric strength test according to the clause 7.1 of IEC 60079-7.

[17] Specific Conditions of Use

- Enclosures marked with warning label: "WARNING – POTENTIAL ELECTROSTATIC CHARGING HAZARD – SEE INSTRUCTIONS" must be cleaned only by damp cloth or antistatic products.
- Apparatus equipped with drain / venting valve Technor Italsmea model ECR3:
  - the valve cannot be open when an explosive dust atmosphere is present.
  - The valve can be open when an explosive gas atmosphere is present: when open, the equipment reaches the protection degree IP44.
  - When the valve is left in open position, it should be protected from light exposure.
- On the intrinsic safety terminals, the user must only connect devices with compatible intrinsic safety parameters according to EN 60079-14.

[18] Essential Health and Safety Requirements

Covered by the conformity with harmonized standards listed under item 9.

[19] Drawings and Documents

Title:	Drawing No.:	Rev. level:	Date:
Technical note	TN2111	0	17.11.2021
Instruction for use	TN2111 Annex A	0	08.11.2021
Apparatus list	TN2111 Annex B	0	17.11.2021
Drawings:			
Cable entries, plug, adaptors coupling systems	AC2111, sheet 1	0	10.11.2021
Example of operator arrangements for AQ-AR-EFE	AC2111, sheet 2	0	10.11.2021
Example of operator arrangements for SB-ST-EFEXE	AC2111, sheet 3	0	10.11.2021
Example terminals and earth bus bar	AC2111, sheet 4	0	10.11.2021
Drain / breath device type ECR3	AC2111, sheet 5	0	10.11.2021
Marking label SB..., ST..., AQ..., AR...	AC2111, sheet 6	0	10.11.2021
Marking label SB..., ST..., AQ..., AR...	AC2111, sheet 7	0	10.11.2021

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[1] **SUPPLEMENTARY EU – TYPE EXAMINATION CERTIFICATE**

[2] Equipment or Protective Systems Intended for use in Potentially Explosive Atmospheres Directive 2014/34/EU.

[3] Supplementary EU-Type Examination Certificate Number: **FIDI 21 ATEX 0090X/1**

[4] Product: **Junction boxes, local control stations and local control panels**

Type: **AQ-***P / AQ-***AL / AR-***P / AR-***AL**
AQ-*P-HT / AQ-***AL-HT / AR-***P-HT / AR-***AL-HT**
SB-* / ST-***
EFE-* / EFXE-*** AL/ EFXE-***SB / EFXE-***ST**
EFE-*-HT / EFXE-***AL-HT**

[5] Manufacturer: **Technor Italsmea S.p.A.**

[6] Address: **Via Italia 33, 20060 Gessate (MI), Italy**

[7] This supplementary certificate extends EU – Type Examination Certificate to apply to product designed and constructed in accordance with the specification set out in the Schedule of the said certificate but having any variations specified in the Schedule to this certificate and the documents therein referred to.

[8] FIDITAS Ltd., Notified Body number 2829 in accordance with Article 17 of Directive 2014/34/EU of the European Parliament and of the Council, dated 26 February 2014, certifies that this product has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of products intended for use in potentially explosive atmospheres given in Annex II of the Directive.

[9] The examination and test results are recorded in confidential Report No: **FIDI 23 CR 019**

[10] The marking of the product shall include the following:

II 1 G	**Ex ia IIC/IIB T6...T4 Ga**(2) or
II 2(1) G or **II 2(2) G**	**Ex db eb ia/ib mb [**(3)**] IIC/IIB T6...T4 Gb**(1) or
II 2 G	**Ex eb IIC/IIB T6...T4 Gb**(1) or
II 2 D	**Ex tb IIIC T85°C...T135°C Db**

(1) Others type of protection additional to 'eb' depending to the components actually mounted.

(2) In case of enclosures containing 'eb' terminals and/or 'ia Ga' already certified components (with compatible marking) only.

(3) Associated equipment protection depending on the components actually mounted (see lists): e.g. [ia/ib/ia Ga/ia IIIC Da] and/or [ia IIIC Da] or [ia/ib/ia Ga/ia IIIC Da] and/or [ia/ib/ia Ga] [ia IIIC Da]

FIDITAS Ltd.
Certification department
Approved:

Marino Kelava, M.E.Eng.

Our ref.: 23.CRT.071

Date: 19.04.2023

Fiditas d.o.o. ZAGREB

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[11] **SCHEDULE**

[12] **SUPPLEMENTARY EU - TYPE EXAMINATION CERTIFICATE No.: FIDI 21 ATEX 0090X /1**

[13] Description of the variation to the Product

New Ex products added:

- Surge voltage protection unit type: PLUGTRAB PT2 or PT4 – PHOENIX CONTACT; II 1G> Ex ia IIC T4...T6 Ga; KEMA 00 ATEX 1099X;
- SITRANS TH230/420, type: 7NG0317, 0310; 0410 TR320/TR420 7NG0327; 7NG0320; TYPE 7NG0420; Siemens AG; II 1G Ex ia IIC T6...T4 Ga; II 2(1)G Ex ib [ia Ga] IIC T6...T4 Gb; DEKRA 17 ATEX 0116X
- Enhanced Model 644 Temperature Transmitter, ROSEMOUNT INCORPORATED, II 1G Ex ia IIC T6...T4 Ga; DEKRA 21ATEX0003X,
- Temperature Transmitter type: 5434D; 5431D; 6431D; 5435D; 5437D; 5437D; 5437B; 6437D, II 1G Ex ia IIC T6...T4 Ga; II 2(1)G Ex ib [ia Ga] IIC T6...T4 Gb; DEKRA 16 ATEX 0047X,
- Controls Units and / or Junction Boxes Type: GUB..., TECHNOR ITALSMEA; II 2G Ex db (*) IIC T(*) Gb; INERIS 22 ATEX 0008X
- Cable Transit Device type: CF 8 Ex, CF 32 Ex, CF 16 Ex, C RS T...Ex, RS..B Ex, SF...Ex, SFX...B Ex, B...B Ex, R...B Ex and RO...B; ROXTEC INTERNATIONAL AB, II 2G Ex e IIC Gb, II 2D Ex tb IIC Db; NEMKO 12 ATEX 1278X
- Cable Transit Device type: HD 16 Ex, HD 24 Ex, HD 32 Ex and HDLC Ex, ROXTEC INTERNATIONAL AB, II 2G Ex eb IIC Gb, II 2D Ex tb IIIC Db, PRESAFE 15 ATEX 6419X
- Control stations and junction boxes type: CP..., TECHNOR ITALSMEA, II 2G Ex db IIC T6 or T5 or T4 Gb or II 2(1)G Ex db [ia Ga] IIC T6 Gb(***) or II 2(2)G Ex db [ib] IIC T6 Gb (***); INERIS 03 ATEX 0009X
- Industrial plug and socket type: DXN1, MARECHAL ELECTRIC, II 2G Ex db eb IIC T5 or T6; II 2D Ex tb IIIC T90°C/T70°C; LCIE 99 ATEX6027X
- Industrial plug and socket type: DXN3, MARECHAL ELECTRIC; II 2G Ex db eb IIC T5 or T6; II 2D Ex tb IIIC T90°C/T70°C; LCIE 05 ATEX 6149X
- Industrial plug and socket type: DXN6, MARECHAL ELECTRIC, II 2G Ex db eb IIC T5 or T6; II 2D Ex tb IIIC T90°C/T70°C; LCIE 05 ATEX 6150X
- Industrial plug and socket type: PXN12C, MARECHAL ELECTRIC, II 2G Ex eb IIC T*; II 2G Ex ia or ib IIC T*; II 2D Ex tb IIIC T* Db; LCIE 07 ATEX 6070X
- Industrial plug and socket type: DXN25C, MARECHAL ELECTRIC; II 2G Ex eb IIC T*; II 2G Ex ia or ib IIC T6; II2D Ex tb IIIC T*; LCIE 09ATEX3050X
- Industrial plug and socket type: DXN37C, MARECHAL ELECTRIC; II 2G Ex eb IIC T*; II 2G Ex ia or ib IIC T6; II2D Ex tb IIIC T*; LCIE 07ATEX6071X
- Industrial plug and socket type: SPeX, MARECHAL ELECTRIC, II 2G Ex eb IIC T*; II2D Ex tb IIIC T* Db; LCIE 07ATEX6073X
- Industrial plug and socket type: DXA1, MARECHAL ELECTRIC, II 2G Ex db eb IIC T* Gb; II 2D Ex tb IIC T*°C Db; LCIE 15ATEX 3033X
- Industrial plug and socket type: PNCX, MARECHAL ELECTRIC, II 2G Ex IIC T6 Gb; II 2D Ex tb IIIC T72°C Db; LCIE 16ATEX3001X
- Terminal type: WDU 240, WEIDMULLER, II 2G Ex eb IIC Gb; KEMA 01 ATEX 2186U.

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[14] Confidential Report No. FIDI 23 CR 019

[14.1] Routine testing

No change to specified in the initial certificate.

[15] Specific Conditions of Use

Addditional to those specified the initial certificate:

- Manufacturer must obey relevant specific condition of use of Ex equipment and/or schedule of limitation of Ex components installed in/on the product and forward to the end user if relevant for the installation and use.

[16] Essential Health and Safety Requirements

Compliance with the Essential Health and Safety Requirements is not affected by this variation.

[17] Drawings and Documents

Title:	Drawing No.:	Rev. level:	Date:
Technical note	TN2111	1	20.01.2023
Instruction for use	TN2111 Annex A	1	20.01.2023
Apparatus list	TN2111 Annex B	1	20.01.2023

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IECEx Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION
IEC Certification System for Explosive Atmospheres

for rules and details of the IECEx Scheme visit www.iecex.com

Certificate No.:	**IECEx FIDI 21.0015X**	Page 1 of 4	Certificate history: Issue 0 (2022-02-18)
Status:	**Current**	Issue No: 1	
Date of Issue:	2023-05-04		

Applicant: **Technor Italsmea S.p.A.**
Via Italia 33
20060 Gessate (MI)
Italy

Equipment: **Junction boxes, local control stations and local control panels**

Optional accessory: Model reference: AQ-***P / AQ-***AL / AR-***P / AR-***AL / AQ-***P-HT / AQ-***AL-HT / AR-***P-HT / AR-***AL-HT / SB-*** / ST-*** / EFE-*** / EFXE-*** AL/ EFXE-***SB / EFXE-***ST / EFE-***-HT / EFXE-***AL-HT

Type of Protection: **Flameproof enclosure 'db'; Intrinsic safety 'ia/ib'; Increased safety 'eb'; Encapsulation 'mb', Protection by enclosure 'tb'**

Marking: **Ex ia IIC/IIB T6...T4 Ga**(2) or

Ex db eb ia/ib mb [(3)] IIC/IIB T6...T4 Gb(1) or

Ex eb IIC/IIB T6...T4 Gb(1) or

Ex tb IIIC T85°C...T135°C Db

(1) Others type of protection additional to Ex e/eb depending to the components actually mounted.

(2) In case of enclosures containing Ex e/Ex eb terminals and/or Ex ia Ga already certified components (with compatible marking) only.

(3) Associated equipment protection depending on the components actually mounted (see lists): e.g. [ia/ib/ia Ga/ia IIIC Da] and/or [ia IIIC Da] or [ia/ib/ia Ga/ia IIIC Da] and/or [ia/ib/ia Ga] [ia IIIC Da]

Approved for issue on behalf of the IECEx Certification Body: **Marino Kelava**

Position: **Certification Signatory**

Signature:
(for printed version)

Date:
(for printed version)

1. This certificate and schedule may only be reproduced in full.
2. This certificate is not transferable and remains the property of the issuing body.
3. The Status and authenticity of this certificate may be verified by visiting www.iecex.com or use of this QR Code.

Certificate issued by:

Fiditas Ltd
Slavka Tomerlina 44
HR-10361 Zagreb-Sesvete
Croatia

Fiditas
explosion safety solutions

IECEx Certificate of Conformity

Certificate No.: **IECEx FIDI 21.0015X**

Date of issue: 2023-05-04 Issue No: 1

Manufacturer: **Technor Italsmea S.p.A.**
Via Italia 33
20060 Gessate (MI)
Italy

Manufacturing locations:

This certificate is issued as verification that a sample(s), representative of production, was assessed and tested and found to comply with the IEC Standard list below and that the manufacturer's quality system, relating to the Ex products covered by this certificate, was assessed and found to comply with the IECEx Quality system requirements.This certificate is granted subject to the conditions as set out in IECEx Scheme Rules, IECEx 02 and Operational Documents as amended

STANDARDS :
The equipment and any acceptable variations to it specified in the schedule of this certificate and the identified documents, was found to comply with the following standards

IEC 60079-0:2017 Explosive atmospheres - Part 0: Equipment - General requirements
Edition:7.0

IEC 60079-1:2014-06 Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"
Edition:7.0

IEC 60079-11:2011 Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"
Edition:6.0

IEC 60079-18:2017 Explosive atmospheres - Part 18: Protection by encapsulation "m"
Edition:4.1

IEC 60079-31:2013 Explosive atmospheres - Part 31: Equipment dust ignition protection by enclosure "t"
Edition:2

IEC 60079-7:2017 Explosive atmospheres - Part 7: Equipment protection by increased safety "e"
Edition:5.1

This Certificate **does not** indicate compliance with safety and performance requirements other than those expressly included in the Standards listed above.

TEST & ASSESSMENT REPORTS:
A sample(s) of the equipment listed has successfully met the examination and test requirements as recorded in:

Test Reports:

HR/FIDI/ExTR21.0016/00 HR/FIDI/ExTR21.0016/01

Quality Assessment Report:

FR/INE/QAR08.0002/15

IECEx Certificate of Conformity

EQUIPMENT:
Equipment and systems covered by this Certificate are as follows:

Junction boxes, local control stations and local control panels series AQ-…..; AR-…..; SB…..; EFE-…..; EFXE-….. use certified enclosures of various sizes, manufactured by Technor Italsmea S.p.A., type: AQ-.... ; AR-....; SB-...; ST- …, certificate IECEx FIDI 21.0012U.

Enclosures coded …-HT are made in glass fiber reinforced polyester resin or in aluminum, and covered by IECEx component certificates: IECEx PTB 08.0003U, enclosure type: 26.****** and IECEx PTB 08.0003U, enclosure type: 25.******.

Enclosures may be equipped with certified Ex equipment or Ex components and Ex terminals listed in manufacturer's documentation. Certified Ex equipment or Ex components and Ex terminals must be used according to data available in related component or equipment certificates, in particular relevant temperature range, voltage and current limitations. The cable glands or plugs, with separate IECEx certificate, made in type of protection ‘eb’ and/or ‘tb’ with appropriate IP protection are mounted according to related manufacturer’s installation instructions. Each enclosure is provided with internal earthing certified terminal or earthing screw or bolt. Metal enclosures are provided by external earthing screw or bolt. Metal and polyester enclosures can be provided by passing through earthing terminals.

All enclosures can be provided by:
- Externally installed accessories as specified in manufacturer documents,
- Drain breath device type ECR3, included in this certificate,
- Internal/external earthing plate.

For other description see Annex.

SPECIFIC CONDITIONS OF USE: YES as shown below:

- Enclosures marked with warning label: “WARNING – POTENTIAL ELECTROSTATIC CHARGING HAZARD – SEE INSTRUCTIONS” must be cleaned only by damp cloth or antistatic products.
- Apparatus equipped with drain / venting valve Technor Italsmea model ECR3:
  - the valve cannot be open when an explosive dust atmosphere is present.
  - The valve can be open when an explosive gas atmosphere is present: when open, the equipment reaches the protection degree IP44.
  - When the valve is left in open position, it should be protected from light exposure.
- On the intrinsic safety terminals, the user must only connect devices with compatible intrinsic safety parameters according to IEC 60079-14.

IECEx Certificate of Conformity

DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)
New IECEx certified Ex products added in the Apparatus list according to list given in HR/FIDI/ ExTR 21.0016/01.

Annex:

IECEx FIDI 21.0015X Technor Equipment Annex1 issue1.pdf

Technical description (continued from original certificate)

Model identification

Junction boxes

A(1)-(2) (3) (4) (5) (6)	(1) –	**Q**: Square size **R**: Rectangular size
	(2) (3) (4)	dimension, in cm
	(5)	Material **P**: Glass fiber reinforced polyester resin **AL**: Aluminium Alloy
	(6)	None: up to internal temperature of 105°C **HT**: up to internal temperature of 130°C
SB- (2) (3) (4)	(2) (3) (4)	dimension, in cm
ST- (2) (3) (4)	(2) (3) (4)	dimension, in cm

Panel boards

EFE- (2) (3) (4) (6)	(2) (3) (4)	dimension, in cm
	(6)	None: up to internal temperature of 105°C **HT**: up to internal temperature of 130°C
EFXE- (2) (3) (4) (5) (6)	(2) (3) (4)	dimension, in cm
	(5)	Material **SB** or **ST**: stainless steel **AL**: Aluminium Alloy
	(6)	None: up to internal temperature of 105°C **HT**: up to internal temperature of 130°C

Technical data:

Electrical data:	According to Ex component to actually installed
Ambient temperature:	-50°C to +95°C Other possible ranges are with: - min temperature: -50°C to -20 °C - max temperature of +40 °C to +95 °C
Mechanical protection:	IP55, IP66 or IP67 depending on model

Temperature class and/or maximum surface temperature of any junction box or control panel depend on ambient temperature and internal power dissipation. The values that must be observed are given in relevant tables in this certificate.

For commercial reasons model name listed in the tables below can be modified as follows: first (2) and second (3) pair of digits can be reversed.

Models sizes

Polyester High Temperature		Aluminium High Temperature	
AQ-080806P-HT	EFE-080806-HT	AQ-080806AL-HT	EFXE-080806AL-HT
AQ-080808P-HT	EFE-080808-HT	AR-081306AL-HT	EFXE-081306AL-HT
AR-081106P-HT	EFE-081106-HT	AR-081806AL-HT	EFXE-081806AL-HT
AR-081108P-HT	EFE-081108-HT	AR-082505AL-HT	EFXE-082505AL-HT
AR-081606P-HT	EFE-081606-HT	AQ-101008AL-HT	EFXE-101008AL-HT
AR-081608P-HT	EFE-081608-HT	AR-101608AL-HT	EFXE-101608AL-HT
AR-081906P-HT	EFE-081906-HT	AR-102008AL-HT	EFXE-102008AL-HT
AR-081908P-HT	EFE-081908-HT	AQ-121208AL-HT	EFXE-121208AL-HT
AR-082306P-HT	EFE-082306-HT	AQ-121209AL-HT	EFXE-121209AL-HT
AR-082308P-HT	EFE-082308-HT	AR-122208AL-HT	EFXE-122208AL-HT
AQ-121209P-HT	EFE-121209-HT	AR-122209AL-HT	EFXE-122209AL-HT
AR-122209P-HT	EFE-122209-HT	AR-123608AL-HT	EFXE-123608AL-HT
AQ-161609P-HT	EFE-161609-HT	AQ-141409AL-HT	EFXE-141409AL-HT
AR-162609P-HT	EFE-162609-HT	AR-142009AL-HT	EFXE-142009AL-HT
AR-163609P-HT	EFE-163609-HT	AQ-161609AL-HT	EFXE-161609AL-HT
AR-165609P-HT	EFE-165609-HT	AR-162609AL-HT	EFXE-162609AL-HT
AQ-202017P-HT	EFE-202017-HT	AR-163609AL-HT	EFXE-163609AL-HT
AR-203017P-HT	EFE-203017-HT	AR-165609AL-HT	EFXE-165609AL-HT
AQ-252612P-HT	EFE-252612-HT	AQ-181810AL-HT	EFXE-181810AL-HT
AQ-252616P-HT	EFE-252616-HT	AR-182810AL-HT	EFXE-182810AL-HT
AR-254012P-HT	EFE-254012-HT	AR-102311AL-HT	EFXE-102311AL-HT
AR-254016P-HT	EFE-254016-HT	AR-202311AL-HT	EFXE-202311AL-HT
AR-256012P-HT	EFE-256012-HT	AR-202318AL-HT	EFXE-202318AL-HT
AR-304020P-HT	EFE-304020-HT	AR-232811AL-HT	EFXE-232811AL-HT
AQ-363609P-HT	EFE-363609-HT	AR-233311AL-HT	EFXE-233311AL-HT
AR-406025P-HT	EFE-406025-HT	AR-233318AL-HT	EFXE-233318AL-HT
AQ-414012P-HT	EFE-414012-HT	AR-234011AL-HT	EFXE-234011AL-HT
AQ-414020P-HT	EFE-414020-HT	AR-234023AL-HT	EFXE-234023AL-HT
		AR-236011AL-HT	EFXE-236011AL-HT
		AR-314011AL-HT	EFXE-314011AL-HT
		AR-314014AL-HT	EFXE-314014AL-HT
		AR-314018AL-HT	EFXE-314018AL-HT
		AR-314023AL-HT	EFXE-314023AL-HT
		AR-316011AL-HT	EFXE-316011AL-HT
		AR-316018AL-HT	EFXE-316018AL-HT
		AQ-606020AL-HT	EFXE-606020AL-HT

Polyester		Aluminium		Stainless steel	
AQ-080806P	EFE-080806	AQ-080806AL	EFXE-080806AL	SB-101210	EFXE-101210SB
AQ-080808P	EFE-080808	AR-081306AL	EFXE-081306AL	SB-151510	EFXE-151510SB
AR-081106P	EFE-081106	AR-081806AL	EFXE-081806AL	SB-142013	EFXE-142013SB
AR-081606P	EFE-081606	AR-081808AL	EFXE-081808AL	SB-202010	EFXE-202010SB
AR-081906P	EFE-081906	AR-082505AL	EFXE-082505AL	SB-202016	EFXE-202016SB
AQ-121209P	EFE-121209	AR-082508AL	EFXE-082508AL	SB-202713	EFXE-202713SB
AR-122209P	EFE-122209	AQ-101008AL	EFXE-101008AL	SB-272713	EFXE-272713SB
AQ-161609P	EFE-161609	AR-101508AL	EFXE-101508AL	SB-203016	EFXE-203016SB
AR-162609P	EFE-162609	AR-101608AL	EFXE-101608AL	SB-273513	EFXE-273513SB
AR-163609P	EFE-163609	AR-102008AL	EFXE-102008AL	SB-282816	EFXE-282816SB
AQ-252612P	EFE-252612	AQ-121208AL	EFXE-121208AL	SB-204016	EFXE-204016SB
AQ-252616P	EFE-252616	AR-122209AL	EFXE-122209AL	SB-353516	EFXE-353516SB
AR-254012P	EFE-254012	AQ-141409AL	EFXE-141409AL	SB-282827	EFXE-282827SB
AR-254016P	EFE-254016	AR-142009AL	EFXE-142009AL	SB-355016	EFXE-355016SB
AR-256012P	EFE-256012	AQ-161609AL	EFXE-161609AL	SB-383816	EFXE-383816SB
AQ-414012P	EFE-414012	AR-162410AL	EFXE-162410AL	SB-384516	EFXE-384516SB
		AR-162609AL	EFXE-162609AL	SB-385716	EFXE-385716SB
		AQ-181810AL	EFXE-181810AL	SB-505016	EFXE-505016SB
		AR-182810AL	EFXE-182810AL	SB-383827	EFXE-383827SB
		AR-202311AL	EFXE-202311AL	SB-575716	EFXE-575716SB
		AR-202318AL	EFXE-202318AL	SB-577620	EFXE-577620SB
		AR-232811AL	EFXE-232811AL	SB-575730	EFXE-575730SB
		AR-233312AL	EFXE-233312AL	SB-769520	EFXE-769520SB
		AR-233318AL	EFXE-233318AL	SB-1258040	EFXE-1258040SB

Enclosure types (Stainless steel)	
ST-101210	EFXE-101210ST
ST-151510	EFXE-151510ST
ST-142013	EFXE-142013ST
ST-202010	EFXE-202010ST
ST-202016	EFXE-202016ST
ST-202713	EFXE-202713ST
ST-272713	EFXE-272713ST
ST-203016	EFXE-203016ST
ST-273513	EFXE-273513ST
ST-282816	EFXE-282816ST
ST-204016	EFXE-204016ST
ST-353516	EFXE-353516ST
ST-282827	EFXE-282827ST
ST-355016	EFXE-355016ST
ST-383816	EFXE-383816ST
ST-384516	EFXE-384516ST
ST-385716	EFXE-385716ST
ST-505016	EFXE-505016ST
ST-383827	EFXE-383827ST
ST-575716	EFXE-575716ST
ST-577620	EFXE-577620ST
ST-575730	EFXE-575730ST
ST-769520	EFXE-769520ST
ST-1258040	EFXE-1258040ST

Note 2 For stainless steel enclosures: dimensions (2) and (3) can be decreased or increased up to 20%, dimensions (4) can be increased up to 500 mm. Model name changes consequently.

Power dissipation – HT glass fiber reinforced polyester resin enclosures

Enclosure types (polyester)		Maximum power dissipation (W) – Tamb. up to **40**°C							
		INTERNAL TEMP.60°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)	INTERNAL TEMP.127°C (T4/T135°C)
AQ-080806P-HT	EFE-080806-HT	3,5	5,2	7,0	7,8	9,6	10,4	11,3	15,2
AQ-080808P-HT	EFE-080808-HT	4,6	6,8	9,1	10,2	12,5	13,7	14,8	19,8
AR-081106P-HT	EFE-081106-HT	4,3	6,4	8,5	9,6	11,8	12,8	13,9	18,6
AR-081108P-HT	EFE-081108-HT	5,6	8,4	11,2	12,6	15,3	16,7	18,1	24,2
AR-081606P-HT	EFE-081606-HT	5,8	8,7	11,6	13,0	15,9	17,4	18,8	25.2
AR-081608P-HT	EFE-081608-HT	6,8	10,2	13,7	15,4	18,8	20,5	22,2	29,7
AR-081906P-HT	EFE-081906-HT	6,4	9,6	12,8	14,4	17,6	19,2	20,8	27,8
AR-081908P-HT	EFE-081908-HT	7,5	11,3	15,1	17,0	20,7	22,6	24,5	32,7
AR-082306P-HT	EFE-082306-HT	7,2	10,8	14,4	16,2	19,8	21,6	23,4	31,3
AR-082308P-HT	EFE-082308-HT	8,5	12,7	16,9	19,0	23,3	25,4	27,5	36,7
AQ-121209P-HT	EFE-121209-HT	8,0	12,0	15,9	17,9	21,9	23,9	25,9	34,7
AR-122209P-HT	EFE-122209-HT	10,8	16,2	21,6	24,3	29,7	32,4	35,1	47,0
AQ-161609P-HT	EFE-161609-HT	10,4	15,6	20,8	23,4	28,6	31,2	33,8	45,2
AR-162609P-HT	EFE-162609-HT	13,4	20,1	26,8	30,2	36,9	40,2	43,6	58,3
AR-163609P-HT	EFE-163609-HT	16,2	24,3	32,4	36,5	44,6	48,6	52,7	70,5
AR-165609P-HT	EFE-165609-HT	21,4	32,0	42,7	48,1	58,7	64,1	69,4	92,9
AQ-202017P-HT	EFE-202017-HT	18,0	26,9	35,9	40,4	49,4	53,9	58,4	78,1
AR-203017P-HT	EFE-203017-HT	20,9	31,3	41,7	47,0	57,4	62,6	67,8	90,8
AQ-252612P-HT	EFE-252612-HT	18,8	28,2	37,6	42,4	51,8	56,5	61,2	81,9
AQ-252616P-HT	EFE-252616-HT	20,8	31,1	41,5	46,7	57,1	62,3	67,5	90,3
AR-254012P-HT	EFE-254012-HT	22,8	34,2	45,7	51,4	62,8	68,5	74,2	99,3
AR-254016P-HT	EFE-254016-HT	26,2	39,3	52,4	58,9	72,0	78,6	85,1	113,9
AR-256012P-HT	EFE-256012-HT	29,0	43,6	58,1	65,3	79,9	87,1	94,4	126,3
AR-304020P-HT	EFE-304020-HT	32,3	48,5	64,7	72,7	88,9	97,0	105,1	140,7
AQ-363609P-HT	EFE-363609-HT	23,0	34,6	46,1	51,8	63,4	69,1	74,9	100,2
AR-406025P-HT	EFE-406025-HT	50,3	75,5	100,7	113,3	138,4	151,0	163,6	218,9
AQ-414012P-HT	EFE-414012-HT	29,1	43,7	58,2	65,5	80,1	87,3	94,6	126,6
AQ-414020P-HT	EFE-414020-HT	36,6	55,0	73,3	82,4	100,8	109,9	119,1	159,4

Enclosure types (polyester)		Maximum power dissipation (W) – Tamb. up to **50**°C							
		INTERNAL TEMP.60°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)	INTERNAL TEMP.127°C (T4/T135°C)
AQ-080806P-HT	EFE-080806-HT	1,7	3,5	5,2	6,1	7,8	8,7	9,6	13,4
AQ-080808P-HT	EFE-080808-HT	2,3	4,6	6,8	8,0	10,2	11,4	12,5	17,5
AR-081106P-HT	EFE-081106-HT	2,1	4,3	6,4	7,5	9,6	10,7	11,8	16,5
AR-081108P-HT	EFE-081108-HT	2,8	5,6	8,4	9,8	12,6	13,9	15,3	21.5
AR-081606P-HT	EFE-081606-HT	2,9	5,8	8,7	10,1	13,0	14,5	15,9	22,3
AR-081608P-HT	EFE-081608-HT	3,4	6,8	10,2	11,9	15,4	17,1	18,8	26,3
AR-081906P-HT	EFE-081906-HT	3,2	6,4	9,6	11,2	14,4	16,0	17,6	24,6
AR-081908P-HT	EFE-081908-HT	3,8	7,5	11,3	13,2	17,0	18,8	20,7	29,0
AR-082306P-HT	EFE-082306-HT	3,6	7,2	10,8	12,6	16,2	18,0	19,8	27,7
AR-082308P-HT	EFE-082308-HT	4,2	8,5	12,7	14,8	19,0	21,1	23,3	32,5
AQ-121209P-HT	EFE-121209-HT	4,0	8,0	12,0	14,0	17,9	19,9	21,9	30,7
AR-122209P-HT	EFE-122209-HT	5,4	10,8	16,2	18,9	24,3	27,0	29,7	41,6
AQ-161609P-HT	EFE-161609-HT	5,2	10,4	15,6	18,2	23,4	26,0	28,6	40,0
AR-162609P-HT	EFE-162609-HT	6,7	13,4	20,1	23,5	30,2	33,5	36,9	51,6
AR-163609P-HT	EFE-163609-HT	8,1	16,2	24,3	28,4	36,5	40,5	44,6	62,3
AR-165609P-HT	EFE-165609-HT	10,7	21,4	32,0	37,4	48,1	53,4	58,7	82,2
AQ-202017P-HT	EFE-202017-HT	9,0	18,0	26,9	31,4	40,4	44,9	49,4	69,1
AR-203017P-HT	EFE-203017-HT	10,4	20,9	31,3	36,5	47,0	52,2	57,4	80,4
AQ-252612P-HT	EFE-252612-HT	9,4	18,8	28,2	32,9	42,4	47,1	51,8	72,5
AQ-252616P-HT	EFE-252616-HT	10,4	20,8	31,1	36,3	46,7	51,9	57,1	79,9
AR-254012P-HT	EFE-254012-HT	11,4	22,8	34,2	39,9	51,4	57,1	62,8	87,9
AR-254016P-HT	EFE-254016-HT	13,1	26,2	39,3	45,8	58,9	65,5	72,0	100,8
AR-256012P-HT	EFE-256012-HT	14,5	29,0	43,6	50,8	65,3	72,6	79,9	111,8
AR-304020P-HT	EFE-304020-HT	16,2	32,3	48,5	56,6	72,7	80,8	88,9	124,4
AQ-363609P-HT	EFE-363609-HT	11,5	23,0	34,6	40,3	51,8	57,6	63,4	88,7
AR-406025P-HT	EFE-406025-HT	25,2	50,3	75,5	88,1	113,3	125,8	138,4	193,8
AQ-414012P-HT	EFE-414012-HT	14,6	29,1	43,7	51,0	65,5	72,8	80,1	112,1
AQ-414020P-HT	EFE-414020-HT	18,3	36,6	55,0	64,1	82,4	91,6	100,8	141,1

Enclosure types (polyester)		Maximum power dissipation (W) – Tamb. up to **55**°C							
		INTERNAL TEMP.65°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)	INTERNAL TEMP.127°C (T4/T135°C)
AQ-080806P-HT	EFE-080806-HT	1,7	2,6	4,4	5,2	7,0	7,8	8,7	12,5
AQ-080808P-HT	EFE-080808-HT	2,3	3,4	5,7	6,8	9,1	10,2	11,4	16,2
AR-081106P-HT	EFE-081106-HT	2,1	3,2	5,3	6,4	8,5	9,6	10,7	15,2
AR-081108P-HT	EFE-081108-HT	2,8	4,2	7,0	8,4	11,2	12,6	13,9	19,8
AR-081606P-HT	EFE-081606-HT	2,9	4,3	7,2	8,7	11,6	13,0	14,5	20,6
AR-081608P-HT	EFE-081608-HT	3,4	5,1	8,5	10,2	13,7	15,4	17,1	24,3
AR-081906P-HT	EFE-081906-HT	3,2	4,8	8,0	9,6	12,8	14,4	16,0	22,8
AR-081908P-HT	EFE-081908-HT	3,8	5,7	9,4	11,3	15,1	17,0	18,8	26,8
AR-082306P-HT	EFE-082306-HT	3,6	5,4	9,0	10,8	14,4	16,2	18,0	25,6
AR-082308P-HT	EFE-082308-HT	4,2	6,3	10,6	12,7	16,9	19,0	21,1	30,0
AQ-121209P-HT	EFE-121209-HT	4,0	6,0	10,0	12,0	15,9	17,9	19,9	28,3
AR-122209P-HT	EFE-122209-HT	5,4	8,1	13,5	16,2	21,6	24,3	27,0	38,3
AQ-161609P-HT	EFE-161609-HT	5,2	7,8	13,0	15,6	20,8	23,4	26,0	36,9
AR-162609P-HT	EFE-162609-HT	6,7	10,1	16,8	20,1	26,8	30,2	33,5	47,6
AR-163609P-HT	EFE-163609-HT	8,1	12,2	20,3	24,3	32,4	36,5	40,5	57,5
AR-165609P-HT	EFE-165609-HT	10,7	16,0	26,7	32,0	42,7	48,1	53,4	75,8
AQ-202017P-HT	EFE-202017-HT	9,0	13,5	22,4	26,9	35,9	40,4	44,9	63,7
AR-203017P-HT	EFE-203017-HT	10,4	15,7	26,1	31,3	41,7	47,0	52,2	74,0
AQ-252612P-HT	EFE-252612-HT	9,4	14,1	23,5	28,2	37,6	42,4	47,1	66,8
AQ-252616P-HT	EFE-252616-HT	10,4	15,6	26,0	31,1	41,5	46,7	51,9	73,7
AR-254012P-HT	EFE-254012-HT	11,4	17,1	28,5	34,2	45,7	51,4	57,1	81,0
AR-254016P-HT	EFE-254016-HT	13,1	19,6	32,7	39,3	52,4	58,9	65,5	92,9
AR-256012P-HT	EFE-256012-HT	14,5	21,8	36,3	43,6	58,1	65,3	72,6	103,0
AR-304020P-HT	EFE-304020-HT	16,2	24,2	40,4	48,5	64,7	72,7	80,8	114,7
AQ-363609P-HT	EFE-363609-HT	11,5	17,3	28,8	34,6	46,1	51,8	57,6	81,8
AR-406025P-HT	EFE-406025-HT	25,2	37,8	62,9	75,5	100,7	113,3	125,8	178,6
AQ-414012P-HT	EFE-414012-HT	14,6	21,8	36,4	43,7	58,2	65,5	72,8	103,0
AQ-414020P-HT	EFE-414020-HT	18,3	27,5	45,8	55,0	73,3	82,4	91,6	130,0

Enclosure types (polyester)		Maximum power dissipation (W) – Tamb. up to **60**°C						
		INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)	INTERNAL TEMP.127°C (T4/T135°C)
AQ-080806P-HT	EFE-080806-HT	1,7	3,5	4,4	6,1	7,0	7,8	11,7
AQ-080808P-HT	EFE-080808-HT	2,3	4,6	5,7	8,0	9,1	10,2	15,2
AR-081106P-HT	EFE-081106-HT	2,1	4,3	5,3	7,5	8,5	9,6	14,3
AR-081108P-HT	EFE-081108-HT	2,8	5,6	7,0	9,8	11,2	12,6	18,7
AR-081606P-HT	EFE-081606-HT	2,9	5,8	7,2	10,1	11,6	13,0	19,4
AR-081608P-HT	EFE-081608-HT	3,4	6,8	8,5	11,9	13,7	15,4	22,9
AR-081906P-HT	EFE-081906-HT	3,2	6,4	8,0	11,2	12,8	14,4	21,4
AR-081908P-HT	EFE-081908-HT	3,8	7,5	9,4	13,2	15,1	17,0	25,3
AR-082306P-HT	EFE-082306-HT	3,6	7,2	9,0	12,6	14,4	16,2	24,1
AR-082308P-HT	EFE-082308-HT	4,2	8,5	10,6	14,8	16,9	19,0	28,3
AQ-121209P-HT	EFE-121209-HT	4,0	8,0	10,0	14,0	15,9	17,9	26,7
AR-122209P-HT	EFE-122209-HT	5,4	10,8	13,5	18,9	21,6	24,3	36,2
AQ-161609P-HT	EFE-161609-HT	5,2	10,4	13,0	18,2	20,8	23,4	34,8
AR-162609P-HT	EFE-162609-HT	6,7	13,4	16,8	23,5	26,8	30,2	44,9
AR-163609P-HT	EFE-163609-HT	8,1	16,2	20,3	28,4	32,4	36,5	54,2
AR-165609P-HT	EFE-165609-HT	10,7	21,4	26,7	37,4	42,7	48,1	71,5
AQ-202017P-HT	EFE-202017-HT	9,0	18,0	22,4	31,4	35,9	40,4	60,1
AR-203017P-HT	EFE-203017-HT	10,4	20,9	26,1	36,5	41,7	47,0	69,9
AQ-252612P-HT	EFE-252612-HT	9,4	18,8	23,5	32,9	37,6	42,4	63,0
AQ-252616P-HT	EFE-252616-HT	10,4	20,8	26,0	36,3	41,5	46,7	69,5
AR-254012P-HT	EFE-254012-HT	11,4	22,8	28,5	39,9	45,7	51,4	76,5
AR-254016P-HT	EFE-254016-HT	13,1	26,2	32,7	45,8	52,4	58,9	87,7
AR-256012P-HT	EFE-256012-HT	14,5	29,0	36,3	50,8	58,1	65,3	97,2
AR-304020P-HT	EFE-304020-HT	16,2	32,3	40,4	56,6	64,7	72,7	108,3
AQ-363609P-HT	EFE-363609-HT	11,5	23,0	28,8	40,3	46,1	51,8	77,1
AR-406025P-HT	EFE-406025-HT	25,2	50,3	62,9	88,1	100,7	113,3	168,7
AQ-414012P-HT	EFE-414012-HT	14,6	29,1	36,4	51,0	58,2	65,5	97,5
AQ-414020P-HT	EFE-414020-HT	18,3	36,6	45,8	64,1	73,3	82,4	122,7

Enclosure types (polyester)		Maximum power dissipation (W) Tamb. up to **95**°C		
		INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)	INTERNAL TEMP.127°C (T4/T135°C)
AQ-080806P-HT	EFE-080806-HT	0,9	1,7	5,6
AQ-080808P-HT	EFE-080808-HT	1,1	2,3	7,3
AR-081106P-HT	EFE-081106-HT	1,1	2,1	6,5
AR-081108P-HT	EFE-081108-HT	1,4	2,8	9,0
AR-081606P-HT	EFE-081606-HT	1,4	2,9	9,2
AR-081608P-HT	EFE-081608-HT	1,7	3,4	10,9
AR-081906P-HT	EFE-081906-HT	1,6	3,2	10,2
AR-081908P-HT	EFE-081908-HT	1,9	3,8	12,1
AR-082306P-HT	EFE-082306-HT	1,8	3,6	11,5
AR-082308P-HT	EFE-082308-HT	2,1	4,2	13,5
AQ-121209P-HT	EFE-121209-HT	2,0	4,0	12,8
AR-122209P-HT	EFE-122209-HT	2,7	5,4	17,3
AQ-161609P-HT	EFE-161609-HT	2,6	5,2	16,6
AR-162609P-HT	EFE-162609-HT	3,4	6,7	21,5
AR-163609P-HT	EFE-163609-HT	4,1	8,1	26,0
AR-165609P-HT	EFE-165609-HT	5,3	10,7	34,2
AQ-202017P-HT	EFE-202017-HT	4,5	9,0	28,7
AR-203017P-HT	EFE-203017-HT	5,2	10,4	33,4
AQ-252612P-HT	EFE-252612-HT	4,7	9,4	30,1
AQ-252616P-HT	EFE-252616-HT	5,2	10,4	33,2
AR-254012P-HT	EFE-254012-HT	5,7	11,4	36,5
AR-254016P-HT	EFE-254016-HT	6,5	13,1	41,9
AR-256012P-HT	EFE-256012-HT	7,3	14,5	46,4
AR-304020P-HT	EFE-304020-HT	8,1	16,2	51,8
AQ-363609P-HT	EFE-363609-HT	5,8	11,5	36,8
AR-406025P-HT	EFE-406025-HT	12,6	25,2	80,6
AQ-414012P-HT	EFE-414012-HT	7,3	14,6	46,6
AQ-414020P-HT	EFE-414020-HT	9,2	18,3	58,6

Power dissipation – HT aluminium alloy enclosures

Enclosure types (aluminium)		Maximum power dissipation (W) – Tamb. up to **40**°C							
		INTERNAL TEMP.60°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)	INTERNAL TEMP.130°C (T4/T135°C)
AQ-080806AL-HT	EFXE-080806AL-HT	5,2	7,8	10,4	11,7	14,3	15,6	16,9	23,4
AR-081306AL-HT	EFXE-081306AL-HT	7,0	10,6	14,1	15,9	19,4	21,2	23,0	31,8
AR-081806AL-HT	EFXE-081806AL-HT	8,9	13,3	17,8	20,0	24,5	26,7	28,9	40,0
AR-082505AL-HT	EFXE-082505AL-HT	10,9	16,4	21,9	24,7	30,1	32,9	35,6	49,4
AQ-101008AL-HT	EFXE-101008AL-HT	8,7	13,0	17,4	19,6	23,9	26,1	28,3	39,2
AR-101608AL-HT	EFXE-101608AL-HT	11,5	17,3	23,1	26,0	31,8	34,7	37,6	52,0
AR-102008AL-HT	EFXE-102008AL-HT	13,4	20,1	26,8	30,2	36,9	40,3	43,6	60,4
AQ-121208AL-HT	EFXE-121208AL-HT	10,8	16,2	21,6	24,3	29,7	32,4	35,1	48,6
AQ-121209AL-HT	EFXE-121209AL-HT	11,6	17,5	23,3	26,2	32,1	35,0	37,9	52,5
AR-122208AL-HT	EFXE-122208AL-HT	15,6	23,5	31,3	35,3	43,1	47,0	50,9	70,6
AR-122209AL-HT	EFXE-122209AL-HT	16,8	25,3	33,7	37,9	46,3	50,6	54,8	75,9
AR-123608AL-HT	EFXE-123608AL-HT	22,3	33,5	44,7	50,3	61,5	67,1	72,7	100,7
AQ-141409AL-HT	EFXE-141409AL-HT	13,7	20,6	27,5	31,0	37,9	41,3	44,8	62,0
AR-142009AL-HT	EFXE-142009AL-HT	17,1	25,7	34,2	38,5	47,1	51,4	55,7	77,1
AQ-161609AL-HT	EFXE-161609AL-HT	16,1	24,1	32,2	36,2	44,2	48,3	52,3	72,4
AR-162609AL-HT	EFXE-162609AL-HT	21,9	32,8	43,8	49,3	60,2	65,7	71,2	98,6
AR-163609AL-HT	EFXE-163609AL-HT	27,5	41,3	55,1	62,0	75,7	82,6	89,5	124,0
AR-165609AL-HT	EFXE-165609AL-HT	38,4	57,7	76,9	86,6	105,8	115,4	125,0	173,2
AQ-181810AL-HT	EFXE-181810AL-HT	19,7	29,6	39,5	44,4	54,3	59,2	64,2	88,8
AR-182810AL-HT	EFXE-182810AL-HT	26,1	39,1	52,2	58,7	71,8	78,3	84,8	117,5
AR-102311AL-HT	EFXE-102311AL-HT	18,2	27,3	36,5	41,0	50,1	54,7	59,3	82,1
AR-202311AL-HT	EFXE-202311AL-HT	26,1	39,1	52,2	58,7	71,7	78,3	84,8	117,4
AR-202318AL-HT	EFXE-202318AL-HT	35,9	53,9	71,8	80,8	98,8	107,8	116,8	161,7
AR-232811AL-HT	EFXE-232811AL-HT	31,6	47,5	63,3	71,3	87,1	95,0	103,0	142,6
AR-233311AL-HT	EFXE-233311AL-HT	35,3	52,9	70,6	79,4	97,0	105,9	114,7	158,8
AR-233318AL-HT	EFXE-233318AL-HT	47,5	71,3	95,1	107,0	130,8	142,7	154,6	214,1
AR-234011AL-HT	EFXE-234011AL-HT	40,2	60,4	80,5	90,6	110,7	120,8	130,9	181,2
AR-234023AL-HT	EFXE-234023AL-HT	62,2	93,3	124,5	140,0	171,2	186,7	202,3	280,1
AR-236011AL-HT	EFXE-236011AL-HT	54,1	81,2	108,3	121,9	148,9	162,5	176,0	243,8
AR-314011AL-HT	EFXE-314011AL-HT	48,6	72,9	97,2	109,3	133,6	145,8	157,9	218,7
AR-314014AL-HT	EFXE-314014AL-HT	54,9	82,4	109,9	123,7	151,2	164,9	178,7	247,4
AR-314018AL-HT	EFXE-314018AL-HT	63,8	95,7	127,6	143,5	175,4	191,4	207,3	287,1
AR-314023AL-HT	EFXE-314023AL-HT	73,5	110,3	147,1	165,5	202,3	220,7	239,1	331,0
AR-316011AL-HT	EFXE-316011AL-HT	64,0	96,0	128,1	144,1	176,1	192,1	208,1	288,2
AR-316018AL-HT	EFXE-316018AL-HT	82,7	124,1	165,5	186,2	227,6	248,3	268,9	372,4
AQ-606020AL-HT	EFXE-606020AL-HT	129,1	193,7	258,3	290,5	355,1	387,4	419,7	581,1

Enclosure types (aluminium)		Maximum power dissipation (W) – Tamb. up to **50**°C							
		INTERNAL TEMP.60°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)	INTERNAL TEMP.130°C (T4/T135°C)
AQ-080806AL-HT	EFXE-080806AL-HT	2,6	5,2	7,8	9,1	11,7	13,0	14,3	20,8
AR-081306AL-HT	EFXE-081306AL-HT	3,5	7,0	10,6	12,3	15,9	17,7	19,4	28,3
AR-081806AL-HT	EFXE-081806AL-HT	4,4	8,9	13,3	15,5	20,0	22,2	24,5	35,6
AR-082505AL-HT	EFXE-082505AL-HT	5,4	10,9	16,4	19,2	24,7	27,4	30,1	43,9
AQ-101008AL-HT	EFXE-101008AL-HT	4,3	8,7	13,0	15,2	19,6	21,7	23,9	34,8
AR-101608AL-HT	EFXE-101608AL-HT	5,7	11,5	17,3	20,2	26,0	28,9	31,8	46,2
AR-102008AL-HT	EFXE-102008AL-HT	6,7	13,4	20,1	23,5	30,2	33,5	36,9	53,7
AQ-121208AL-HT	EFXE-121208AL-HT	5,4	10,8	16,2	18,9	24,3	27,0	29,7	43,2
AQ-121209AL-HT	EFXE-121209AL-HT	5,8	11,6	17,5	20,4	26,2	29,2	32,1	46,7
AR-122208AL-HT	EFXE-122208AL-HT	7,8	15,6	23,5	27,4	35,3	39,2	43,1	62,7
AR-122209AL-HT	EFXE-122209AL-HT	8,4	16,8	25,3	29,5	37,9	42,1	46,3	67,4
AR-123608AL-HT	EFXE-123608AL-HT	11,1	22,3	33,5	39,1	50,3	55,9	61,5	89,5
AQ-141409AL-HT	EFXE-141409AL-HT	6,8	13,7	20,6	24,1	31,0	34,4	37,9	55,1
AR-142009AL-HT	EFXE-142009AL-HT	8,5	17,1	25,7	30,0	38,5	42,8	47,1	68,5
AQ-161609AL-HT	EFXE-161609AL-HT	8,0	16,1	24,1	28,1	36,2	40,2	44,2	64,4
AR-162609AL-HT	EFXE-162609AL-HT	10,9	21,9	32,8	38,3	49,3	54,8	60,2	87,6
AR-163609AL-HT	EFXE-163609AL-HT	13,7	27,5	41,3	48,2	62,0	68,9	75,7	110,2
AR-165609AL-HT	EFXE-165609AL-HT	19,2	38,4	57,7	67,3	86,6	96,2	105,8	153,9
AQ-181810AL-HT	EFXE-181810AL-HT	9,8	19,7	29,6	34,5	44,4	49,3	54,3	79,0
AR-182810AL-HT	EFXE-182810AL-HT	13,0	26,1	39,1	45,7	58,7	65,2	71,8	104,4
AR-102311AL-HT	EFXE-102311AL-HT	9,1	18,2	27,3	31,9	41,0	45,6	50,1	73,0
AR-202311AL-HT	EFXE-202311AL-HT	13,0	26,1	39,1	45,6	58,7	65,2	71,7	104,4
AR-202318AL-HT	EFXE-202318AL-HT	17,9	35,9	53,9	62,8	80,8	89,8	98,8	143,7
AR-232811AL-HT	EFXE-232811AL-HT	15,8	31,6	47,5	55,4	71,3	79,2	87,1	126,7
AR-233311AL-HT	EFXE-233311AL-HT	17,6	35,3	52,9	61,7	79,4	88,2	97,0	141,2
AR-233318AL-HT	EFXE-233318AL-HT	23,7	47,5	71,3	83,2	107,0	118,9	130,8	190,3
AR-234011AL-HT	EFXE-234011AL-HT	20,1	40,2	60,4	70,5	90,6	100,7	110,7	161,1
AR-234023AL-HT	EFXE-234023AL-HT	31,1	62,2	93,3	108,9	140,0	155,6	171,2	249,0
AR-236011AL-HT	EFXE-236011AL-HT	27,0	54,1	81,2	94,8	121,9	135,4	148,9	216,7
AR-314011AL-HT	EFXE-314011AL-HT	24,3	48,6	72,9	85,0	109,3	121,5	133,6	194,4
AR-314014AL-HT	EFXE-314014AL-HT	27,4	54,9	82,4	96,2	123,7	137,4	151,2	219,9
AR-314018AL-HT	EFXE-314018AL-HT	31,9	63,8	95,7	111,6	143,5	159,5	175,4	255,2
AR-314023AL-HT	EFXE-314023AL-HT	36,7	73,5	110,3	128,7	165,5	183,9	202,3	294,2
AR-316011AL-HT	EFXE-316011AL-HT	32,0	64,0	96,0	112,0	144,1	160,1	176,1	256,2
AR-316018AL-HT	EFXE-316018AL-HT	41,3	82,7	124,1	144,8	186,2	206,9	227,6	331,0
AQ-606020AL-HT	EFXE-606020AL-HT	64,5	129,1	193,7	226,0	290,5	322,8	355,1	516,6

Enclosure types (aluminium)		Maximum power dissipation (W) – Tamb. up to **55**°C							
		INTERNAL TEMP.65°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)	INTERNAL TEMP.130°C (T4/T135°C)
AQ-080806AL-HT	EFXE-080806AL-HT	2,6	3,9	6,5	7,8	10,4	11,7	13,0	19,5
AR-081306AL-HT	EFXE-081306AL-HT	3,5	5,3	8,8	10,6	14,1	15,9	17,7	26,5
AR-081806AL-HT	EFXE-081806AL-HT	4,4	6,6	11,1	13,3	17,8	20,0	22,2	33,4
AR-082505AL-HT	EFXE-082505AL-HT	5,4	8,2	13,7	16,4	21,9	24,7	27,4	41,1
AQ-101008AL-HT	EFXE-101008AL-HT	4,3	6,5	10,8	13,0	17,4	19,6	21,7	32,6
AR-101608AL-HT	EFXE-101608AL-HT	5,7	8,6	14,4	17,3	23,1	26,0	28,9	43,3
AR-102008AL-HT	EFXE-102008AL-HT	6,7	10,0	16,7	20,1	26,8	30,2	33,5	50,3
AQ-121208AL-HT	EFXE-121208AL-HT	5,4	8,1	13,5	16,2	21,6	24,3	27,0	40,5
AQ-121209AL-HT	EFXE-121209AL-HT	5,8	8,7	14,6	17,5	23,3	26,2	29,2	43,8
AR-122208AL-HT	EFXE-122208AL-HT	7,8	11,7	19,6	23,5	31,3	35,3	39,2	58,8
AR-122209AL-HT	EFXE-122209AL-HT	8,4	12,6	21,0	25,3	33,7	37,9	42,1	63,2
AR-123608AL-HT	EFXE-123608AL-HT	11,1	16,7	27,9	33,5	44,7	50,3	55,9	83,9
AQ-141409AL-HT	EFXE-141409AL-HT	6,8	10,3	17,2	20,6	27,5	31,0	34,4	51,7
AR-142009AL-HT	EFXE-142009AL-HT	8,5	12,8	21,4	25,7	34,2	38,5	42,8	64,3
AQ-161609AL-HT	EFXE-161609AL-HT	8,0	12,0	20,1	24,1	32,2	36,2	40,2	60,4
AR-162609AL-HT	EFXE-162609AL-HT	10,9	16,4	27,4	32,8	43,8	49,3	54,8	82,2
AR-163609AL-HT	EFXE-163609AL-HT	13,7	20,6	34,4	41,3	55,1	62,0	68,9	103,3
AR-165609AL-HT	EFXE-165609AL-HT	19,2	28,8	48,1	57,7	76,9	86,6	96,2	144,3
AQ-181810AL-HT	EFXE-181810AL-HT	9,8	14,8	24,6	29,6	39,5	44,4	49,3	74,0
AR-182810AL-HT	EFXE-182810AL-HT	13,0	19,5	32,6	39,1	52,2	58,7	65,2	97,9
AR-102311AL-HT	EFXE-102311AL-HT	9,1	13,6	22,8	27,3	36,5	41,0	45,6	68,4
AR-202311AL-HT	EFXE-202311AL-HT	13,0	19,5	32,6	39,1	52,2	58,7	65,2	97,9
AR-202318AL-HT	EFXE-202318AL-HT	17,9	26,9	44,9	53,9	71,8	80,8	89,8	134,7
AR-232811AL-HT	EFXE-232811AL-HT	15,8	23,7	39,6	47,5	63,3	71,3	79,2	118,8
AR-233311AL-HT	EFXE-233311AL-HT	17,6	26,4	44,1	52,9	70,6	79,4	88,2	132,3
AR-233318AL-HT	EFXE-233318AL-HT	23,7	35,6	59,4	71,3	95,1	107,0	118,9	178,4
AR-234011AL-HT	EFXE-234011AL-HT	20,1	30,2	50,3	60,4	80,5	90,6	100,7	151,0
AR-234023AL-HT	EFXE-234023AL-HT	31,1	46,6	77,8	93,3	124,5	140,0	155,6	233,4
AR-236011AL-HT	EFXE-236011AL-HT	27,0	40,6	67,7	81,2	108,3	121,9	135,4	203,1
AR-314011AL-HT	EFXE-314011AL-HT	24,3	36,4	60,7	72,9	97,2	109,3	121,5	182,3
AR-314014AL-HT	EFXE-314014AL-HT	27,4	41,2	68,7	82,4	109,9	123,7	137,4	206,2
AR-314018AL-HT	EFXE-314018AL-HT	31,9	47,8	79,7	95,7	127,6	143,5	159,5	239,2
AR-314023AL-HT	EFXE-314023AL-HT	36,7	55,1	91,9	110,3	147,1	165,5	183,9	275,8
AR-316011AL-HT	EFXE-316011AL-HT	32,0	48,0	80,0	96,0	128,1	144,1	160,1	240,1
AR-316018AL-HT	EFXE-316018AL-HT	41,3	62,0	103,4	124,1	165,5	186,2	206,9	310,3
AQ-606020AL-HT	EFXE-606020AL-HT	64,5	96,8	161,4	193,7	258,3	290,5	322,8	484,3

Enclosure types (aluminium)		Maximum power dissipation (W) – Tamb. up to **60**°C						
		INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)	INTERNAL TEMP.130°C (T4/T135°C)
AQ-080806AL-HT	EFXE-080806AL-HT	2,6	5,2	6,5	9,1	10,4	11,7	18,2
AR-081306AL-HT	EFXE-081306AL-HT	3,5	7,0	8,8	12,3	14,1	15,9	24,7
AR-081806AL-HT	EFXE-081806AL-HT	4,4	8,9	11,1	15,5	17,8	20,0	31,1
AR-082505AL-HT	EFXE-082505AL-HT	5,4	10,9	13,7	19,2	21,9	24,7	38,4
AQ-101008AL-HT	EFXE-101008AL-HT	4,3	8,7	10,8	15,2	17,4	19,6	30,4
AR-101608AL-HT	EFXE-101608AL-HT	5,7	11,5	14,4	20,2	23,1	26,0	40,5
AR-102008AL-HT	EFXE-102008AL-HT	6,7	13,4	16,7	23,5	26,8	30,2	47,0
AQ-121208AL-HT	EFXE-121208AL-HT	5,4	10,8	13,5	18,9	21,6	24,3	37,8
AQ-121209AL-HT	EFXE-121209AL-HT	5,8	11,6	14,6	20,4	23,3	26,2	40,8
AR-122208AL-HT	EFXE-122208AL-HT	7,8	15,6	19,6	27,4	31,3	35,3	54,9
AR-122209AL-HT	EFXE-122209AL-HT	8,4	16,8	21,0	29,5	33,7	37,9	59,0
AR-123608AL-HT	EFXE-123608AL-HT	11,1	22,3	27,9	39,1	44,7	50,3	78,3
AQ-141409AL-HT	EFXE-141409AL-HT	6,8	13,7	17,2	24,1	27,5	31,0	48,2
AR-142009AL-HT	EFXE-142009AL-HT	8,5	17,1	21,4	30,0	34,2	38,5	60,0
AQ-161609AL-HT	EFXE-161609AL-HT	8,0	16,1	20,1	28,1	32,2	36,2	56,3
AR-162609AL-HT	EFXE-162609AL-HT	10,9	21,9	27,4	38,3	43,8	49,3	76,7
AR-163609AL-HT	EFXE-163609AL-HT	13,7	27,5	34,4	48,2	55,1	62,0	96,4
AR-165609AL-HT	EFXE-165609AL-HT	19,2	38,4	48,1	67,3	76,9	86,6	134,7
AQ-181810AL-HT	EFXE-181810AL-HT	9,8	19,7	24,6	34,5	39,5	44,4	69,1
AR-182810AL-HT	EFXE-182810AL-HT	13,0	26,1	32,6	45,7	52,2	58,7	91,4
AR-102311AL-HT	EFXE-102311AL-HT	9,1	18,2	22,8	31,9	36,5	41,0	63,8
AR-202311AL-HT	EFXE-202311AL-HT	13,0	26,1	32,6	45,6	52,2	58,7	91,3
AR-202318AL-HT	EFXE-202318AL-HT	17,9	35,9	44,9	62,8	71,8	80,8	125,7
AR-232811AL-HT	EFXE-232811AL-HT	15,8	31,6	39,6	55,4	63,3	71,3	110,9
AR-233311AL-HT	EFXE-233311AL-HT	17,6	35,3	44,1	61,7	70,6	79,4	123,5
AR-233318AL-HT	EFXE-233318AL-HT	23,7	47,5	59,4	83,2	95,1	107,0	166,5
AR-234011AL-HT	EFXE-234011AL-HT	20,1	40,2	50,3	70,5	80,5	90,6	141,0
AR-234023AL-HT	EFXE-234023AL-HT	31,1	62,2	77,8	108,9	124,5	140,0	217,9
AR-236011AL-HT	EFXE-236011AL-HT	27,0	54,1	67,7	94,8	108,3	121,9	189,6
AR-314011AL-HT	EFXE-314011AL-HT	24,3	48,6	60,7	85,0	97,2	109,3	170,1
AR-314014AL-HT	EFXE-314014AL-HT	27,4	54,9	68,7	96,2	109,9	123,7	192,4
AR-314018AL-HT	EFXE-314018AL-HT	31,9	63,8	79,7	111,6	127,6	143,5	223,3
AR-314023AL-HT	EFXE-314023AL-HT	36,7	73,5	91,9	128,7	147,1	165,5	257,4
AR-316011AL-HT	EFXE-316011AL-HT	32,0	64,0	80,0	112,0	128,1	144,1	224,1
AR-316018AL-HT	EFXE-316018AL-HT	41,3	82,7	103,4	144,8	165,5	186,2	289,6
AQ-606020AL-HT	EFXE-606020AL-HT	64,5	129,1	161,4	226,0	258,3	290,5	452,0

Enclosure types (aluminium)		Maximum power dissipation (W) Tamb. up to **95**°C		
		INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)	INTERNAL TEMP.130°C (T4/T135°C)
AQ-080806AL-HT	EFXE-080806AL-HT	1,3	2,6	9,1
AR-081306AL-HT	EFXE-081306AL-HT	1,7	3,5	12,3
AR-081806AL-HT	EFXE-081806AL-HT	2,2	4,4	15,5
AR-082505AL-HT	EFXE-082505AL-HT	2,7	5,4	19,2
AQ-101008AL-HT	EFXE-101008AL-HT	2,1	4,3	15,2
AR-101608AL-HT	EFXE-101608AL-HT	2,8	5,7	20,2
AR-102008AL-HT	EFXE-102008AL-HT	3,3	6,7	23,5
AQ-121208AL-HT	EFXE-121208AL-HT	2,7	5,4	18,9
AQ-121209AL-HT	EFXE-121209AL-HT	2,9	5,8	20,4
AR-122208AL-HT	EFXE-122208AL-HT	3,9	7,8	27,4
AR-122209AL-HT	EFXE-122209AL-HT	4,2	8,4	29,5
AR-123608AL-HT	EFXE-123608AL-HT	5,5	11,1	39,1
AQ-141409AL-HT	EFXE-141409AL-HT	3,4	6,8	24,1
AR-142009AL-HT	EFXE-142009AL-HT	4,2	8,5	30,0
AQ-161609AL-HT	EFXE-161609AL-HT	4,0	8,0	28,1
AR-162609AL-HT	EFXE-162609AL-HT	5,4	10,9	38,3
AR-163609AL-HT	EFXE-163609AL-HT	6,8	13,7	48,2
AR-165609AL-HT	EFXE-165609AL-HT	9,6	19,2	67,3
AQ-181810AL-HT	EFXE-181810AL-HT	4,9	9,8	34,5
AR-182810AL-HT	EFXE-182810AL-HT	6,5	13,0	45,7
AR-102311AL-HT	EFXE-102311AL-HT	4,5	9,1	31,9
AR-202311AL-HT	EFXE-202311AL-HT	6,5	13,0	45,6
AR-202318AL-HT	EFXE-202318AL-HT	8,9	17,9	62,8
AR-232811AL-HT	EFXE-232811AL-HT	7,9	15,8	55,4
AR-233311AL-HT	EFXE-233311AL-HT	8,8	17,6	61,7
AR-233318AL-HT	EFXE-233318AL-HT	11,8	23,7	83,2
AR-234011AL-HT	EFXE-234011AL-HT	10,0	20,1	70,5
AR-234023AL-HT	EFXE-234023AL-HT	15,5	31,1	108,9
AR-236011AL-HT	EFXE-236011AL-HT	13,5	27,0	94,8
AR-314011AL-HT	EFXE-314011AL-HT	12,1	24,3	85,0
AR-314014AL-HT	EFXE-314014AL-HT	13,7	27,4	96,2
AR-314018AL-HT	EFXE-314018AL-HT	15,9	31,9	111,6
AR-314023AL-HT	EFXE-314023AL-HT	18,3	36,7	128,7
AR-316011AL-HT	EFXE-316011AL-HT	16,0	32,0	112,0
AR-316018AL-HT	EFXE-316018AL-HT	20,6	41,3	144,8
AQ-606020AL-HT	EFXE-606020AL-HT	32,2	64,5	226,0

Power dissipation – Glass fiber reinforced polyester resin enclosures

Enclosure types (polyester)		Maximum power dissipation (W) – Tamb. up to **40**°C						
		INTERNAL TEMP.60°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
AQ-080806P	EFE-080806	3,4	5,2	6,9	7,8	9,5	10,4	11,3
AQ-080808P	EFE-080808	4,5	6,8	9,1	10,2	12,5	13,6	14,7
AR-081106P	EFE-081106	4,2	6,4	8,5	9,6	11,7	12,8	13,8
AR-081606P	EFE-081606	5,7	8,6	11,5	13,0	15,9	17,3	18,8
AR-081906P	EFE-081906	6,4	9,6	12,8	14,4	17,6	19,2	20,8
AQ-121209P	EFE-121209	7,9	11,9	15,9	17,9	21,9	23,9	25,9
AR-122209P	EFE-122209	10,8	16,2	21,6	24,3	29,7	32,4	35,1
AQ-161609P	EFE-161609	10,3	15,5	20,7	23,3	28,5	31,1	33,7
AR-162609P	EFE-162609	13,4	20,1	26,8	30,1	36,8	40,2	43,5
AR-163609P	EFE-163609	16,2	24,3	32,4	36,4	44,5	48,6	52,6
AQ-252612P	EFE-252612	18,8	28,2	37,6	42,3	51,7	56,4	61,1
AQ-252616P	EFE-252616	21,7	32,6	43,5	49,0	59,9	65,3	70,8
AR-254012P	EFE-254012	23,9	35,9	47,9	53,9	65,9	71,8	77,8
AR-254016P	EFE-254016	27,4	41,2	54,9	61,8	75,6	82,4	89,3
AR-256012P	EFE-256012	29,0	43,5	58,0	65,3	79,8	87,1	94,3
AQ-414012P	EFE-414012	29,1	43,6	58,2	65,5	80,0	87,3	94,6
AQ-414016P	EFE-414016	32,9	49,4	65,9	74,1	90,6	98,8	107,0

Enclosure types (polyester)		Maximum power dissipation (W) – Tamb. up to **50**°C						
		INTERNAL TEMP.60°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
AQ-080806P	EFE-080806	1,7	3,4	5,2	6,0	7,8	8,7	9,5
AQ-080808P	EFE-080808	2,2	4,5	6,8	7,9	10,2	11,3	12,5
AR-081106P	EFE-081106	2,1	4,2	6,4	7,4	9,6	10,6	11,7
AR-081606P	EFE-081606	2,8	5,7	8,6	10,1	13,0	14,4	15,9
AR-081906P	EFE-081906	3,2	6,4	9,6	11,2	14,4	16,0	17,6
AQ-121209P	EFE-121209	3,9	7,9	11,9	13,9	17,9	19,9	21,9
AR-122209P	EFE-122209	5,4	10,8	16,2	18,9	24,3	27,0	29,7
AQ-161609P	EFE-161609	5,1	10,3	15,5	18,1	23,3	25,9	28,5
AR-162609P	EFE-162609	6,7	13,4	20,1	23,4	30,1	33,5	36,8
AR-163609P	EFE-163609	8,1	16,2	24,3	28,3	36,4	40,5	44,5
AQ-252612P	EFE-252612	9,4	18,8	28,2	32,9	42,3	47,0	51,7
AQ-252616P	EFE-252616	10,8	21,7	32,6	38,1	49,0	54,4	59,9
AR-254012P	EFE-254012	11,9	23,9	35,9	41,9	53,9	59,9	65,9
AR-254016P	EFE-254016	13,7	27,4	41,2	48,1	61,8	68,7	75,6
AR-256012P	EFE-256012	14,5	29,0	43,5	50,8	65,3	72,6	79,8
AQ-414012P	EFE-414012	14,5	29,1	43,6	50,9	65,5	72,7	80,0
AQ-414016P	EFE-414016	16,4	32,9	49,4	57,6	74,1	82,3	90,6

Enclosure types (polyester)		Maximum power dissipation (W) – Tamb. up to **55**°C						
		INTERNAL TEMP.65°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
AQ-080806P	EFE-080806	1,7	2,6	4,3	5,2	6,9	7,8	8,7
AQ-080808P	EFE-080808	2,2	3,4	5,6	6,8	9,1	10,2	11,3
AR-081106P	EFE-081106	2,1	3,2	5,3	6,4	8,5	9,6	10,6
AR-081606P	EFE-081606	2,8	4,3	7,2	8,6	11,5	13,0	14,4
AR-081906P	EFE-081906	3,2	4,8	8,0	9,6	12,8	14,4	16,0
AQ-121209P	EFE-121209	3,9	5,9	9,9	11,9	15,9	17,9	19,9
AR-122209P	EFE-122209	5,4	8,1	13,5	16,2	21,6	24,3	27,0
AQ-161609P	EFE-161609	5,1	7,7	12,9	15,5	20,7	23,3	25,9
AR-162609P	EFE-162609	6,7	10,0	16,7	20,1	26,8	30,1	33,5
AR-163609P	EFE-163609	8,1	12,1	20,2	24,3	32,4	36,4	40,5
AQ-252612P	EFE-252612	9,4	14,1	23,5	28,2	37,6	42,3	47,0
AQ-252616P	EFE-252616	10,8	16,3	27,2	32,6	43,5	49,0	54,4
AR-254012P	EFE-254012	11,9	17,9	29,9	35,9	47,9	53,9	59,9
AR-254016P	EFE-254016	13,7	20,6	34,3	41,2	54,9	61,8	68,7
AR-256012P	EFE-256012	14,5	21,7	36,3	43,5	58,0	65,3	72,6
AQ-414012P	EFE-414012	14,5	21,8	36,3	43,6	58,2	65,5	72,7
AQ-414016P	EFE-414016	16,4	24,7	41,1	49,4	65,9	74,1	82,3

Enclosure types (polyester)		Maximum power dissipation (W) – Tamb. up to **60**°C					
		INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
AQ-080806P	EFE-080806	1,7	3,4	4,3	6,0	6,9	7,8
AQ-080808P	EFE-080808	2,2	4,5	5,6	7,9	9,1	10,2
AR-081106P	EFE-081106	2,1	4,2	5,3	7,4	8,5	9,6
AR-081606P	EFE-081606	2,8	5,7	7,2	10,1	11,5	13,0
AR-081906P	EFE-081906	3,2	6,4	8,0	11,2	12,8	14,4
AQ-121209P	EFE-121209	3,9	7,9	9,9	13,9	15,9	17,9
AR-122209P	EFE-122209	5,4	10,8	13,5	18,9	21,6	24,3
AQ-161609P	EFE-161609	5,1	10,3	12,9	18,1	20,7	23,3
AR-162609P	EFE-162609	6,7	13,4	16,7	23,4	26,8	30,1
AR-163609P	EFE-163609	8,1	16,2	20,2	28,3	32,4	36,4
AQ-252612P	EFE-252612	9,4	18,8	23,5	32,9	37,6	42,3
AQ-252616P	EFE-252616	10,8	21,7	27,2	38,1	43,5	49,0
AR-254012P	EFE-254012	11,9	23,9	29,9	41,9	47,9	53,9
AR-254016P	EFE-254016	13,7	27,4	34,3	48,1	54,9	61,8
AR-256012P	EFE-256012	14,5	29,0	36,3	50,8	58,0	65,3
AQ-414012P	EFE-414012	14,5	29,1	36,3	50,9	58,2	65,5
AQ-414016P	EFE-414016	16,4	32,9	41,1	57,6	65,9	74,1

Enclosure types (polyester)		Maximum power dissipation (W) – Tamb. up to **95**°C	
		INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
AQ-080806P	EFE-080806	0,8	1,7
AQ-080808P	EFE-080808	1,1	2,2
AR-081106P	EFE-081106	1,0	2,1
AR-081606P	EFE-081606	1,4	2,8
AR-081906P	EFE-081906	1,6	3,2
AQ-121209P	EFE-121209	1,9	3,9
AR-122209P	EFE-122209	2,7	5,4
AQ-161609P	EFE-161609	2,5	5,1
AR-162609P	EFE-162609	3,3	6,7
AR-163609P	EFE-163609	4,0	8,1
AQ-252612P	EFE-252612	4,7	9,4
AQ-252616P	EFE-252616	5,4	10,8
AR-254012P	EFE-254012	5,9	11,9
AR-254016P	EFE-254016	6,8	13,7
AR-256012P	EFE-256012	7,2	14,5
AQ-414012P	EFE-414012	7,2	14,5
AQ-414016P	EFE-414016	8,2	16,4

Power dissipation – Aluminium alloy enclosures

Enclosure types (aluminium)		Maximum power dissipation (W) – Tamb. up to **40**°C						
		INTERNAL TEMP.60°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
AQ-080806AL	EFXE-080806AL	5,2	7,8	10,4	11,7	14,3	15,6	16,9
AR-081306AL	EFXE-081306AL	7,0	10,6	14,1	15,9	19,4	21,2	23,0
AR-081806AL	EFXE-081806AL	8,9	13,3	17,8	20,0	24,5	26,7	28,9
AR-081808AL	EFXE-081808AL	11,0	16,5	22,1	24,8	30,4	33,1	35,9
AR-082505AL	EFXE-082505AL	10,7	16,1	21,4	24,1	29,5	32,2	34,8
AR-082508AL	EFXE-082508AL	14,2	21,4	28,5	32,1	39,2	42,8	46,4
AQ-101008AL	EFXE-101008AL	8,7	13,0	17,4	19,6	23,9	26,1	28,3
AR-101508AL	EFXE-101508AL	11,1	16,6	22,2	24,9	30,5	33,3	36,0
AR-101608AL	EFXE-101608AL	11,5	17,3	23,1	26,0	31,8	34,7	37,6
AR-102008AL	EFXE-102008AL	13,4	20,1	26,8	30,2	36,9	40,3	43,6
AQ-121208AL	EFXE-121208AL	10,8	16,2	21,6	24,3	29,7	32,4	35,1
AR-122209AL	EFXE-122209AL	16,8	25,3	33,7	37,9	46,3	50,6	54,8
AQ-141409AL	EFXE-141409AL	13,7	20,6	27,5	31,0	37,9	41,3	44,8
AR-142009AL	EFXE-142009AL	17,1	25,7	34,2	38,5	47,1	51,4	55,7
AQ-161609AL	EFXE-161609AL	17,2	25,8	34,4	38,7	47,3	51,6	55,9
AR-162410AL	EFXE-162410AL	22,1	33,1	44,2	49,7	60,8	66,3	71,8
AR-162609AL	EFXE-162609AL	21,9	32,8	43,8	49,3	60,2	65,7	71,2
AQ-181810AL	EFXE-181810AL	19,7	29,6	39,5	44,4	54,3	59,2	64,2
AR-182810AL	EFXE-182810AL	26,1	39,1	52,2	58,7	71,8	78,3	84,8
AR-202311AL	EFXE-202311AL	25,8	38,7	51,6	58,0	71,0	77,4	83,9
AR-202318AL	EFXE-202318AL	35,5	53,3	71,1	80,0	97,8	106,7	115,6
AR-232811AL	EFXE-232811AL	31,6	47,5	63,3	71,3	87,1	95,0	103,0
AR-233312AL	EFXE-233312AL	37,0	55,6	74,1	83,4	101,9	111,2	120,5
AR-233318AL	EFXE-233318AL	47,5	71,3	95,1	107,0	130,8	142,7	154,6

Enclosure types (aluminium)		Maximum power dissipation (W) – Tamb. up to **50**°C						
		INTERNAL TEMP.60°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
AQ-080806AL	EFXE-080806AL	2,6	5,2	7,8	9,1	11,7	13,0	14,3
AR-081306AL	EFXE-081306AL	3,5	7,0	10,6	12,3	15,9	17,7	19,4
AR-081806AL	EFXE-081806AL	4,4	8,9	13,3	15,5	20,0	22,2	24,5
AR-081808AL	EFXE-081808AL	5,5	11,0	16,5	19,3	24,8	27,6	30,4
AR-082505AL	EFXE-082505AL	5,3	10,7	16,1	18,7	24,1	26,8	29,5
AR-082508AL	EFXE-082508AL	7,1	14,2	21,4	24,9	32,1	35,7	39,2
AQ-101008AL	EFXE-101008AL	4,3	8,7	13,0	15,2	19,6	21,7	23,9
AR-101508AL	EFXE-101508AL	5,5	11,1	16,6	19,4	24,9	27,7	30,5
AR-101608AL	EFXE-101608AL	5,7	11,5	17,3	20,2	26,0	28,9	31,8
AR-102008AL	EFXE-102008AL	6,7	13,4	20,1	23,5	30,2	33,5	36,9
AQ-121208AL	EFXE-121208AL	5,4	10,8	16,2	18,9	24,3	27,0	29,7
AR-122209AL	EFXE-122209AL	8,4	16,8	25,3	29,5	37,9	42,1	46,3
AQ-141409AL	EFXE-141409AL	6,8	13,7	20,6	24,1	31,0	34,4	37,9
AR-142009AL	EFXE-142009AL	8,5	17,1	25,7	30,0	38,5	42,8	47,1
AQ-161609AL	EFXE-161609AL	8,6	17,2	25,8	30,1	38,7	43,0	47,3
AR-162410AL	EFXE-162410AL	11,0	22,1	33,1	38,7	49,7	55,3	60,8
AR-162609AL	EFXE-162609AL	10,9	21,9	32,8	38,3	49,3	54,8	60,2
AQ-181810AL	EFXE-181810AL	9,8	19,7	29,6	34,5	44,4	49,3	54,3
AR-182810AL	EFXE-182810AL	13,0	26,1	39,1	45,7	58,7	65,2	71,8
AR-202311AL	EFXE-202311AL	12,9	25,8	38,7	45,1	58,0	64,5	71,0
AR-202318AL	EFXE-202318AL	17,7	35,5	53,3	62,2	80,0	88,9	97,8
AR-232811AL	EFXE-232811AL	15,8	31,6	47,5	55,4	71,3	79,2	87,1
AR-233312AL	EFXE-233312AL	18,5	37,0	55,6	64,8	83,4	92,7	101,9
AR-233318AL	EFXE-233318AL	23,7	47,5	71,3	83,2	107,0	118,9	130,8

Enclosure types (aluminium)		Maximum power dissipation (W) – Tamb. up to **55**°C						
		INTERNAL TEMP.65°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
AQ-080806AL	EFXE-080806AL	2,6	3,9	6,5	7,8	10,4	11,7	13,0
AR-081306AL	EFXE-081306AL	3,5	5,3	8,8	10,6	14,1	15,9	17,7
AR-081806AL	EFXE-081806AL	4,4	6,6	11,1	13,3	17,8	20,0	22,2
AR-081808AL	EFXE-081808AL	5,5	8,2	13,8	16,5	22,1	24,8	27,6
AR-082505AL	EFXE-082505AL	5,3	8,0	13,4	16,1	21,4	24,1	26,8
AR-082508AL	EFXE-082508AL	7,1	10,7	17,8	21,4	28,5	32,1	35,7
AQ-101008AL	EFXE-101008AL	4,3	6,5	10,8	13,0	17,4	19,6	21,7
AR-101508AL	EFXE-101508AL	5,5	8,3	13,8	16,6	22,2	24,9	27,7
AR-101608AL	EFXE-101608AL	5,7	8,6	14,4	17,3	23,1	26,0	28,9
AR-102008AL	EFXE-102008AL	6,7	10,0	16,7	20,1	26,8	30,2	33,5
AQ-121208AL	EFXE-121208AL	5,4	8,1	13,5	16,2	21,6	24,3	27,0
AR-122209AL	EFXE-122209AL	8,4	12,6	21,0	25,3	33,7	37,9	42,1
AQ-141409AL	EFXE-141409AL	6,8	10,3	17,2	20,6	27,5	31,0	34,4
AR-142009AL	EFXE-142009AL	8,5	12,8	21,4	25,7	34,2	38,5	42,8
AQ-161609AL	EFXE-161609AL	8,6	12,9	21,5	25,8	34,4	38,7	43,0
AR-162410AL	EFXE-162410AL	11,0	16,5	27,6	33,1	44,2	49,7	55,3
AR-162609AL	EFXE-162609AL	10,9	16,4	27,4	32,8	43,8	49,3	54,8
AQ-181810AL	EFXE-181810AL	9,8	14,8	24,6	29,6	39,5	44,4	49,3
AR-182810AL	EFXE-182810AL	13,0	19,5	32,6	39,1	52,2	58,7	65,2
AR-202311AL	EFXE-202311AL	12,9	19,3	32,2	38,7	51,6	58,0	64,5
AR-202318AL	EFXE-202318AL	17,7	26,6	44,4	53,3	71,1	80,0	88,9
AR-232811AL	EFXE-232811AL	15,8	23,7	39,6	47,5	63,3	71,3	79,2
AR-233312AL	EFXE-233312AL	18,5	27,8	46,3	55,6	74,1	83,4	92,7
AR-233318AL	EFXE-233318AL	23,7	35,6	59,4	71,3	95,1	107,0	118,9

Enclosure types (aluminium)		Maximum power dissipation (W) – Tamb. up to **60**°C					
		INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
AQ-080806AL	EFXE-080806AL	2,6	5,2	6,5	9,1	10,4	11,7
AR-081306AL	EFXE-081306AL	3,5	7,0	8,8	12,3	14,1	15,9
AR-081806AL	EFXE-081806AL	4,4	8,9	11,1	15,5	17,8	20,0
AR-081808AL	EFXE-081808AL	5,5	11,0	13,8	19,3	22,1	24,8
AR-082505AL	EFXE-082505AL	5,3	10,7	13,4	18,7	21,4	24,1
AR-082508AL	EFXE-082508AL	7,1	14,2	17,8	24,9	28,5	32,1
AQ-101008AL	EFXE-101008AL	4,3	8,7	10,8	15,2	17,4	19,6
AR-101508AL	EFXE-101508AL	5,5	11,1	13,8	19,4	22,2	24,9
AR-101608AL	EFXE-101608AL	5,7	11,5	14,4	20,2	23,1	26,0
AR-102008AL	EFXE-102008AL	6,7	13,4	16,7	23,5	26,8	30,2
AQ-121208AL	EFXE-121208AL	5,4	10,8	13,5	18,9	21,6	24,3
AR-122209AL	EFXE-122209AL	8,4	16,8	21,0	29,5	33,7	37,9
AQ-141409AL	EFXE-141409AL	6,8	13,7	17,2	24,1	27,5	31,0
AR-142009AL	EFXE-142009AL	8,5	17,1	21,4	30,0	34,2	38,5
AQ-161609AL	EFXE-161609AL	8,6	17,2	21,5	30,1	34,4	38,7
AR-162410AL	EFXE-162410AL	11,0	22,1	27,6	38,7	44,2	49,7
AR-162609AL	EFXE-162609AL	10,9	21,9	27,4	38,3	43,8	49,3
AQ-181810AL	EFXE-181810AL	9,8	19,7	24,6	34,5	39,5	44,4
AR-182810AL	EFXE-182810AL	13,0	26,1	32,6	45,7	52,2	58,7
AR-202311AL	EFXE-202311AL	12,9	25,8	32,2	45,1	51,6	58,0
AR-202318AL	EFXE-202318AL	17,7	35,5	44,4	62,2	71,1	80,0
AR-232811AL	EFXE-232811AL	15,8	31,6	39,6	55,4	63,3	71,3
AR-233312AL	EFXE-233312AL	18,5	37,0	46,3	64,8	74,1	83,4
AR-233318AL	EFXE-233318AL	23,7	47,5	59,4	83,2	95,1	107,0

Enclosure types (aluminium)		Maximum power dissipation (W) – Tamb. up to **95**°C	
		INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
AQ-080806AL	EFXE-080806AL	1,3	2,6
AR-081306AL	EFXE-081306AL	1,7	3,5
AR-081806AL	EFXE-081806AL	2,2	4,4
AR-081808AL	EFXE-081808AL	2,7	5,5
AR-082505AL	EFXE-082505AL	2,6	5,3
AR-082508AL	EFXE-082508AL	3,5	7,1
AQ-101008AL	EFXE-101008AL	2,1	4,3
AR-101508AL	EFXE-101508AL	2,7	5,5
AR-101608AL	EFXE-101608AL	2,8	5,7
AR-102008AL	EFXE-102008AL	3,3	6,7
AQ-121208AL	EFXE-121208AL	2,7	5,4
AR-122209AL	EFXE-122209AL	4,2	8,4
AQ-141409AL	EFXE-141409AL	3,4	6,8
AR-142009AL	EFXE-142009AL	4,2	8,5
AQ-161609AL	EFXE-161609AL	4,3	8,6
AR-162410AL	EFXE-162410AL	5,5	11,0
AR-162609AL	EFXE-162609AL	5,4	10,9
AQ-181810AL	EFXE-181810AL	4,9	9,8
AR-182810AL	EFXE-182810AL	6,5	13,0
AR-202311AL	EFXE-202311AL	6,4	12,9
AR-202318AL	EFXE-202318AL	8,8	17,7
AR-232811AL	EFXE-232811AL	7,9	15,8
AR-233312AL	EFXE-233312AL	9,2	18,5
AR-233318AL	EFXE-233318AL	11,8	23,7

Power dissipation – Stainless steel enclosures SB series

Enclosure types (stainless steel)		Maximum power dissipation (W) – Tamb. up to **40**°C						
		INTERNAL TEMP.60°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
SB-101210	EFXE-101210SB	5,5	8,3	11,1	12,5	15,3	16,7	18,1
SB-151510	EFXE-151510SB	8,0	12,0	16,0	18,0	22,0	24,0	26,1
SB-142013	EFXE-142013SB	10,4	15,7	20,9	23,5	28,8	31,4	34,0
SB-202010	EFXE-202010SB	10,7	16,1	21,4	24,1	29,5	32,2	34,8
SB-202016	EFXE-202016SB	13,9	20,8	27,8	31,3	38,3	41,7	45,2
SB-202713	EFXE-202713SB	14,4	21,6	28,9	32,5	39,7	43,3	46,9
SB-272713	EFXE-272713SB	16,7	25,1	33,5	37,7	46,0	50,2	54,4
SB-203016	EFXE-203016SB	17,1	25,7	34,3	38,6	47,2	51,4	55,7
SB-273513	EFXE-273513SB	19,2	28,9	38,5	43,3	53,0	57,8	62,6
SB-282816	EFXE-282816SB	19,3	29,0	38,7	43,6	53,3	58,1	63,0
SB-204016	EFXE-204016SB	20,2	30,3	40,4	45,5	55,6	60,6	65,7
SB-353516	EFXE-353516SB	24,4	36,6	48,8	54,9	67,1	73,2	79,3
SB-282827	EFXE-282827SB	26,2	39,3	52,5	59,0	72,2	78,7	85,3
SB-355016	EFXE-355016SB	29,7	44,5	59,4	66,8	81,7	89,1	96,6
SB-383816	EFXE-383816SB	26,6	39,9	53,2	59,8	73,1	79,8	86,5
SB-384516	EFXE-384516SB	29,1	43,7	58,3	65,6	80,2	87,5	94,8
SB-385716	EFXE-385716SB	33,4	50,1	66,8	75,2	91,9	100,3	108,7
SB-505016	EFXE-505016SB	35,8	53,8	71,7	80,7	98,6	107,6	116,6
SB-383827	EFXE-383827SB	35,1	52,7	70,2	79,0	96,6	105,4	114,2
SB-575716	EFXE-575716SB	41,5	62,3	83,1	93,5	114,3	124,7	135,1
SB-577620	EFXE-577620SB	53,9	80,9	107,9	121,3	148,3	161,8	175,3
SB-575730	EFXE-575730SB	55,8	83,7	111,6	125,6	153,5	167,5	181,4
SB-769520	EFXE-769520SB	72,2	108,3	144,4	162,4	198,5	216,6	234,6
SB-1258040	EFXE-1258040SB	72,2	108,3	144,4	162,4	198,5	216,6	234,6

Enclosure types (Stainless steel)		Maximum power dissipation (W) – Tamb. up to **50**°C						
		INTERNAL TEMP.60°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
SB-101210	EFXE-101210SB	2,7	5,5	8,3	9,7	12,5	13,9	15,3
SB-151510	EFXE-151510SB	4,0	8,0	12,0	14,0	18,0	20,0	22,0
SB-142013	EFXE-142013SB	5,2	10,4	15,7	18,3	23,5	26,2	28,8
SB-202010	EFXE-202010SB	5,3	10,7	16,1	18,7	24,1	26,8	29,5
SB-202016	EFXE-202016SB	6,9	13,9	20,8	24,3	31,3	34,8	38,3
SB-202713	EFXE-202713SB	7,2	14,4	21,6	25,2	32,5	36,1	39,7
SB-272713	EFXE-272713SB	8,3	16,7	25,1	29,3	37,7	41,8	46,0
SB-203016	EFXE-203016SB	8,5	17,1	25,7	30,0	38,6	42,9	47,2
SB-273513	EFXE-273513SB	9,6	19,2	28,9	33,7	43,3	48,2	53,0
SB-282816	EFXE-282816SB	9,6	19,3	29,0	33,9	43,6	48,4	53,3
SB-204016	EFXE-204016SB	10,1	20,2	30,3	35,4	45,5	50,5	55,6
SB-353516	EFXE-353516SB	12,2	24,4	36,6	42,7	54,9	61,0	67,1
SB-282827	EFXE-282827SB	13,1	26,2	39,3	45,9	59,0	65,6	72,2
SB-355016	EFXE-355016SB	14,8	29,7	44,5	52,0	66,8	74,3	81,7
SB-383816	EFXE-383816SB	13,3	26,6	39,9	46,5	59,8	66,5	73,1
SB-384516	EFXE-384516SB	14,5	29,1	43,7	51,0	65,6	72,9	80,2
SB-385716	EFXE-385716SB	16,7	33,4	50,1	58,5	75,2	83,6	91,9
SB-505016	EFXE-505016SB	17,9	35,8	53,8	62,7	80,7	89,7	98,6
SB-383827	EFXE-383827SB	17,5	35,1	52,7	61,4	79,0	87,8	96,6
SB-575716	EFXE-575716SB	20,7	41,5	62,3	72,7	93,5	103,9	114,3
SB-577620	EFXE-577620SB	26,9	53,9	80,9	94,4	121,3	134,8	148,3
SB-575730	EFXE-575730SB	27,9	55,8	83,7	97,7	125,6	139,5	153,5
SB-769520	EFXE-769520SB	36,1	72,2	108,3	126,3	162,4	180,5	198,5
SB-1258040	EFXE-1258040SB	36,1	72,2	108,3	126,3	162,4	180,5	198,5

Enclosure types (Stainless steel)		Maximum power dissipation (W) – Tamb. up to **55**°C						
		INTERNAL TEMP.65°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
SB-101210	EFXE-101210SB	2,7	4,1	6,9	8,3	11,1	12,5	13,9
SB-151510	EFXE-151510SB	4,0	6,0	10,0	12,0	16,0	18,0	20,0
SB-142013	EFXE-142013SB	5,2	7,8	13,1	15,7	20,9	23,5	26,2
SB-202010	EFXE-202010SB	5,3	8,0	13,4	16,1	21,4	24,1	26,8
SB-202016	EFXE-202016SB	6,9	10,4	17,4	20,8	27,8	31,3	34,8
SB-202713	EFXE-202713SB	7,2	10,8	18,0	21,6	28,9	32,5	36,1
SB-272713	EFXE-272713SB	8,3	12,5	20,9	25,1	33,5	37,7	41,8
SB-203016	EFXE-203016SB	8,5	12,8	21,4	25,7	34,3	38,6	42,9
SB-273513	EFXE-273513SB	9,6	14,4	24,1	28,9	38,5	43,3	48,2
SB-282816	EFXE-282816SB	9,6	14,5	24,2	29,0	38,7	43,6	48,4
SB-204016	EFXE-204016SB	10,1	15,1	25,2	30,3	40,4	45,5	50,5
SB-353516	EFXE-353516SB	12,2	18,3	30,5	36,6	48,8	54,9	61,0
SB-282827	EFXE-282827SB	13,1	19,6	32,8	39,3	52,5	59,0	65,6
SB-355016	EFXE-355016SB	14,8	22,2	37,1	44,5	59,4	66,8	74,3
SB-383816	EFXE-383816SB	13,3	19,9	33,2	39,9	53,2	59,8	66,5
SB-384516	EFXE-384516SB	14,5	21,8	36,4	43,7	58,3	65,6	72,9
SB-385716	EFXE-385716SB	16,7	25,0	41,8	50,1	66,8	75,2	83,6
SB-505016	EFXE-505016SB	17,9	26,9	44,8	53,8	71,7	80,7	89,7
SB-383827	EFXE-383827SB	17,5	26,3	43,9	52,7	70,2	79,0	87,8
SB-575716	EFXE-575716SB	20,7	31,1	51,9	62,3	83,1	93,5	103,9
SB-577620	EFXE-577620SB	26,9	40,4	67,4	80,9	107,9	121,3	134,8
SB-575730	EFXE-575730SB	27,9	41,8	69,7	83,7	111,6	125,6	139,5
SB-769520	EFXE-769520SB	36,1	54,1	90,2	108,3	144,4	162,4	180,5
SB-1258040	EFXE-1258040SB	36,1	54,1	90,2	108,3	144,4	162,4	180,5

Enclosure types (Stainless steel)		Maximum power dissipation (W) – Tamb. up to **60**°C					
		INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
SB-101210	EFXE-101210SB	2,7	5,5	6,9	9,7	11,1	12,5
SB-151510	EFXE-151510SB	4,0	8,0	10,0	14,0	16,0	18,0
SB-142013	EFXE-142013SB	5,2	10,4	13,1	18,3	20,9	23,5
SB-202010	EFXE-202010SB	5,3	10,7	13,4	18,7	21,4	24,1
SB-202016	EFXE-202016SB	6,9	13,9	17,4	24,3	27,8	31,3
SB-202713	EFXE-202713SB	7,2	14,4	18,0	25,2	28,9	32,5
SB-272713	EFXE-272713SB	8,3	16,7	20,9	29,3	33,5	37,7
SB-203016	EFXE-203016SB	8,5	17,1	21,4	30,0	34,3	38,6
SB-273513	EFXE-273513SB	9,6	19,2	24,1	33,7	38,5	43,3
SB-282816	EFXE-282816SB	9,6	19,3	24,2	33,9	38,7	43,6
SB-204016	EFXE-204016SB	10,1	20,2	25,2	35,4	40,4	45,5
SB-353516	EFXE-353516SB	12,2	24,4	30,5	42,7	48,8	54,9
SB-282827	EFXE-282827SB	13,1	26,2	32,8	45,9	52,5	59,0
SB-355016	EFXE-355016SB	14,8	29,7	37,1	52,0	59,4	66,8
SB-383816	EFXE-383816SB	13,3	26,6	33,2	46,5	53,2	59,8
SB-384516	EFXE-384516SB	14,5	29,1	36,4	51,0	58,3	65,6
SB-385716	EFXE-385716SB	16,7	33,4	41,8	58,5	66,8	75,2
SB-505016	EFXE-505016SB	17,9	35,8	44,8	62,7	71,7	80,7
SB-383827	EFXE-383827SB	17,5	35,1	43,9	61,4	70,2	79,0
SB-575716	EFXE-575716SB	20,7	41,5	51,9	72,7	83,1	93,5
SB-577620	EFXE-577620SB	26,9	53,9	67,4	94,4	107,9	121,3
SB-575730	EFXE-575730SB	27,9	55,8	69,7	97,7	111,6	125,6
SB-769520	EFXE-769520SB	36,1	72,2	90,2	126,3	144,4	162,4
SB-1258040	EFXE-1258040SB	36,1	72,2	90,2	126,3	144,4	162,4

Enclosure types (Stainless steel)		Maximum power dissipation (W) – Tamb. up to **95**°C	
		INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
SB-101210	EFXE-101210SB	1,3	2,7
SB-151510	EFXE-151510SB	2,0	4,0
SB-142013	EFXE-142013SB	2,6	5,2
SB-202010	EFXE-202010SB	2,6	5,3
SB-202016	EFXE-202016SB	3,4	6,9
SB-202713	EFXE-202713SB	3,6	7,2
SB-272713	EFXE-272713SB	4,1	8,3
SB-203016	EFXE-203016SB	4,2	8,5
SB-273513	EFXE-273513SB	4,8	9,6
SB-282816	EFXE-282816SB	4,8	9,6
SB-204016	EFXE-204016SB	5,0	10,1
SB-353516	EFXE-353516SB	6,1	12,2
SB-282827	EFXE-282827SB	6,5	13,1
SB-355016	EFXE-355016SB	7,4	14,8
SB-383816	EFXE-383816SB	6,6	13,3
SB-384516	EFXE-384516SB	7,2	14,5
SB-385716	EFXE-385716SB	8,3	16,7
SB-505016	EFXE-505016SB	8,9	17,9
SB-383827	EFXE-383827SB	8,7	17,5
SB-575716	EFXE-575716SB	10,3	20,7
SB-577620	EFXE-577620SB	13,4	26,9
SB-575730	EFXE-575730SB	13,9	27,9
SB-769520	EFXE-769520SB	18,0	36,1
SB-1258040	EFXE-1258040SB	18,0	36,1

Power dissipation – Stainless steel enclosures ST series

Enclosure types (Stainless steel)		Maximum power dissipation (W) – Tamb. up to **40**°C						
		INTERNAL TEMP.60°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
ST-101210	EFXE-101210ST	5,5	8,3	11,1	12,5	15,3	16,7	18,1
ST-151510	EFXE-151510ST	8,0	12,0	16,0	18,0	22,0	24,0	26,1
ST-142013	EFXE-142013ST	10,4	15,7	20,9	23,5	28,8	31,4	34,0
ST-202010	EFXE-202010ST	10,7	16,1	21,4	24,1	29,5	32,2	34,8
ST-202016	EFXE-202016ST	13,9	20,8	27,8	31,3	38,3	41,7	45,2
ST-202713	EFXE-202713ST	14,4	21,6	28,9	32,5	39,7	43,3	46,9
ST-272713	EFXE-272713ST	16,7	25,1	33,5	37,7	46,0	50,2	54,4
ST-203016	EFXE-203016ST	17,1	25,7	34,3	38,6	47,2	51,4	55,7
ST-273513	EFXE-273513ST	19,2	28,9	38,5	43,3	53,0	57,8	62,6
ST-282816	EFXE-282816ST	19,3	29,0	38,7	43,6	53,3	58,1	63,0
ST-204016	EFXE-204016ST	20,2	30,3	40,4	45,5	55,6	60,6	65,7
ST-353516	EFXE-353516ST	24,4	36,6	48,8	54,9	67,1	73,2	79,3
ST-282827	EFXE-282827ST	26,2	39,3	52,5	59,0	72,2	78,7	85,3
ST-355016	EFXE-355016ST	29,7	44,5	59,4	66,8	81,7	89,1	96,6
ST-383816	EFXE-383816ST	26,6	39,9	53,2	59,8	73,1	79,8	86,5
ST-384516	EFXE-384516ST	29,1	43,7	58,3	65,6	80,2	87,5	94,8
ST-385716	EFXE-385716ST	33,4	50,1	66,8	75,2	91,9	100,3	108,7
ST-505016	EFXE-505016ST	35,8	53,8	71,7	80,7	98,6	107,6	116,6
ST-383827	EFXE-383827ST	35,1	52,7	70,2	79,0	96,6	105,4	114,2
ST-575716	EFXE-575716ST	41,5	62,3	83,1	93,5	114,3	124,7	135,1
ST-577620	EFXE-577620ST	53,9	80,9	107,9	121,3	148,3	161,8	175,3
ST-575730	EFXE-575730ST	55,8	83,7	111,6	125,6	153,5	167,5	181,4
ST-769520	EFXE-769520ST	72,2	108,3	144,4	162,4	198,5	216,6	234,6
ST-1258040	EFXE-1258040ST	72,2	108,3	144,4	162,4	198,5	216,6	234,6

Enclosure types (Stainless steel)		Maximum power dissipation (W) – Tamb. up to **50**°C						
		INTERNAL TEMP.60°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
ST-101210	EFXE-101210ST	2,7	5,5	8,3	9,7	12,5	13,9	15,3
ST-151510	EFXE-151510ST	4,0	8,0	12,0	14,0	18,0	20,0	22,0
ST-142013	EFXE-142013ST	5,2	10,4	15,7	18,3	23,5	26,2	28,8
ST-202010	EFXE-202010ST	5,3	10,7	16,1	18,7	24,1	26,8	29,5
ST-202016	EFXE-202016ST	6,9	13,9	20,8	24,3	31,3	34,8	38,3
ST-202713	EFXE-202713ST	7,2	14,4	21,6	25,2	32,5	36,1	39,7
ST-272713	EFXE-272713ST	8,3	16,7	25,1	29,3	37,7	41,8	46,0
ST-203016	EFXE-203016ST	8,5	17,1	25,7	30,0	38,6	42,9	47,2
ST-273513	EFXE-273513ST	9,6	19,2	28,9	33,7	43,3	48,2	53,0
ST-282816	EFXE-282816ST	9,6	19,3	29,0	33,9	43,6	48,4	53,3
ST-204016	EFXE-204016ST	10,1	20,2	30,3	35,4	45,5	50,5	55,6
ST-353516	EFXE-353516ST	12,2	24,4	36,6	42,7	54,9	61,0	67,1
ST-282827	EFXE-282827ST	13,1	26,2	39,3	45,9	59,0	65,6	72,2
ST-355016	EFXE-355016ST	14,8	29,7	44,5	52,0	66,8	74,3	81,7
ST-383816	EFXE-383816ST	13,3	26,6	39,9	46,5	59,8	66,5	73,1
ST-384516	EFXE-384516ST	14,5	29,1	43,7	51,0	65,6	72,9	80,2
ST-385716	EFXE-385716ST	16,7	33,4	50,1	58,5	75,2	83,6	91,9
ST-505016	EFXE-505016ST	17,9	35,8	53,8	62,7	80,7	89,7	98,6
ST-383827	EFXE-383827ST	17,5	35,1	52,7	61,4	79,0	87,8	96,6
ST-575716	EFXE-575716ST	20,7	41,5	62,3	72,7	93,5	103,9	114,3
ST-577620	EFXE-577620ST	26,9	53,9	80,9	94,4	121,3	134,8	148,3
ST-575730	EFXE-575730ST	27,9	55,8	83,7	97,7	125,6	139,5	153,5
ST-769520	EFXE-769520ST	36,1	72,2	108,3	126,3	162,4	180,5	198,5
ST-1258040	EFXE-1258040ST	36,1	72,2	108,3	126,3	162,4	180,5	198,5

Enclosure types (Stainless steel)		Maximum power dissipation (W) – Tamb. up to **55**°C						
		INTERNAL TEMP.65°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
ST-101210	EFXE-101210ST	2,7	4,1	6,9	8,3	11,1	12,5	13,9
ST-151510	EFXE-151510ST	4,0	6,0	10,0	12,0	16,0	18,0	20,0
ST-142013	EFXE-142013ST	5,2	7,8	13,1	15,7	20,9	23,5	26,2
ST-202010	EFXE-202010ST	5,3	8,0	13,4	16,1	21,4	24,1	26,8
ST-202016	EFXE-202016ST	6,9	10,4	17,4	20,8	27,8	31,3	34,8
ST-202713	EFXE-202713ST	7,2	10,8	18,0	21,6	28,9	32,5	36,1
ST-272713	EFXE-272713ST	8,3	12,5	20,9	25,1	33,5	37,7	41,8
ST-203016	EFXE-203016ST	8,5	12,8	21,4	25,7	34,3	38,6	42,9
ST-273513	EFXE-273513ST	9,6	14,4	24,1	28,9	38,5	43,3	48,2
ST-282816	EFXE-282816ST	9,6	14,5	24,2	29,0	38,7	43,6	48,4
ST-204016	EFXE-204016ST	10,1	15,1	25,2	30,3	40,4	45,5	50,5
ST-353516	EFXE-353516ST	12,2	18,3	30,5	36,6	48,8	54,9	61,0
ST-282827	EFXE-282827ST	13,1	19,6	32,8	39,3	52,5	59,0	65,6
ST-355016	EFXE-355016ST	14,8	22,2	37,1	44,5	59,4	66,8	74,3
ST-383816	EFXE-383816ST	13,3	19,9	33,2	39,9	53,2	59,8	66,5
ST-384516	EFXE-384516ST	14,5	21,8	36,4	43,7	58,3	65,6	72,9
ST-385716	EFXE-385716ST	16,7	25,0	41,8	50,1	66,8	75,2	83,6
ST-505016	EFXE-505016ST	17,9	26,9	44,8	53,8	71,7	80,7	89,7
ST-383827	EFXE-383827ST	17,5	26,3	43,9	52,7	70,2	79,0	87,8
ST-575716	EFXE-575716ST	20,7	31,1	51,9	62,3	83,1	93,5	103,9
ST-577620	EFXE-577620ST	26,9	40,4	67,4	80,9	107,9	121,3	134,8
ST-575730	EFXE-575730ST	27,9	41,8	69,7	83,7	111,6	125,6	139,5
ST-769520	EFXE-769520ST	36,1	54,1	90,2	108,3	144,4	162,4	180,5
ST-1258040	EFXE-1258040ST	36,1	54,1	90,2	108,3	144,4	162,4	180,5

Enclosure types (Stainless steel)		Maximum power dissipation (W) – Tamb. up to **60**°C					
		INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
ST-101210	EFXE-101210ST	2,7	5,5	6,9	9,7	11,1	12,5
ST-151510	EFXE-151510ST	4,0	8,0	10,0	14,0	16,0	18,0
ST-142013	EFXE-142013ST	5,2	10,4	13,1	18,3	20,9	23,5
ST-202010	EFXE-202010ST	5,3	10,7	13,4	18,7	21,4	24,1
ST-202016	EFXE-202016ST	6,9	13,9	17,4	24,3	27,8	31,3
ST-202713	EFXE-202713ST	7,2	14,4	18,0	25,2	28,9	32,5
ST-272713	EFXE-272713ST	8,3	16,7	20,9	29,3	33,5	37,7
ST-203016	EFXE-203016ST	8,5	17,1	21,4	30,0	34,3	38,6
ST-273513	EFXE-273513ST	9,6	19,2	24,1	33,7	38,5	43,3
ST-282816	EFXE-282816ST	9,6	19,3	24,2	33,9	38,7	43,6
ST-204016	EFXE-204016ST	10,1	20,2	25,2	35,4	40,4	45,5
ST-353516	EFXE-353516ST	12,2	24,4	30,5	42,7	48,8	54,9
ST-282827	EFXE-282827ST	13,1	26,2	32,8	45,9	52,5	59,0
ST-355016	EFXE-355016ST	14,8	29,7	37,1	52,0	59,4	66,8
ST-383816	EFXE-383816ST	13,3	26,6	33,2	46,5	53,2	59,8
ST-384516	EFXE-384516ST	14,5	29,1	36,4	51,0	58,3	65,6
ST-385716	EFXE-385716ST	16,7	33,4	41,8	58,5	66,8	75,2
ST-505016	EFXE-505016ST	17,9	35,8	44,8	62,7	71,7	80,7
ST-383827	EFXE-383827ST	17,5	35,1	43,9	61,4	70,2	79,0
ST-575716	EFXE-575716ST	20,7	41,5	51,9	72,7	83,1	93,5
ST-577620	EFXE-577620ST	26,9	53,9	67,4	94,4	107,9	121,3
ST-575730	EFXE-575730ST	27,9	55,8	69,7	97,7	111,6	125,6
ST-769520	EFXE-769520ST	36,1	72,2	90,2	126,3	144,4	162,4
ST-1258040	EFXE-1258040ST	36,1	72,2	90,2	126,3	144,4	162,4

Enclosure types (Stainless steel)		Maximum power dissipation (W) – Tamb. up to **95**°C	
		INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
ST-101210	EFXE-101210ST	1,3	2,7
ST-151510	EFXE-151510ST	2,0	4,0
ST-142013	EFXE-142013ST	2,6	5,2
ST-202010	EFXE-202010ST	2,6	5,3
ST-202016	EFXE-202016ST	3,4	6,9
ST-202713	EFXE-202713ST	3,6	7,2
ST-272713	EFXE-272713ST	4,1	8,3
ST-203016	EFXE-203016ST	4,2	8,5
ST-273513	EFXE-273513ST	4,8	9,6
ST-282816	EFXE-282816ST	4,8	9,6
ST-204016	EFXE-204016ST	5,0	10,1
ST-353516	EFXE-353516ST	6,1	12,2
ST-282827	EFXE-282827ST	6,5	13,1
ST-355016	EFXE-355016ST	7,4	14,8
ST-383816	EFXE-383816ST	6,6	13,3
ST-384516	EFXE-384516ST	7,2	14,5
ST-385716	EFXE-385716ST	8,3	16,7
ST-505016	EFXE-505016ST	8,9	17,9
ST-383827	EFXE-383827ST	8,7	17,5
ST-575716	EFXE-575716ST	10,3	20,7
ST-577620	EFXE-577620ST	13,4	26,9
ST-575730	EFXE-575730ST	13,9	27,9
ST-769520	EFXE-769520ST	18,0	36,1
ST-1258040	EFXE-1258040ST	18,0	36,1

Maximum Power Dissipation calculation

The values specified in the tables as per clause 2.1.1 may be modified within the maximum admitted Tamb and maximum admitted internal temperature as follows.

$$Pdiss\ (W) = \frac{Tmax - Tamb}{Rth}$$

$Rth = A \times (\text{enclosure surface in } mm^2 \text{ except enclosure bottom})^B$

Legend:
Rth – Thermal resistance [K/W].
Tmax – Maximum allowed temperature inside enclosure.
Tamb – Ambient temperature of enclosure
A and B - coefficients determined for each series of enclosure. Exact values are given in manufacturer's documentation.

Warning labels:

WARNING – DO NOT OPEN WHEN ENERGIZED (*)
(*) Not mandatory for apparatus with protection type Ex ia Ga and Ex ib Gb.

WARNING – POTENTIAL ELECTROSTATIC CHARGING HAZARD – SEE INSTRUCTIONS

To be added when the enclosures or parts of them have a surface resistance more than 10^9 Ω or 10^{11} Ω according to IEC 60079-0 Clause 7.4.2 a), as applicable, and as per following cases:

- are equipped with transparent parts made of polycarbonate.
- for category II 2 G / EPL Gb Gas group IIC: are painted and the paint layer thickness is > 0.2mm.
- for category II 2 G / EPL Gb Gas group IIB: are painted and the paint layer thickness is > 2mm.
- for category II 2 D / EPL Db: are painted and the paint layer thickness is > 2mm.
- for category II 2 G / EPL Gb Gas group IIC: not conductive individual materials (labels), applied on painted enclosures, have exposed (chargeable area) > 2000mm^2 or, not conductive individual materials (labels), applied on unpainted (conductive earthed surface) enclosures, have exposed (chargeable area) > 8000mm^2.
- for category II 2 G /EPL Gb Gas group IIB: not conductive individual materials (labels), applied on painted enclosures, have exposed (chargeable area) > 10000mm^2 or, not conductive individual materials (labels), applied on unpainted (conductive earthed surface) enclosures, have exposed (chargeable area) > 40000mm^2.

OPEN THE VALVE ONLY WHEN THE APPARATUS IS DE-ENERGIZED AND ONLY WHEN AN EXPLOSIVE DUST ATMOSPHERE IS NOT PRESENT
To be added on Ex tb apparatus equipped with the drain / venting device ECR3.

Other warnings depend on the components actually mounted, according to the component manufacturer's documentation.

The tables below state the maximum power dissipation values (W) related to the internal temperature (Tint) and ambient temperature (Tamb).

Enclosure types (aluminium)		Maximum power dissipation (W) – Tamb. up to **95**°C	
		INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
AQ-080806AL	EFXE-080806AL	1,3	2,6
AR-081306AL	EFXE-081306AL	1,7	3,5
AR-081806AL	EFXE-081806AL	2,2	4,4
AR-081808AL	EFXE-081808AL	2,7	5,5
AR-082505AL	EFXE-082505AL	2,6	5,3
AR-082508AL	EFXE-082508AL	3,5	7,1
AQ-101008AL	EFXE-101008AL	2,1	4,3
AR-101508AL	EFXE-101508AL	2,7	5,5
AR-101608AL	EFXE-101608AL	2,8	5,7
AR-102008AL	EFXE-102008AL	3,3	6,7
AQ-121208AL	EFXE-121208AL	2,7	5,4
AR-122209AL	EFXE-122209AL	4,2	8,4
AQ-141409AL	EFXE-141409AL	3,4	6,8
AR-142009AL	EFXE-142009AL	4,2	8,5
AQ-161609AL	EFXE-161609AL	4,3	8,6
AR-162410AL	EFXE-162410AL	5,5	11,0
AR-162609AL	EFXE-162609AL	5,4	10,9
AQ-181810AL	EFXE-181810AL	4,9	9,8
AR-182810AL	EFXE-182810AL	6,5	13,0
AR-202311AL	EFXE-202311AL	6,4	12,9
AR-202318AL	EFXE-202318AL	8,8	17,7
AR-232811AL	EFXE-232811AL	7,9	15,8
AR-233312AL	EFXE-233312AL	9,2	18,5
AR-233318AL	EFXE-233318AL	11,8	23,7

Power dissipation – Stainless steel enclosures SB series

Enclosure types (stainless steel)		Maximum power dissipation (W) – Tamb. up to **40**°C						
		INTERNAL TEMP.60°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
SB-101210	EFXE-101210SB	5,5	8,3	11,1	12,5	15,3	16,7	18,1
SB-151510	EFXE-151510SB	8,0	12,0	16,0	18,0	22,0	24,0	26,1
SB-142013	EFXE-142013SB	10,4	15,7	20,9	23,5	28,8	31,4	34,0
SB-202010	EFXE-202010SB	10,7	16,1	21,4	24,1	29,5	32,2	34,8
SB-202016	EFXE-202016SB	13,9	20,8	27,8	31,3	38,3	41,7	45,2
SB-202713	EFXE-202713SB	14,4	21,6	28,9	32,5	39,7	43,3	46,9
SB-272713	EFXE-272713SB	16,7	25,1	33,5	37,7	46,0	50,2	54,4
SB-203016	EFXE-203016SB	17,1	25,7	34,3	38,6	47,2	51,4	55,7
SB-273513	EFXE-273513SB	19,2	28,9	38,5	43,3	53,0	57,8	62,6
SB-282816	EFXE-282816SB	19,3	29,0	38,7	43,6	53,3	58,1	63,0
SB-204016	EFXE-204016SB	20,2	30,3	40,4	45,5	55,6	60,6	65,7
SB-353516	EFXE-353516SB	24,4	36,6	48,8	54,9	67,1	73,2	79,3
SB-282827	EFXE-282827SB	26,2	39,3	52,5	59,0	72,2	78,7	85,3
SB-355016	EFXE-355016SB	29,7	44,5	59,4	66,8	81,7	89,1	96,6
SB-383816	EFXE-383816SB	26,6	39,9	53,2	59,8	73,1	79,8	86,5
SB-384516	EFXE-384516SB	29,1	43,7	58,3	65,6	80,2	87,5	94,8
SB-385716	EFXE-385716SB	33,4	50,1	66,8	75,2	91,9	100,3	108,7
SB-505016	EFXE-505016SB	35,8	53,8	71,7	80,7	98,6	107,6	116,6
SB-383827	EFXE-383827SB	35,1	52,7	70,2	79,0	96,6	105,4	114,2
SB-575716	EFXE-575716SB	41,5	62,3	83,1	93,5	114,3	124,7	135,1
SB-577620	EFXE-577620SB	53,9	80,9	107,9	121,3	148,3	161,8	175,3
SB-575730	EFXE-575730SB	55,8	83,7	111,6	125,6	153,5	167,5	181,4
SB-769520	EFXE-769520SB	72,2	108,3	144,4	162,4	198,5	216,6	234,6
SB-1258040	EFXE-1258040SB	72,2	108,3	144,4	162,4	198,5	216,6	234,6

Enclosure types (Stainless steel)		Maximum power dissipation (W) – Tamb. up to **50**°C						
		INTERNAL TEMP.60°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
SB-101210	EFXE-101210SB	2,7	5,5	8,3	9,7	12,5	13,9	15,3
SB-151510	EFXE-151510SB	4,0	8,0	12,0	14,0	18,0	20,0	22,0
SB-142013	EFXE-142013SB	5,2	10,4	15,7	18,3	23,5	26,2	28,8
SB-202010	EFXE-202010SB	5,3	10,7	16,1	18,7	24,1	26,8	29,5
SB-202016	EFXE-202016SB	6,9	13,9	20,8	24,3	31,3	34,8	38,3
SB-202713	EFXE-202713SB	7,2	14,4	21,6	25,2	32,5	36,1	39,7
SB-272713	EFXE-272713SB	8,3	16,7	25,1	29,3	37,7	41,8	46,0
SB-203016	EFXE-203016SB	8,5	17,1	25,7	30,0	38,6	42,9	47,2
SB-273513	EFXE-273513SB	9,6	19,2	28,9	33,7	43,3	48,2	53,0
SB-282816	EFXE-282816SB	9,6	19,3	29,0	33,9	43,6	48,4	53,3
SB-204016	EFXE-204016SB	10,1	20,2	30,3	35,4	45,5	50,5	55,6
SB-353516	EFXE-353516SB	12,2	24,4	36,6	42,7	54,9	61,0	67,1
SB-282827	EFXE-282827SB	13,1	26,2	39,3	45,9	59,0	65,6	72,2
SB-355016	EFXE-355016SB	14,8	29,7	44,5	52,0	66,8	74,3	81,7
SB-383816	EFXE-383816SB	13,3	26,6	39,9	46,5	59,8	66,5	73,1
SB-384516	EFXE-384516SB	14,5	29,1	43,7	51,0	65,6	72,9	80,2
SB-385716	EFXE-385716SB	16,7	33,4	50,1	58,5	75,2	83,6	91,9
SB-505016	EFXE-505016SB	17,9	35,8	53,8	62,7	80,7	89,7	98,6
SB-383827	EFXE-383827SB	17,5	35,1	52,7	61,4	79,0	87,8	96,6
SB-575716	EFXE-575716SB	20,7	41,5	62,3	72,7	93,5	103,9	114,3
SB-577620	EFXE-577620SB	26,9	53,9	80,9	94,4	121,3	134,8	148,3
SB-575730	EFXE-575730SB	27,9	55,8	83,7	97,7	125,6	139,5	153,5
SB-769520	EFXE-769520SB	36,1	72,2	108,3	126,3	162,4	180,5	198,5
SB-1258040	EFXE-1258040SB	36,1	72,2	108,3	126,3	162,4	180,5	198,5

Enclosure types (Stainless steel)		Maximum power dissipation (W) – Tamb. up to **55**°C						
		INTERNAL TEMP.65°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
SB-101210	EFXE-101210SB	2,7	4,1	6,9	8,3	11,1	12,5	13,9
SB-151510	EFXE-151510SB	4,0	6,0	10,0	12,0	16,0	18,0	20,0
SB-142013	EFXE-142013SB	5,2	7,8	13,1	15,7	20,9	23,5	26,2
SB-202010	EFXE-202010SB	5,3	8,0	13,4	16,1	21,4	24,1	26,8
SB-202016	EFXE-202016SB	6,9	10,4	17,4	20,8	27,8	31,3	34,8
SB-202713	EFXE-202713SB	7,2	10,8	18,0	21,6	28,9	32,5	36,1
SB-272713	EFXE-272713SB	8,3	12,5	20,9	25,1	33,5	37,7	41,8
SB-203016	EFXE-203016SB	8,5	12,8	21,4	25,7	34,3	38,6	42,9
SB-273513	EFXE-273513SB	9,6	14,4	24,1	28,9	38,5	43,3	48,2
SB-282816	EFXE-282816SB	9,6	14,5	24,2	29,0	38,7	43,6	48,4
SB-204016	EFXE-204016SB	10,1	15,1	25,2	30,3	40,4	45,5	50,5
SB-353516	EFXE-353516SB	12,2	18,3	30,5	36,6	48,8	54,9	61,0
SB-282827	EFXE-282827SB	13,1	19,6	32,8	39,3	52,5	59,0	65,6
SB-355016	EFXE-355016SB	14,8	22,2	37,1	44,5	59,4	66,8	74,3
SB-383816	EFXE-383816SB	13,3	19,9	33,2	39,9	53,2	59,8	66,5
SB-384516	EFXE-384516SB	14,5	21,8	36,4	43,7	58,3	65,6	72,9
SB-385716	EFXE-385716SB	16,7	25,0	41,8	50,1	66,8	75,2	83,6
SB-505016	EFXE-505016SB	17,9	26,9	44,8	53,8	71,7	80,7	89,7
SB-383827	EFXE-383827SB	17,5	26,3	43,9	52,7	70,2	79,0	87,8
SB-575716	EFXE-575716SB	20,7	31,1	51,9	62,3	83,1	93,5	103,9
SB-577620	EFXE-577620SB	26,9	40,4	67,4	80,9	107,9	121,3	134,8
SB-575730	EFXE-575730SB	27,9	41,8	69,7	83,7	111,6	125,6	139,5
SB-769520	EFXE-769520SB	36,1	54,1	90,2	108,3	144,4	162,4	180,5
SB-1258040	EFXE-1258040SB	36,1	54,1	90,2	108,3	144,4	162,4	180,5

Enclosure types (Stainless steel)		Maximum power dissipation (W) – Tamb. up to **60**°C					
		INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
SB-101210	EFXE-101210SB	2,7	5,5	6,9	9,7	11,1	12,5
SB-151510	EFXE-151510SB	4,0	8,0	10,0	14,0	16,0	18,0
SB-142013	EFXE-142013SB	5,2	10,4	13,1	18,3	20,9	23,5
SB-202010	EFXE-202010SB	5,3	10,7	13,4	18,7	21,4	24,1
SB-202016	EFXE-202016SB	6,9	13,9	17,4	24,3	27,8	31,3
SB-202713	EFXE-202713SB	7,2	14,4	18,0	25,2	28,9	32,5
SB-272713	EFXE-272713SB	8,3	16,7	20,9	29,3	33,5	37,7
SB-203016	EFXE-203016SB	8,5	17,1	21,4	30,0	34,3	38,6
SB-273513	EFXE-273513SB	9,6	19,2	24,1	33,7	38,5	43,3
SB-282816	EFXE-282816SB	9,6	19,3	24,2	33,9	38,7	43,6
SB-204016	EFXE-204016SB	10,1	20,2	25,2	35,4	40,4	45,5
SB-353516	EFXE-353516SB	12,2	24,4	30,5	42,7	48,8	54,9
SB-282827	EFXE-282827SB	13,1	26,2	32,8	45,9	52,5	59,0
SB-355016	EFXE-355016SB	14,8	29,7	37,1	52,0	59,4	66,8
SB-383816	EFXE-383816SB	13,3	26,6	33,2	46,5	53,2	59,8
SB-384516	EFXE-384516SB	14,5	29,1	36,4	51,0	58,3	65,6
SB-385716	EFXE-385716SB	16,7	33,4	41,8	58,5	66,8	75,2
SB-505016	EFXE-505016SB	17,9	35,8	44,8	62,7	71,7	80,7
SB-383827	EFXE-383827SB	17,5	35,1	43,9	61,4	70,2	79,0
SB-575716	EFXE-575716SB	20,7	41,5	51,9	72,7	83,1	93,5
SB-577620	EFXE-577620SB	26,9	53,9	67,4	94,4	107,9	121,3
SB-575730	EFXE-575730SB	27,9	55,8	69,7	97,7	111,6	125,6
SB-769520	EFXE-769520SB	36,1	72,2	90,2	126,3	144,4	162,4
SB-1258040	EFXE-1258040SB	36,1	72,2	90,2	126,3	144,4	162,4

Enclosure types (Stainless steel)		Maximum power dissipation (W) – Tamb. up to **95**°C	
		INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
SB-101210	EFXE-101210SB	1,3	2,7
SB-151510	EFXE-151510SB	2,0	4,0
SB-142013	EFXE-142013SB	2,6	5,2
SB-202010	EFXE-202010SB	2,6	5,3
SB-202016	EFXE-202016SB	3,4	6,9
SB-202713	EFXE-202713SB	3,6	7,2
SB-272713	EFXE-272713SB	4,1	8,3
SB-203016	EFXE-203016SB	4,2	8,5
SB-273513	EFXE-273513SB	4,8	9,6
SB-282816	EFXE-282816SB	4,8	9,6
SB-204016	EFXE-204016SB	5,0	10,1
SB-353516	EFXE-353516SB	6,1	12,2
SB-282827	EFXE-282827SB	6,5	13,1
SB-355016	EFXE-355016SB	7,4	14,8
SB-383816	EFXE-383816SB	6,6	13,3
SB-384516	EFXE-384516SB	7,2	14,5
SB-385716	EFXE-385716SB	8,3	16,7
SB-505016	EFXE-505016SB	8,9	17,9
SB-383827	EFXE-383827SB	8,7	17,5
SB-575716	EFXE-575716SB	10,3	20,7
SB-577620	EFXE-577620SB	13,4	26,9
SB-575730	EFXE-575730SB	13,9	27,9
SB-769520	EFXE-769520SB	18,0	36,1
SB-1258040	EFXE-1258040SB	18,0	36,1

Power dissipation – Stainless steel enclosures ST series

Enclosure types (Stainless steel)		Maximum power dissipation (W) – Tamb. up to **40**°C						
		INTERNAL TEMP.60°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
ST-101210	EFXE-101210ST	5,5	8,3	11,1	12,5	15,3	16,7	18,1
ST-151510	EFXE-151510ST	8,0	12,0	16,0	18,0	22,0	24,0	26,1
ST-142013	EFXE-142013ST	10,4	15,7	20,9	23,5	28,8	31,4	34,0
ST-202010	EFXE-202010ST	10,7	16,1	21,4	24,1	29,5	32,2	34,8
ST-202016	EFXE-202016ST	13,9	20,8	27,8	31,3	38,3	41,7	45,2
ST-202713	EFXE-202713ST	14,4	21,6	28,9	32,5	39,7	43,3	46,9
ST-272713	EFXE-272713ST	16,7	25,1	33,5	37,7	46,0	50,2	54,4
ST-203016	EFXE-203016ST	17,1	25,7	34,3	38,6	47,2	51,4	55,7
ST-273513	EFXE-273513ST	19,2	28,9	38,5	43,3	53,0	57,8	62,6
ST-282816	EFXE-282816ST	19,3	29,0	38,7	43,6	53,3	58,1	63,0
ST-204016	EFXE-204016ST	20,2	30,3	40,4	45,5	55,6	60,6	65,7
ST-353516	EFXE-353516ST	24,4	36,6	48,8	54,9	67,1	73,2	79,3
ST-282827	EFXE-282827ST	26,2	39,3	52,5	59,0	72,2	78,7	85,3
ST-355016	EFXE-355016ST	29,7	44,5	59,4	66,8	81,7	89,1	96,6
ST-383816	EFXE-383816ST	26,6	39,9	53,2	59,8	73,1	79,8	86,5
ST-384516	EFXE-384516ST	29,1	43,7	58,3	65,6	80,2	87,5	94,8
ST-385716	EFXE-385716ST	33,4	50,1	66,8	75,2	91,9	100,3	108,7
ST-505016	EFXE-505016ST	35,8	53,8	71,7	80,7	98,6	107,6	116,6
ST-383827	EFXE-383827ST	35,1	52,7	70,2	79,0	96,6	105,4	114,2
ST-575716	EFXE-575716ST	41,5	62,3	83,1	93,5	114,3	124,7	135,1
ST-577620	EFXE-577620ST	53,9	80,9	107,9	121,3	148,3	161,8	175,3
ST-575730	EFXE-575730ST	55,8	83,7	111,6	125,6	153,5	167,5	181,4
ST-769520	EFXE-769520ST	72,2	108,3	144,4	162,4	198,5	216,6	234,6
ST-1258040	EFXE-1258040ST	72,2	108,3	144,4	162,4	198,5	216,6	234,6

Enclosure types (Stainless steel)		Maximum power dissipation (W) – Tamb. up to **50**°C						
		INTERNAL TEMP.60°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
ST-101210	EFXE-101210ST	2,7	5,5	8,3	9,7	12,5	13,9	15,3
ST-151510	EFXE-151510ST	4,0	8,0	12,0	14,0	18,0	20,0	22,0
ST-142013	EFXE-142013ST	5,2	10,4	15,7	18,3	23,5	26,2	28,8
ST-202010	EFXE-202010ST	5,3	10,7	16,1	18,7	24,1	26,8	29,5
ST-202016	EFXE-202016ST	6,9	13,9	20,8	24,3	31,3	34,8	38,3
ST-202713	EFXE-202713ST	7,2	14,4	21,6	25,2	32,5	36,1	39,7
ST-272713	EFXE-272713ST	8,3	16,7	25,1	29,3	37,7	41,8	46,0
ST-203016	EFXE-203016ST	8,5	17,1	25,7	30,0	38,6	42,9	47,2
ST-273513	EFXE-273513ST	9,6	19,2	28,9	33,7	43,3	48,2	53,0
ST-282816	EFXE-282816ST	9,6	19,3	29,0	33,9	43,6	48,4	53,3
ST-204016	EFXE-204016ST	10,1	20,2	30,3	35,4	45,5	50,5	55,6
ST-353516	EFXE-353516ST	12,2	24,4	36,6	42,7	54,9	61,0	67,1
ST-282827	EFXE-282827ST	13,1	26,2	39,3	45,9	59,0	65,6	72,2
ST-355016	EFXE-355016ST	14,8	29,7	44,5	52,0	66,8	74,3	81,7
ST-383816	EFXE-383816ST	13,3	26,6	39,9	46,5	59,8	66,5	73,1
ST-384516	EFXE-384516ST	14,5	29,1	43,7	51,0	65,6	72,9	80,2
ST-385716	EFXE-385716ST	16,7	33,4	50,1	58,5	75,2	83,6	91,9
ST-505016	EFXE-505016ST	17,9	35,8	53,8	62,7	80,7	89,7	98,6
ST-383827	EFXE-383827ST	17,5	35,1	52,7	61,4	79,0	87,8	96,6
ST-575716	EFXE-575716ST	20,7	41,5	62,3	72,7	93,5	103,9	114,3
ST-577620	EFXE-577620ST	26,9	53,9	80,9	94,4	121,3	134,8	148,3
ST-575730	EFXE-575730ST	27,9	55,8	83,7	97,7	125,6	139,5	153,5
ST-769520	EFXE-769520ST	36,1	72,2	108,3	126,3	162,4	180,5	198,5
ST-1258040	EFXE-1258040ST	36,1	72,2	108,3	126,3	162,4	180,5	198,5

Enclosure types (Stainless steel)		Maximum power dissipation (W) – Tamb. up to **55**°C						
		INTERNAL TEMP.65°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
ST-101210	EFXE-101210ST	2,7	4,1	6,9	8,3	11,1	12,5	13,9
ST-151510	EFXE-151510ST	4,0	6,0	10,0	12,0	16,0	18,0	20,0
ST-142013	EFXE-142013ST	5,2	7,8	13,1	15,7	20,9	23,5	26,2
ST-202010	EFXE-202010ST	5,3	8,0	13,4	16,1	21,4	24,1	26,8
ST-202016	EFXE-202016ST	6,9	10,4	17,4	20,8	27,8	31,3	34,8
ST-202713	EFXE-202713ST	7,2	10,8	18,0	21,6	28,9	32,5	36,1
ST-272713	EFXE-272713ST	8,3	12,5	20,9	25,1	33,5	37,7	41,8
ST-203016	EFXE-203016ST	8,5	12,8	21,4	25,7	34,3	38,6	42,9
ST-273513	EFXE-273513ST	9,6	14,4	24,1	28,9	38,5	43,3	48,2
ST-282816	EFXE-282816ST	9,6	14,5	24,2	29,0	38,7	43,6	48,4
ST-204016	EFXE-204016ST	10,1	15,1	25,2	30,3	40,4	45,5	50,5
ST-353516	EFXE-353516ST	12,2	18,3	30,5	36,6	48,8	54,9	61,0
ST-282827	EFXE-282827ST	13,1	19,6	32,8	39,3	52,5	59,0	65,6
ST-355016	EFXE-355016ST	14,8	22,2	37,1	44,5	59,4	66,8	74,3
ST-383816	EFXE-383816ST	13,3	19,9	33,2	39,9	53,2	59,8	66,5
ST-384516	EFXE-384516ST	14,5	21,8	36,4	43,7	58,3	65,6	72,9
ST-385716	EFXE-385716ST	16,7	25,0	41,8	50,1	66,8	75,2	83,6
ST-505016	EFXE-505016ST	17,9	26,9	44,8	53,8	71,7	80,7	89,7
ST-383827	EFXE-383827ST	17,5	26,3	43,9	52,7	70,2	79,0	87,8
ST-575716	EFXE-575716ST	20,7	31,1	51,9	62,3	83,1	93,5	103,9
ST-577620	EFXE-577620ST	26,9	40,4	67,4	80,9	107,9	121,3	134,8
ST-575730	EFXE-575730ST	27,9	41,8	69,7	83,7	111,6	125,6	139,5
ST-769520	EFXE-769520ST	36,1	54,1	90,2	108,3	144,4	162,4	180,5
ST-1258040	EFXE-1258040ST	36,1	54,1	90,2	108,3	144,4	162,4	180,5

Enclosure types (Stainless steel)		Maximum power dissipation (W) – Tamb. up to **60**°C					
		INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
ST-101210	EFXE-101210ST	2,7	5,5	6,9	9,7	11,1	12,5
ST-151510	EFXE-151510ST	4,0	8,0	10,0	14,0	16,0	18,0
ST-142013	EFXE-142013ST	5,2	10,4	13,1	18,3	20,9	23,5
ST-202010	EFXE-202010ST	5,3	10,7	13,4	18,7	21,4	24,1
ST-202016	EFXE-202016ST	6,9	13,9	17,4	24,3	27,8	31,3
ST-202713	EFXE-202713ST	7,2	14,4	18,0	25,2	28,9	32,5
ST-272713	EFXE-272713ST	8,3	16,7	20,9	29,3	33,5	37,7
ST-203016	EFXE-203016ST	8,5	17,1	21,4	30,0	34,3	38,6
ST-273513	EFXE-273513ST	9,6	19,2	24,1	33,7	38,5	43,3
ST-282816	EFXE-282816ST	9,6	19,3	24,2	33,9	38,7	43,6
ST-204016	EFXE-204016ST	10,1	20,2	25,2	35,4	40,4	45,5
ST-353516	EFXE-353516ST	12,2	24,4	30,5	42,7	48,8	54,9
ST-282827	EFXE-282827ST	13,1	26,2	32,8	45,9	52,5	59,0
ST-355016	EFXE-355016ST	14,8	29,7	37,1	52,0	59,4	66,8
ST-383816	EFXE-383816ST	13,3	26,6	33,2	46,5	53,2	59,8
ST-384516	EFXE-384516ST	14,5	29,1	36,4	51,0	58,3	65,6
ST-385716	EFXE-385716ST	16,7	33,4	41,8	58,5	66,8	75,2
ST-505016	EFXE-505016ST	17,9	35,8	44,8	62,7	71,7	80,7
ST-383827	EFXE-383827ST	17,5	35,1	43,9	61,4	70,2	79,0
ST-575716	EFXE-575716ST	20,7	41,5	51,9	72,7	83,1	93,5
ST-577620	EFXE-577620ST	26,9	53,9	67,4	94,4	107,9	121,3
ST-575730	EFXE-575730ST	27,9	55,8	69,7	97,7	111,6	125,6
ST-769520	EFXE-769520ST	36,1	72,2	90,2	126,3	144,4	162,4
ST-1258040	EFXE-1258040ST	36,1	72,2	90,2	126,3	144,4	162,4

Enclosure types (Stainless steel)		Maximum power dissipation (W) – Tamb. up to **95**°C	
		INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
ST-101210	EFXE-101210ST	1,3	2,7
ST-151510	EFXE-151510ST	2,0	4,0
ST-142013	EFXE-142013ST	2,6	5,2
ST-202010	EFXE-202010ST	2,6	5,3
ST-202016	EFXE-202016ST	3,4	6,9
ST-202713	EFXE-202713ST	3,6	7,2
ST-272713	EFXE-272713ST	4,1	8,3
ST-203016	EFXE-203016ST	4,2	8,5
ST-273513	EFXE-273513ST	4,8	9,6
ST-282816	EFXE-282816ST	4,8	9,6
ST-204016	EFXE-204016ST	5,0	10,1
ST-353516	EFXE-353516ST	6,1	12,2
ST-282827	EFXE-282827ST	6,5	13,1
ST-355016	EFXE-355016ST	7,4	14,8
ST-383816	EFXE-383816ST	6,6	13,3
ST-384516	EFXE-384516ST	7,2	14,5
ST-385716	EFXE-385716ST	8,3	16,7
ST-505016	EFXE-505016ST	8,9	17,9
ST-383827	EFXE-383827ST	8,7	17,5
ST-575716	EFXE-575716ST	10,3	20,7
ST-577620	EFXE-577620ST	13,4	26,9
ST-575730	EFXE-575730ST	13,9	27,9
ST-769520	EFXE-769520ST	18,0	36,1
ST-1258040	EFXE-1258040ST	18,0	36,1

Maximum Power Dissipation calculation

The values specified in the tables as per clause 2.1.1 may be modified within the maximum admitted Tamb and maximum admitted internal temperature as follows.

$$Pdiss\ (W) = \frac{Tmax - Tamb}{Rth}$$

$Rth = A \times (\text{enclosure surface in } mm^2 \text{ except enclosure bottom})^B$

Legend:
Rth – Thermal resistance [K/W].
Tmax – Maximum allowed temperature inside enclosure.
Tamb – Ambient temperature of enclosure
A and B - coefficients determined for each series of enclosure. Exact values are given in manufacturer's documentation.

Warning labels:

WARNING – DO NOT OPEN WHEN ENERGIZED (*)
(*) Not mandatory for apparatus with protection type Ex ia Ga and Ex ib Gb.

WARNING – POTENTIAL ELECTROSTATIC CHARGING HAZARD – SEE INSTRUCTIONS

To be added when the enclosures or parts of them have a surface resistance more than 10^9 Ω or 10^{11} Ω according to IEC 60079-0 Clause 7.4.2 a), as applicable, and as per following cases:

- are equipped with transparent parts made of polycarbonate.
- for category II 2 G / EPL Gb Gas group IIC: are painted and the paint layer thickness is > 0.2mm.
- for category II 2 G / EPL Gb Gas group IIB: are painted and the paint layer thickness is > 2mm.
- for category II 2 D / EPL Db: are painted and the paint layer thickness is > 2mm.
- for category II 2 G / EPL Gb Gas group IIC: not conductive individual materials (labels), applied on painted enclosures, have exposed (chargeable area) > 2000mm^2 or, not conductive individual materials (labels), applied on unpainted (conductive earthed surface) enclosures, have exposed (chargeable area) > 8000mm^2.
- for category II 2 G /EPL Gb Gas group IIB: not conductive individual materials (labels), applied on painted enclosures, have exposed (chargeable area) > 10000mm^2 or, not conductive individual materials (labels), applied on unpainted (conductive earthed surface) enclosures, have exposed (chargeable area) > 40000mm^2.

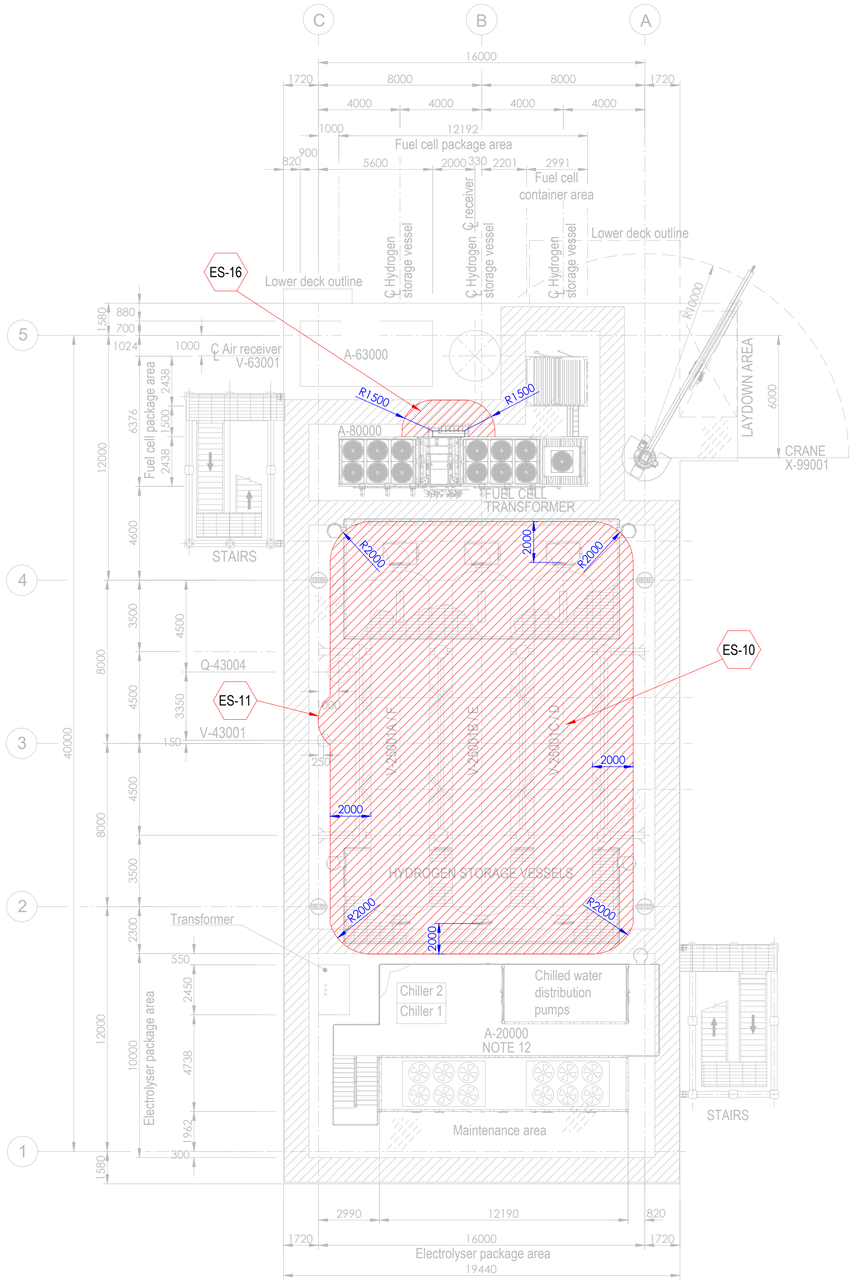
OPEN THE VALVE ONLY WHEN THE APPARATUS IS DE-ENERGIZED AND ONLY WHEN AN EXPLOSIVE DUST ATMOSPHERE IS NOT PRESENT
To be added on Ex tb apparatus equipped with the drain / venting device ECR3.

Other warnings depend on the components actually mounted, according to the component manufacturer's documentation.

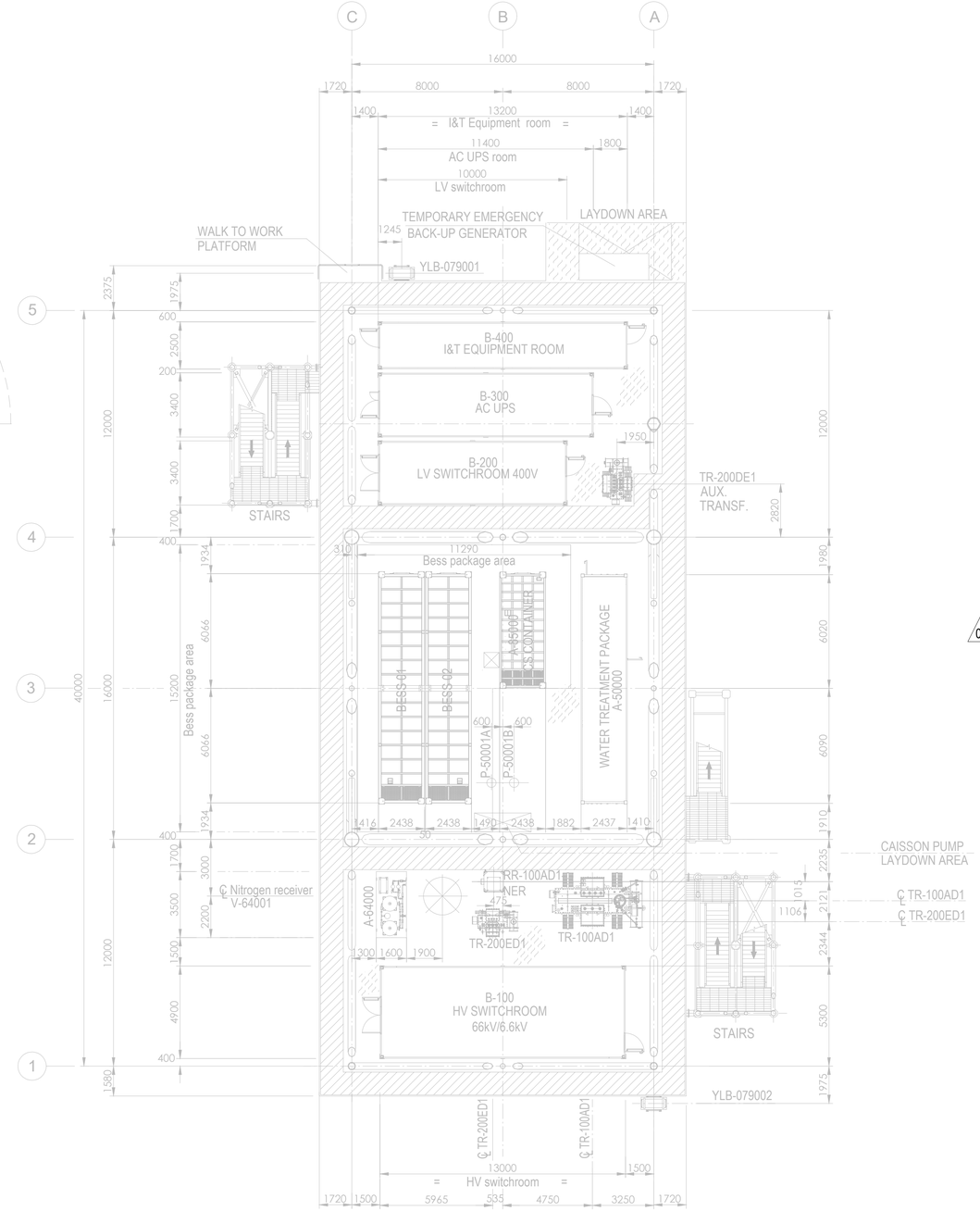
The tables below state the maximum power dissipation values (W) related to the internal temperature (Tint) and ambient temperature (Tamb).

DRAWING NO. 123A90-DDL-SAF-DL-30022

REV. 02



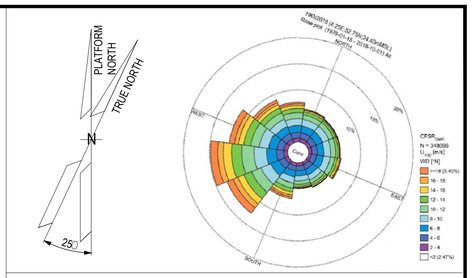
PLAN ON UPPER DECK
EL+30.310 T.O.S.



PLAN ON LOWER DECK
EL+23.310 T.O.S.

Tag No.	Equipment Tag	Description	Material	Ventilation Type
01	P-50001 A/B	SEA WATER LIFT PUMPS	SEA WATER	NATURAL (OPEN AREA)
02	Q-43004	HYDROGEN VENT	HYDROGEN	NATURAL (OPEN AREA)
03	V-43001	HYDROGEN VENT KO DRUM	HYDROGEN	NATURAL (OPEN AREA)
04	V-25001 (A/B/C/D/E/F)	HYDROGEN STORAGE VESSELS	HYDROGEN	NATURAL (OPEN AREA)
05	V-63001	AIR RECEIVER	INSTRUMENT AIR	NATURAL (OPEN AREA)
06	A-20000	ELECTROLYSER PACKAGE		
07	A-63000	INSTRUMENT AIR PACKAGE		
08	A-80000	FUEL CELL PACKAGE		
09	A-85000	BESS PACKAGE		
10	YLB-079001/2	LIFE RAFTS		
11	A-50000	WATER TREATMENT PACKAGE		

Tag No.	Equipment Tag	Description	Material	Ventilation Type
12	A-64000	NITROGEN SYSTEM		
13	B-100	HV SWITCHROOM 66kV/6.6kV		
14	B-200	LV SWITCHROOM 400V		
15	B-300	AC UPS EQUIPMENT ROOM		
16	B-400	I&T EQUIPMENT ROOM		
17	TR-100AD1	TRANSFORMER MAIN 66kV/6.6kV		
18	RR-100AD1-NER	NEUTRAL EARTHING RESISTOR		
19	TR-200DE1	TRANSFORMER AUX. 6.6kV/0.4kV		
20	TR-200ED1	SOLAR TRANSFORMER PV FARM EQUIPMENT		
21	X-99001	CRANE		
22	V-64001	NITROGEN RECEIVER		



NOTES

1. ALL DIMENSIONS IN mm U.N.O.
2. ALL ELEVATIONS IN METERS.
3. PLATFORM NORTH DIRECTION IS N 25°W.
4. VENT TOP SHALL BE REACHEABLE FOR MAINTENANCE PURPOSE.
5. THE BESS IS CONSIDERED SAFE AREA EXCEPT EXTRACTORES FROM BATTERIES , CURRENTLY NOT SHOWN IN DRAWINGS, SINCE INFORMATION FROM VENDOR IS NOT YET AVAILABLE.[ES17].
6. THE LOCATION OF EMISSION SOURCES ON THE LAYOUT ARE ONLY INDICATIVE. EMISSION SOURCES CONSIDERED ARE PRESENT WITHIN THE EXTENSION OF HAZARDOUS CLASSIFIED AREAS SHOWN ON THE LAYOUT. THIS IS BECAUSE VALVES AND FLANGES,WHICH ARE CONSIDERED POTENTIAL SOURCES OF RELEASE POINTS FOR FLAMMABLE GAS ARE NOT SHOWN ON CURRENT LAYOUT PROVIDED. THE SAME APPLIES TO THE EMISSION SOURCES FOR CPI'S ITEM.
7. IDENTIFIED EMISSION SOURCES DETAIL.

02
8. FOR DETAILS RELATED TO ELECTROLYSER PACKAGE INTERNAL ENCLOSURES REFER TO DRAWING 224J10-DDL-PP-DA-00001 REV 0.
9. FOR DETAILS RELATED TO FUELL CELL PACKAGE INTERNAL ENCLOSURES REFER TO DRAWING K559-2254-CWIWP4202202-B01-001 REV 009".
10. THE N.6 HYDROGEN STORAGE VESSELS ARE NOT CLASSIFIED INTERNALLY SINCE THEY ARE DESIGNED TO CONTAIN HYDROGEN OR NITROGEN FOR THE ENTIRE DURATION OF THE 2 YEARS OF OPERATION.

EMISSION SOURCE No.	IDENTIFIED AREAS
ES10	HYDROGEN STORAGE VESSLES
ES11	HYDROGEN VENT KO DRUM
ES16	FUEL CELL

LEGEND

ZONE 0 — ZONE 1

ZONE 2 — ES EMISSION SOURCES

123A90-DDL-PP-DS-70071	PLOT PLAN - BELOW LOWER DECK
123A90-DDL-PP-DS-70072	PLOT PLAN - ELEVATION LOOKING NORTH & EAST

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	15/01/25	MMA	CCA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	27/08/24	MMA	CCA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	08/02/24	MMA	CCA	DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND

ROSETTI MARINO

TITLE :
BASE LOAD POWER HUB (BLPH)
HAZARDOUS AREA CLASSIFICATION
LOWER & UPPER DECK

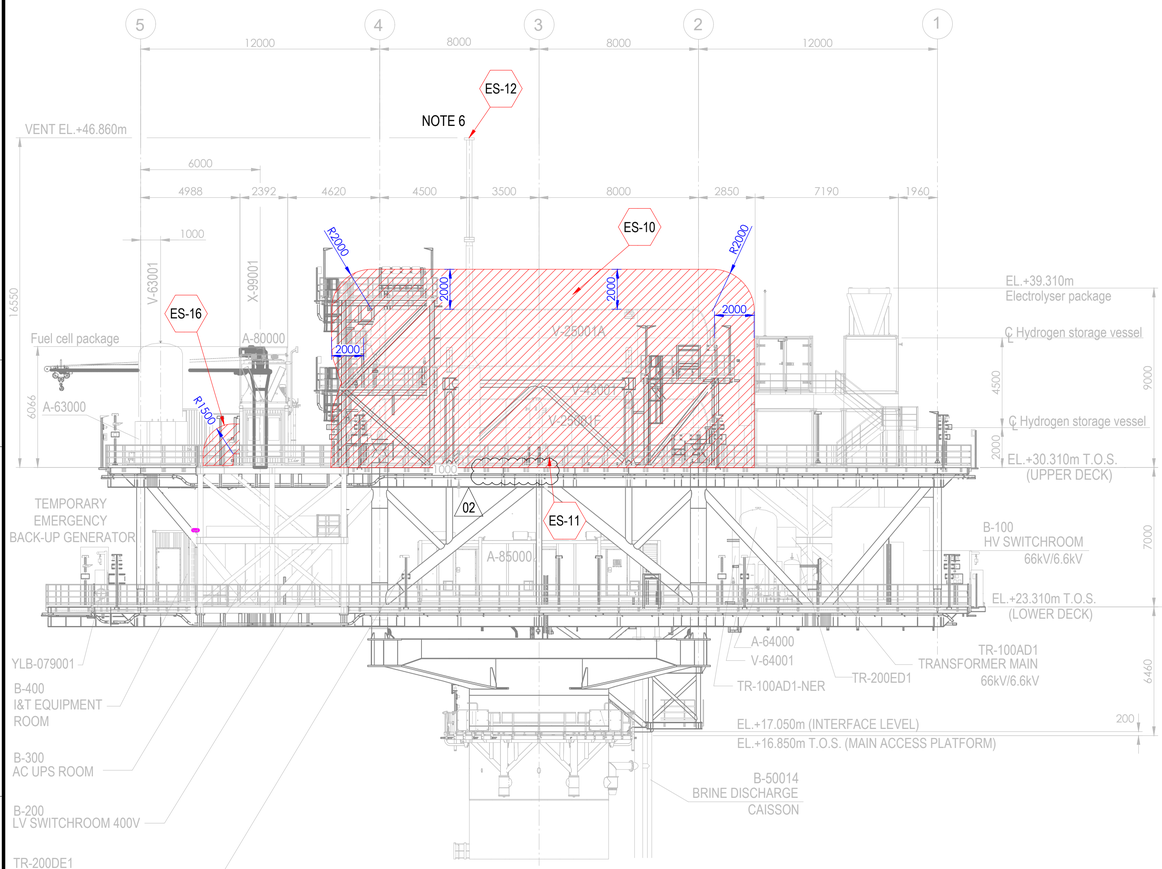
CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK			SCALE 1:150
DRAWN M. MAGNI	CHECKED C. CARACCIOLO	APPROVED D. LO STERZO	DATE 03/07/24

	DRAWING NO.	SHEET	REV.
A1	123A90-DDL-SAF-DL-30022	001	02

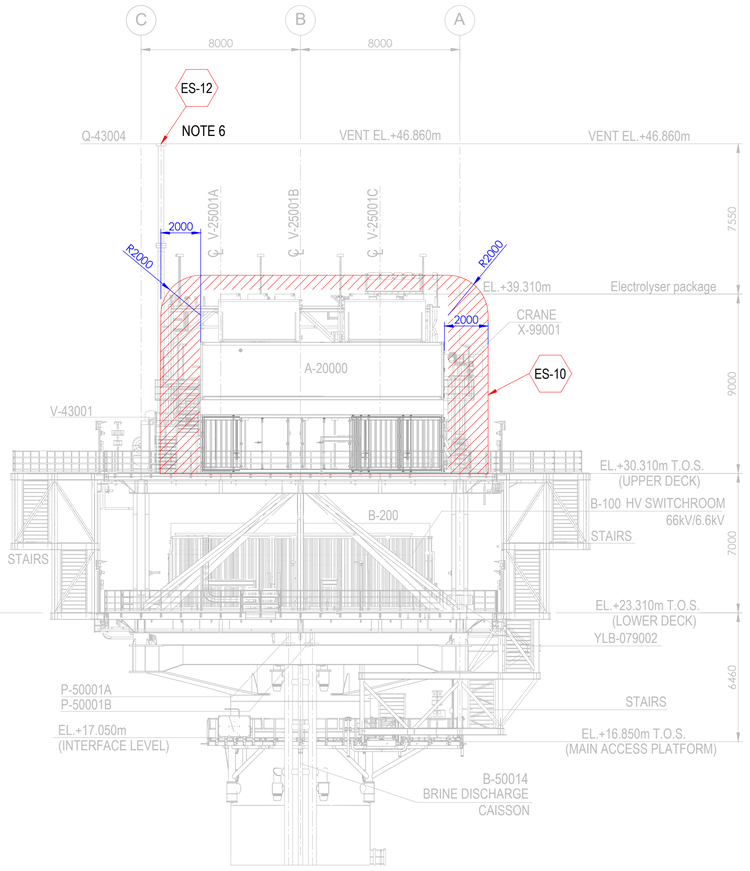
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DRAWING NO. 123A90-DDL-SAF-DL-30024

REV. 02

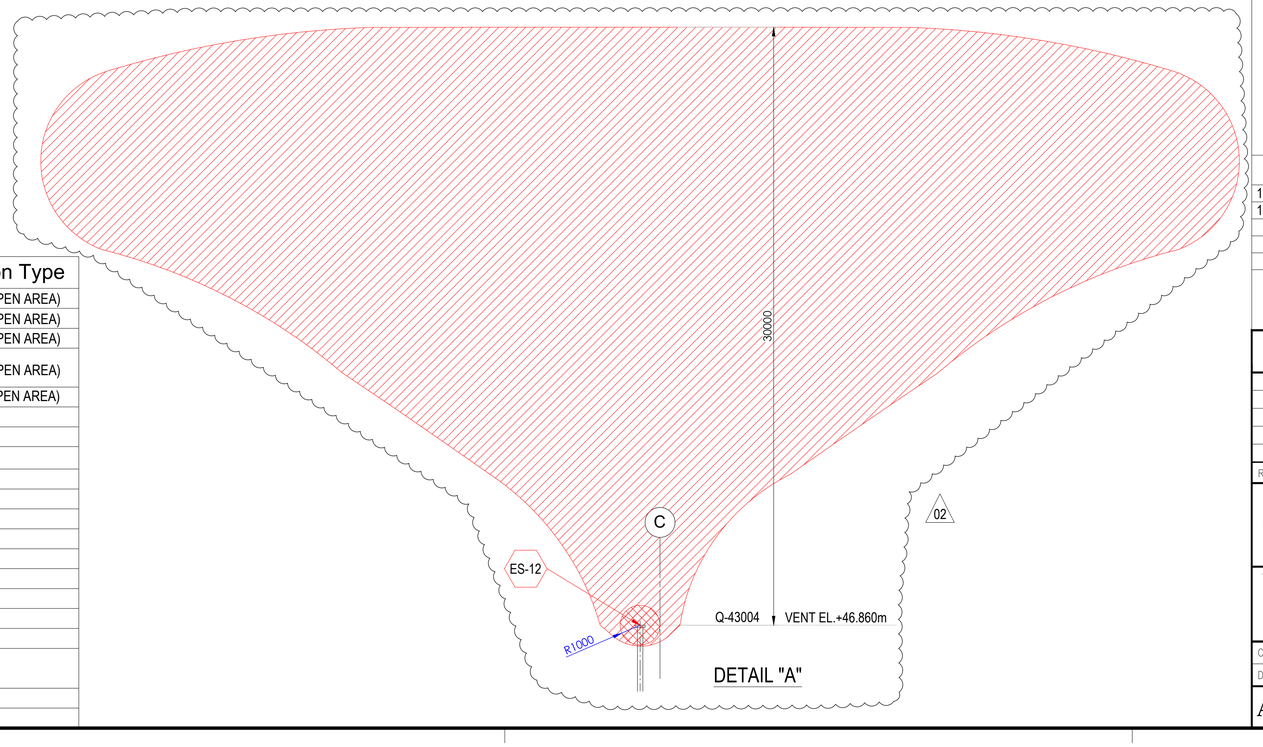


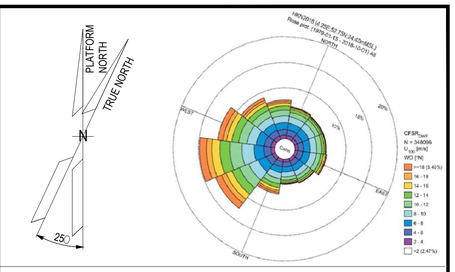
ELEVATION LOOKING EAST



ELEVATION LOOKING NORTH

Tag No.	Equipment Tag	Description	Material	Ventilation Type
01	P-50001 A/B	SEA WATER LIFT PUMPS	SEA WATER	NATURAL (OPEN AREA)
02	Q-43004	HYDROGEN VENT	HYDROGEN	NATURAL (OPEN AREA)
03	V-43001	HYDROGEN VENT KO DRUM	HYDROGEN	NATURAL (OPEN AREA)
04	V-25001 (A/B/C/D/E/F)	HYDROGEN STORAGE VESSELS	HYDROGEN	NATURAL (OPEN AREA)
05	V-63001	INSTRUMENT AIR RECEIVER	INSTRUMENT AIR	NATURAL (OPEN AREA)
06	A-20000	ELECTROLYSER PACKAGE		
07	A-63000	INSTRUMENT AIR PACKAGE		
08	A-80000	FUEL CELL PACKAGE		
09	A-85000	BESS PACKAGE		
10	YLB-079001/2	LIFE RAFTS		
11	B-100	HV SWITCHROOM 66kV/6.6kV		
12	B-200	LV SWITCHROOM 400V		
13	B-300	AC UPS EQUIPMENT ROOM		
14	B-400	I&T EQUIPMENT ROOM		
15	TR-100AD1	TRANSFORMER MAIN 66kV/6.6kV		
16	TR-100AD1-NER	NEUTRAL EARTHING RESISTOR		
17	TR-200DE1	TRANSFORMER AUX. 6.6kV/0.4kV		
18	TR-200ED1	SOLAR TRANSFORMER PV FARM EQUIPMENT		
19	X-99001	CRANE		
20	V-64001	NITROGEN RECEIVER		





NOTES

1. ALL DIMENSIONS IN mm U.N.O
2. ALL ELEVATIONS IN METERS.
3. PLATFORM NORTH DIRECTION IS N 25°W.
4. VENT TOP SHALL BE REACHEABLE FOR MAINTENANCE PURPOSE.
5. THE BESS IS CONSIDERED SAFE AREA EXCEPT EXTRACTORES FROM BATTERIES , CURRENTLY NOT SHOWN IN DRAWINGS, SINCE INFORMATION FROM VENDOR IS NOT YET AVAILABLE.[ES17]
6. FOR ES12 PLUME, PLEASE REFER TO THE DETAIL "A" BELOW. (02)
7. THE LOCATION OF EMISSION SOURCES ON THE LAYOUT ARE ONLY INDICATIVE. EMISSION SOURCES CONSIDERED ARE PRESENT WITHIN THE EXTENSION OF HAZARDOUS CLASSIFIED AREAS SHOWN ON THE LAYOUT. THIS IS BECAUSE VALVES AND FLANGES,WHICH ARE CONSIDERED POTENTIAL SOURCES OF RELEASE POINTS FOR FLAMMABLE GAS ARE NOT SHOWN ON CURRENT LAYOUT PROVIDED. THE SAME APPLIES TO THE EMISSION SOURCES FOR CPI'S ITEM.
8. IDENTIFIED EMISSION SOURCES DETAIL

EMISSION SOURCE No.	IDENTIFIED AREAS
ES10	HYDROGEN STORAGE VESSLES
ES11	HYDROGEN VENT KO DRUM
ES12	HYDROGEN VENT
ES16	FUEL CELL

LEGEND

ZONE 0 — ZONE 1

ZONE 2 — ES EMISSION SOURCES

REFERENCE DOCUMENTS

123A90-DDL-PP-DS-70070	PLOT PLAN - LOWER & UPPER DECK
123A90-DDL-PP-DS-70071	PLOT PLAN - BELOW LOWER DECK

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	15/01/24	MMA	CCA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	27/08/24	MMA	CCA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	08/02/24	MMA	CCA	DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND

ROSETTI MARINO

TITLE :
BASE LOAD POWER HUB (BLPH)
HAZARDOUS AREA CLASSIFICATION
ELEVATION LOOKING NORTH & EAST

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK			SCALE 1:150
DRAWN M. MAGNI	CHECKED C. CARACCIOLO	APPROVED D. LO STERZO	DATE 03/07/24

A1 | DRAWING NO. 123A90-DDL-SAF-DL-30024 | SHEET 001 | REV. 02

File Name : 123A90-DDL-SAF-DL-30024 Rev.02

ITEM	Tag	EJB-200N1-02-L1-07	: JB - NORMAL LIGHTING			Dwg	123A90-DDL-EL-DL-20118
	S/Sys	83-40	: Normal Lighting Upper Deck			Module	UD
TASK	code	C10001628		Location	Onshore Activities	User	Rosetti Marino Quality Control
FORM	Process	MC	Activity CCK	Discipline	ATEX	Form	CJX01

Hazardous Area Equipment Detailed Inspection

Schedule Ref. #				**Area Code**					
Area Class Drawing	123A90-DDL-SAF-DL-30022			**Serial No.**		24P00297990032			
Manufacturer	TECNOR ITALSMEA			**Model**		AQ-252612P			
Cert No.	21ATEX 0090X-FIDI 21 0015X			**Equipment Ambient Temp.**		-20 C° to +40 C°			
Area Classification	hazardous	**Zone**	2	**Gas group**	IIC	**Temp class**	T1		
Equipment Protection Type	Ex eb	**EPL**	Gb	**Gas group**	IIC	**Temp class**	T6	**IP Rating**	IP66

Detailed Note:

1) Inspection shall only be performed by competent personnel

2) All fields are to be completed. Any non-applicable field shall state “NA”. Comments are required for ‘Failure’ column ONLY.

3) An Inspection Sheet should be completed for EACH individual item of Equipment.

	General Equipment	Detailed	OK/NA/PL	Comments
1	Equipment is appropriate to the EPL / Zone requirements of the area	x	OK	
2	Equipment group is correct	x	OK	
3	Equipment temperature class is correct	x	OK	
4	Degree of IP protection of equipment is appropriate for the level of protection	x	OK	
5	Equipment circuit identification is correct	x	OK	
6	Equipment circuit identification is available	x	NA	
7	Enclosure glass parts and glass-to-metal sealing gaskets and / or compounds are satisfactory	x	OK	
8	There is no damage or unauthorized modifications	x	OK	
9	There is no evidence of unauthorized modifications	x	OK	
10	Bolts, cable entry devices (direct and indirect) & blanking elements are of the correct type, are complete & tight		OK	
	Physical check	x	OK	
11	Threaded covers on enclosures are of the correct type, are tight and secured		NA	
	Physical check	x	NA	
12	Joint surfaces are clean and undamaged and gaskets, if any, are satisfactory and positioned correctly	x	OK	
13	Condition of enclosure gaskets is satisfactory	x	OK	
14	There is no evidence or ingress of water or dust in the enclosure in accordance with the IP rating	x	OK	
15	Electrical connections are tight	x	OK	
16	Bridging links do not reduce creepage / clearance and are allowed	x	NA	
17	Unused terminals are tightened	x	OK	
18	Encapsulated components are undamaged	x	NA	
19	Flameproof components are undamaged	x	NA	
20	Fluorescent lamps are not indicating EOL effects (only for Ex “e” – Ex “n” – Ex “t”)	x	NA	
21	HID lamps are not indicating EOL effects	x	NA	
22	Lamp type, rating, pin configuration and position are correct	x	NA	
23	Breathing and drainage devices are satisfactory	x	OK	
24	Type of cable is appropriate	x	OK	
25	There is no obvious damage to the cables	x	OK	
26	Cable glands are the correct type and installed correctly	x	OK	
27	Sealing of trunking, ducts, pipes and or conduits is satisfactory	x	NA	
28	Stopping boxes and cable boxes are corrected filled	x	PL	

ITEM	Tag	EJB-200N1-02-L1-07	: JB - NORMAL LIGHTING			Dwg	123A90-DDL-EL-DL-20118
	S/Sys	83-40	: Normal Lighting Upper Deck			Module	UD
TASK	code	C10001628		Location	Onshore Activities	User	Rosetti Marino Quality Control
FORM	Process	MC	Activity CCK	Discipline	ATEX	Form	CJX01 Hazardous Area Equipment Detailed Inspection

29	Integrity of conduit system and interface with mixed system maintained	x	NA	
30	Earthing connections, including any supplementary earthing bonding connections are satisfactory (for example connections are tight and conductors are of sufficient cross-section		PL	
	Physical check	x	OK	
31	Automated electric protective devices operate within permitted limits	x	NA	
32	Special conditions (if applicable) have been complied with.	x	NA	
33	All cable cores are uniquely labeled	x	OK	
34	Cable cores not in use are correctly terminated	x	OK	
35	Equipment is adequately protected against corrosion, weather, vibration and other adverse factors	x	OK	
36	No undue accumulation of dust and dirt	x	OK	
37	All equipment housings are clean and dry	x	OK	
38	All moving parts are free and have no mechanical damage	x	OK	
	Applicable for Installation of Heating Systems			
39	Temperature sensors function according to manufacturer's documents (only applicable for Ex-d e Ex-e)	x	NA	
40	Safety cut off devices function according to manufacturer's documents (only applicable for Ex-d e Ex-e)	x	NA	
41	The setting of the safety cut off is sealed (only applicable for Ex-d e Ex-e)	x	NA	
42	Reset of a heating system safety cut off possible with tool only(only applicable for Ex-d e Ex-e)	x	NA	
43	Auto-reset is not possible (only applicable for Ex-d e Ex-e)	x	NA	
44	Reset of a safety cut off under fault conditions is prevented (only applicable for Ex-d e Ex-e)	x	NA	
45	Safety cut off independent from control system (only applicable for Ex-d e Ex-e)	x	NA	
46	Level switch is installed and correctly set, if required (only applicable for Ex-d e Ex-e)	x	NA	
47	Flow switch is installed and correctly set, if required (only applicable for Ex-d e Ex-e)	x	NA	
	Extra Ex d checks			
48	Obstructions adjacent to flame proof flanged joints are in accordance with IEC 60079-14	x	NA	
49	Ex d conduits seals are fitted to all conduits and satisfactorily sealed	x	NA	
50	Cable glands are of the correct type and installed correctly	x	NA	
51	Adaptors, reducers, stop ends, etc. are all certified Ex d	x	NA	
52	Flame path are clean and undamaged	x	NA	
53	Flange gap dimensions are within tolerances	x	NA	
54	Motor fans have sufficient clearance to the enclosure and/or covers, cooling systems are undamaged, motor foundations have no indentations or cracks	x	NA	
55	The ventilation airflow is not impeded	x	NA	
56	Insulation resistance (IR) of the motor windings is satisfactory	x	NA	
57	Fault loop impedance (TN systems) or earthing resistance (IT systems) is satisfactory	x	NA	
58	Variable voltage/frequency installation complies with documentation	x	NA	
	Extra Ex e checks			
59	All Equipment is Ex e certified (including components within enclosure)	x	OK	
60	Power conductors are not bunched together causing possible hot spots	x	PL	
61	Motor fans have sufficient clearance to the enclosure and/or covers, cooling systems are undamaged, motor foundations have no indentations or cracks	x	NA	
62	Insulation resistance (IR) of the motor windings is satisfactory	x	NA	
63	Fault loop impedance (TN systems) or earthing resistance (IT systems) is satisfactory	x	NA	
64	The ventilation airflow is not impeded	x	NA	
65	Motor protection devices operate within the permitted tE or tA time limits.	x	NA	
66	Variable voltage/frequency installation complies with documentation	x	NA	

ROSETTI MARINO PROVERLIS CROSSWIND

ITEM	Tag	EJB-200N1-02-L1-07	: JB - NORMAL LIGHTING		Dwg	123A90-DDL-EL-DL-20118	
	S/Sys	83-40	: Normal Lighting Upper Deck		Module	UD	
TASK	code	C10001628	Location	Onshore Activities	User	Rosetti Marino Quality Control	
FORM	Process	MC	Activity CCK	Discipline ATEX	Form	CJX01	Hazardous Area Equipment Detailed Inspection

Extra Ex n (nR, nL) checks				
67	All Terminals are Ex n certified (if required on certificate)	x	NA	
68	Hermetically sealed and enclosed break devices are undamaged	x	NA	
69	Restricted breathing properties satisfactory (conduct vacuum test)	x	NA	
70	Test port, if fitted, is functional (type "nR" only)	x	NA	
71	Breathing operation is satisfactory (type "nR" only)	x	NA	
72	Motor fans have sufficient clearance to the enclosure and/or covers, cooling systems are	x	NA	
73	The ventilation airflow is not impeded	x	NA	
74	Insulation resistance (IR) of the motor windings is satisfactory	x	NA	
75	Motor protection devices operate within the permitted tE or tA time limits.	x	NA	
76	Variable voltage/frequency installation complies with documentation	x	NA	
Extra Ex p checks				
77	Pressurization gas is correct type	x	NA	
78	Actual pressure is within maximum and minimum settings for equipment	x	NA	
79	Timers set as per certification documentation	x	NA	
80	Alarms and trip functions operate correctly as per certification documentation	x	NA	
81	Fault loop impedance (TN systems) or earthing resistance (IT systems) is satisfactory	x	NA	
82	Automatic electrical protective devices operate within permitted limits	x	NA	
83	Automatic electrical protective devices are set correctly	x	NA	
84	Protective gas inlet temperature is below maximum specified	x	NA	
85	Ducts, pipes and enclosures are in good condition	x	NA	
86	Protective gas is substantially free from contaminants	x	NA	
87	Protective gas pressure and/or flow is adequate	x	NA	
88	Pressure and/or flow indicators, alarms and interlocks function correctly	x	NA	
89	Conditions of spark and particle barriers of ducts for exhausting the gas in hazardous area are satisfactory	x	NA	
90	Specific conditions of use (if applicable) are complied with		NA	
Extra Ex i (Intrinsically Safe – IS) checks				
91	Equipment has adequate circuit identification for 'IS' Installation	x	NA	
92	Cables are installed in accordance with the documentation	x	NA	
93	Segregation is maintained between IS and non-IS Circuits	x	NA	
94	Cable screens are isolated at one end (field side)	x	NA	
95	Cable screens are earthed in accordance with the documentation	x	NA	
96	Safety barrier units, relays and other energy limiting devices are of the approved type, installed in	x	NA	
97	Equipment installed is the one specified in the documentation	x	NA	
98	Ambient temperature range of the apparatus is correct for the installation	x	NA	
99	Service temperature range of the apparatus is correct for the installation	x	NA	
100	Installation is clearly labelled	x	NA	
101	Printed circuit boards are clean and undamaged	x	NA	
102	The maximum voltage Um of the associated apparatus is not exceeded	x	NA	
103	Point-to-point connections are all correct	x	NA	
104	Earth continuity is satisfactory (e.g. connections are tight, conductors are of sufficient cross-section)	x	NA	
105	Earth connections maintain the integrity of the type of protection	x	NA	
106	Intrinsically safe circuit earthing is satisfactory	x	NA	
107	Insulation resistance is satisfactory	x	NA	
108	Short-circuit protection of the power supply is in accordance with the documentation	x	NA	

	BARRIER:	**Manufacturer:**	NA	**Model:**	NA		
		Authority:	NA	**Cert No:**	NA	**Type:**	NA

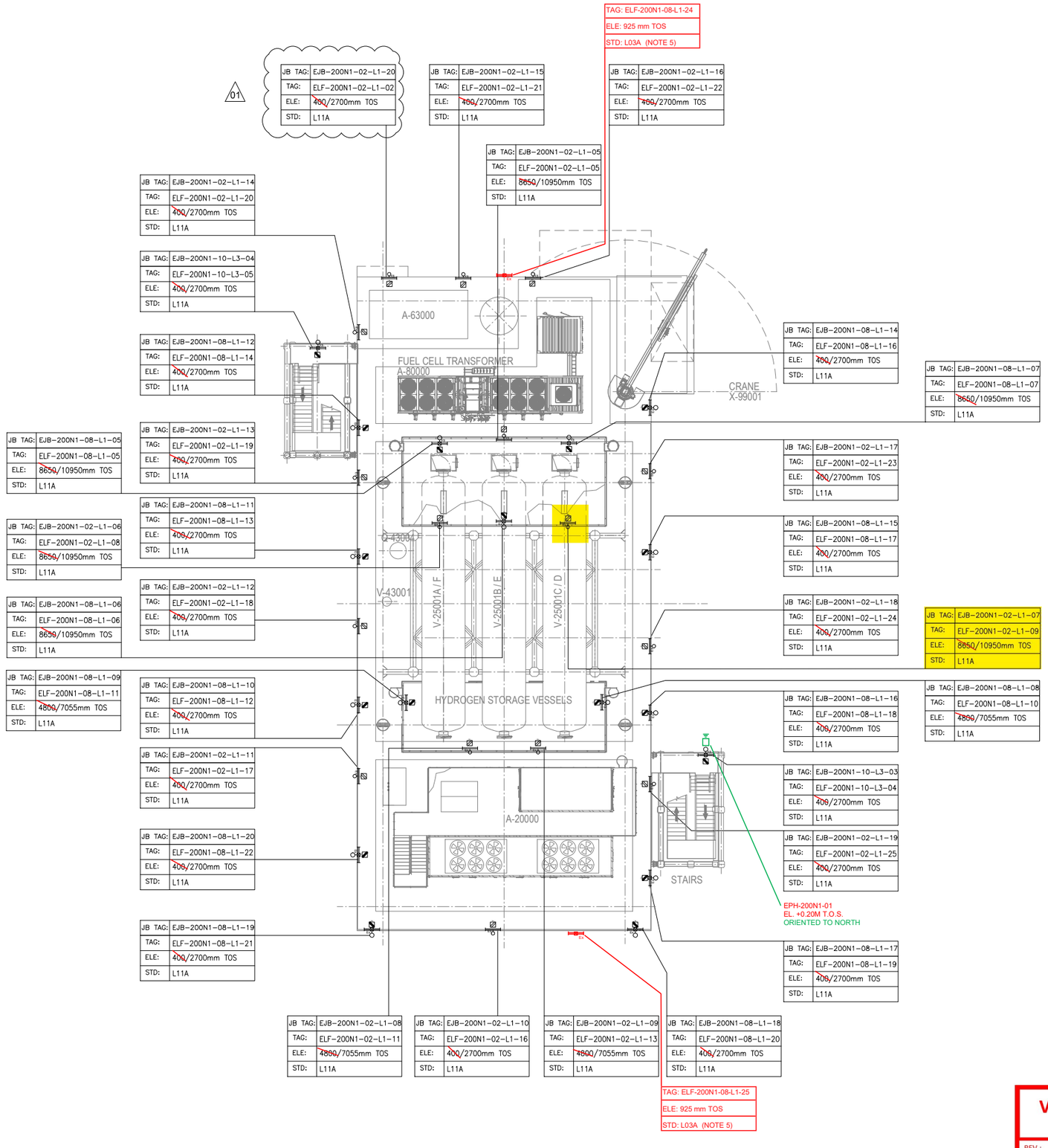
Remarks: Initial inspection should be detailed and carried out before equipment is brought into service as per IEC 60079-17

Please mark only one box as appropriate	
●	**Passed - Complete**
	Failed

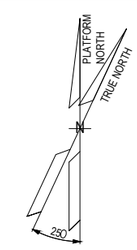
Page 3/3	Performed by	☐ WITNESS ☐ REVIEW	☐ WITNESS ☐ REVIEW
Company	ICS IMPIANTI	RM(ROSETTI MARINO)	
Name	Michele Tartaglia	Alessio Polo	
Date	2025-01-14	2025-01-18	
Signature	PROVERLIS Digitaly signed by Michele Tartaglia 2025-01-14T08:47:50.969Z	PROVERLIS Digitaly signed by Alessio Polo 2025-01-18T13:10:49.419Z	

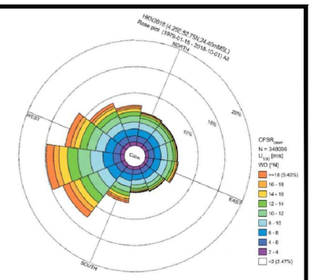
DRAWING NO. 123A90-DDL-EL-DL-20118

REV. 01



PLAN ON UPPER DECK
EL+30.310 T.O.S.





NOTES

1. ALL DIMENSIONS AND ELEVATIONS ARE GIVEN IN mm UNLESS OTHERWISE NOTED.
2. ELEVATIONS REFER TO T.O.S.
3. ELEVATION OF THE LAMPS ARE REFFERED TO THE BOTTOM OF THE LAMP.
4. FOR THE ELEVATION OF JB, REFER TO THE TYPICAL INSTALLATION.
5. FOR ELF-200N1-08-L1-24 AND ELF-200N1-08-L1-25 CONSTRUCTION DETAILS REFER TO DOC. 123A90-DDL-ST-DD-90076

LEGEND

- EMERGENCY LIGHTING JB
- 60W LED EMERGENCY LUMINARIES
- 60W LED EMERGENCY LUMINARIES FIXTURE POLE MOUNTED
- NORMAL LIGHTING JB
- 45W LED NORMAL LUMINARIES
- 45W LED NORMAL LUMINARIES FIXTURE POLE MOUNTED
- WELDING SOCKET WITH INTEGRATED JB
- SMALL POWER SOCKET WITH INTEGRATED JB
- TWILIGHT RELAY SENSOR

JB TAG:	JB-TAG
TAG:	TAG
ELE:	ELEVATION
STD:	STANDARD

REFERENCE DOCUMENTS

123A90-DDL-PP-DL-70070	PLOT PLAN - LOWER & UPPER DECK
123A90-DDL-EL-DL-20100	ELECTRICAL EQUIPMENT LAYOUT - TOP DECK
123A90-DDL-EL-DD-20091	ELECTRICAL TYPICAL INSTALLATION DETAILS - LIGHTING SYSTEM
123A90-DDL-EL-DD-20092	ELECTRICAL TYPICAL INSTALLATION DETAILS - POWER SYSTEM & CABLE INSTALLATION
123A90-DDL-EL-RE-20153	LIGHTING CALCULATION STUDY REPORT
123A90-DDL-ST-DD-90076	IDENTIFICATION PANELS ASSEMBLY AND DETAILS

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	02/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	28/05/24	ASR	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DL-20118**

REV.:	DATE:	SIGNATURE:
1_G	09/01/25	V.Ramponi

ROSETTI MARINO SpA

CROSSWIND | ROSETTI MARINO

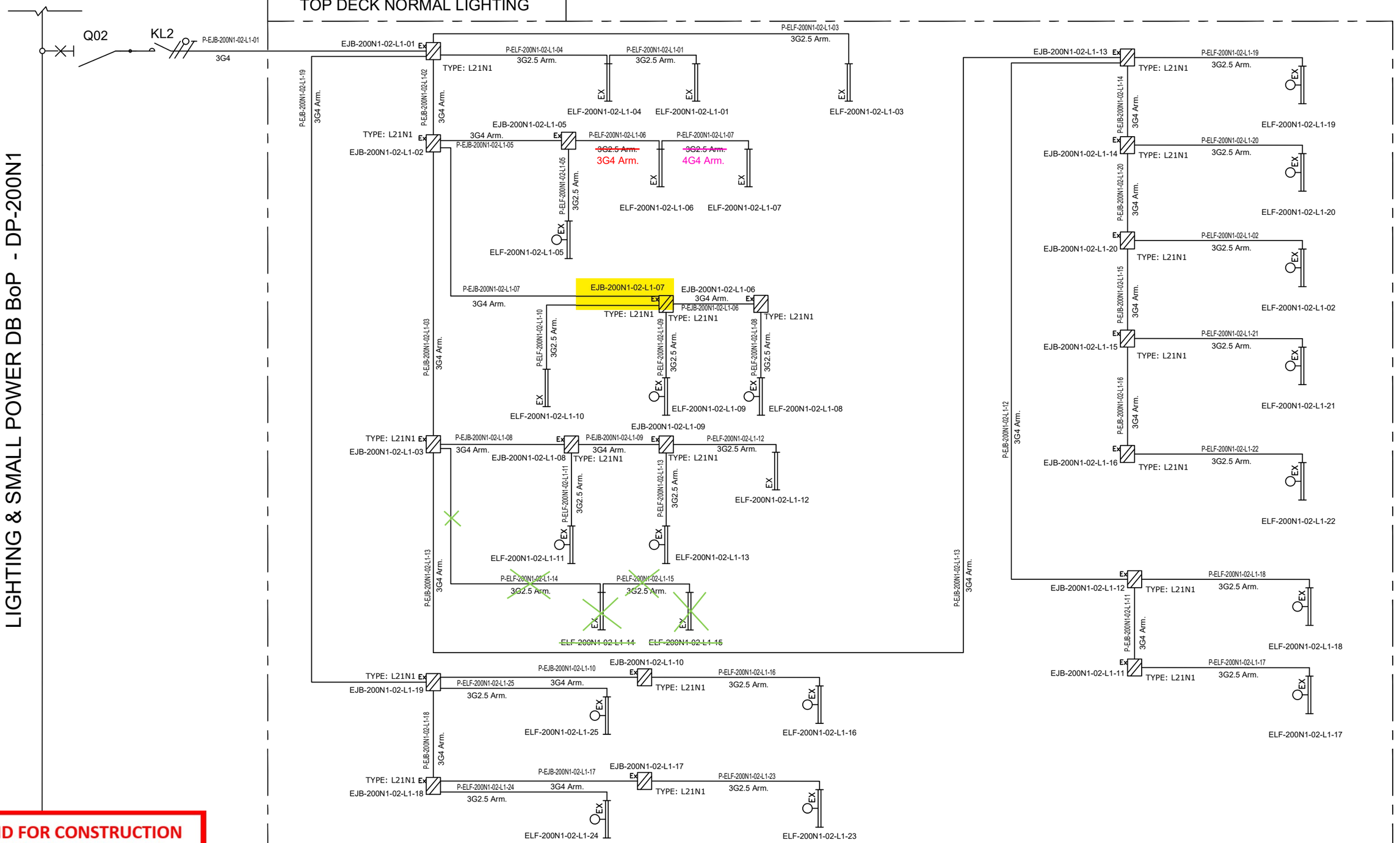
TITLE : BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET LAYOUT – TOP DECK

CONTRACT NO./TITLE	CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK		SCALE	1:150
DRAWN ASR	CHECKED FMA/AMA	APPROVED FPA/DLO	DATE	01/08/24
A1	DRAWING NO. 123A90-DDL-EL-DL-20118		SHEET 1of2	REV. 01

File Name : 123A90-DDL-EL-DL-20118

LIGHTING & SMALL POWER DB BoP - DP-200N1

TOP DECK NORMAL LIGHTING



VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DG-20125**

REV.:	DATE:	SIGNATURE:
2_G	16/01/25	G.Randi

ROSETTI MARINO SpA

CROSSWIND

ROSETTI MARINO

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	08/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	01/07/24	ASR	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

TITLE : BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET CIRCUIT DIAGRAM
TOP DECK–NORMAL LIGHTING

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE : NTS

A3

DRAWING NO. 123A90–DDL–EL–DG–20125

SHEET 010

REV. 01

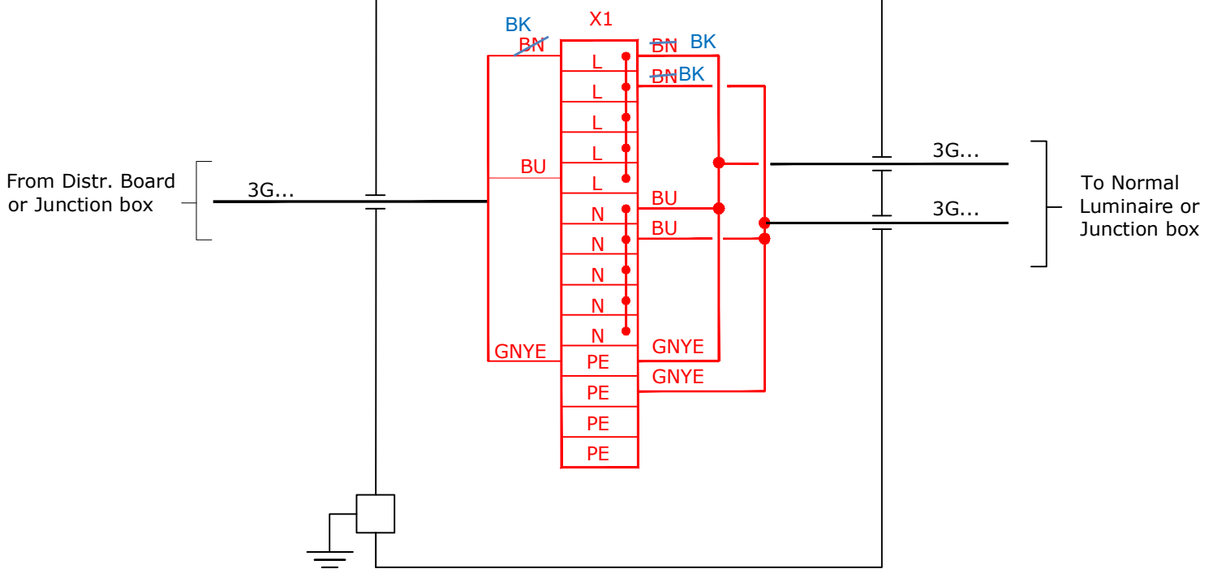
F.to UNI A3: 420mmx297mm

File Name : 123A90–DDL–EL–DG–20125

TYPE : L21N1 & L21N2

ITEM: NORMAL LIGHTING JUNCTION BOX

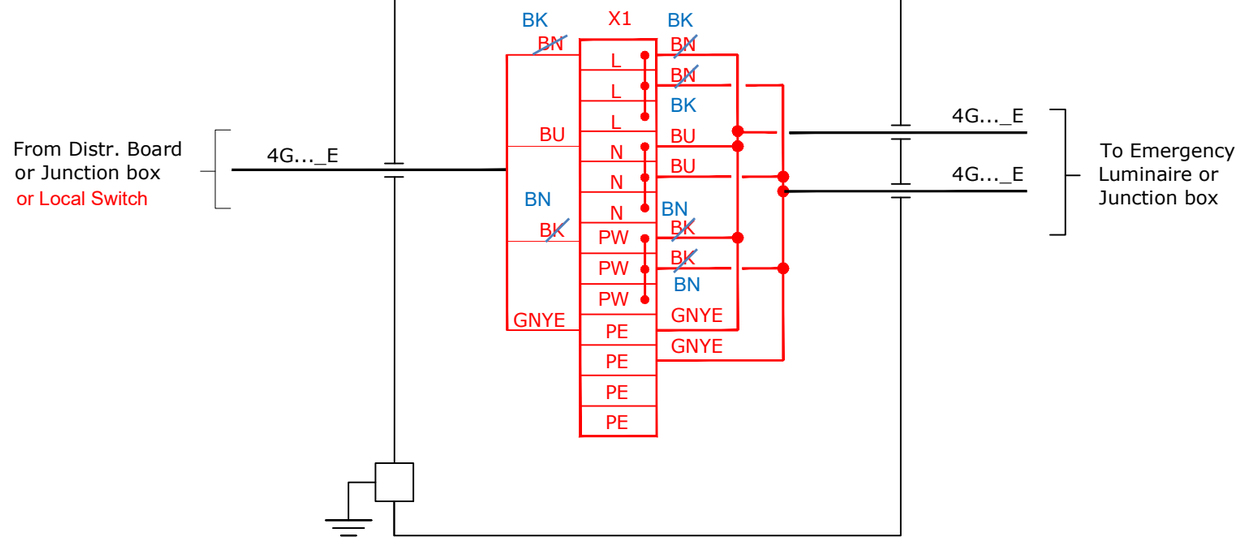
TAG : Typical



TYPE : L21E1 & L21E2

ITEM: EMERGENCY LIGHTING JUNCTION BOX

TAG : Typical



VALID FOR CONSTRUCTION

FDL DWG: **123A90-FDL-EL-DG-20125**

REV.:	DATE:	SIGNATURE:
2_G	16/01/25	G.Randi

ROSETTI MARINO SpA

CROSSWIND

ROSETTI MARINO

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	08/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)

TITLE : BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET CIRCUIT DIAGRAM
TYPICAL JB INTERCONNECTING DIAGRAM

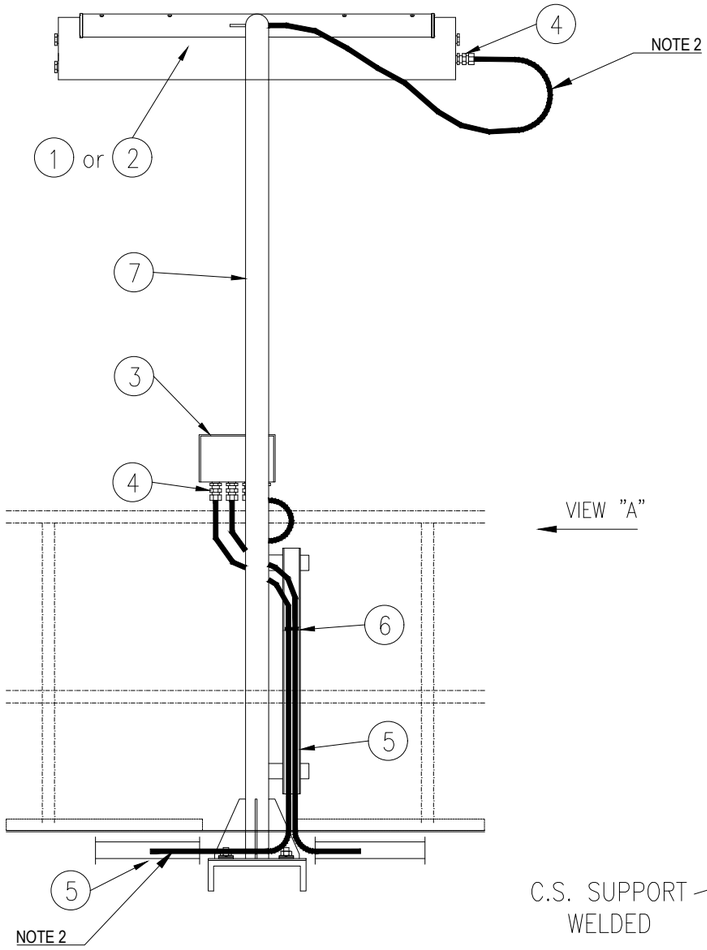
CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK | SCALE : NTS

A3	DRAWING NO.	SHEET	REV.
	123A90-DDL-EL-DG-20125	016	01

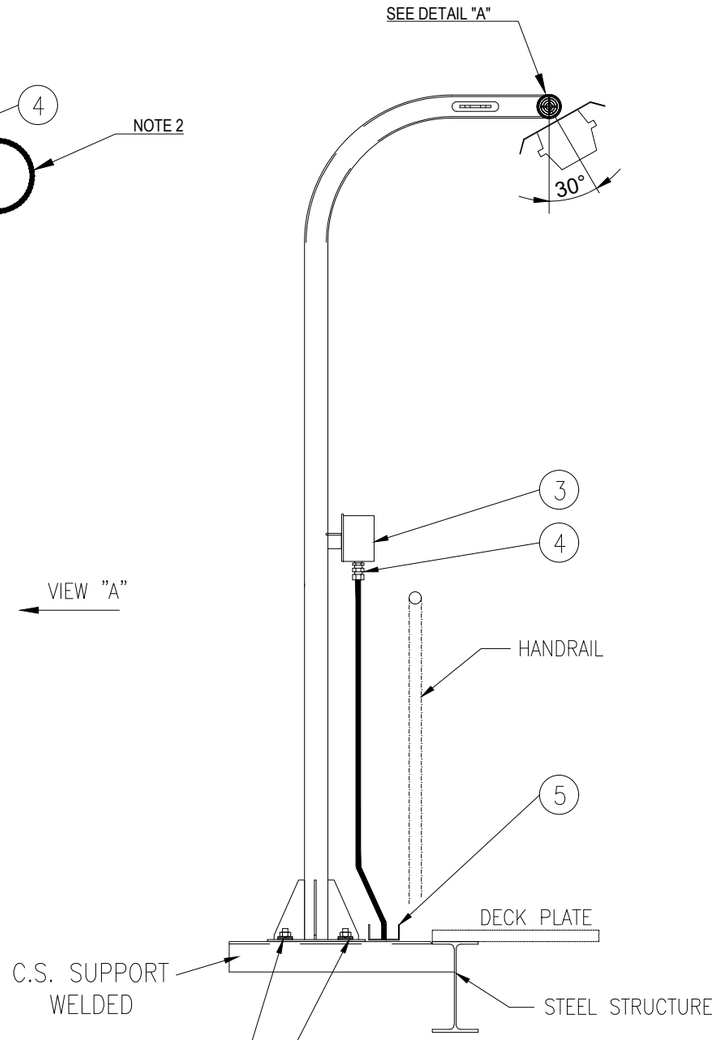
F.to UNI A3: 420mmx297mm

File Name : 123A90-DDL-EL-DG-20125

L11A

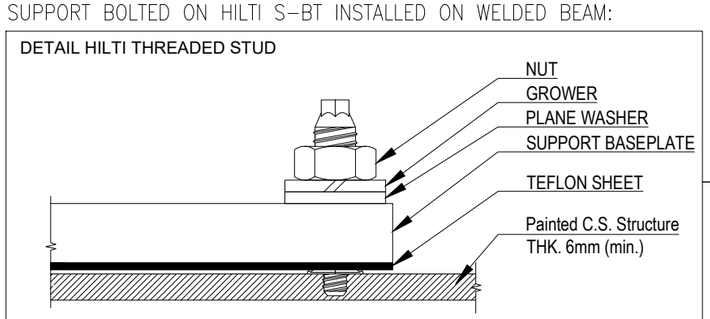


VIEW "A"

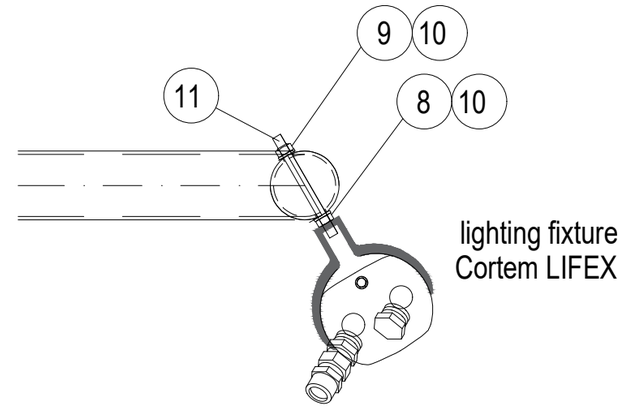


VIEW "A"

SUPPORT BOLTED ON HILTI S-BT INSTALLED ON WELDED BEAM:



POS.	DESCRIPTION	MATERIAL	SIZE	Q.TY	NOTE
1	42W LED LUMINARIES	ALUMINIUM ALLOY		1	
2	45W LED LUMINARIES C/W BATTERY	ALUMINIUM ALLOY		1	
3	JUNCTION BOX (Ex)	GRP		1	NOTE 1
4	CABLE GLAND C/W EARTH TAG, WASHERS, LOCKNUT AND WEATHERPROOF WASHERS	BRASS NICKEL PLATED		AS REQ.	
5	CABLE TRAY	AISI 316L			
6	STAINLESS STEEL NYLON COATED CABLE TIE	SS NYLON COATED			
7	POLE SUPPORT FOR LAMP	AISI 316L	2"		
8	NUT	AISI 316L	M8		
9	SELF.LOCKING NUT	AISI 316L	M8		
10	LARGE PLANE WASHER (24mm DIAM.)	AISI 316L	M8		
11	THREADED ROD M8x100	AISI 316L	M8		



DETAIL "A"

NOTES:

1) FOR LAMPS IN HAZARDOUS AREA, USE ARMOURED CABLE, DOUBLE SEAL CABLE GLAND AND EX JUNCTION BOX.

2) ALWAYS ENSURE CABLE LENGTH IS >3m

VALID FOR CONSTRUCTION

REV.:	DATE:	SIGNATURE:
2_B	12/12/24	C.Pilato

ROSETTI MARINO SpA

02

CROSSWIND

ROSETTI MARINO

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	30/09/24	GRA	AMA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	04/07/24	NLK	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	21/11/23	SPS	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL TYPICAL INSTALLATION DETAILS-LIGHTING SYSTEM
LIGHTING FIXTURE MOUNTED ON POLE

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK | SCALE : NTS

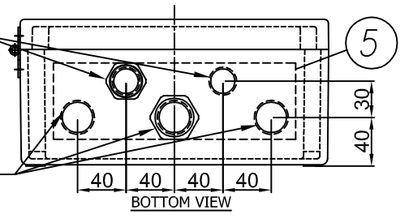
A3 | DRAWING NO. 123A90-DDL-EL-DD-20091 | SHEET 014 | REV. 02

F.to UNI A3: 420mmx297mm

File Name : 123A90-DDL-EL-DD-20091 REV.02.DWG

(10)(4) N°2 PASSING HOLES Ø20.2
C/W N°1 BNK PLUG M20 +
N°1 DUSTPROOF PVC PLUG

(3)(3) N°3 PASSING HOLES Ø25.2
C/W N°1 BNK PLUG M25 +
N°2 DUSTPROOF PVC PLUG



BOTTOM VIEW

(8) I2400722-B015I00029809

TECHNOR ITALSMEA
A COMPANY OF MARECHAL ELECTRIC
Via Italia 33 - 20060 Cassano (MI) ITALY

CE 0080 Ex II 2G II 2D
FIDI 21ATEX 0090X
IECEx FIDI 21.0015X
Year of construction:

MADE IN ITALY

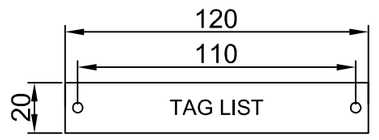
TYPE: AQ-252612P
230VAC 50Hz 20A
Max Dis. P. 6W

Ex eb IIC T6 Gb
Ex tb IIIC T85°C Db
IP66
T.amb. -20/+40°C
Serial Nr.

WARNINGS : DO NOT OPEN WHEN ENERGIZED

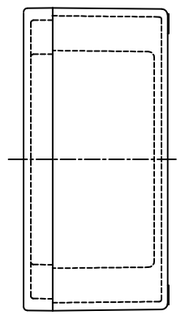
A002MAX

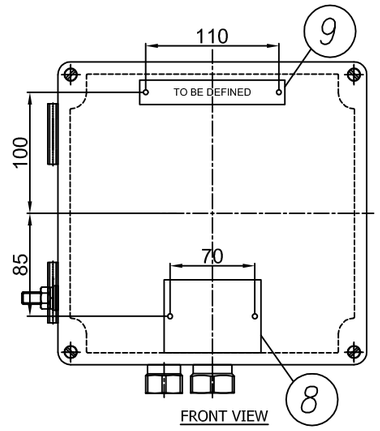
(9) PLATE DETAIL



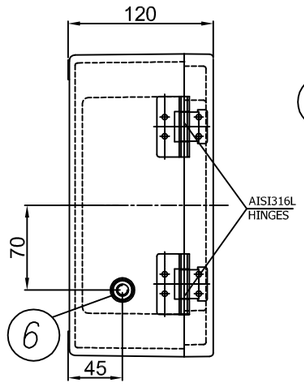
MATERIAL: LAMINATED PLASTIC
BACKGROUND: WHITE
LETTERS: BLACK

(7) Terminals numbered: NOTE 1

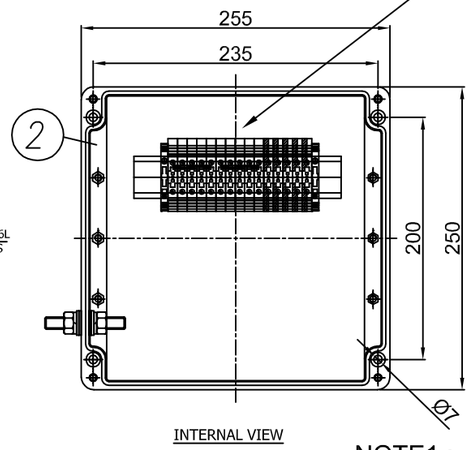

RIGHT VIEW



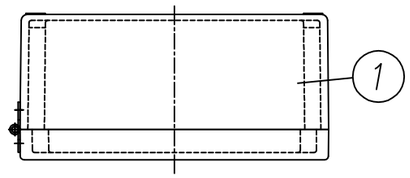
FRONT VIEW



LEFT VIEW



INTERNAL VIEW



TOP VIEW

NOTE1 :
- JB for Normal Lighting have terminals bridge: L-L-L-L-L, N-N-N-N-N, PE-PE-PE-PE-PE - JB for Emergency Lighting have terminals bridge: L-L-L, N-N-N, PW-PW-PW, PE-PE-PE-PE-PE

ITEM	DESCRIPTION	Pcs Q.TY	NOTE/MAT.	CODE	MANUFACTURER
11	DUSTPROOF PVC PLUG Ø25	2	–	.	TECHNOR ITALSMEA
10	DUSTPROOF PVC PLUG Ø20	1	–	.	TECHNOR ITALSMEA
9	LAMINATED PLASTIC TAG 120X20	1	–	.	TECHNOR ITALSMEA
8	AISI316L CERTIFICATE PLATE 80X60	1	–	.	TECHNOR ITALSMEA
7	BEIGE TERMINAL BLOCK SIZE 6 SQMM EARTH TERMINAL BLOCK SIZE 6 SQMM	10 5	WDU–6 WPE–6	.	WEIDMULLER
6	AISI316L INT/EXT EARTH BOLT M10	1	BTP–10	.	TECHNOR ITALSMEA
5	BRASS CONTINUITY PLATE THK. 0.8 MM	1	–	.	TECHNOR ITALSMEA
4	NICKEL PLATED BRASS PLUG M20	1	T20	.	TECHNOR ITALSMEA
3	NICKEL PLATED BRASS PLUG M25	1	T25	.	TECHNOR ITALSMEA
2	INTERNAL MOUNTING PLATE	1	PS–2526	.	TECHNOR ITALSMEA
1	GRP ENCLOSURE	1	AQ–252612P	.	TECHNOR ITALSMEA

-UNPAINTED (BLACK NATURAL)
Q.TY 92, ITEM 20: 2JBXXGPEE, ELEJB02

Explosion Proof
Electrical Equipment
Materiali Elettrici Antideflagranti
TECHNOR ITALSMEA
A COMPANY OF MARECHAL ELECTRIC

CROSSWIND

ROSETTI MARINO

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
05	20/12/24	FB	OB	OB	ACCEPTED FOR CONSTRUCTION (AFC)
04	26/11/24	FB	OB	OB	ACCEPTED FOR CONSTRUCTION (AFC)
03	25/10/24	FB	OB	OB	ACCEPTED FOR CONSTRUCTION (AFC)
02	12/09/24	FB	OB	OB	ACCEPTED FOR CONSTRUCTION (AFC)
01	03/09/24	FB	OB	OB	ACCEPTED FOR CONSTRUCTION (AFC)
00	30/07/24	FB	OB	OB	ISSUE FOR REVIEW (IFR)

TITLE : BASE LOAD POWER HUB (BLPH)

Junction Box for Normal & Emergency Lighting

CONTRACT NO./TITLE CW–I–WP4–2023–05/HOLLANDSE KUST NOORD WIND PARK | SCALE : NTS

A3 | DRAWING NO. 1724001481–EL–DA–00003 | SHEET 004 | REV. 05

F.to UNI A3: 420mmx297mm

File Name : 1724001481–EL–DA–00003 Rev. 01

ENCLOSURE N°	TAG LIST	NORMAL LIGHTING	EMERGENCY LIGHTING
1	EJB-200N1-03-L2-04	X	
2	EJB-200N1-03-L2-03	X	
3	EJB-200N1-03-L2-01	X	
4	EJB-200N1-03-L2-02	X	
5	EJB-200N1-03-L2-12	X	
6	EJB-200N1-03-L2-11	X	
7	EJB-200N1-03-L2-10	X	
8	EJB-200N1-03-L2-09	X	
9	EJB-200N1-03-L2-08	X	
10	EJB-200N1-03-L2-07	X	
11	EJB-200N1-03-L2-06	X	
12	EJB-200N1-03-L2-05	X	
13	EJB-200N1-03-L2-14	X	
14	EJB-200N1-03-L2-13		X
15	EJB-200N1-09-L2-17		X
16	EJB-200N1-09-L2-01		X
17	EJB-200N1-09-L2-04		X
18	SPARE (TO BE PROVIDED BLANK)		X
19	EJB-200N1-09-L2-02		X
20	EJB-200N1-09-L2-15		X
21	EJB-200N1-09-L2-14		X
22	EJB-200N1-09-L2-13		X
23	EJB-200N1-09-L2-12		X
24	EJB-200N1-09-L2-11		X
25	EJB-200N1-09-L2-10		X
26	EJB-200N1-09-L2-09		X
27	EJB-200N1-09-L2-08		X
28	EJB-200N1-09-L2-07		X
29	EJB-200N1-09-L2-06		X
30	EJB-200N1-09-L2-05		X
31	EJB-200N1-09-L2-16	X	
32	EJB-200N1-04-L3-01	X	
33	EJB-200N1-04-L3-02	X	
34	EJB-200N1-10-L3-05		X
35	EJB-200N1-10-L3-06		X
36	EJB-200N1-10-L3-07		X
37	EJB-200N1-10-L3-08		X
38	EJB-200N1-10-L3-09		X
39	EJB-200N1-10-L3-02		X
40	EJB-200N1-10-L3-01		X
41	EJB-200N1-10-L3-03		X
42	EJB-200N1-10-L3-04		X
43	EJB-200N1-02-L1-03	X	
44	EJB-200N1-02-L1-02	X	
45	EJB-200N1-02-L1-01	X	
46	SPARE (TO BE PROVIDED BLANK)	X	
47	EJB-200N1-02-L1-10	X	
48	EJB-200N1-02-L1-19	X	
49	EJB-200N1-02-L1-18	X	

ENCLOSURE N°	TAG LIST	NORMAL LIGHTING	EMERGENCY LIGHTING
50	EJB-200N1-02-L1-17	X	
51	EJB-200N1-02-L1-16	X	
52	EJB-200N1-02-L1-15	X	
53	EJB-200N1-02-L1-14	X	
54	EJB-200N1-02-L1-13	X	
55	EJB-200N1-02-L1-12	X	
56	EJB-200N1-02-L1-11	X	
57	EJB-200N1-02-L1-06	X	
58	EJB-200N1-02-L1-05	X	
59	EJB-200N1-02-L1-07	X	
60	EJB-200N1-02-L1-08	X	
61	EJB-200N1-02-L1-09	X	
62	EJB-200N1-08-L1-03		X
63	SPARE (TO BE PROVIDED BLANK)		X
64	EJB-200N1-08-L1-01		X
65	EJB-200N1-08-L1-04		X
66	EJB-200N1-08-L1-19		X
67	EJB-200N1-08-L1-18		X
68	EJB-200N1-08-L1-17		X
69	EJB-200N1-08-L1-16		X
70	EJB-200N1-08-L1-15		X
71	EJB-200N1-08-L1-14		X
72	EJB-200N1-02-L1-20	X	
73	EJB-200N1-08-L1-12		X
74	EJB-200N1-08-L1-11		X
75	EJB-200N1-08-L1-10		X
76	EJB-200N1-08-L1-20		X
77	EJB-200N1-08-L1-05		X
78	EJB-200N1-08-L1-06		X
79	EJB-200N1-08-L1-07		X
80	EJB-200N1-08-L1-09		X
81	EJB-200N1-08-L1-08		X
82	EJB-200F2-01	X	
83	EJB-200F2-02	X	
84	SPARE (TO BE PROVIDED BLANK)	X	
85	SPARE (TO BE PROVIDED BLANK)	X	
86	SPARE (TO BE PROVIDED BLANK)	X	
87	SPARE (TO BE PROVIDED BLANK)	X	
88	SPARE (TO BE PROVIDED BLANK)	X	
89	SPARE (TO BE PROVIDED BLANK)		X
90	SPARE (TO BE PROVIDED BLANK)		X
91	SPARE (TO BE PROVIDED BLANK)		X
92	SPARE (TO BE PROVIDED BLANK)		X

Q.TY 92, ITEM 20: 2JBXXGPEE, ELEJB02

Explosion Proof
Electrical Equipment
Materiali Elettrici Antideflagranti

TECHNOR ITALSMEA
A COMPANY OF MARECHAL ELECTRIC

CROSSWIND

ROSETTI MARINO

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
05	20/12/24	FB	OB	OB	ACCEPTED FOR CONSTRUCTION (AFC)
04	26/11/24	FB	OB	OB	ACCEPTED FOR CONSTRUCTION (AFC)
03	25/10/24	FB	OB	OB	ACCEPTED FOR CONSTRUCTION (AFC)
02	12/09/24	FB	OB	OB	ACCEPTED FOR CONSTRUCTION (AFC)
01	03/09/24	FB	OB	OB	ACCEPTED FOR CONSTRUCTION (AFC)
00	30/07/24	FB	OB	OB	ISSUE FOR REVIEW (IFR)

TITLE : BASE LOAD POWER HUB (BLPH)

Junction Box for Normal & Emergency Lighting–Tag List

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE : NTS

A3

DRAWING NO. 1724001481-EL-DA-00003

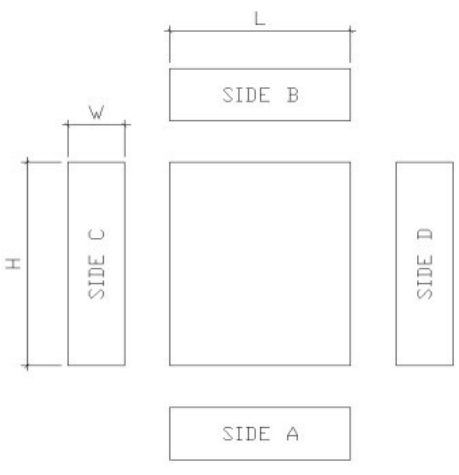
SHEET 005

REV. 05

F.to UNI A3: 420mmx297mm

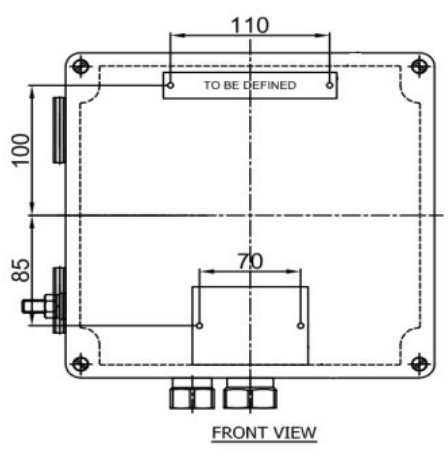
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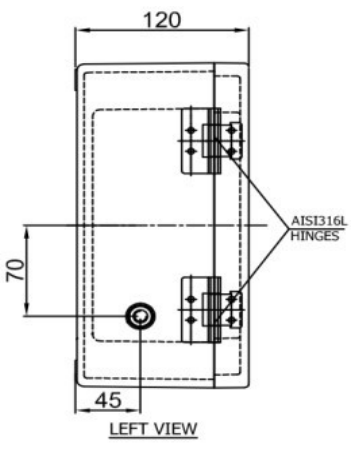
Row	Data Sheet for Control Stations, Junction Boxes and Sockets				Rev.
1	Junction Box for Normal & Emergency Lighting (Exdb)				
2	Item	Required	Manufacturer Proposal	Comments	
3	Model Number	by Vendor	AQ-252612P		01
4	Serial Number	by Vendor	B011041010004		01
5	Quantity	43+5(spare)		(39+9 spare)	01
6	Appkication	Lighting pole JB/Lighting JB			00
7	**Installation area**				
8	Indoor/Outdoor	Outdoor			00
9	Safe Area/Hazardous Area	Hazardous area			00
10	Zone 1/Zone 2	Zone-1			00
11	Temp. Class	Zone 1 Gas Group IIC (or) IIB + H2, T1	Ex eb IIC, T6 Gb		01
12	**Electrical input data**				
13	Voltage	230 V ac	230 V ac		01
14	Number of Phases	1ph + N + PE			00
15	**Material**				
16	Body	GRP	GRP		01
17	Execution	Ex eb	Ex eb		00
18	Protection Degree	IP56	IP 66		01
19	**Accessories**				
20	Hinged Cover	Required	AISI316L Hinges		01
21	Gasket	Required			00
22	Removable Gland Plates	Required	Brass Continuity plate 0.8mm thick		01
23	Internal Mounting Plate	Thickness 3mm threaded		connected to Internal ground bar	00
24	Internal Ground Bar	Required		connected to earth stud	00
25	Earth Stud	Required			00
26	Drainage Valve	Required			00
27	Pad lockable Cover	Required			00
28	Identification Label	Trafolite/ Stainless Steel	Laminated Plastic	for all label	01
29	**Side 'A'**				
30	Hubs Qty.	5	5		01
31	Size	No.3 M25, No.2 M20	No.3 Ø 25.2 mm, No.2 Ø 20.2 mm		01
32	Thread	ISO-M			00
33	Plug	No. 1 M20, No.1 M25	No. 1 Ø 20.2 mm, No.1 Ø 25.2 mm	nickel-plated brass	01
34	**Side 'B'**				
35	Hubs Qty.	Not Required			00
36	Size	NA			00
37	Thread	NA			00
38	**Side 'C'**				
39	Hubs Qty.	Not Required			00
40	Size	NA			00
41	Thread	NA			00
42	**Side 'D'**				
43	Hubs Qty.	Not Required			00
44	Size	NA			00
45	Thread	NA			00
46	**Terminals**				
47	Size [mm^2]	Suitable for 6 Sq.mm & 2.5 Sq.mm Cable	M25 & M20	suitable with wire-end ferrules DIN 46228	01
48	Qty.	n°5 for Ph // n°5 for N // n°5 for PE	n°5 for Ph // n°5 for N // n°5 for PE	Ex - jumpered	01
49	**Bonding Cable (yellow/Green)**				
50	Size [mm^2]	by vendor		6 mm^2	01
51	Qty.	Min. 0.15m			00
52	**Dimension**				
53	Height 'H' [mm]	by vendor	120 mm		01
54	Width 'W' [mm]	by vendor	250 mm		01
55	Length 'L' [mm]	by vendor	255 mm		01
56	Weight [Kg]	by vendor	2.65 Kg		01
57	JB Code (*)	Remarks			
58					



NOTES:

(*) Filled by Vendor





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Tag Number	Tag Description	Location	P.O.	Vendor	Manufacturer	Serial Number	Model Type Catalogue Number	Installation Zone	ATEX Certificate Number	Reference Document	ATEX Certification Marking	Notes / Comments	Skid / Package	Electrical Equip.	Barrier Calculation Ref.	Special Conditions of Safe Use Applicable	3D Location
CB-200F4B	AC UPS F&G - Battery Isolator-B	CONTAINER B-300 (LOWER DECK)	1724000372	3W Power	Cortem Spa		EJBC	Zone 1	EPT 20 ATEX 4075X	1724000372-EL-DG-00011	II 2GDEx db IIC T6 Gb Ex tb IIIC T 85°C Db	-	N/A	True	N/A	False	
EAT-200N1-01	Trace Heating - Remote Ambient Thermostat	LOWER DECK	1724001647	nVent	nVent	1244-022663	ETS-05-A2-E-A	Zone 1	Baseefa 13ATEX0137	1724001647-EL-DD-00004	II 2(1)G Ex eb ia mb [ia Ga] IIC T5 Gb - 40ºC ≤ Ta ≤ +60ºC II 2D Ex tb IIIC T100ºC Db	-	N/A	True	N/A	False	
EHT-1001-A	Self-regulating heat cable	LOWER DECK	1724001647	nVent	nVent	469145-000	3BTV2-CT	Zone 1	SGS20ATEX0048X	1724001647-EL-DD-00004	II 2 GD Ex 60079-30-1 eb IIC T6 Gb	-	N/A	True	N/A	True	
EHT-1002-A	Self-regulating heat cable	LOWER DECK	1724001647	nVent	nVent	469145-000	3BTV2-CT	Zone 1	SGS20ATEX0048X	1724001647-EL-DD-00004	II 2 GD Ex 60079-30-1 eb IIC T6 Gb	-	N/A	True	N/A	True	
EHT-1003-A	Self-regulating heat cable	LOWER DECK	1724001647	nVent	nVent	469145-000	3BTV2-CT	Zone 1	SGS20ATEX0048X	1724001647-EL-DD-00004	II 2 GD Ex 60079-30-1 eb IIC T6 Gb	-	N/A	True	N/A	True	
EHT-1004-A	Self-regulating heat cable	UPPER DECK	1724001647	nVent	nVent	469145-000	3BTV2-CT	Zone 1	SGS20ATEX0048X	1724001647-EL-DD-00004	II 2 GD Ex 60079-30-1 eb IIC T6 Gb	-	N/A	True	N/A	True	
EHT-1004-B	Self-regulating heat cable	UPPER DECK	1724001647	nVent	nVent	469145-000	3BTV2-CT	Zone 1	SGS20ATEX0048X	1724001647-EL-DD-00004	II 2 GD Ex 60079-30-1 eb IIC T6 Gb	-	N/A	True	N/A	True	
EHT-1005-A	Self-regulating heat cable	UPPER DECK	1724001647	nVent	nVent	469145-000	3BTV2-CT	Zone 1	SGS20ATEX0048X	1724001647-EL-DD-00004	II 2 GD Ex 60079-30-1 eb IIC T6 Gb	-	N/A	True	N/A	True	
EHT-1006-A	Self-regulating heat cable	UPPER DECK	1724001647	nVent	nVent	469145-000	3BTV2-CT	Zone 1	SGS20ATEX0048X	1724001647-EL-DD-00004	II 2 GD Ex 60079-30-1 eb IIC T6 Gb	-	N/A	True	N/A	True	
EHT-1007-A	Self-regulating heat cable	LOWER DECK	1724001647	nVent	nVent	469145-000	3BTV2-CT	Zone 1	SGS20ATEX0048X	1724001647-EL-DD-00004	II 2 GD Ex 60079-30-1 eb IIC T6 Gb	-	N/A	True	N/A	True	
EHT-2002-A	Self-regulating heat cable	UPPER DECK	1724001647	nVent	nVent	469145-000	3BTV2-CT	Zone 1	SGS20ATEX0048X	1724001647-EL-DD-00004	II 2 GD Ex 60079-30-1 eb IIC T6 Gb	-	N/A	True	N/A	True	
EJB-200F2-01	Top Obstruction Lights Junction Box	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990082	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	HAZARDOUS-AREA_8 HAZARDOUS-AREA_3
EJB-200F2-02	Intermediate obstruction lights junction box	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990083	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	HAZARDOUS-AREA_4
EJB-200N1-02-L1-01	Normal Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990045	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-02-L1-02	Normal Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990044	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-02-L1-03	Normal Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990043	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	HAZARDOUS-AREA_3
EJB-200N1-02-L1-05	Normal Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990058	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-02-L1-06	Normal Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990057	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-02-L1-07	Normal Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990059	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-02-L1-08	Normal Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990060	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-02-L1-09	Normal Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990061	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-02-L1-10	Normal Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990047	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-02-L1-11	Normal Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990056	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-02-L1-12	Normal Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990055	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-02-L1-13	Normal Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990054	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-02-L1-14	Normal Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990053	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-02-L1-15	Normal Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990052	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-02-L1-16	Normal Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990051	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-02-L1-17	Normal Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990050	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-02-L1-18	Normal Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990049	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-02-L1-19	Normal Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990048	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-02-L1-20	Normal Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990072	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-03-L2-01	Normal Lighting JB	LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990003	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-03-L2-02	Normal Lighting JB	LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990004	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-03-L2-03	Normal Lighting JB	LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990002	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-03-L2-04	Normal Lighting JB	LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990001	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-03-L2-05	Normal Lighting JB	LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990012	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-03-L2-06	Normal Lighting JB	LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990011	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-03-L2-07	Normal Lighting JB	LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990010	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-03-L2-08	Normal Lighting JB	LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990009	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-03-L2-09	Normal Lighting JB	LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990008	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-03-L2-10	Normal Lighting JB	LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990007	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-03-L2-11	Normal Lighting JB	LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990006	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-03-L2-12	Normal Lighting JB	LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990005	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-03-L2-13	Normal Lighting JB	LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990014	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-03-L2-14	Normal Lighting JB	LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990013	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-04-L3-01	Stair Normal Lighting JB	LOWER DECK STAIRS	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990032	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-04-L3-02	Stair Normal Lighting JB	LOWER DECK STAIRS	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990033	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-08-L1-01	Emergency Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990064	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-08-L1-03	Emergency Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990062	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	HAZARDOUS-AREA_3
EJB-200N1-08-L1-04	Emergency Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990065	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-08-L1-05	Emergency Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990077	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-08-L1-06	Emergency Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990078	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	

IECEx Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION
IEC Certification System for Explosive Atmospheres

for rules and details of the IECEx Scheme visit www.iecex.com

Certificate No.:	**IECEx FIDI 21.0015X**	Page 1 of 4	Certificate history: Issue 0 (2022-02-18)
Status:	**Current**	Issue No: 1	
Date of Issue:	2023-05-04		

Applicant: **Technor Italsmea S.p.A.**
Via Italia 33
20060 Gessate (MI)
Italy

Equipment: **Junction boxes, local control stations and local control panels**

Optional accessory: Model reference: AQ-***P / AQ-***AL / AR-***P / AR-***AL / AQ-***P-HT / AQ-***AL-HT / AR-***P-HT / AR-***AL-HT / SB-*** / ST-*** / EFE-*** / EFXE-*** AL/ EFXE-***SB / EFXE-***ST / EFE-***-HT / EFXE-***AL-HT

Type of Protection: **Flameproof enclosure 'db'; Intrinsic safety 'ia/ib'; Increased safety 'eb'; Encapsulation 'mb', Protection by enclosure 'tb'**

Marking: **Ex ia IIC/IIB T6...T4 Ga**(2) or

Ex db eb ia/ib mb [(3)] IIC/IIB T6...T4 Gb(1) or

Ex eb IIC/IIB T6...T4 Gb(1) or

Ex tb IIIC T85°C...T135°C Db

(1) Others type of protection additional to Ex e/eb depending to the components actually mounted.

(2) In case of enclosures containing Ex e/Ex eb terminals and/or Ex ia Ga already certified components (with compatible marking) only.

(3) Associated equipment protection depending on the components actually mounted (see lists): e.g. [ia/ib/ia Ga/ia IIIC Da] and/or [ia IIIC Da] or [ia/ib/ia Ga/ia IIIC Da] and/or [ia/ib/ia Ga] [ia IIIC Da]

Approved for issue on behalf of the IECEx Certification Body: **Marino Kelava**

Position: **Certification Signatory**

Signature:
(for printed version)

Date:
(for printed version)

1. This certificate and schedule may only be reproduced in full.
2. This certificate is not transferable and remains the property of the issuing body.
3. The Status and authenticity of this certificate may be verified by visiting www.iecex.com or use of this QR Code.

Certificate issued by:

Fiditas Ltd
Slavka Tomerlina 44
HR-10361 Zagreb-Sesvete
Croatia

Fiditas
explosion safety solutions

IECEx Certificate of Conformity

Certificate No.: **IECEx FIDI 21.0015X**

Date of issue: 2023-05-04 Issue No: 1

Manufacturer: **Technor Italsmea S.p.A.**
Via Italia 33
20060 Gessate (MI)
Italy

Manufacturing locations:

This certificate is issued as verification that a sample(s), representative of production, was assessed and tested and found to comply with the IEC Standard list below and that the manufacturer's quality system, relating to the Ex products covered by this certificate, was assessed and found to comply with the IECEx Quality system requirements.This certificate is granted subject to the conditions as set out in IECEx Scheme Rules, IECEx 02 and Operational Documents as amended

STANDARDS :
The equipment and any acceptable variations to it specified in the schedule of this certificate and the identified documents, was found to comply with the following standards

IEC 60079-0:2017 Explosive atmospheres - Part 0: Equipment - General requirements
Edition:7.0

IEC 60079-1:2014-06 Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"
Edition:7.0

IEC 60079-11:2011 Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"
Edition:6.0

IEC 60079-18:2017 Explosive atmospheres - Part 18: Protection by encapsulation "m"
Edition:4.1

IEC 60079-31:2013 Explosive atmospheres - Part 31: Equipment dust ignition protection by enclosure "t"
Edition:2

IEC 60079-7:2017 Explosive atmospheres - Part 7: Equipment protection by increased safety "e"
Edition:5.1

This Certificate **does not** indicate compliance with safety and performance requirements other than those expressly included in the Standards listed above.

TEST & ASSESSMENT REPORTS:
A sample(s) of the equipment listed has successfully met the examination and test requirements as recorded in:

Test Reports:

HR/FIDI/ExTR21.0016/00 HR/FIDI/ExTR21.0016/01

Quality Assessment Report:

FR/INE/QAR08.0002/15

IECEx Certificate of Conformity

EQUIPMENT:
Equipment and systems covered by this Certificate are as follows:

Junction boxes, local control stations and local control panels series AQ-…..; AR-…..; SB…..; EFE-…..; EFXE-….. use certified enclosures of various sizes, manufactured by Technor Italsmea S.p.A., type: AQ-.... ; AR-....; SB-...; ST- …, certificate IECEx FIDI 21.0012U.

Enclosures coded …-HT are made in glass fiber reinforced polyester resin or in aluminum, and covered by IECEx component certificates: IECEx PTB 08.0003U, enclosure type: 26.****** and IECEx PTB 08.0003U, enclosure type: 25.******.

Enclosures may be equipped with certified Ex equipment or Ex components and Ex terminals listed in manufacturer's documentation. Certified Ex equipment or Ex components and Ex terminals must be used according to data available in related component or equipment certificates, in particular relevant temperature range, voltage and current limitations. The cable glands or plugs, with separate IECEx certificate, made in type of protection ‘eb’ and/or ‘tb’ with appropriate IP protection are mounted according to related manufacturer’s installation instructions. Each enclosure is provided with internal earthing certified terminal or earthing screw or bolt. Metal enclosures are provided by external earthing screw or bolt. Metal and polyester enclosures can be provided by passing through earthing terminals.

All enclosures can be provided by:
- Externally installed accessories as specified in manufacturer documents,
- Drain breath device type ECR3, included in this certificate,
- Internal/external earthing plate.

For other description see Annex.

SPECIFIC CONDITIONS OF USE: YES as shown below:

- Enclosures marked with warning label: “WARNING – POTENTIAL ELECTROSTATIC CHARGING HAZARD – SEE INSTRUCTIONS” must be cleaned only by damp cloth or antistatic products.
- Apparatus equipped with drain / venting valve Technor Italsmea model ECR3:
  - the valve cannot be open when an explosive dust atmosphere is present.
  - The valve can be open when an explosive gas atmosphere is present: when open, the equipment reaches the protection degree IP44.
  - When the valve is left in open position, it should be protected from light exposure.
- On the intrinsic safety terminals, the user must only connect devices with compatible intrinsic safety parameters according to IEC 60079-14.

IECEx Certificate of Conformity

DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)
New IECEx certified Ex products added in the Apparatus list according to list given in HR/FIDI/ ExTR 21.0016/01.

Annex:

IECEx FIDI 21.0015X Technor Equipment Annex1 issue1.pdf

Technical description (continued from original certificate)

Model identification

Junction boxes

A(1)-(2) (3) (4) (5) (6)	(1) –	**Q**: Square size **R**: Rectangular size
	(2) (3) (4)	dimension, in cm
	(5)	Material **P**: Glass fiber reinforced polyester resin **AL**: Aluminium Alloy
	(6)	None: up to internal temperature of 105°C **HT**: up to internal temperature of 130°C
SB- (2) (3) (4)	(2) (3) (4)	dimension, in cm
ST- (2) (3) (4)	(2) (3) (4)	dimension, in cm

Panel boards

EFE- (2) (3) (4) (6)	(2) (3) (4)	dimension, in cm
	(6)	None: up to internal temperature of 105°C **HT**: up to internal temperature of 130°C
EFXE- (2) (3) (4) (5) (6)	(2) (3) (4)	dimension, in cm
	(5)	Material **SB** or **ST**: stainless steel **AL**: Aluminium Alloy
	(6)	None: up to internal temperature of 105°C **HT**: up to internal temperature of 130°C

Technical data:

Electrical data:	According to Ex component to actually installed
Ambient temperature:	-50°C to +95°C Other possible ranges are with: - min temperature: -50°C to -20 °C - max temperature of +40 °C to +95 °C
Mechanical protection:	IP55, IP66 or IP67 depending on model

Temperature class and/or maximum surface temperature of any junction box or control panel depend on ambient temperature and internal power dissipation. The values that must be observed are given in relevant tables in this certificate.

For commercial reasons model name listed in the tables below can be modified as follows: first (2) and second (3) pair of digits can be reversed.

Models sizes

Polyester High Temperature		Aluminium High Temperature	
AQ-080806P-HT	EFE-080806-HT	AQ-080806AL-HT	EFXE-080806AL-HT
AQ-080808P-HT	EFE-080808-HT	AR-081306AL-HT	EFXE-081306AL-HT
AR-081106P-HT	EFE-081106-HT	AR-081806AL-HT	EFXE-081806AL-HT
AR-081108P-HT	EFE-081108-HT	AR-082505AL-HT	EFXE-082505AL-HT
AR-081606P-HT	EFE-081606-HT	AQ-101008AL-HT	EFXE-101008AL-HT
AR-081608P-HT	EFE-081608-HT	AR-101608AL-HT	EFXE-101608AL-HT
AR-081906P-HT	EFE-081906-HT	AR-102008AL-HT	EFXE-102008AL-HT
AR-081908P-HT	EFE-081908-HT	AQ-121208AL-HT	EFXE-121208AL-HT
AR-082306P-HT	EFE-082306-HT	AQ-121209AL-HT	EFXE-121209AL-HT
AR-082308P-HT	EFE-082308-HT	AR-122208AL-HT	EFXE-122208AL-HT
AQ-121209P-HT	EFE-121209-HT	AR-122209AL-HT	EFXE-122209AL-HT
AR-122209P-HT	EFE-122209-HT	AR-123608AL-HT	EFXE-123608AL-HT
AQ-161609P-HT	EFE-161609-HT	AQ-141409AL-HT	EFXE-141409AL-HT
AR-162609P-HT	EFE-162609-HT	AR-142009AL-HT	EFXE-142009AL-HT
AR-163609P-HT	EFE-163609-HT	AQ-161609AL-HT	EFXE-161609AL-HT
AR-165609P-HT	EFE-165609-HT	AR-162609AL-HT	EFXE-162609AL-HT
AQ-202017P-HT	EFE-202017-HT	AR-163609AL-HT	EFXE-163609AL-HT
AR-203017P-HT	EFE-203017-HT	AR-165609AL-HT	EFXE-165609AL-HT
AQ-252612P-HT	EFE-252612-HT	AQ-181810AL-HT	EFXE-181810AL-HT
AQ-252616P-HT	EFE-252616-HT	AR-182810AL-HT	EFXE-182810AL-HT
AR-254012P-HT	EFE-254012-HT	AR-102311AL-HT	EFXE-102311AL-HT
AR-254016P-HT	EFE-254016-HT	AR-202311AL-HT	EFXE-202311AL-HT
AR-256012P-HT	EFE-256012-HT	AR-202318AL-HT	EFXE-202318AL-HT
AR-304020P-HT	EFE-304020-HT	AR-232811AL-HT	EFXE-232811AL-HT
AQ-363609P-HT	EFE-363609-HT	AR-233311AL-HT	EFXE-233311AL-HT
AR-406025P-HT	EFE-406025-HT	AR-233318AL-HT	EFXE-233318AL-HT
AQ-414012P-HT	EFE-414012-HT	AR-234011AL-HT	EFXE-234011AL-HT
AQ-414020P-HT	EFE-414020-HT	AR-234023AL-HT	EFXE-234023AL-HT
		AR-236011AL-HT	EFXE-236011AL-HT
		AR-314011AL-HT	EFXE-314011AL-HT
		AR-314014AL-HT	EFXE-314014AL-HT
		AR-314018AL-HT	EFXE-314018AL-HT
		AR-314023AL-HT	EFXE-314023AL-HT
		AR-316011AL-HT	EFXE-316011AL-HT
		AR-316018AL-HT	EFXE-316018AL-HT
		AQ-606020AL-HT	EFXE-606020AL-HT

Polyester		Aluminium		Stainless steel	
AQ-080806P	EFE-080806	AQ-080806AL	EFXE-080806AL	SB-101210	EFXE-101210SB
AQ-080808P	EFE-080808	AR-081306AL	EFXE-081306AL	SB-151510	EFXE-151510SB
AR-081106P	EFE-081106	AR-081806AL	EFXE-081806AL	SB-142013	EFXE-142013SB
AR-081606P	EFE-081606	AR-081808AL	EFXE-081808AL	SB-202010	EFXE-202010SB
AR-081906P	EFE-081906	AR-082505AL	EFXE-082505AL	SB-202016	EFXE-202016SB
AQ-121209P	EFE-121209	AR-082508AL	EFXE-082508AL	SB-202713	EFXE-202713SB
AR-122209P	EFE-122209	AQ-101008AL	EFXE-101008AL	SB-272713	EFXE-272713SB
AQ-161609P	EFE-161609	AR-101508AL	EFXE-101508AL	SB-203016	EFXE-203016SB
AR-162609P	EFE-162609	AR-101608AL	EFXE-101608AL	SB-273513	EFXE-273513SB
AR-163609P	EFE-163609	AR-102008AL	EFXE-102008AL	SB-282816	EFXE-282816SB
AQ-252612P	EFE-252612	AQ-121208AL	EFXE-121208AL	SB-204016	EFXE-204016SB
AQ-252616P	EFE-252616	AR-122209AL	EFXE-122209AL	SB-353516	EFXE-353516SB
AR-254012P	EFE-254012	AQ-141409AL	EFXE-141409AL	SB-282827	EFXE-282827SB
AR-254016P	EFE-254016	AR-142009AL	EFXE-142009AL	SB-355016	EFXE-355016SB
AR-256012P	EFE-256012	AQ-161609AL	EFXE-161609AL	SB-383816	EFXE-383816SB
AQ-414012P	EFE-414012	AR-162410AL	EFXE-162410AL	SB-384516	EFXE-384516SB
		AR-162609AL	EFXE-162609AL	SB-385716	EFXE-385716SB
		AQ-181810AL	EFXE-181810AL	SB-505016	EFXE-505016SB
		AR-182810AL	EFXE-182810AL	SB-383827	EFXE-383827SB
		AR-202311AL	EFXE-202311AL	SB-575716	EFXE-575716SB
		AR-202318AL	EFXE-202318AL	SB-577620	EFXE-577620SB
		AR-232811AL	EFXE-232811AL	SB-575730	EFXE-575730SB
		AR-233312AL	EFXE-233312AL	SB-769520	EFXE-769520SB
		AR-233318AL	EFXE-233318AL	SB-1258040	EFXE-1258040SB

Enclosure types (Stainless steel)	
ST-101210	EFXE-101210ST
ST-151510	EFXE-151510ST
ST-142013	EFXE-142013ST
ST-202010	EFXE-202010ST
ST-202016	EFXE-202016ST
ST-202713	EFXE-202713ST
ST-272713	EFXE-272713ST
ST-203016	EFXE-203016ST
ST-273513	EFXE-273513ST
ST-282816	EFXE-282816ST
ST-204016	EFXE-204016ST
ST-353516	EFXE-353516ST
ST-282827	EFXE-282827ST
ST-355016	EFXE-355016ST
ST-383816	EFXE-383816ST
ST-384516	EFXE-384516ST
ST-385716	EFXE-385716ST
ST-505016	EFXE-505016ST
ST-383827	EFXE-383827ST
ST-575716	EFXE-575716ST
ST-577620	EFXE-577620ST
ST-575730	EFXE-575730ST
ST-769520	EFXE-769520ST
ST-1258040	EFXE-1258040ST

Note 2 For stainless steel enclosures: dimensions (2) and (3) can be decreased or increased up to 20%, dimensions (4) can be increased up to 500 mm. Model name changes consequently.

Power dissipation – HT glass fiber reinforced polyester resin enclosures

Enclosure types (polyester)		Maximum power dissipation (W) – Tamb. up to **40**°C							
		INTERNAL TEMP.60°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)	INTERNAL TEMP.127°C (T4/T135°C)
AQ-080806P-HT	EFE-080806-HT	3,5	5,2	7,0	7,8	9,6	10,4	11,3	15,2
AQ-080808P-HT	EFE-080808-HT	4,6	6,8	9,1	10,2	12,5	13,7	14,8	19,8
AR-081106P-HT	EFE-081106-HT	4,3	6,4	8,5	9,6	11,8	12,8	13,9	18,6
AR-081108P-HT	EFE-081108-HT	5,6	8,4	11,2	12,6	15,3	16,7	18,1	24,2
AR-081606P-HT	EFE-081606-HT	5,8	8,7	11,6	13,0	15,9	17,4	18,8	25.2
AR-081608P-HT	EFE-081608-HT	6,8	10,2	13,7	15,4	18,8	20,5	22,2	29,7
AR-081906P-HT	EFE-081906-HT	6,4	9,6	12,8	14,4	17,6	19,2	20,8	27,8
AR-081908P-HT	EFE-081908-HT	7,5	11,3	15,1	17,0	20,7	22,6	24,5	32,7
AR-082306P-HT	EFE-082306-HT	7,2	10,8	14,4	16,2	19,8	21,6	23,4	31,3
AR-082308P-HT	EFE-082308-HT	8,5	12,7	16,9	19,0	23,3	25,4	27,5	36,7
AQ-121209P-HT	EFE-121209-HT	8,0	12,0	15,9	17,9	21,9	23,9	25,9	34,7
AR-122209P-HT	EFE-122209-HT	10,8	16,2	21,6	24,3	29,7	32,4	35,1	47,0
AQ-161609P-HT	EFE-161609-HT	10,4	15,6	20,8	23,4	28,6	31,2	33,8	45,2
AR-162609P-HT	EFE-162609-HT	13,4	20,1	26,8	30,2	36,9	40,2	43,6	58,3
AR-163609P-HT	EFE-163609-HT	16,2	24,3	32,4	36,5	44,6	48,6	52,7	70,5
AR-165609P-HT	EFE-165609-HT	21,4	32,0	42,7	48,1	58,7	64,1	69,4	92,9
AQ-202017P-HT	EFE-202017-HT	18,0	26,9	35,9	40,4	49,4	53,9	58,4	78,1
AR-203017P-HT	EFE-203017-HT	20,9	31,3	41,7	47,0	57,4	62,6	67,8	90,8
AQ-252612P-HT	EFE-252612-HT	18,8	28,2	37,6	42,4	51,8	56,5	61,2	81,9
AQ-252616P-HT	EFE-252616-HT	20,8	31,1	41,5	46,7	57,1	62,3	67,5	90,3
AR-254012P-HT	EFE-254012-HT	22,8	34,2	45,7	51,4	62,8	68,5	74,2	99,3
AR-254016P-HT	EFE-254016-HT	26,2	39,3	52,4	58,9	72,0	78,6	85,1	113,9
AR-256012P-HT	EFE-256012-HT	29,0	43,6	58,1	65,3	79,9	87,1	94,4	126,3
AR-304020P-HT	EFE-304020-HT	32,3	48,5	64,7	72,7	88,9	97,0	105,1	140,7
AQ-363609P-HT	EFE-363609-HT	23,0	34,6	46,1	51,8	63,4	69,1	74,9	100,2
AR-406025P-HT	EFE-406025-HT	50,3	75,5	100,7	113,3	138,4	151,0	163,6	218,9
AQ-414012P-HT	EFE-414012-HT	29,1	43,7	58,2	65,5	80,1	87,3	94,6	126,6
AQ-414020P-HT	EFE-414020-HT	36,6	55,0	73,3	82,4	100,8	109,9	119,1	159,4

Enclosure types (polyester)		Maximum power dissipation (W) – Tamb. up to **50**°C							
		INTERNAL TEMP.60°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)	INTERNAL TEMP.127°C (T4/T135°C)
AQ-080806P-HT	EFE-080806-HT	1,7	3,5	5,2	6,1	7,8	8,7	9,6	13,4
AQ-080808P-HT	EFE-080808-HT	2,3	4,6	6,8	8,0	10,2	11,4	12,5	17,5
AR-081106P-HT	EFE-081106-HT	2,1	4,3	6,4	7,5	9,6	10,7	11,8	16,5
AR-081108P-HT	EFE-081108-HT	2,8	5,6	8,4	9,8	12,6	13,9	15,3	21.5
AR-081606P-HT	EFE-081606-HT	2,9	5,8	8,7	10,1	13,0	14,5	15,9	22,3
AR-081608P-HT	EFE-081608-HT	3,4	6,8	10,2	11,9	15,4	17,1	18,8	26,3
AR-081906P-HT	EFE-081906-HT	3,2	6,4	9,6	11,2	14,4	16,0	17,6	24,6
AR-081908P-HT	EFE-081908-HT	3,8	7,5	11,3	13,2	17,0	18,8	20,7	29,0
AR-082306P-HT	EFE-082306-HT	3,6	7,2	10,8	12,6	16,2	18,0	19,8	27,7
AR-082308P-HT	EFE-082308-HT	4,2	8,5	12,7	14,8	19,0	21,1	23,3	32,5
AQ-121209P-HT	EFE-121209-HT	4,0	8,0	12,0	14,0	17,9	19,9	21,9	30,7
AR-122209P-HT	EFE-122209-HT	5,4	10,8	16,2	18,9	24,3	27,0	29,7	41,6
AQ-161609P-HT	EFE-161609-HT	5,2	10,4	15,6	18,2	23,4	26,0	28,6	40,0
AR-162609P-HT	EFE-162609-HT	6,7	13,4	20,1	23,5	30,2	33,5	36,9	51,6
AR-163609P-HT	EFE-163609-HT	8,1	16,2	24,3	28,4	36,5	40,5	44,6	62,3
AR-165609P-HT	EFE-165609-HT	10,7	21,4	32,0	37,4	48,1	53,4	58,7	82,2
AQ-202017P-HT	EFE-202017-HT	9,0	18,0	26,9	31,4	40,4	44,9	49,4	69,1
AR-203017P-HT	EFE-203017-HT	10,4	20,9	31,3	36,5	47,0	52,2	57,4	80,4
AQ-252612P-HT	EFE-252612-HT	9,4	18,8	28,2	32,9	42,4	47,1	51,8	72,5
AQ-252616P-HT	EFE-252616-HT	10,4	20,8	31,1	36,3	46,7	51,9	57,1	79,9
AR-254012P-HT	EFE-254012-HT	11,4	22,8	34,2	39,9	51,4	57,1	62,8	87,9
AR-254016P-HT	EFE-254016-HT	13,1	26,2	39,3	45,8	58,9	65,5	72,0	100,8
AR-256012P-HT	EFE-256012-HT	14,5	29,0	43,6	50,8	65,3	72,6	79,9	111,8
AR-304020P-HT	EFE-304020-HT	16,2	32,3	48,5	56,6	72,7	80,8	88,9	124,4
AQ-363609P-HT	EFE-363609-HT	11,5	23,0	34,6	40,3	51,8	57,6	63,4	88,7
AR-406025P-HT	EFE-406025-HT	25,2	50,3	75,5	88,1	113,3	125,8	138,4	193,8
AQ-414012P-HT	EFE-414012-HT	14,6	29,1	43,7	51,0	65,5	72,8	80,1	112,1
AQ-414020P-HT	EFE-414020-HT	18,3	36,6	55,0	64,1	82,4	91,6	100,8	141,1

Enclosure types (polyester)		Maximum power dissipation (W) – Tamb. up to **55**°C							
		INTERNAL TEMP.65°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)	INTERNAL TEMP.127°C (T4/T135°C)
AQ-080806P-HT	EFE-080806-HT	1,7	2,6	4,4	5,2	7,0	7,8	8,7	12,5
AQ-080808P-HT	EFE-080808-HT	2,3	3,4	5,7	6,8	9,1	10,2	11,4	16,2
AR-081106P-HT	EFE-081106-HT	2,1	3,2	5,3	6,4	8,5	9,6	10,7	15,2
AR-081108P-HT	EFE-081108-HT	2,8	4,2	7,0	8,4	11,2	12,6	13,9	19,8
AR-081606P-HT	EFE-081606-HT	2,9	4,3	7,2	8,7	11,6	13,0	14,5	20,6
AR-081608P-HT	EFE-081608-HT	3,4	5,1	8,5	10,2	13,7	15,4	17,1	24,3
AR-081906P-HT	EFE-081906-HT	3,2	4,8	8,0	9,6	12,8	14,4	16,0	22,8
AR-081908P-HT	EFE-081908-HT	3,8	5,7	9,4	11,3	15,1	17,0	18,8	26,8
AR-082306P-HT	EFE-082306-HT	3,6	5,4	9,0	10,8	14,4	16,2	18,0	25,6
AR-082308P-HT	EFE-082308-HT	4,2	6,3	10,6	12,7	16,9	19,0	21,1	30,0
AQ-121209P-HT	EFE-121209-HT	4,0	6,0	10,0	12,0	15,9	17,9	19,9	28,3
AR-122209P-HT	EFE-122209-HT	5,4	8,1	13,5	16,2	21,6	24,3	27,0	38,3
AQ-161609P-HT	EFE-161609-HT	5,2	7,8	13,0	15,6	20,8	23,4	26,0	36,9
AR-162609P-HT	EFE-162609-HT	6,7	10,1	16,8	20,1	26,8	30,2	33,5	47,6
AR-163609P-HT	EFE-163609-HT	8,1	12,2	20,3	24,3	32,4	36,5	40,5	57,5
AR-165609P-HT	EFE-165609-HT	10,7	16,0	26,7	32,0	42,7	48,1	53,4	75,8
AQ-202017P-HT	EFE-202017-HT	9,0	13,5	22,4	26,9	35,9	40,4	44,9	63,7
AR-203017P-HT	EFE-203017-HT	10,4	15,7	26,1	31,3	41,7	47,0	52,2	74,0
AQ-252612P-HT	EFE-252612-HT	9,4	14,1	23,5	28,2	37,6	42,4	47,1	66,8
AQ-252616P-HT	EFE-252616-HT	10,4	15,6	26,0	31,1	41,5	46,7	51,9	73,7
AR-254012P-HT	EFE-254012-HT	11,4	17,1	28,5	34,2	45,7	51,4	57,1	81,0
AR-254016P-HT	EFE-254016-HT	13,1	19,6	32,7	39,3	52,4	58,9	65,5	92,9
AR-256012P-HT	EFE-256012-HT	14,5	21,8	36,3	43,6	58,1	65,3	72,6	103,0
AR-304020P-HT	EFE-304020-HT	16,2	24,2	40,4	48,5	64,7	72,7	80,8	114,7
AQ-363609P-HT	EFE-363609-HT	11,5	17,3	28,8	34,6	46,1	51,8	57,6	81,8
AR-406025P-HT	EFE-406025-HT	25,2	37,8	62,9	75,5	100,7	113,3	125,8	178,6
AQ-414012P-HT	EFE-414012-HT	14,6	21,8	36,4	43,7	58,2	65,5	72,8	103,0
AQ-414020P-HT	EFE-414020-HT	18,3	27,5	45,8	55,0	73,3	82,4	91,6	130,0

Enclosure types (polyester)		Maximum power dissipation (W) – Tamb. up to **60**°C						
		INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)	INTERNAL TEMP.127°C (T4/T135°C)
AQ-080806P-HT	EFE-080806-HT	1,7	3,5	4,4	6,1	7,0	7,8	11,7
AQ-080808P-HT	EFE-080808-HT	2,3	4,6	5,7	8,0	9,1	10,2	15,2
AR-081106P-HT	EFE-081106-HT	2,1	4,3	5,3	7,5	8,5	9,6	14,3
AR-081108P-HT	EFE-081108-HT	2,8	5,6	7,0	9,8	11,2	12,6	18,7
AR-081606P-HT	EFE-081606-HT	2,9	5,8	7,2	10,1	11,6	13,0	19,4
AR-081608P-HT	EFE-081608-HT	3,4	6,8	8,5	11,9	13,7	15,4	22,9
AR-081906P-HT	EFE-081906-HT	3,2	6,4	8,0	11,2	12,8	14,4	21,4
AR-081908P-HT	EFE-081908-HT	3,8	7,5	9,4	13,2	15,1	17,0	25,3
AR-082306P-HT	EFE-082306-HT	3,6	7,2	9,0	12,6	14,4	16,2	24,1
AR-082308P-HT	EFE-082308-HT	4,2	8,5	10,6	14,8	16,9	19,0	28,3
AQ-121209P-HT	EFE-121209-HT	4,0	8,0	10,0	14,0	15,9	17,9	26,7
AR-122209P-HT	EFE-122209-HT	5,4	10,8	13,5	18,9	21,6	24,3	36,2
AQ-161609P-HT	EFE-161609-HT	5,2	10,4	13,0	18,2	20,8	23,4	34,8
AR-162609P-HT	EFE-162609-HT	6,7	13,4	16,8	23,5	26,8	30,2	44,9
AR-163609P-HT	EFE-163609-HT	8,1	16,2	20,3	28,4	32,4	36,5	54,2
AR-165609P-HT	EFE-165609-HT	10,7	21,4	26,7	37,4	42,7	48,1	71,5
AQ-202017P-HT	EFE-202017-HT	9,0	18,0	22,4	31,4	35,9	40,4	60,1
AR-203017P-HT	EFE-203017-HT	10,4	20,9	26,1	36,5	41,7	47,0	69,9
AQ-252612P-HT	EFE-252612-HT	9,4	18,8	23,5	32,9	37,6	42,4	63,0
AQ-252616P-HT	EFE-252616-HT	10,4	20,8	26,0	36,3	41,5	46,7	69,5
AR-254012P-HT	EFE-254012-HT	11,4	22,8	28,5	39,9	45,7	51,4	76,5
AR-254016P-HT	EFE-254016-HT	13,1	26,2	32,7	45,8	52,4	58,9	87,7
AR-256012P-HT	EFE-256012-HT	14,5	29,0	36,3	50,8	58,1	65,3	97,2
AR-304020P-HT	EFE-304020-HT	16,2	32,3	40,4	56,6	64,7	72,7	108,3
AQ-363609P-HT	EFE-363609-HT	11,5	23,0	28,8	40,3	46,1	51,8	77,1
AR-406025P-HT	EFE-406025-HT	25,2	50,3	62,9	88,1	100,7	113,3	168,7
AQ-414012P-HT	EFE-414012-HT	14,6	29,1	36,4	51,0	58,2	65,5	97,5
AQ-414020P-HT	EFE-414020-HT	18,3	36,6	45,8	64,1	73,3	82,4	122,7

Enclosure types (polyester)		Maximum power dissipation (W) Tamb. up to **95**°C		
		INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)	INTERNAL TEMP.127°C (T4/T135°C)
AQ-080806P-HT	EFE-080806-HT	0,9	1,7	5,6
AQ-080808P-HT	EFE-080808-HT	1,1	2,3	7,3
AR-081106P-HT	EFE-081106-HT	1,1	2,1	6,5
AR-081108P-HT	EFE-081108-HT	1,4	2,8	9,0
AR-081606P-HT	EFE-081606-HT	1,4	2,9	9,2
AR-081608P-HT	EFE-081608-HT	1,7	3,4	10,9
AR-081906P-HT	EFE-081906-HT	1,6	3,2	10,2
AR-081908P-HT	EFE-081908-HT	1,9	3,8	12,1
AR-082306P-HT	EFE-082306-HT	1,8	3,6	11,5
AR-082308P-HT	EFE-082308-HT	2,1	4,2	13,5
AQ-121209P-HT	EFE-121209-HT	2,0	4,0	12,8
AR-122209P-HT	EFE-122209-HT	2,7	5,4	17,3
AQ-161609P-HT	EFE-161609-HT	2,6	5,2	16,6
AR-162609P-HT	EFE-162609-HT	3,4	6,7	21,5
AR-163609P-HT	EFE-163609-HT	4,1	8,1	26,0
AR-165609P-HT	EFE-165609-HT	5,3	10,7	34,2
AQ-202017P-HT	EFE-202017-HT	4,5	9,0	28,7
AR-203017P-HT	EFE-203017-HT	5,2	10,4	33,4
AQ-252612P-HT	EFE-252612-HT	4,7	9,4	30,1
AQ-252616P-HT	EFE-252616-HT	5,2	10,4	33,2
AR-254012P-HT	EFE-254012-HT	5,7	11,4	36,5
AR-254016P-HT	EFE-254016-HT	6,5	13,1	41,9
AR-256012P-HT	EFE-256012-HT	7,3	14,5	46,4
AR-304020P-HT	EFE-304020-HT	8,1	16,2	51,8
AQ-363609P-HT	EFE-363609-HT	5,8	11,5	36,8
AR-406025P-HT	EFE-406025-HT	12,6	25,2	80,6
AQ-414012P-HT	EFE-414012-HT	7,3	14,6	46,6
AQ-414020P-HT	EFE-414020-HT	9,2	18,3	58,6

Power dissipation – HT aluminium alloy enclosures

Enclosure types (aluminium)		Maximum power dissipation (W) – Tamb. up to **40**°C							
		INTERNAL TEMP.60°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)	INTERNAL TEMP.130°C (T4/T135°C)
AQ-080806AL-HT	EFXE-080806AL-HT	5,2	7,8	10,4	11,7	14,3	15,6	16,9	23,4
AR-081306AL-HT	EFXE-081306AL-HT	7,0	10,6	14,1	15,9	19,4	21,2	23,0	31,8
AR-081806AL-HT	EFXE-081806AL-HT	8,9	13,3	17,8	20,0	24,5	26,7	28,9	40,0
AR-082505AL-HT	EFXE-082505AL-HT	10,9	16,4	21,9	24,7	30,1	32,9	35,6	49,4
AQ-101008AL-HT	EFXE-101008AL-HT	8,7	13,0	17,4	19,6	23,9	26,1	28,3	39,2
AR-101608AL-HT	EFXE-101608AL-HT	11,5	17,3	23,1	26,0	31,8	34,7	37,6	52,0
AR-102008AL-HT	EFXE-102008AL-HT	13,4	20,1	26,8	30,2	36,9	40,3	43,6	60,4
AQ-121208AL-HT	EFXE-121208AL-HT	10,8	16,2	21,6	24,3	29,7	32,4	35,1	48,6
AQ-121209AL-HT	EFXE-121209AL-HT	11,6	17,5	23,3	26,2	32,1	35,0	37,9	52,5
AR-122208AL-HT	EFXE-122208AL-HT	15,6	23,5	31,3	35,3	43,1	47,0	50,9	70,6
AR-122209AL-HT	EFXE-122209AL-HT	16,8	25,3	33,7	37,9	46,3	50,6	54,8	75,9
AR-123608AL-HT	EFXE-123608AL-HT	22,3	33,5	44,7	50,3	61,5	67,1	72,7	100,7
AQ-141409AL-HT	EFXE-141409AL-HT	13,7	20,6	27,5	31,0	37,9	41,3	44,8	62,0
AR-142009AL-HT	EFXE-142009AL-HT	17,1	25,7	34,2	38,5	47,1	51,4	55,7	77,1
AQ-161609AL-HT	EFXE-161609AL-HT	16,1	24,1	32,2	36,2	44,2	48,3	52,3	72,4
AR-162609AL-HT	EFXE-162609AL-HT	21,9	32,8	43,8	49,3	60,2	65,7	71,2	98,6
AR-163609AL-HT	EFXE-163609AL-HT	27,5	41,3	55,1	62,0	75,7	82,6	89,5	124,0
AR-165609AL-HT	EFXE-165609AL-HT	38,4	57,7	76,9	86,6	105,8	115,4	125,0	173,2
AQ-181810AL-HT	EFXE-181810AL-HT	19,7	29,6	39,5	44,4	54,3	59,2	64,2	88,8
AR-182810AL-HT	EFXE-182810AL-HT	26,1	39,1	52,2	58,7	71,8	78,3	84,8	117,5
AR-102311AL-HT	EFXE-102311AL-HT	18,2	27,3	36,5	41,0	50,1	54,7	59,3	82,1
AR-202311AL-HT	EFXE-202311AL-HT	26,1	39,1	52,2	58,7	71,7	78,3	84,8	117,4
AR-202318AL-HT	EFXE-202318AL-HT	35,9	53,9	71,8	80,8	98,8	107,8	116,8	161,7
AR-232811AL-HT	EFXE-232811AL-HT	31,6	47,5	63,3	71,3	87,1	95,0	103,0	142,6
AR-233311AL-HT	EFXE-233311AL-HT	35,3	52,9	70,6	79,4	97,0	105,9	114,7	158,8
AR-233318AL-HT	EFXE-233318AL-HT	47,5	71,3	95,1	107,0	130,8	142,7	154,6	214,1
AR-234011AL-HT	EFXE-234011AL-HT	40,2	60,4	80,5	90,6	110,7	120,8	130,9	181,2
AR-234023AL-HT	EFXE-234023AL-HT	62,2	93,3	124,5	140,0	171,2	186,7	202,3	280,1
AR-236011AL-HT	EFXE-236011AL-HT	54,1	81,2	108,3	121,9	148,9	162,5	176,0	243,8
AR-314011AL-HT	EFXE-314011AL-HT	48,6	72,9	97,2	109,3	133,6	145,8	157,9	218,7
AR-314014AL-HT	EFXE-314014AL-HT	54,9	82,4	109,9	123,7	151,2	164,9	178,7	247,4
AR-314018AL-HT	EFXE-314018AL-HT	63,8	95,7	127,6	143,5	175,4	191,4	207,3	287,1
AR-314023AL-HT	EFXE-314023AL-HT	73,5	110,3	147,1	165,5	202,3	220,7	239,1	331,0
AR-316011AL-HT	EFXE-316011AL-HT	64,0	96,0	128,1	144,1	176,1	192,1	208,1	288,2
AR-316018AL-HT	EFXE-316018AL-HT	82,7	124,1	165,5	186,2	227,6	248,3	268,9	372,4
AQ-606020AL-HT	EFXE-606020AL-HT	129,1	193,7	258,3	290,5	355,1	387,4	419,7	581,1

Enclosure types (aluminium)		Maximum power dissipation (W) – Tamb. up to **50**°C							
		INTERNAL TEMP.60°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)	INTERNAL TEMP.130°C (T4/T135°C)
AQ-080806AL-HT	EFXE-080806AL-HT	2,6	5,2	7,8	9,1	11,7	13,0	14,3	20,8
AR-081306AL-HT	EFXE-081306AL-HT	3,5	7,0	10,6	12,3	15,9	17,7	19,4	28,3
AR-081806AL-HT	EFXE-081806AL-HT	4,4	8,9	13,3	15,5	20,0	22,2	24,5	35,6
AR-082505AL-HT	EFXE-082505AL-HT	5,4	10,9	16,4	19,2	24,7	27,4	30,1	43,9
AQ-101008AL-HT	EFXE-101008AL-HT	4,3	8,7	13,0	15,2	19,6	21,7	23,9	34,8
AR-101608AL-HT	EFXE-101608AL-HT	5,7	11,5	17,3	20,2	26,0	28,9	31,8	46,2
AR-102008AL-HT	EFXE-102008AL-HT	6,7	13,4	20,1	23,5	30,2	33,5	36,9	53,7
AQ-121208AL-HT	EFXE-121208AL-HT	5,4	10,8	16,2	18,9	24,3	27,0	29,7	43,2
AQ-121209AL-HT	EFXE-121209AL-HT	5,8	11,6	17,5	20,4	26,2	29,2	32,1	46,7
AR-122208AL-HT	EFXE-122208AL-HT	7,8	15,6	23,5	27,4	35,3	39,2	43,1	62,7
AR-122209AL-HT	EFXE-122209AL-HT	8,4	16,8	25,3	29,5	37,9	42,1	46,3	67,4
AR-123608AL-HT	EFXE-123608AL-HT	11,1	22,3	33,5	39,1	50,3	55,9	61,5	89,5
AQ-141409AL-HT	EFXE-141409AL-HT	6,8	13,7	20,6	24,1	31,0	34,4	37,9	55,1
AR-142009AL-HT	EFXE-142009AL-HT	8,5	17,1	25,7	30,0	38,5	42,8	47,1	68,5
AQ-161609AL-HT	EFXE-161609AL-HT	8,0	16,1	24,1	28,1	36,2	40,2	44,2	64,4
AR-162609AL-HT	EFXE-162609AL-HT	10,9	21,9	32,8	38,3	49,3	54,8	60,2	87,6
AR-163609AL-HT	EFXE-163609AL-HT	13,7	27,5	41,3	48,2	62,0	68,9	75,7	110,2
AR-165609AL-HT	EFXE-165609AL-HT	19,2	38,4	57,7	67,3	86,6	96,2	105,8	153,9
AQ-181810AL-HT	EFXE-181810AL-HT	9,8	19,7	29,6	34,5	44,4	49,3	54,3	79,0
AR-182810AL-HT	EFXE-182810AL-HT	13,0	26,1	39,1	45,7	58,7	65,2	71,8	104,4
AR-102311AL-HT	EFXE-102311AL-HT	9,1	18,2	27,3	31,9	41,0	45,6	50,1	73,0
AR-202311AL-HT	EFXE-202311AL-HT	13,0	26,1	39,1	45,6	58,7	65,2	71,7	104,4
AR-202318AL-HT	EFXE-202318AL-HT	17,9	35,9	53,9	62,8	80,8	89,8	98,8	143,7
AR-232811AL-HT	EFXE-232811AL-HT	15,8	31,6	47,5	55,4	71,3	79,2	87,1	126,7
AR-233311AL-HT	EFXE-233311AL-HT	17,6	35,3	52,9	61,7	79,4	88,2	97,0	141,2
AR-233318AL-HT	EFXE-233318AL-HT	23,7	47,5	71,3	83,2	107,0	118,9	130,8	190,3
AR-234011AL-HT	EFXE-234011AL-HT	20,1	40,2	60,4	70,5	90,6	100,7	110,7	161,1
AR-234023AL-HT	EFXE-234023AL-HT	31,1	62,2	93,3	108,9	140,0	155,6	171,2	249,0
AR-236011AL-HT	EFXE-236011AL-HT	27,0	54,1	81,2	94,8	121,9	135,4	148,9	216,7
AR-314011AL-HT	EFXE-314011AL-HT	24,3	48,6	72,9	85,0	109,3	121,5	133,6	194,4
AR-314014AL-HT	EFXE-314014AL-HT	27,4	54,9	82,4	96,2	123,7	137,4	151,2	219,9
AR-314018AL-HT	EFXE-314018AL-HT	31,9	63,8	95,7	111,6	143,5	159,5	175,4	255,2
AR-314023AL-HT	EFXE-314023AL-HT	36,7	73,5	110,3	128,7	165,5	183,9	202,3	294,2
AR-316011AL-HT	EFXE-316011AL-HT	32,0	64,0	96,0	112,0	144,1	160,1	176,1	256,2
AR-316018AL-HT	EFXE-316018AL-HT	41,3	82,7	124,1	144,8	186,2	206,9	227,6	331,0
AQ-606020AL-HT	EFXE-606020AL-HT	64,5	129,1	193,7	226,0	290,5	322,8	355,1	516,6

Enclosure types (aluminium)		Maximum power dissipation (W) – Tamb. up to **55**°C							
		INTERNAL TEMP.65°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)	INTERNAL TEMP.130°C (T4/T135°C)
AQ-080806AL-HT	EFXE-080806AL-HT	2,6	3,9	6,5	7,8	10,4	11,7	13,0	19,5
AR-081306AL-HT	EFXE-081306AL-HT	3,5	5,3	8,8	10,6	14,1	15,9	17,7	26,5
AR-081806AL-HT	EFXE-081806AL-HT	4,4	6,6	11,1	13,3	17,8	20,0	22,2	33,4
AR-082505AL-HT	EFXE-082505AL-HT	5,4	8,2	13,7	16,4	21,9	24,7	27,4	41,1
AQ-101008AL-HT	EFXE-101008AL-HT	4,3	6,5	10,8	13,0	17,4	19,6	21,7	32,6
AR-101608AL-HT	EFXE-101608AL-HT	5,7	8,6	14,4	17,3	23,1	26,0	28,9	43,3
AR-102008AL-HT	EFXE-102008AL-HT	6,7	10,0	16,7	20,1	26,8	30,2	33,5	50,3
AQ-121208AL-HT	EFXE-121208AL-HT	5,4	8,1	13,5	16,2	21,6	24,3	27,0	40,5
AQ-121209AL-HT	EFXE-121209AL-HT	5,8	8,7	14,6	17,5	23,3	26,2	29,2	43,8
AR-122208AL-HT	EFXE-122208AL-HT	7,8	11,7	19,6	23,5	31,3	35,3	39,2	58,8
AR-122209AL-HT	EFXE-122209AL-HT	8,4	12,6	21,0	25,3	33,7	37,9	42,1	63,2
AR-123608AL-HT	EFXE-123608AL-HT	11,1	16,7	27,9	33,5	44,7	50,3	55,9	83,9
AQ-141409AL-HT	EFXE-141409AL-HT	6,8	10,3	17,2	20,6	27,5	31,0	34,4	51,7
AR-142009AL-HT	EFXE-142009AL-HT	8,5	12,8	21,4	25,7	34,2	38,5	42,8	64,3
AQ-161609AL-HT	EFXE-161609AL-HT	8,0	12,0	20,1	24,1	32,2	36,2	40,2	60,4
AR-162609AL-HT	EFXE-162609AL-HT	10,9	16,4	27,4	32,8	43,8	49,3	54,8	82,2
AR-163609AL-HT	EFXE-163609AL-HT	13,7	20,6	34,4	41,3	55,1	62,0	68,9	103,3
AR-165609AL-HT	EFXE-165609AL-HT	19,2	28,8	48,1	57,7	76,9	86,6	96,2	144,3
AQ-181810AL-HT	EFXE-181810AL-HT	9,8	14,8	24,6	29,6	39,5	44,4	49,3	74,0
AR-182810AL-HT	EFXE-182810AL-HT	13,0	19,5	32,6	39,1	52,2	58,7	65,2	97,9
AR-102311AL-HT	EFXE-102311AL-HT	9,1	13,6	22,8	27,3	36,5	41,0	45,6	68,4
AR-202311AL-HT	EFXE-202311AL-HT	13,0	19,5	32,6	39,1	52,2	58,7	65,2	97,9
AR-202318AL-HT	EFXE-202318AL-HT	17,9	26,9	44,9	53,9	71,8	80,8	89,8	134,7
AR-232811AL-HT	EFXE-232811AL-HT	15,8	23,7	39,6	47,5	63,3	71,3	79,2	118,8
AR-233311AL-HT	EFXE-233311AL-HT	17,6	26,4	44,1	52,9	70,6	79,4	88,2	132,3
AR-233318AL-HT	EFXE-233318AL-HT	23,7	35,6	59,4	71,3	95,1	107,0	118,9	178,4
AR-234011AL-HT	EFXE-234011AL-HT	20,1	30,2	50,3	60,4	80,5	90,6	100,7	151,0
AR-234023AL-HT	EFXE-234023AL-HT	31,1	46,6	77,8	93,3	124,5	140,0	155,6	233,4
AR-236011AL-HT	EFXE-236011AL-HT	27,0	40,6	67,7	81,2	108,3	121,9	135,4	203,1
AR-314011AL-HT	EFXE-314011AL-HT	24,3	36,4	60,7	72,9	97,2	109,3	121,5	182,3
AR-314014AL-HT	EFXE-314014AL-HT	27,4	41,2	68,7	82,4	109,9	123,7	137,4	206,2
AR-314018AL-HT	EFXE-314018AL-HT	31,9	47,8	79,7	95,7	127,6	143,5	159,5	239,2
AR-314023AL-HT	EFXE-314023AL-HT	36,7	55,1	91,9	110,3	147,1	165,5	183,9	275,8
AR-316011AL-HT	EFXE-316011AL-HT	32,0	48,0	80,0	96,0	128,1	144,1	160,1	240,1
AR-316018AL-HT	EFXE-316018AL-HT	41,3	62,0	103,4	124,1	165,5	186,2	206,9	310,3
AQ-606020AL-HT	EFXE-606020AL-HT	64,5	96,8	161,4	193,7	258,3	290,5	322,8	484,3

Enclosure types (aluminium)		Maximum power dissipation (W) – Tamb. up to **60**°C						
		INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)	INTERNAL TEMP.130°C (T4/T135°C)
AQ-080806AL-HT	EFXE-080806AL-HT	2,6	5,2	6,5	9,1	10,4	11,7	18,2
AR-081306AL-HT	EFXE-081306AL-HT	3,5	7,0	8,8	12,3	14,1	15,9	24,7
AR-081806AL-HT	EFXE-081806AL-HT	4,4	8,9	11,1	15,5	17,8	20,0	31,1
AR-082505AL-HT	EFXE-082505AL-HT	5,4	10,9	13,7	19,2	21,9	24,7	38,4
AQ-101008AL-HT	EFXE-101008AL-HT	4,3	8,7	10,8	15,2	17,4	19,6	30,4
AR-101608AL-HT	EFXE-101608AL-HT	5,7	11,5	14,4	20,2	23,1	26,0	40,5
AR-102008AL-HT	EFXE-102008AL-HT	6,7	13,4	16,7	23,5	26,8	30,2	47,0
AQ-121208AL-HT	EFXE-121208AL-HT	5,4	10,8	13,5	18,9	21,6	24,3	37,8
AQ-121209AL-HT	EFXE-121209AL-HT	5,8	11,6	14,6	20,4	23,3	26,2	40,8
AR-122208AL-HT	EFXE-122208AL-HT	7,8	15,6	19,6	27,4	31,3	35,3	54,9
AR-122209AL-HT	EFXE-122209AL-HT	8,4	16,8	21,0	29,5	33,7	37,9	59,0
AR-123608AL-HT	EFXE-123608AL-HT	11,1	22,3	27,9	39,1	44,7	50,3	78,3
AQ-141409AL-HT	EFXE-141409AL-HT	6,8	13,7	17,2	24,1	27,5	31,0	48,2
AR-142009AL-HT	EFXE-142009AL-HT	8,5	17,1	21,4	30,0	34,2	38,5	60,0
AQ-161609AL-HT	EFXE-161609AL-HT	8,0	16,1	20,1	28,1	32,2	36,2	56,3
AR-162609AL-HT	EFXE-162609AL-HT	10,9	21,9	27,4	38,3	43,8	49,3	76,7
AR-163609AL-HT	EFXE-163609AL-HT	13,7	27,5	34,4	48,2	55,1	62,0	96,4
AR-165609AL-HT	EFXE-165609AL-HT	19,2	38,4	48,1	67,3	76,9	86,6	134,7
AQ-181810AL-HT	EFXE-181810AL-HT	9,8	19,7	24,6	34,5	39,5	44,4	69,1
AR-182810AL-HT	EFXE-182810AL-HT	13,0	26,1	32,6	45,7	52,2	58,7	91,4
AR-102311AL-HT	EFXE-102311AL-HT	9,1	18,2	22,8	31,9	36,5	41,0	63,8
AR-202311AL-HT	EFXE-202311AL-HT	13,0	26,1	32,6	45,6	52,2	58,7	91,3
AR-202318AL-HT	EFXE-202318AL-HT	17,9	35,9	44,9	62,8	71,8	80,8	125,7
AR-232811AL-HT	EFXE-232811AL-HT	15,8	31,6	39,6	55,4	63,3	71,3	110,9
AR-233311AL-HT	EFXE-233311AL-HT	17,6	35,3	44,1	61,7	70,6	79,4	123,5
AR-233318AL-HT	EFXE-233318AL-HT	23,7	47,5	59,4	83,2	95,1	107,0	166,5
AR-234011AL-HT	EFXE-234011AL-HT	20,1	40,2	50,3	70,5	80,5	90,6	141,0
AR-234023AL-HT	EFXE-234023AL-HT	31,1	62,2	77,8	108,9	124,5	140,0	217,9
AR-236011AL-HT	EFXE-236011AL-HT	27,0	54,1	67,7	94,8	108,3	121,9	189,6
AR-314011AL-HT	EFXE-314011AL-HT	24,3	48,6	60,7	85,0	97,2	109,3	170,1
AR-314014AL-HT	EFXE-314014AL-HT	27,4	54,9	68,7	96,2	109,9	123,7	192,4
AR-314018AL-HT	EFXE-314018AL-HT	31,9	63,8	79,7	111,6	127,6	143,5	223,3
AR-314023AL-HT	EFXE-314023AL-HT	36,7	73,5	91,9	128,7	147,1	165,5	257,4
AR-316011AL-HT	EFXE-316011AL-HT	32,0	64,0	80,0	112,0	128,1	144,1	224,1
AR-316018AL-HT	EFXE-316018AL-HT	41,3	82,7	103,4	144,8	165,5	186,2	289,6
AQ-606020AL-HT	EFXE-606020AL-HT	64,5	129,1	161,4	226,0	258,3	290,5	452,0

Enclosure types (aluminium)		Maximum power dissipation (W) Tamb. up to **95**°C		
		INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)	INTERNAL TEMP.130°C (T4/T135°C)
AQ-080806AL-HT	EFXE-080806AL-HT	1,3	2,6	9,1
AR-081306AL-HT	EFXE-081306AL-HT	1,7	3,5	12,3
AR-081806AL-HT	EFXE-081806AL-HT	2,2	4,4	15,5
AR-082505AL-HT	EFXE-082505AL-HT	2,7	5,4	19,2
AQ-101008AL-HT	EFXE-101008AL-HT	2,1	4,3	15,2
AR-101608AL-HT	EFXE-101608AL-HT	2,8	5,7	20,2
AR-102008AL-HT	EFXE-102008AL-HT	3,3	6,7	23,5
AQ-121208AL-HT	EFXE-121208AL-HT	2,7	5,4	18,9
AQ-121209AL-HT	EFXE-121209AL-HT	2,9	5,8	20,4
AR-122208AL-HT	EFXE-122208AL-HT	3,9	7,8	27,4
AR-122209AL-HT	EFXE-122209AL-HT	4,2	8,4	29,5
AR-123608AL-HT	EFXE-123608AL-HT	5,5	11,1	39,1
AQ-141409AL-HT	EFXE-141409AL-HT	3,4	6,8	24,1
AR-142009AL-HT	EFXE-142009AL-HT	4,2	8,5	30,0
AQ-161609AL-HT	EFXE-161609AL-HT	4,0	8,0	28,1
AR-162609AL-HT	EFXE-162609AL-HT	5,4	10,9	38,3
AR-163609AL-HT	EFXE-163609AL-HT	6,8	13,7	48,2
AR-165609AL-HT	EFXE-165609AL-HT	9,6	19,2	67,3
AQ-181810AL-HT	EFXE-181810AL-HT	4,9	9,8	34,5
AR-182810AL-HT	EFXE-182810AL-HT	6,5	13,0	45,7
AR-102311AL-HT	EFXE-102311AL-HT	4,5	9,1	31,9
AR-202311AL-HT	EFXE-202311AL-HT	6,5	13,0	45,6
AR-202318AL-HT	EFXE-202318AL-HT	8,9	17,9	62,8
AR-232811AL-HT	EFXE-232811AL-HT	7,9	15,8	55,4
AR-233311AL-HT	EFXE-233311AL-HT	8,8	17,6	61,7
AR-233318AL-HT	EFXE-233318AL-HT	11,8	23,7	83,2
AR-234011AL-HT	EFXE-234011AL-HT	10,0	20,1	70,5
AR-234023AL-HT	EFXE-234023AL-HT	15,5	31,1	108,9
AR-236011AL-HT	EFXE-236011AL-HT	13,5	27,0	94,8
AR-314011AL-HT	EFXE-314011AL-HT	12,1	24,3	85,0
AR-314014AL-HT	EFXE-314014AL-HT	13,7	27,4	96,2
AR-314018AL-HT	EFXE-314018AL-HT	15,9	31,9	111,6
AR-314023AL-HT	EFXE-314023AL-HT	18,3	36,7	128,7
AR-316011AL-HT	EFXE-316011AL-HT	16,0	32,0	112,0
AR-316018AL-HT	EFXE-316018AL-HT	20,6	41,3	144,8
AQ-606020AL-HT	EFXE-606020AL-HT	32,2	64,5	226,0

Power dissipation – Glass fiber reinforced polyester resin enclosures

Enclosure types (polyester)		Maximum power dissipation (W) – Tamb. up to **40**°C						
		INTERNAL TEMP.60°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
AQ-080806P	EFE-080806	3,4	5,2	6,9	7,8	9,5	10,4	11,3
AQ-080808P	EFE-080808	4,5	6,8	9,1	10,2	12,5	13,6	14,7
AR-081106P	EFE-081106	4,2	6,4	8,5	9,6	11,7	12,8	13,8
AR-081606P	EFE-081606	5,7	8,6	11,5	13,0	15,9	17,3	18,8
AR-081906P	EFE-081906	6,4	9,6	12,8	14,4	17,6	19,2	20,8
AQ-121209P	EFE-121209	7,9	11,9	15,9	17,9	21,9	23,9	25,9
AR-122209P	EFE-122209	10,8	16,2	21,6	24,3	29,7	32,4	35,1
AQ-161609P	EFE-161609	10,3	15,5	20,7	23,3	28,5	31,1	33,7
AR-162609P	EFE-162609	13,4	20,1	26,8	30,1	36,8	40,2	43,5
AR-163609P	EFE-163609	16,2	24,3	32,4	36,4	44,5	48,6	52,6
AQ-252612P	EFE-252612	18,8	28,2	37,6	42,3	51,7	56,4	61,1
AQ-252616P	EFE-252616	21,7	32,6	43,5	49,0	59,9	65,3	70,8
AR-254012P	EFE-254012	23,9	35,9	47,9	53,9	65,9	71,8	77,8
AR-254016P	EFE-254016	27,4	41,2	54,9	61,8	75,6	82,4	89,3
AR-256012P	EFE-256012	29,0	43,5	58,0	65,3	79,8	87,1	94,3
AQ-414012P	EFE-414012	29,1	43,6	58,2	65,5	80,0	87,3	94,6
AQ-414016P	EFE-414016	32,9	49,4	65,9	74,1	90,6	98,8	107,0

Enclosure types (polyester)		Maximum power dissipation (W) – Tamb. up to **50**°C						
		INTERNAL TEMP.60°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
AQ-080806P	EFE-080806	1,7	3,4	5,2	6,0	7,8	8,7	9,5
AQ-080808P	EFE-080808	2,2	4,5	6,8	7,9	10,2	11,3	12,5
AR-081106P	EFE-081106	2,1	4,2	6,4	7,4	9,6	10,6	11,7
AR-081606P	EFE-081606	2,8	5,7	8,6	10,1	13,0	14,4	15,9
AR-081906P	EFE-081906	3,2	6,4	9,6	11,2	14,4	16,0	17,6
AQ-121209P	EFE-121209	3,9	7,9	11,9	13,9	17,9	19,9	21,9
AR-122209P	EFE-122209	5,4	10,8	16,2	18,9	24,3	27,0	29,7
AQ-161609P	EFE-161609	5,1	10,3	15,5	18,1	23,3	25,9	28,5
AR-162609P	EFE-162609	6,7	13,4	20,1	23,4	30,1	33,5	36,8
AR-163609P	EFE-163609	8,1	16,2	24,3	28,3	36,4	40,5	44,5
AQ-252612P	EFE-252612	9,4	18,8	28,2	32,9	42,3	47,0	51,7
AQ-252616P	EFE-252616	10,8	21,7	32,6	38,1	49,0	54,4	59,9
AR-254012P	EFE-254012	11,9	23,9	35,9	41,9	53,9	59,9	65,9
AR-254016P	EFE-254016	13,7	27,4	41,2	48,1	61,8	68,7	75,6
AR-256012P	EFE-256012	14,5	29,0	43,5	50,8	65,3	72,6	79,8
AQ-414012P	EFE-414012	14,5	29,1	43,6	50,9	65,5	72,7	80,0
AQ-414016P	EFE-414016	16,4	32,9	49,4	57,6	74,1	82,3	90,6

Enclosure types (polyester)		Maximum power dissipation (W) – Tamb. up to **55**°C						
		INTERNAL TEMP.65°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
AQ-080806P	EFE-080806	1,7	2,6	4,3	5,2	6,9	7,8	8,7
AQ-080808P	EFE-080808	2,2	3,4	5,6	6,8	9,1	10,2	11,3
AR-081106P	EFE-081106	2,1	3,2	5,3	6,4	8,5	9,6	10,6
AR-081606P	EFE-081606	2,8	4,3	7,2	8,6	11,5	13,0	14,4
AR-081906P	EFE-081906	3,2	4,8	8,0	9,6	12,8	14,4	16,0
AQ-121209P	EFE-121209	3,9	5,9	9,9	11,9	15,9	17,9	19,9
AR-122209P	EFE-122209	5,4	8,1	13,5	16,2	21,6	24,3	27,0
AQ-161609P	EFE-161609	5,1	7,7	12,9	15,5	20,7	23,3	25,9
AR-162609P	EFE-162609	6,7	10,0	16,7	20,1	26,8	30,1	33,5
AR-163609P	EFE-163609	8,1	12,1	20,2	24,3	32,4	36,4	40,5
AQ-252612P	EFE-252612	9,4	14,1	23,5	28,2	37,6	42,3	47,0
AQ-252616P	EFE-252616	10,8	16,3	27,2	32,6	43,5	49,0	54,4
AR-254012P	EFE-254012	11,9	17,9	29,9	35,9	47,9	53,9	59,9
AR-254016P	EFE-254016	13,7	20,6	34,3	41,2	54,9	61,8	68,7
AR-256012P	EFE-256012	14,5	21,7	36,3	43,5	58,0	65,3	72,6
AQ-414012P	EFE-414012	14,5	21,8	36,3	43,6	58,2	65,5	72,7
AQ-414016P	EFE-414016	16,4	24,7	41,1	49,4	65,9	74,1	82,3

Enclosure types (polyester)		Maximum power dissipation (W) – Tamb. up to **60**°C					
		INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
AQ-080806P	EFE-080806	1,7	3,4	4,3	6,0	6,9	7,8
AQ-080808P	EFE-080808	2,2	4,5	5,6	7,9	9,1	10,2
AR-081106P	EFE-081106	2,1	4,2	5,3	7,4	8,5	9,6
AR-081606P	EFE-081606	2,8	5,7	7,2	10,1	11,5	13,0
AR-081906P	EFE-081906	3,2	6,4	8,0	11,2	12,8	14,4
AQ-121209P	EFE-121209	3,9	7,9	9,9	13,9	15,9	17,9
AR-122209P	EFE-122209	5,4	10,8	13,5	18,9	21,6	24,3
AQ-161609P	EFE-161609	5,1	10,3	12,9	18,1	20,7	23,3
AR-162609P	EFE-162609	6,7	13,4	16,7	23,4	26,8	30,1
AR-163609P	EFE-163609	8,1	16,2	20,2	28,3	32,4	36,4
AQ-252612P	EFE-252612	9,4	18,8	23,5	32,9	37,6	42,3
AQ-252616P	EFE-252616	10,8	21,7	27,2	38,1	43,5	49,0
AR-254012P	EFE-254012	11,9	23,9	29,9	41,9	47,9	53,9
AR-254016P	EFE-254016	13,7	27,4	34,3	48,1	54,9	61,8
AR-256012P	EFE-256012	14,5	29,0	36,3	50,8	58,0	65,3
AQ-414012P	EFE-414012	14,5	29,1	36,3	50,9	58,2	65,5
AQ-414016P	EFE-414016	16,4	32,9	41,1	57,6	65,9	74,1

Enclosure types (polyester)		Maximum power dissipation (W) – Tamb. up to **95**°C	
		INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
AQ-080806P	EFE-080806	0,8	1,7
AQ-080808P	EFE-080808	1,1	2,2
AR-081106P	EFE-081106	1,0	2,1
AR-081606P	EFE-081606	1,4	2,8
AR-081906P	EFE-081906	1,6	3,2
AQ-121209P	EFE-121209	1,9	3,9
AR-122209P	EFE-122209	2,7	5,4
AQ-161609P	EFE-161609	2,5	5,1
AR-162609P	EFE-162609	3,3	6,7
AR-163609P	EFE-163609	4,0	8,1
AQ-252612P	EFE-252612	4,7	9,4
AQ-252616P	EFE-252616	5,4	10,8
AR-254012P	EFE-254012	5,9	11,9
AR-254016P	EFE-254016	6,8	13,7
AR-256012P	EFE-256012	7,2	14,5
AQ-414012P	EFE-414012	7,2	14,5
AQ-414016P	EFE-414016	8,2	16,4

Power dissipation – Aluminium alloy enclosures

Enclosure types (aluminium)		Maximum power dissipation (W) – Tamb. up to **40**°C						
		INTERNAL TEMP.60°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
AQ-080806AL	EFXE-080806AL	5,2	7,8	10,4	11,7	14,3	15,6	16,9
AR-081306AL	EFXE-081306AL	7,0	10,6	14,1	15,9	19,4	21,2	23,0
AR-081806AL	EFXE-081806AL	8,9	13,3	17,8	20,0	24,5	26,7	28,9
AR-081808AL	EFXE-081808AL	11,0	16,5	22,1	24,8	30,4	33,1	35,9
AR-082505AL	EFXE-082505AL	10,7	16,1	21,4	24,1	29,5	32,2	34,8
AR-082508AL	EFXE-082508AL	14,2	21,4	28,5	32,1	39,2	42,8	46,4
AQ-101008AL	EFXE-101008AL	8,7	13,0	17,4	19,6	23,9	26,1	28,3
AR-101508AL	EFXE-101508AL	11,1	16,6	22,2	24,9	30,5	33,3	36,0
AR-101608AL	EFXE-101608AL	11,5	17,3	23,1	26,0	31,8	34,7	37,6
AR-102008AL	EFXE-102008AL	13,4	20,1	26,8	30,2	36,9	40,3	43,6
AQ-121208AL	EFXE-121208AL	10,8	16,2	21,6	24,3	29,7	32,4	35,1
AR-122209AL	EFXE-122209AL	16,8	25,3	33,7	37,9	46,3	50,6	54,8
AQ-141409AL	EFXE-141409AL	13,7	20,6	27,5	31,0	37,9	41,3	44,8
AR-142009AL	EFXE-142009AL	17,1	25,7	34,2	38,5	47,1	51,4	55,7
AQ-161609AL	EFXE-161609AL	17,2	25,8	34,4	38,7	47,3	51,6	55,9
AR-162410AL	EFXE-162410AL	22,1	33,1	44,2	49,7	60,8	66,3	71,8
AR-162609AL	EFXE-162609AL	21,9	32,8	43,8	49,3	60,2	65,7	71,2
AQ-181810AL	EFXE-181810AL	19,7	29,6	39,5	44,4	54,3	59,2	64,2
AR-182810AL	EFXE-182810AL	26,1	39,1	52,2	58,7	71,8	78,3	84,8
AR-202311AL	EFXE-202311AL	25,8	38,7	51,6	58,0	71,0	77,4	83,9
AR-202318AL	EFXE-202318AL	35,5	53,3	71,1	80,0	97,8	106,7	115,6
AR-232811AL	EFXE-232811AL	31,6	47,5	63,3	71,3	87,1	95,0	103,0
AR-233312AL	EFXE-233312AL	37,0	55,6	74,1	83,4	101,9	111,2	120,5
AR-233318AL	EFXE-233318AL	47,5	71,3	95,1	107,0	130,8	142,7	154,6

Enclosure types (aluminium)		Maximum power dissipation (W) – Tamb. up to **50**°C						
		INTERNAL TEMP.60°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
AQ-080806AL	EFXE-080806AL	2,6	5,2	7,8	9,1	11,7	13,0	14,3
AR-081306AL	EFXE-081306AL	3,5	7,0	10,6	12,3	15,9	17,7	19,4
AR-081806AL	EFXE-081806AL	4,4	8,9	13,3	15,5	20,0	22,2	24,5
AR-081808AL	EFXE-081808AL	5,5	11,0	16,5	19,3	24,8	27,6	30,4
AR-082505AL	EFXE-082505AL	5,3	10,7	16,1	18,7	24,1	26,8	29,5
AR-082508AL	EFXE-082508AL	7,1	14,2	21,4	24,9	32,1	35,7	39,2
AQ-101008AL	EFXE-101008AL	4,3	8,7	13,0	15,2	19,6	21,7	23,9
AR-101508AL	EFXE-101508AL	5,5	11,1	16,6	19,4	24,9	27,7	30,5
AR-101608AL	EFXE-101608AL	5,7	11,5	17,3	20,2	26,0	28,9	31,8
AR-102008AL	EFXE-102008AL	6,7	13,4	20,1	23,5	30,2	33,5	36,9
AQ-121208AL	EFXE-121208AL	5,4	10,8	16,2	18,9	24,3	27,0	29,7
AR-122209AL	EFXE-122209AL	8,4	16,8	25,3	29,5	37,9	42,1	46,3
AQ-141409AL	EFXE-141409AL	6,8	13,7	20,6	24,1	31,0	34,4	37,9
AR-142009AL	EFXE-142009AL	8,5	17,1	25,7	30,0	38,5	42,8	47,1
AQ-161609AL	EFXE-161609AL	8,6	17,2	25,8	30,1	38,7	43,0	47,3
AR-162410AL	EFXE-162410AL	11,0	22,1	33,1	38,7	49,7	55,3	60,8
AR-162609AL	EFXE-162609AL	10,9	21,9	32,8	38,3	49,3	54,8	60,2
AQ-181810AL	EFXE-181810AL	9,8	19,7	29,6	34,5	44,4	49,3	54,3
AR-182810AL	EFXE-182810AL	13,0	26,1	39,1	45,7	58,7	65,2	71,8
AR-202311AL	EFXE-202311AL	12,9	25,8	38,7	45,1	58,0	64,5	71,0
AR-202318AL	EFXE-202318AL	17,7	35,5	53,3	62,2	80,0	88,9	97,8
AR-232811AL	EFXE-232811AL	15,8	31,6	47,5	55,4	71,3	79,2	87,1
AR-233312AL	EFXE-233312AL	18,5	37,0	55,6	64,8	83,4	92,7	101,9
AR-233318AL	EFXE-233318AL	23,7	47,5	71,3	83,2	107,0	118,9	130,8

Enclosure types (aluminium)		Maximum power dissipation (W) – Tamb. up to **55**°C						
		INTERNAL TEMP.65°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
AQ-080806AL	EFXE-080806AL	2,6	3,9	6,5	7,8	10,4	11,7	13,0
AR-081306AL	EFXE-081306AL	3,5	5,3	8,8	10,6	14,1	15,9	17,7
AR-081806AL	EFXE-081806AL	4,4	6,6	11,1	13,3	17,8	20,0	22,2
AR-081808AL	EFXE-081808AL	5,5	8,2	13,8	16,5	22,1	24,8	27,6
AR-082505AL	EFXE-082505AL	5,3	8,0	13,4	16,1	21,4	24,1	26,8
AR-082508AL	EFXE-082508AL	7,1	10,7	17,8	21,4	28,5	32,1	35,7
AQ-101008AL	EFXE-101008AL	4,3	6,5	10,8	13,0	17,4	19,6	21,7
AR-101508AL	EFXE-101508AL	5,5	8,3	13,8	16,6	22,2	24,9	27,7
AR-101608AL	EFXE-101608AL	5,7	8,6	14,4	17,3	23,1	26,0	28,9
AR-102008AL	EFXE-102008AL	6,7	10,0	16,7	20,1	26,8	30,2	33,5
AQ-121208AL	EFXE-121208AL	5,4	8,1	13,5	16,2	21,6	24,3	27,0
AR-122209AL	EFXE-122209AL	8,4	12,6	21,0	25,3	33,7	37,9	42,1
AQ-141409AL	EFXE-141409AL	6,8	10,3	17,2	20,6	27,5	31,0	34,4
AR-142009AL	EFXE-142009AL	8,5	12,8	21,4	25,7	34,2	38,5	42,8
AQ-161609AL	EFXE-161609AL	8,6	12,9	21,5	25,8	34,4	38,7	43,0
AR-162410AL	EFXE-162410AL	11,0	16,5	27,6	33,1	44,2	49,7	55,3
AR-162609AL	EFXE-162609AL	10,9	16,4	27,4	32,8	43,8	49,3	54,8
AQ-181810AL	EFXE-181810AL	9,8	14,8	24,6	29,6	39,5	44,4	49,3
AR-182810AL	EFXE-182810AL	13,0	19,5	32,6	39,1	52,2	58,7	65,2
AR-202311AL	EFXE-202311AL	12,9	19,3	32,2	38,7	51,6	58,0	64,5
AR-202318AL	EFXE-202318AL	17,7	26,6	44,4	53,3	71,1	80,0	88,9
AR-232811AL	EFXE-232811AL	15,8	23,7	39,6	47,5	63,3	71,3	79,2
AR-233312AL	EFXE-233312AL	18,5	27,8	46,3	55,6	74,1	83,4	92,7
AR-233318AL	EFXE-233318AL	23,7	35,6	59,4	71,3	95,1	107,0	118,9

Enclosure types (aluminium)		Maximum power dissipation (W) – Tamb. up to **60**°C					
		INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
AQ-080806AL	EFXE-080806AL	2,6	5,2	6,5	9,1	10,4	11,7
AR-081306AL	EFXE-081306AL	3,5	7,0	8,8	12,3	14,1	15,9
AR-081806AL	EFXE-081806AL	4,4	8,9	11,1	15,5	17,8	20,0
AR-081808AL	EFXE-081808AL	5,5	11,0	13,8	19,3	22,1	24,8
AR-082505AL	EFXE-082505AL	5,3	10,7	13,4	18,7	21,4	24,1
AR-082508AL	EFXE-082508AL	7,1	14,2	17,8	24,9	28,5	32,1
AQ-101008AL	EFXE-101008AL	4,3	8,7	10,8	15,2	17,4	19,6
AR-101508AL	EFXE-101508AL	5,5	11,1	13,8	19,4	22,2	24,9
AR-101608AL	EFXE-101608AL	5,7	11,5	14,4	20,2	23,1	26,0
AR-102008AL	EFXE-102008AL	6,7	13,4	16,7	23,5	26,8	30,2
AQ-121208AL	EFXE-121208AL	5,4	10,8	13,5	18,9	21,6	24,3
AR-122209AL	EFXE-122209AL	8,4	16,8	21,0	29,5	33,7	37,9
AQ-141409AL	EFXE-141409AL	6,8	13,7	17,2	24,1	27,5	31,0
AR-142009AL	EFXE-142009AL	8,5	17,1	21,4	30,0	34,2	38,5
AQ-161609AL	EFXE-161609AL	8,6	17,2	21,5	30,1	34,4	38,7
AR-162410AL	EFXE-162410AL	11,0	22,1	27,6	38,7	44,2	49,7
AR-162609AL	EFXE-162609AL	10,9	21,9	27,4	38,3	43,8	49,3
AQ-181810AL	EFXE-181810AL	9,8	19,7	24,6	34,5	39,5	44,4
AR-182810AL	EFXE-182810AL	13,0	26,1	32,6	45,7	52,2	58,7
AR-202311AL	EFXE-202311AL	12,9	25,8	32,2	45,1	51,6	58,0
AR-202318AL	EFXE-202318AL	17,7	35,5	44,4	62,2	71,1	80,0
AR-232811AL	EFXE-232811AL	15,8	31,6	39,6	55,4	63,3	71,3
AR-233312AL	EFXE-233312AL	18,5	37,0	46,3	64,8	74,1	83,4
AR-233318AL	EFXE-233318AL	23,7	47,5	59,4	83,2	95,1	107,0

Enclosure types (aluminium)		Maximum power dissipation (W) – Tamb. up to **95**°C	
		INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
AQ-080806AL	EFXE-080806AL	1,3	2,6
AR-081306AL	EFXE-081306AL	1,7	3,5
AR-081806AL	EFXE-081806AL	2,2	4,4
AR-081808AL	EFXE-081808AL	2,7	5,5
AR-082505AL	EFXE-082505AL	2,6	5,3
AR-082508AL	EFXE-082508AL	3,5	7,1
AQ-101008AL	EFXE-101008AL	2,1	4,3
AR-101508AL	EFXE-101508AL	2,7	5,5
AR-101608AL	EFXE-101608AL	2,8	5,7
AR-102008AL	EFXE-102008AL	3,3	6,7
AQ-121208AL	EFXE-121208AL	2,7	5,4
AR-122209AL	EFXE-122209AL	4,2	8,4
AQ-141409AL	EFXE-141409AL	3,4	6,8
AR-142009AL	EFXE-142009AL	4,2	8,5
AQ-161609AL	EFXE-161609AL	4,3	8,6
AR-162410AL	EFXE-162410AL	5,5	11,0
AR-162609AL	EFXE-162609AL	5,4	10,9
AQ-181810AL	EFXE-181810AL	4,9	9,8
AR-182810AL	EFXE-182810AL	6,5	13,0
AR-202311AL	EFXE-202311AL	6,4	12,9
AR-202318AL	EFXE-202318AL	8,8	17,7
AR-232811AL	EFXE-232811AL	7,9	15,8
AR-233312AL	EFXE-233312AL	9,2	18,5
AR-233318AL	EFXE-233318AL	11,8	23,7

Power dissipation – Stainless steel enclosures SB series

Enclosure types (stainless steel)		Maximum power dissipation (W) – Tamb. up to **40**°C						
		INTERNAL TEMP.60°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
SB-101210	EFXE-101210SB	5,5	8,3	11,1	12,5	15,3	16,7	18,1
SB-151510	EFXE-151510SB	8,0	12,0	16,0	18,0	22,0	24,0	26,1
SB-142013	EFXE-142013SB	10,4	15,7	20,9	23,5	28,8	31,4	34,0
SB-202010	EFXE-202010SB	10,7	16,1	21,4	24,1	29,5	32,2	34,8
SB-202016	EFXE-202016SB	13,9	20,8	27,8	31,3	38,3	41,7	45,2
SB-202713	EFXE-202713SB	14,4	21,6	28,9	32,5	39,7	43,3	46,9
SB-272713	EFXE-272713SB	16,7	25,1	33,5	37,7	46,0	50,2	54,4
SB-203016	EFXE-203016SB	17,1	25,7	34,3	38,6	47,2	51,4	55,7
SB-273513	EFXE-273513SB	19,2	28,9	38,5	43,3	53,0	57,8	62,6
SB-282816	EFXE-282816SB	19,3	29,0	38,7	43,6	53,3	58,1	63,0
SB-204016	EFXE-204016SB	20,2	30,3	40,4	45,5	55,6	60,6	65,7
SB-353516	EFXE-353516SB	24,4	36,6	48,8	54,9	67,1	73,2	79,3
SB-282827	EFXE-282827SB	26,2	39,3	52,5	59,0	72,2	78,7	85,3
SB-355016	EFXE-355016SB	29,7	44,5	59,4	66,8	81,7	89,1	96,6
SB-383816	EFXE-383816SB	26,6	39,9	53,2	59,8	73,1	79,8	86,5
SB-384516	EFXE-384516SB	29,1	43,7	58,3	65,6	80,2	87,5	94,8
SB-385716	EFXE-385716SB	33,4	50,1	66,8	75,2	91,9	100,3	108,7
SB-505016	EFXE-505016SB	35,8	53,8	71,7	80,7	98,6	107,6	116,6
SB-383827	EFXE-383827SB	35,1	52,7	70,2	79,0	96,6	105,4	114,2
SB-575716	EFXE-575716SB	41,5	62,3	83,1	93,5	114,3	124,7	135,1
SB-577620	EFXE-577620SB	53,9	80,9	107,9	121,3	148,3	161,8	175,3
SB-575730	EFXE-575730SB	55,8	83,7	111,6	125,6	153,5	167,5	181,4
SB-769520	EFXE-769520SB	72,2	108,3	144,4	162,4	198,5	216,6	234,6
SB-1258040	EFXE-1258040SB	72,2	108,3	144,4	162,4	198,5	216,6	234,6

Enclosure types (Stainless steel)		Maximum power dissipation (W) – Tamb. up to **50**°C						
		INTERNAL TEMP.60°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
SB-101210	EFXE-101210SB	2,7	5,5	8,3	9,7	12,5	13,9	15,3
SB-151510	EFXE-151510SB	4,0	8,0	12,0	14,0	18,0	20,0	22,0
SB-142013	EFXE-142013SB	5,2	10,4	15,7	18,3	23,5	26,2	28,8
SB-202010	EFXE-202010SB	5,3	10,7	16,1	18,7	24,1	26,8	29,5
SB-202016	EFXE-202016SB	6,9	13,9	20,8	24,3	31,3	34,8	38,3
SB-202713	EFXE-202713SB	7,2	14,4	21,6	25,2	32,5	36,1	39,7
SB-272713	EFXE-272713SB	8,3	16,7	25,1	29,3	37,7	41,8	46,0
SB-203016	EFXE-203016SB	8,5	17,1	25,7	30,0	38,6	42,9	47,2
SB-273513	EFXE-273513SB	9,6	19,2	28,9	33,7	43,3	48,2	53,0
SB-282816	EFXE-282816SB	9,6	19,3	29,0	33,9	43,6	48,4	53,3
SB-204016	EFXE-204016SB	10,1	20,2	30,3	35,4	45,5	50,5	55,6
SB-353516	EFXE-353516SB	12,2	24,4	36,6	42,7	54,9	61,0	67,1
SB-282827	EFXE-282827SB	13,1	26,2	39,3	45,9	59,0	65,6	72,2
SB-355016	EFXE-355016SB	14,8	29,7	44,5	52,0	66,8	74,3	81,7
SB-383816	EFXE-383816SB	13,3	26,6	39,9	46,5	59,8	66,5	73,1
SB-384516	EFXE-384516SB	14,5	29,1	43,7	51,0	65,6	72,9	80,2
SB-385716	EFXE-385716SB	16,7	33,4	50,1	58,5	75,2	83,6	91,9
SB-505016	EFXE-505016SB	17,9	35,8	53,8	62,7	80,7	89,7	98,6
SB-383827	EFXE-383827SB	17,5	35,1	52,7	61,4	79,0	87,8	96,6
SB-575716	EFXE-575716SB	20,7	41,5	62,3	72,7	93,5	103,9	114,3
SB-577620	EFXE-577620SB	26,9	53,9	80,9	94,4	121,3	134,8	148,3
SB-575730	EFXE-575730SB	27,9	55,8	83,7	97,7	125,6	139,5	153,5
SB-769520	EFXE-769520SB	36,1	72,2	108,3	126,3	162,4	180,5	198,5
SB-1258040	EFXE-1258040SB	36,1	72,2	108,3	126,3	162,4	180,5	198,5

Enclosure types (Stainless steel)		Maximum power dissipation (W) – Tamb. up to **55**°C						
		INTERNAL TEMP.65°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
SB-101210	EFXE-101210SB	2,7	4,1	6,9	8,3	11,1	12,5	13,9
SB-151510	EFXE-151510SB	4,0	6,0	10,0	12,0	16,0	18,0	20,0
SB-142013	EFXE-142013SB	5,2	7,8	13,1	15,7	20,9	23,5	26,2
SB-202010	EFXE-202010SB	5,3	8,0	13,4	16,1	21,4	24,1	26,8
SB-202016	EFXE-202016SB	6,9	10,4	17,4	20,8	27,8	31,3	34,8
SB-202713	EFXE-202713SB	7,2	10,8	18,0	21,6	28,9	32,5	36,1
SB-272713	EFXE-272713SB	8,3	12,5	20,9	25,1	33,5	37,7	41,8
SB-203016	EFXE-203016SB	8,5	12,8	21,4	25,7	34,3	38,6	42,9
SB-273513	EFXE-273513SB	9,6	14,4	24,1	28,9	38,5	43,3	48,2
SB-282816	EFXE-282816SB	9,6	14,5	24,2	29,0	38,7	43,6	48,4
SB-204016	EFXE-204016SB	10,1	15,1	25,2	30,3	40,4	45,5	50,5
SB-353516	EFXE-353516SB	12,2	18,3	30,5	36,6	48,8	54,9	61,0
SB-282827	EFXE-282827SB	13,1	19,6	32,8	39,3	52,5	59,0	65,6
SB-355016	EFXE-355016SB	14,8	22,2	37,1	44,5	59,4	66,8	74,3
SB-383816	EFXE-383816SB	13,3	19,9	33,2	39,9	53,2	59,8	66,5
SB-384516	EFXE-384516SB	14,5	21,8	36,4	43,7	58,3	65,6	72,9
SB-385716	EFXE-385716SB	16,7	25,0	41,8	50,1	66,8	75,2	83,6
SB-505016	EFXE-505016SB	17,9	26,9	44,8	53,8	71,7	80,7	89,7
SB-383827	EFXE-383827SB	17,5	26,3	43,9	52,7	70,2	79,0	87,8
SB-575716	EFXE-575716SB	20,7	31,1	51,9	62,3	83,1	93,5	103,9
SB-577620	EFXE-577620SB	26,9	40,4	67,4	80,9	107,9	121,3	134,8
SB-575730	EFXE-575730SB	27,9	41,8	69,7	83,7	111,6	125,6	139,5
SB-769520	EFXE-769520SB	36,1	54,1	90,2	108,3	144,4	162,4	180,5
SB-1258040	EFXE-1258040SB	36,1	54,1	90,2	108,3	144,4	162,4	180,5

Enclosure types (Stainless steel)		Maximum power dissipation (W) – Tamb. up to **60**°C					
		INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
SB-101210	EFXE-101210SB	2,7	5,5	6,9	9,7	11,1	12,5
SB-151510	EFXE-151510SB	4,0	8,0	10,0	14,0	16,0	18,0
SB-142013	EFXE-142013SB	5,2	10,4	13,1	18,3	20,9	23,5
SB-202010	EFXE-202010SB	5,3	10,7	13,4	18,7	21,4	24,1
SB-202016	EFXE-202016SB	6,9	13,9	17,4	24,3	27,8	31,3
SB-202713	EFXE-202713SB	7,2	14,4	18,0	25,2	28,9	32,5
SB-272713	EFXE-272713SB	8,3	16,7	20,9	29,3	33,5	37,7
SB-203016	EFXE-203016SB	8,5	17,1	21,4	30,0	34,3	38,6
SB-273513	EFXE-273513SB	9,6	19,2	24,1	33,7	38,5	43,3
SB-282816	EFXE-282816SB	9,6	19,3	24,2	33,9	38,7	43,6
SB-204016	EFXE-204016SB	10,1	20,2	25,2	35,4	40,4	45,5
SB-353516	EFXE-353516SB	12,2	24,4	30,5	42,7	48,8	54,9
SB-282827	EFXE-282827SB	13,1	26,2	32,8	45,9	52,5	59,0
SB-355016	EFXE-355016SB	14,8	29,7	37,1	52,0	59,4	66,8
SB-383816	EFXE-383816SB	13,3	26,6	33,2	46,5	53,2	59,8
SB-384516	EFXE-384516SB	14,5	29,1	36,4	51,0	58,3	65,6
SB-385716	EFXE-385716SB	16,7	33,4	41,8	58,5	66,8	75,2
SB-505016	EFXE-505016SB	17,9	35,8	44,8	62,7	71,7	80,7
SB-383827	EFXE-383827SB	17,5	35,1	43,9	61,4	70,2	79,0
SB-575716	EFXE-575716SB	20,7	41,5	51,9	72,7	83,1	93,5
SB-577620	EFXE-577620SB	26,9	53,9	67,4	94,4	107,9	121,3
SB-575730	EFXE-575730SB	27,9	55,8	69,7	97,7	111,6	125,6
SB-769520	EFXE-769520SB	36,1	72,2	90,2	126,3	144,4	162,4
SB-1258040	EFXE-1258040SB	36,1	72,2	90,2	126,3	144,4	162,4

Enclosure types (Stainless steel)		Maximum power dissipation (W) – Tamb. up to **95**°C	
		INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
SB-101210	EFXE-101210SB	1,3	2,7
SB-151510	EFXE-151510SB	2,0	4,0
SB-142013	EFXE-142013SB	2,6	5,2
SB-202010	EFXE-202010SB	2,6	5,3
SB-202016	EFXE-202016SB	3,4	6,9
SB-202713	EFXE-202713SB	3,6	7,2
SB-272713	EFXE-272713SB	4,1	8,3
SB-203016	EFXE-203016SB	4,2	8,5
SB-273513	EFXE-273513SB	4,8	9,6
SB-282816	EFXE-282816SB	4,8	9,6
SB-204016	EFXE-204016SB	5,0	10,1
SB-353516	EFXE-353516SB	6,1	12,2
SB-282827	EFXE-282827SB	6,5	13,1
SB-355016	EFXE-355016SB	7,4	14,8
SB-383816	EFXE-383816SB	6,6	13,3
SB-384516	EFXE-384516SB	7,2	14,5
SB-385716	EFXE-385716SB	8,3	16,7
SB-505016	EFXE-505016SB	8,9	17,9
SB-383827	EFXE-383827SB	8,7	17,5
SB-575716	EFXE-575716SB	10,3	20,7
SB-577620	EFXE-577620SB	13,4	26,9
SB-575730	EFXE-575730SB	13,9	27,9
SB-769520	EFXE-769520SB	18,0	36,1
SB-1258040	EFXE-1258040SB	18,0	36,1

Power dissipation – Stainless steel enclosures ST series

Enclosure types (Stainless steel)		Maximum power dissipation (W) – Tamb. up to **40**°C						
		INTERNAL TEMP.60°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
ST-101210	EFXE-101210ST	5,5	8,3	11,1	12,5	15,3	16,7	18,1
ST-151510	EFXE-151510ST	8,0	12,0	16,0	18,0	22,0	24,0	26,1
ST-142013	EFXE-142013ST	10,4	15,7	20,9	23,5	28,8	31,4	34,0
ST-202010	EFXE-202010ST	10,7	16,1	21,4	24,1	29,5	32,2	34,8
ST-202016	EFXE-202016ST	13,9	20,8	27,8	31,3	38,3	41,7	45,2
ST-202713	EFXE-202713ST	14,4	21,6	28,9	32,5	39,7	43,3	46,9
ST-272713	EFXE-272713ST	16,7	25,1	33,5	37,7	46,0	50,2	54,4
ST-203016	EFXE-203016ST	17,1	25,7	34,3	38,6	47,2	51,4	55,7
ST-273513	EFXE-273513ST	19,2	28,9	38,5	43,3	53,0	57,8	62,6
ST-282816	EFXE-282816ST	19,3	29,0	38,7	43,6	53,3	58,1	63,0
ST-204016	EFXE-204016ST	20,2	30,3	40,4	45,5	55,6	60,6	65,7
ST-353516	EFXE-353516ST	24,4	36,6	48,8	54,9	67,1	73,2	79,3
ST-282827	EFXE-282827ST	26,2	39,3	52,5	59,0	72,2	78,7	85,3
ST-355016	EFXE-355016ST	29,7	44,5	59,4	66,8	81,7	89,1	96,6
ST-383816	EFXE-383816ST	26,6	39,9	53,2	59,8	73,1	79,8	86,5
ST-384516	EFXE-384516ST	29,1	43,7	58,3	65,6	80,2	87,5	94,8
ST-385716	EFXE-385716ST	33,4	50,1	66,8	75,2	91,9	100,3	108,7
ST-505016	EFXE-505016ST	35,8	53,8	71,7	80,7	98,6	107,6	116,6
ST-383827	EFXE-383827ST	35,1	52,7	70,2	79,0	96,6	105,4	114,2
ST-575716	EFXE-575716ST	41,5	62,3	83,1	93,5	114,3	124,7	135,1
ST-577620	EFXE-577620ST	53,9	80,9	107,9	121,3	148,3	161,8	175,3
ST-575730	EFXE-575730ST	55,8	83,7	111,6	125,6	153,5	167,5	181,4
ST-769520	EFXE-769520ST	72,2	108,3	144,4	162,4	198,5	216,6	234,6
ST-1258040	EFXE-1258040ST	72,2	108,3	144,4	162,4	198,5	216,6	234,6

Enclosure types (Stainless steel)		Maximum power dissipation (W) – Tamb. up to **50**°C						
		INTERNAL TEMP.60°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
ST-101210	EFXE-101210ST	2,7	5,5	8,3	9,7	12,5	13,9	15,3
ST-151510	EFXE-151510ST	4,0	8,0	12,0	14,0	18,0	20,0	22,0
ST-142013	EFXE-142013ST	5,2	10,4	15,7	18,3	23,5	26,2	28,8
ST-202010	EFXE-202010ST	5,3	10,7	16,1	18,7	24,1	26,8	29,5
ST-202016	EFXE-202016ST	6,9	13,9	20,8	24,3	31,3	34,8	38,3
ST-202713	EFXE-202713ST	7,2	14,4	21,6	25,2	32,5	36,1	39,7
ST-272713	EFXE-272713ST	8,3	16,7	25,1	29,3	37,7	41,8	46,0
ST-203016	EFXE-203016ST	8,5	17,1	25,7	30,0	38,6	42,9	47,2
ST-273513	EFXE-273513ST	9,6	19,2	28,9	33,7	43,3	48,2	53,0
ST-282816	EFXE-282816ST	9,6	19,3	29,0	33,9	43,6	48,4	53,3
ST-204016	EFXE-204016ST	10,1	20,2	30,3	35,4	45,5	50,5	55,6
ST-353516	EFXE-353516ST	12,2	24,4	36,6	42,7	54,9	61,0	67,1
ST-282827	EFXE-282827ST	13,1	26,2	39,3	45,9	59,0	65,6	72,2
ST-355016	EFXE-355016ST	14,8	29,7	44,5	52,0	66,8	74,3	81,7
ST-383816	EFXE-383816ST	13,3	26,6	39,9	46,5	59,8	66,5	73,1
ST-384516	EFXE-384516ST	14,5	29,1	43,7	51,0	65,6	72,9	80,2
ST-385716	EFXE-385716ST	16,7	33,4	50,1	58,5	75,2	83,6	91,9
ST-505016	EFXE-505016ST	17,9	35,8	53,8	62,7	80,7	89,7	98,6
ST-383827	EFXE-383827ST	17,5	35,1	52,7	61,4	79,0	87,8	96,6
ST-575716	EFXE-575716ST	20,7	41,5	62,3	72,7	93,5	103,9	114,3
ST-577620	EFXE-577620ST	26,9	53,9	80,9	94,4	121,3	134,8	148,3
ST-575730	EFXE-575730ST	27,9	55,8	83,7	97,7	125,6	139,5	153,5
ST-769520	EFXE-769520ST	36,1	72,2	108,3	126,3	162,4	180,5	198,5
ST-1258040	EFXE-1258040ST	36,1	72,2	108,3	126,3	162,4	180,5	198,5

Enclosure types (Stainless steel)		Maximum power dissipation (W) – Tamb. up to **55**°C						
		INTERNAL TEMP.65°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
ST-101210	EFXE-101210ST	2,7	4,1	6,9	8,3	11,1	12,5	13,9
ST-151510	EFXE-151510ST	4,0	6,0	10,0	12,0	16,0	18,0	20,0
ST-142013	EFXE-142013ST	5,2	7,8	13,1	15,7	20,9	23,5	26,2
ST-202010	EFXE-202010ST	5,3	8,0	13,4	16,1	21,4	24,1	26,8
ST-202016	EFXE-202016ST	6,9	10,4	17,4	20,8	27,8	31,3	34,8
ST-202713	EFXE-202713ST	7,2	10,8	18,0	21,6	28,9	32,5	36,1
ST-272713	EFXE-272713ST	8,3	12,5	20,9	25,1	33,5	37,7	41,8
ST-203016	EFXE-203016ST	8,5	12,8	21,4	25,7	34,3	38,6	42,9
ST-273513	EFXE-273513ST	9,6	14,4	24,1	28,9	38,5	43,3	48,2
ST-282816	EFXE-282816ST	9,6	14,5	24,2	29,0	38,7	43,6	48,4
ST-204016	EFXE-204016ST	10,1	15,1	25,2	30,3	40,4	45,5	50,5
ST-353516	EFXE-353516ST	12,2	18,3	30,5	36,6	48,8	54,9	61,0
ST-282827	EFXE-282827ST	13,1	19,6	32,8	39,3	52,5	59,0	65,6
ST-355016	EFXE-355016ST	14,8	22,2	37,1	44,5	59,4	66,8	74,3
ST-383816	EFXE-383816ST	13,3	19,9	33,2	39,9	53,2	59,8	66,5
ST-384516	EFXE-384516ST	14,5	21,8	36,4	43,7	58,3	65,6	72,9
ST-385716	EFXE-385716ST	16,7	25,0	41,8	50,1	66,8	75,2	83,6
ST-505016	EFXE-505016ST	17,9	26,9	44,8	53,8	71,7	80,7	89,7
ST-383827	EFXE-383827ST	17,5	26,3	43,9	52,7	70,2	79,0	87,8
ST-575716	EFXE-575716ST	20,7	31,1	51,9	62,3	83,1	93,5	103,9
ST-577620	EFXE-577620ST	26,9	40,4	67,4	80,9	107,9	121,3	134,8
ST-575730	EFXE-575730ST	27,9	41,8	69,7	83,7	111,6	125,6	139,5
ST-769520	EFXE-769520ST	36,1	54,1	90,2	108,3	144,4	162,4	180,5
ST-1258040	EFXE-1258040ST	36,1	54,1	90,2	108,3	144,4	162,4	180,5

Enclosure types (Stainless steel)		Maximum power dissipation (W) – Tamb. up to **60**°C					
		INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
ST-101210	EFXE-101210ST	2,7	5,5	6,9	9,7	11,1	12,5
ST-151510	EFXE-151510ST	4,0	8,0	10,0	14,0	16,0	18,0
ST-142013	EFXE-142013ST	5,2	10,4	13,1	18,3	20,9	23,5
ST-202010	EFXE-202010ST	5,3	10,7	13,4	18,7	21,4	24,1
ST-202016	EFXE-202016ST	6,9	13,9	17,4	24,3	27,8	31,3
ST-202713	EFXE-202713ST	7,2	14,4	18,0	25,2	28,9	32,5
ST-272713	EFXE-272713ST	8,3	16,7	20,9	29,3	33,5	37,7
ST-203016	EFXE-203016ST	8,5	17,1	21,4	30,0	34,3	38,6
ST-273513	EFXE-273513ST	9,6	19,2	24,1	33,7	38,5	43,3
ST-282816	EFXE-282816ST	9,6	19,3	24,2	33,9	38,7	43,6
ST-204016	EFXE-204016ST	10,1	20,2	25,2	35,4	40,4	45,5
ST-353516	EFXE-353516ST	12,2	24,4	30,5	42,7	48,8	54,9
ST-282827	EFXE-282827ST	13,1	26,2	32,8	45,9	52,5	59,0
ST-355016	EFXE-355016ST	14,8	29,7	37,1	52,0	59,4	66,8
ST-383816	EFXE-383816ST	13,3	26,6	33,2	46,5	53,2	59,8
ST-384516	EFXE-384516ST	14,5	29,1	36,4	51,0	58,3	65,6
ST-385716	EFXE-385716ST	16,7	33,4	41,8	58,5	66,8	75,2
ST-505016	EFXE-505016ST	17,9	35,8	44,8	62,7	71,7	80,7
ST-383827	EFXE-383827ST	17,5	35,1	43,9	61,4	70,2	79,0
ST-575716	EFXE-575716ST	20,7	41,5	51,9	72,7	83,1	93,5
ST-577620	EFXE-577620ST	26,9	53,9	67,4	94,4	107,9	121,3
ST-575730	EFXE-575730ST	27,9	55,8	69,7	97,7	111,6	125,6
ST-769520	EFXE-769520ST	36,1	72,2	90,2	126,3	144,4	162,4
ST-1258040	EFXE-1258040ST	36,1	72,2	90,2	126,3	144,4	162,4

Enclosure types (Stainless steel)		Maximum power dissipation (W) – Tamb. up to **95**°C	
		INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
ST-101210	EFXE-101210ST	1,3	2,7
ST-151510	EFXE-151510ST	2,0	4,0
ST-142013	EFXE-142013ST	2,6	5,2
ST-202010	EFXE-202010ST	2,6	5,3
ST-202016	EFXE-202016ST	3,4	6,9
ST-202713	EFXE-202713ST	3,6	7,2
ST-272713	EFXE-272713ST	4,1	8,3
ST-203016	EFXE-203016ST	4,2	8,5
ST-273513	EFXE-273513ST	4,8	9,6
ST-282816	EFXE-282816ST	4,8	9,6
ST-204016	EFXE-204016ST	5,0	10,1
ST-353516	EFXE-353516ST	6,1	12,2
ST-282827	EFXE-282827ST	6,5	13,1
ST-355016	EFXE-355016ST	7,4	14,8
ST-383816	EFXE-383816ST	6,6	13,3
ST-384516	EFXE-384516ST	7,2	14,5
ST-385716	EFXE-385716ST	8,3	16,7
ST-505016	EFXE-505016ST	8,9	17,9
ST-383827	EFXE-383827ST	8,7	17,5
ST-575716	EFXE-575716ST	10,3	20,7
ST-577620	EFXE-577620ST	13,4	26,9
ST-575730	EFXE-575730ST	13,9	27,9
ST-769520	EFXE-769520ST	18,0	36,1
ST-1258040	EFXE-1258040ST	18,0	36,1

Maximum Power Dissipation calculation

The values specified in the tables as per clause 2.1.1 may be modified within the maximum admitted Tamb and maximum admitted internal temperature as follows.

$$Pdiss\ (W) = \frac{Tmax - Tamb}{Rth}$$

$Rth = A \times (\text{enclosure surface in } mm^2 \text{ except enclosure bottom})^B$

Legend:
Rth – Thermal resistance [K/W].
Tmax – Maximum allowed temperature inside enclosure.
Tamb – Ambient temperature of enclosure
A and B - coefficients determined for each series of enclosure. Exact values are given in manufacturer's documentation.

Warning labels:

WARNING – DO NOT OPEN WHEN ENERGIZED (*)
(*) Not mandatory for apparatus with protection type Ex ia Ga and Ex ib Gb.

WARNING – POTENTIAL ELECTROSTATIC CHARGING HAZARD – SEE INSTRUCTIONS

To be added when the enclosures or parts of them have a surface resistance more than 10^9 Ω or 10^{11} Ω according to IEC 60079-0 Clause 7.4.2 a), as applicable, and as per following cases:

- are equipped with transparent parts made of polycarbonate.
- for category II 2 G / EPL Gb Gas group IIC: are painted and the paint layer thickness is > 0.2mm.
- for category II 2 G / EPL Gb Gas group IIB: are painted and the paint layer thickness is > 2mm.
- for category II 2 D / EPL Db: are painted and the paint layer thickness is > 2mm.
- for category II 2 G / EPL Gb Gas group IIC: not conductive individual materials (labels), applied on painted enclosures, have exposed (chargeable area) > 2000mm^2 or, not conductive individual materials (labels), applied on unpainted (conductive earthed surface) enclosures, have exposed (chargeable area) > 8000mm^2.
- for category II 2 G /EPL Gb Gas group IIB: not conductive individual materials (labels), applied on painted enclosures, have exposed (chargeable area) > 10000mm^2 or, not conductive individual materials (labels), applied on unpainted (conductive earthed surface) enclosures, have exposed (chargeable area) > 40000mm^2.

OPEN THE VALVE ONLY WHEN THE APPARATUS IS DE-ENERGIZED AND ONLY WHEN AN EXPLOSIVE DUST ATMOSPHERE IS NOT PRESENT
To be added on Ex tb apparatus equipped with the drain / venting device ECR3.

Other warnings depend on the components actually mounted, according to the component manufacturer's documentation.

The tables below state the maximum power dissipation values (W) related to the internal temperature (Tint) and ambient temperature (Tamb).

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explosion safety solutions

[1] EU – TYPE EXAMINATION CERTIFICATE

[2] Equipment or Protective Systems Intended for use in Potentially Explosive Atmospheres Directive 2014/34/EU.

[3] EU-Type Examination Certificate Number: **FIDI 21 ATEX 0090X** Issue: **1**

[4] Product: **Junction boxes, local control stations and local control panels**

Type: **AQ-***P / AQ-***AL / AR-***P / AR-***AL**
AQ-*P-HT / AQ-***AL-HT / AR-***P-HT / AR-***AL-HT**
SB-* / ST-*****
EFE-* / EFXE-*** AL / EFXE-***SB / EFXE-***ST**
EFE-*-HT / EFXE-***AL-HT**

[5] Manufacturer: **Technor Italsmea S.p.A.**

[6] Address: **Via Italia 33, 20060 Gessate (MI), Italy**

[7] This product and any acceptable variation thereto is specified in the schedule to this certificate and documents therein referred to.

[8] FIDITAS Ltd., Notified Body number 2829 in accordance with Article 17 of Directive 2014/34/EU of the European Parliament and of the Council, dated 26 February 2014, certifies that this product has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of products intended for use in potentially explosive atmospheres given in Annex II of the Directive.

The examination and test results are recorded in confidential Report No: **FIDI 21 CR 075**

[9] Compliance with the Essential Health and Safety Requirements has been assured by compliance with:

EN IEC 60079-0:2018	**EN 60079-1:2014**	**EN IEC 60079-7:2015 / A1:2018**
EN 60079-11:2012	**EN 60079-18:2015/A1:2017**	**EN 60079-31:2014**

except in respect of those requirements listed at item 18 of the Schedule.

[10] If the sign 'X' is placed after the certificate number, it indicates that the product is subject to Specific Conditions of Use specified in the schedule to this certificate.

[11] This EU-Type Examination Certificate relates only to the design, examination and test of the specified product in accordance with Annex III. Further requirements of the Directive apply to the manufacturing process and supply of this products. These are not covered by this certificate.

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This certificate may only be reproduced in its entirety, without any change, schedule included

[12] The marking of the product shall include the following:

II 1 G	**Ex ia IIC/IIB T6...T4 Ga**(2) or
II 2(1) G or **II 2(2) G**	**Ex db eb ia/ib mb [**(3)**] IIC/IIB T6...T4 Gb**(1) or
II 2 G	**Ex eb IIC/IIB T6...T4 Gb**(1) or
II 2 D	**Ex tb IIIC T85°C...T135°C Db**

(1) Others type of protection additional to 'eb' depending to the components actually mounted.

(2) In case of enclosures containing 'eb' terminals and/or 'ia Ga' already certified components (with compatible marking) only.

(3) Associated equipment protection depending on the components actually mounted (see lists): e.g. [ia/ib/ia Ga/ia IIIC Da] and/or [ia IIIC Da] or [ia/ib/ia Ga/ia IIIC Da] and/or [ia/ib/ia Ga] [ia IIIC Da]

Our ref.: 21.CRT.400

Date: 23. 12.2021.

Fiditas d.o.o. ZAGREB

FIDITAS Ltd.
Certification department
Approved:

Marino Kelava, M.E.Eng.

Fiditas Ltd. Karlovačka cesta 197, 10250 Zagreb-Lučko, Croatia
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[13] **SCHEDULE**

[14] **EU - TYPE EXAMINATION CERTIFICATE No.:** **FIDI 21 ATEX 0090X**

[15] **Description of product**

Junction boxes, local control stations and local control panels are made of 'eb' and 'tb' enclosures in stainless steel, aluminium alloy or glass fiber reinforced polyester resin, of various dimensions, which shall house 'eb' and/or 'ia/ib' terminals and/or Ex components or Ex equipment made in different type of Ex protection. All Ex terminals, Ex components and Ex equipment are covered by their own ATEX certificates.

The terminals and components are be used according to data available in related component certificates, in relevant temperature range, voltage and current limitations. The terminals must be fitted in accordance with EN IEC 60079-0 and EN IEC 60079-7 with regards to creepage and clearance distances, and according to related safety instructions.

The cover is fixed to the body with screw, between body and cover a gasket guarantee the protection degree IP66 (IP66/67 depending on models). The cover of stainless-steel enclosure can be also fixed the body with looking devices, between body and cover a gasket guarantee the protection degree IP66. The IP degree of junction boxes, local control stations and local control panels depend on the components actually mounted. The walls and the bottom of the boxes can be drilled and taped with maximum size and maximum number of holes as specified in the manufacturer documents.

The cable glands or plugs, with separate ATEX certificate, made in type of protection 'eb' and/or 'tb' with appropriate IP protection are mounted according to related manufacturer's installation instructions. Each enclosure is provided with internal earthing certified terminal or earthing screw or bolt. Metal enclosures are provided by external earthing screw or bolt. Metal and polyester enclosures can be provided by passing through earthing terminals.

All enclosures can be provided by:

- Externally installed accessories as specified in manufacturer documents,
- Drain breath device type ECR3, included in this certificate,
- Internal/external earthing plate.

Model identification

Junction boxes

A(1)-(2) (3) (4) (5) (6)	(1) –	**Q**: Square size **R**: Rectangular size
	(2) (3) (4)	dimension, in cm
	(5)	Material **P**: Glass fiber reinforced polyester resin **AL**: Aluminium Alloy
	(6)	None: up to internal temperature of 105°C **HT**: up to internal temperature of 130°C
SB- (2) (3) (4)	(2) (3) (4)	dimension, in cm
ST- (2) (3) (4)	(2) (3) (4)	dimension, in cm

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Panel boards

EFE- (2) (3) (4) (6)	(2) (3) (4)	dimension, in cm
	(6)	None: up to internal temperature of 105°C **HT**: up to internal temperature of 130°C
EFXE- (2) (3) (4) (5) (6)	(2) (3) (4)	dimension, in cm
	(5)	Material **SB** or **ST**: stainless steel **AL**: Aluminium Alloy
	(6)	None: up to internal temperature of 105°C **HT**: up to internal temperature of 130°C

Technical data:

Electrical data:	According to Ex component to actually installed
Ambient temperature:	-50°C ÷ +95°C Other possible ranges are with: - min temperature: -50°C to -20 °C - max temperature of +40 °C to +95 °C
Mechanical protection:	IP66/IP67 depending on models IP66 without swing handle element IP55 with swing handle element

Temperature class and/or maximum surface temperature of any junction box or control panel depend on ambient temperature and internal power dissipation. The values that must be observed are given in relevant tables in this certificate.

For commercial reasons model name listed in the tables below can be modified as follows: first (2) and second (3) pair of digits can be reversed.

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Model sizes

Polyester High Temperature		Aluminium High Temperature	
AQ-080806P-HT	EFE-080806-HT	AQ-080806AL-HT	EFXE-080806AL-HT
AQ-080808P-HT	EFE-080808-HT	AR-081306AL-HT	EFXE-081306AL-HT
AR-081106P-HT	EFE-081106-HT	AR-081806AL-HT	EFXE-081806AL-HT
AR-081108P-HT	EFE-081108-HT	AR-082505AL-HT	EFXE-082505AL-HT
AR-081606P-HT	EFE-081606-HT	AQ-101008AL-HT	EFXE-101008AL-HT
AR-081608P-HT	EFE-081608-HT	AR-101608AL-HT	EFXE-101608AL-HT
AR-081906P-HT	EFE-081906-HT	AR-102008AL-HT	EFXE-102008AL-HT
AR-081908P-HT	EFE-081908-HT	AQ-121208AL-HT	EFXE-121208AL-HT
AR-082306P-HT	EFE-082306-HT	AQ-121209AL-HT	EFXE-121209AL-HT
AR-082308P-HT	EFE-082308-HT	AR-122208AL-HT	EFXE-122208AL-HT
AQ-121209P-HT	EFE-121209-HT	AR-122209AL-HT	EFXE-122209AL-HT
AR-122209P-HT	EFE-122209-HT	AR-123608AL-HT	EFXE-123608AL-HT
AQ-161609P-HT	EFE-161609-HT	AQ-141409AL-HT	EFXE-141409AL-HT
AR-162609P-HT	EFE-162609-HT	AR-142009AL-HT	EFXE-142009AL-HT
AR-163609P-HT	EFE-163609-HT	AQ-161609AL-HT	EFXE-161609AL-HT
AR-165609P-HT	EFE-165609-HT	AR-162609AL-HT	EFXE-162609AL-HT
AQ-202017P-HT	EFE-202017-HT	AR-163609AL-HT	EFXE-163609AL-HT
AR-203017P-HT	EFE-203017-HT	AR-165609AL-HT	EFXE-165609AL-HT
AQ-252612P-HT	EFE-252612-HT	AQ-181810AL-HT	EFXE-181810AL-HT
AQ-252616P-HT	EFE-252616-HT	AR-182810AL-HT	EFXE-182810AL-HT
AR-254012P-HT	EFE-254012-HT	AR-102311AL-HT	EFXE-102311AL-HT
AR-254016P-HT	EFE-254016-HT	AR-202311AL-HT	EFXE-202311AL-HT
AR-256012P-HT	EFE-256012-HT	AR-202318AL-HT	EFXE-202318AL-HT
AR-304020P-HT	EFE-304020-HT	AR-232811AL-HT	EFXE-232811AL-HT
AQ-363609P-HT	EFE-363609-HT	AR-233311AL-HT	EFXE-233311AL-HT
AR-406025P-HT	EFE-406025-HT	AR-233318AL-HT	EFXE-233318AL-HT
AQ-414012P-HT	EFE-414012-HT	AR-234011AL-HT	EFXE-234011AL-HT
AQ-414020P-HT	EFE-414020-HT	AR-234023AL-HT	EFXE-234023AL-HT
		AR-236011AL-HT	EFXE-236011AL-HT
		AR-314011AL-HT	EFXE-314011AL-HT
		AR-314014AL-HT	EFXE-314014AL-HT
		AR-314018AL-HT	EFXE-314018AL-HT
		AR-314023AL-HT	EFXE-314023AL-HT
		AR-316011AL-HT	EFXE-316011AL-HT
		AR-316018AL-HT	EFXE-316018AL-HT
		AQ-606020AL-HT	EFXE-606020AL-HT

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Polyester		Aluminium		Stainless steel	
AQ-080806P	EFE-080806	AQ-080806AL	EFXE-080806AL	SB-101210	EFXE-101210SB
AQ-080808P	EFE-080808	AR-081306AL	EFXE-081306AL	SB-151510	EFXE-151510SB
AR-081106P	EFE-081106	AR-081806AL	EFXE-081806AL	SB-142013	EFXE-142013SB
AR-081606P	EFE-081606	AR-081808AL	EFXE-081808AL	SB-202010	EFXE-202010SB
AR-081906P	EFE-081906	AR-082505AL	EFXE-082505AL	SB-202016	EFXE-202016SB
AQ-121209P	EFE-121209	AR-082508AL	EFXE-082508AL	SB-202713	EFXE-202713SB
AR-122209P	EFE-122209	AQ-101008AL	EFXE-101008AL	SB-272713	EFXE-272713SB
AQ-161609P	EFE-161609	AR-101508AL	EFXE-101508AL	SB-203016	EFXE-203016SB
AR-162609P	EFE-162609	AR-101608AL	EFXE-101608AL	SB-273513	EFXE-273513SB
AR-163609P	EFE-163609	AR-102008AL	EFXE-102008AL	SB-282816	EFXE-282816SB
AQ-252612P	EFE-252612	AQ-121208AL	EFXE-121208AL	SB-204016	EFXE-204016SB
AQ-252616P	EFE-252616	AR-122209AL	EFXE-122209AL	SB-353516	EFXE-353516SB
AR-254012P	EFE-254012	AQ-141409AL	EFXE-141409AL	SB-282827	EFXE-282827SB
AR-254016P	EFE-254016	AR-142009AL	EFXE-142009AL	SB-355016	EFXE-355016SB
AR-256012P	EFE-256012	AQ-161609AL	EFXE-161609AL	SB-383816	EFXE-383816SB
AQ-414012P	EFE-414012	AR-162410AL	EFXE-162410AL	SB-384516	EFXE-384516SB
		AR-162609AL	EFXE-162609AL	SB-385716	EFXE-385716SB
		AQ-181810AL	EFXE-181810AL	SB-505016	EFXE-505016SB
		AR-182810AL	EFXE-182810AL	SB-383827	EFXE-383827SB
		AR-202311AL	EFXE-202311AL	SB-575716	EFXE-575716SB
		AR-202318AL	EFXE-202318AL	SB-577620	EFXE-577620SB
		AR-232811AL	EFXE-232811AL	SB-575730	EFXE-575730SB
		AR-233312AL	EFXE-233312AL	SB-769520	EFXE-769520SB
		AR-233318AL	EFXE-233318AL	SB-1258040	EFXE-1258040SB

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Enclosure types (Stainless steel)	
ST-101210	EFXE-101210ST
ST-151510	EFXE-151510ST
ST-142013	EFXE-142013ST
ST-202010	EFXE-202010ST
ST-202016	EFXE-202016ST
ST-202713	EFXE-202713ST
ST-272713	EFXE-272713ST
ST-203016	EFXE-203016ST
ST-273513	EFXE-273513ST
ST-282816	EFXE-282816ST
ST-204016	EFXE-204016ST
ST-353516	EFXE-353516ST
ST-282827	EFXE-282827ST
ST-355016	EFXE-355016ST
ST-383816	EFXE-383816ST
ST-384516	EFXE-384516ST
ST-385716	EFXE-385716ST
ST-505016	EFXE-505016ST
ST-383827	EFXE-383827ST
ST-575716	EFXE-575716ST
ST-577620	EFXE-577620ST
ST-575730	EFXE-575730ST
ST-769520	EFXE-769520ST
ST-1258040	EFXE-1258040ST

Note 2 For stainless steel enclosures: dimensions (2) and (3) can be decreased or increased up to 20%, dimensions (4) can be increased up to 500 mm. Model name changes consequently.

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Power dissipation – HT glass fiber reinforced polyester resin enclosures

Enclosure types (polyester)		Maximum power dissipation (W) – Tamb. up to **40**°C							
		INTERNAL TEMP.60°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)	INTERNAL TEMP.127°C (T4/T135°C)
AQ-080806P-HT	EFE-080806-HT	3,5	5,2	7,0	7,8	9,6	10,4	11,3	15,2
AQ-080808P-HT	EFE-080808-HT	4,6	6,8	9,1	10,2	12,5	13,7	14,8	19,8
AR-081106P-HT	EFE-081106-HT	4,3	6,4	8,5	9,6	11,8	12,8	13,9	18,6
AR-081108P-HT	EFE-081108-HT	5,6	8,4	11,2	12,6	15,3	16,7	18,1	24,2
AR-081606P-HT	EFE-081606-HT	5,8	8,7	11,6	13,0	15,9	17,4	18,8	25.2
AR-081608P-HT	EFE-081608-HT	6,8	10,2	13,7	15,4	18,8	20,5	22,2	29,7
AR-081906P-HT	EFE-081906-HT	6,4	9,6	12,8	14,4	17,6	19,2	20,8	27,8
AR-081908P-HT	EFE-081908-HT	7,5	11,3	15,1	17,0	20,7	22,6	24,5	32,7
AR-082306P-HT	EFE-082306-HT	7,2	10,8	14,4	16,2	19,8	21,6	23,4	31,3
AR-082308P-HT	EFE-082308-HT	8,5	12,7	16,9	19,0	23,3	25,4	27,5	36,7
AQ-121209P-HT	EFE-121209-HT	8,0	12,0	15,9	17,9	21,9	23,9	25,9	34,7
AR-122209P-HT	EFE-122209-HT	10,8	16,2	21,6	24,3	29,7	32,4	35,1	47,0
AQ-161609P-HT	EFE-161609-HT	10,4	15,6	20,8	23,4	28,6	31,2	33,8	45,2
AR-162609P-HT	EFE-162609-HT	13,4	20,1	26,8	30,2	36,9	40,2	43,6	58,3
AR-163609P-HT	EFE-163609-HT	16,2	24,3	32,4	36,5	44,6	48,6	52,7	70,5
AR-165609P-HT	EFE-165609-HT	21,4	32,0	42,7	48,1	58,7	64,1	69,4	92,9
AQ-202017P-HT	EFE-202017-HT	18,0	26,9	35,9	40,4	49,4	53,9	58,4	78,1
AR-203017P-HT	EFE-203017-HT	20,9	31,3	41,7	47,0	57,4	62,6	67,8	90,8
AQ-252612P-HT	EFE-252612-HT	18,8	28,2	37,6	42,4	51,8	56,5	61,2	81,9
AQ-252616P-HT	EFE-252616-HT	20,8	31,1	41,5	46,7	57,1	62,3	67,5	90,3
AR-254012P-HT	EFE-254012-HT	22,8	34,2	45,7	51,4	62,8	68,5	74,2	99,3
AR-254016P-HT	EFE-254016-HT	26,2	39,3	52,4	58,9	72,0	78,6	85,1	113,9
AR-256012P-HT	EFE-256012-HT	29,0	43,6	58,1	65,3	79,9	87,1	94,4	126,3
AR-304020P-HT	EFE-304020-HT	32,3	48,5	64,7	72,7	88,9	97,0	105,1	140,7
AQ-363609P-HT	EFE-363609-HT	23,0	34,6	46,1	51,8	63,4	69,1	74,9	100,2
AR-406025P-HT	EFE-406025-HT	50,3	75,5	100,7	113,3	138,4	151,0	163,6	218,9
AQ-414012P-HT	EFE-414012-HT	29,1	43,7	58,2	65,5	80,1	87,3	94,6	126,6
AQ-414020P-HT	EFE-414020-HT	36,6	55,0	73,3	82,4	100,8	109,9	119,1	159,4

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Enclosure types (polyester)		Maximum power dissipation (W) – Tamb. up to **50**°C							
		INTERNAL TEMP.60°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)	INTERNAL TEMP.127°C (T4/T135°C)
AQ-080806P-HT	EFE-080806-HT	1,7	3,5	5,2	6,1	7,8	8,7	9,6	13,4
AQ-080808P-HT	EFE-080808-HT	2,3	4,6	6,8	8,0	10,2	11,4	12,5	17,5
AR-081106P-HT	EFE-081106-HT	2,1	4,3	6,4	7,5	9,6	10,7	11,8	16,5
AR-081108P-HT	EFE-081108-HT	2,8	5,6	8,4	9,8	12,6	13,9	15,3	21.5
AR-081606P-HT	EFE-081606-HT	2,9	5,8	8,7	10,1	13,0	14,5	15,9	22,3
AR-081608P-HT	EFE-081608-HT	3,4	6,8	10,2	11,9	15,4	17,1	18,8	26,3
AR-081906P-HT	EFE-081906-HT	3,2	6,4	9,6	11,2	14,4	16,0	17,6	24,6
AR-081908P-HT	EFE-081908-HT	3,8	7,5	11,3	13,2	17,0	18,8	20,7	29,0
AR-082306P-HT	EFE-082306-HT	3,6	7,2	10,8	12,6	16,2	18,0	19,8	27,7
AR-082308P-HT	EFE-082308-HT	4,2	8,5	12,7	14,8	19,0	21,1	23,3	32,5
AQ-121209P-HT	EFE-121209-HT	4,0	8,0	12,0	14,0	17,9	19,9	21,9	30,7
AR-122209P-HT	EFE-122209-HT	5,4	10,8	16,2	18,9	24,3	27,0	29,7	41,6
AQ-161609P-HT	EFE-161609-HT	5,2	10,4	15,6	18,2	23,4	26,0	28,6	40,0
AR-162609P-HT	EFE-162609-HT	6,7	13,4	20,1	23,5	30,2	33,5	36,9	51,6
AR-163609P-HT	EFE-163609-HT	8,1	16,2	24,3	28,4	36,5	40,5	44,6	62,3
AR-165609P-HT	EFE-165609-HT	10,7	21,4	32,0	37,4	48,1	53,4	58,7	82,2
AQ-202017P-HT	EFE-202017-HT	9,0	18,0	26,9	31,4	40,4	44,9	49,4	69,1
AR-203017P-HT	EFE-203017-HT	10,4	20,9	31,3	36,5	47,0	52,2	57,4	80,4
AQ-252612P-HT	EFE-252612-HT	9,4	18,8	28,2	32,9	42,4	47,1	51,8	72,5
AQ-252616P-HT	EFE-252616-HT	10,4	20,8	31,1	36,3	46,7	51,9	57,1	79,9
AR-254012P-HT	EFE-254012-HT	11,4	22,8	34,2	39,9	51,4	57,1	62,8	87,9
AR-254016P-HT	EFE-254016-HT	13,1	26,2	39,3	45,8	58,9	65,5	72,0	100,8
AR-256012P-HT	EFE-256012-HT	14,5	29,0	43,6	50,8	65,3	72,6	79,9	111,8
AR-304020P-HT	EFE-304020-HT	16,2	32,3	48,5	56,6	72,7	80,8	88,9	124,4
AQ-363609P-HT	EFE-363609-HT	11,5	23,0	34,6	40,3	51,8	57,6	63,4	88,7
AR-406025P-HT	EFE-406025-HT	25,2	50,3	75,5	88,1	113,3	125,8	138,4	193,8
AQ-414012P-HT	EFE-414012-HT	14,6	29,1	43,7	51,0	65,5	72,8	80,1	112,1
AQ-414020P-HT	EFE-414020-HT	18,3	36,6	55,0	64,1	82,4	91,6	100,8	141,1

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Enclosure types (polyester)		Maximum power dissipation (W) – Tamb. up to **55**°C							
		INTERNAL TEMP.65°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)	INTERNAL TEMP.127°C (T4/T135°C)
AQ-080806P-HT	EFE-080806-HT	1,7	2,6	4,4	5,2	7,0	7,8	8,7	12,5
AQ-080808P-HT	EFE-080808-HT	2,3	3,4	5,7	6,8	9,1	10,2	11,4	16,2
AR-081106P-HT	EFE-081106-HT	2,1	3,2	5,3	6,4	8,5	9,6	10,7	15,2
AR-081108P-HT	EFE-081108-HT	2,8	4,2	7,0	8,4	11,2	12,6	13,9	19,8
AR-081606P-HT	EFE-081606-HT	2,9	4,3	7,2	8,7	11,6	13,0	14,5	20,6
AR-081608P-HT	EFE-081608-HT	3,4	5,1	8,5	10,2	13,7	15,4	17,1	24,3
AR-081906P-HT	EFE-081906-HT	3,2	4,8	8,0	9,6	12,8	14,4	16,0	22,8
AR-081908P-HT	EFE-081908-HT	3,8	5,7	9,4	11,3	15,1	17,0	18,8	26,8
AR-082306P-HT	EFE-082306-HT	3,6	5,4	9,0	10,8	14,4	16,2	18,0	25,6
AR-082308P-HT	EFE-082308-HT	4,2	6,3	10,6	12,7	16,9	19,0	21,1	30,0
AQ-121209P-HT	EFE-121209-HT	4,0	6,0	10,0	12,0	15,9	17,9	19,9	28,3
AR-122209P-HT	EFE-122209-HT	5,4	8,1	13,5	16,2	21,6	24,3	27,0	38,3
AQ-161609P-HT	EFE-161609-HT	5,2	7,8	13,0	15,6	20,8	23,4	26,0	36,9
AR-162609P-HT	EFE-162609-HT	6,7	10,1	16,8	20,1	26,8	30,2	33,5	47,6
AR-163609P-HT	EFE-163609-HT	8,1	12,2	20,3	24,3	32,4	36,5	40,5	57,5
AR-165609P-HT	EFE-165609-HT	10,7	16,0	26,7	32,0	42,7	48,1	53,4	75,8
AQ-202017P-HT	EFE-202017-HT	9,0	13,5	22,4	26,9	35,9	40,4	44,9	63,7
AR-203017P-HT	EFE-203017-HT	10,4	15,7	26,1	31,3	41,7	47,0	52,2	74,0
AQ-252612P-HT	EFE-252612-HT	9,4	14,1	23,5	28,2	37,6	42,4	47,1	66,8
AQ-252616P-HT	EFE-252616-HT	10,4	15,6	26,0	31,1	41,5	46,7	51,9	73,7
AR-254012P-HT	EFE-254012-HT	11,4	17,1	28,5	34,2	45,7	51,4	57,1	81,0
AR-254016P-HT	EFE-254016-HT	13,1	19,6	32,7	39,3	52,4	58,9	65,5	92,9
AR-256012P-HT	EFE-256012-HT	14,5	21,8	36,3	43,6	58,1	65,3	72,6	103,0
AR-304020P-HT	EFE-304020-HT	16,2	24,2	40,4	48,5	64,7	72,7	80,8	114,7
AQ-363609P-HT	EFE-363609-HT	11,5	17,3	28,8	34,6	46,1	51,8	57,6	81,8
AR-406025P-HT	EFE-406025-HT	25,2	37,8	62,9	75,5	100,7	113,3	125,8	178,6
AQ-414012P-HT	EFE-414012-HT	14,6	21,8	36,4	43,7	58,2	65,5	72,8	103,0
AQ-414020P-HT	EFE-414020-HT	18,3	27,5	45,8	55,0	73,3	82,4	91,6	130,0

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Enclosure types (polyester)		Maximum power dissipation (W) – Tamb. up to **60**°C						
		INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)	INTERNAL TEMP.127°C (T4/T135°C)
AQ-080806P-HT	EFE-080806-HT	1,7	3,5	4,4	6,1	7,0	7,8	11,7
AQ-080808P-HT	EFE-080808-HT	2,3	4,6	5,7	8,0	9,1	10,2	15,2
AR-081106P-HT	EFE-081106-HT	2,1	4,3	5,3	7,5	8,5	9,6	14,3
AR-081108P-HT	EFE-081108-HT	2,8	5,6	7,0	9,8	11,2	12,6	18,7
AR-081606P-HT	EFE-081606-HT	2,9	5,8	7,2	10,1	11,6	13,0	19,4
AR-081608P-HT	EFE-081608-HT	3,4	6,8	8,5	11,9	13,7	15,4	22,9
AR-081906P-HT	EFE-081906-HT	3,2	6,4	8,0	11,2	12,8	14,4	21,4
AR-081908P-HT	EFE-081908-HT	3,8	7,5	9,4	13,2	15,1	17,0	25,3
AR-082306P-HT	EFE-082306-HT	3,6	7,2	9,0	12,6	14,4	16,2	24,1
AR-082308P-HT	EFE-082308-HT	4,2	8,5	10,6	14,8	16,9	19,0	28,3
AQ-121209P-HT	EFE-121209-HT	4,0	8,0	10,0	14,0	15,9	17,9	26,7
AR-122209P-HT	EFE-122209-HT	5,4	10,8	13,5	18,9	21,6	24,3	36,2
AQ-161609P-HT	EFE-161609-HT	5,2	10,4	13,0	18,2	20,8	23,4	34,8
AR-162609P-HT	EFE-162609-HT	6,7	13,4	16,8	23,5	26,8	30,2	44,9
AR-163609P-HT	EFE-163609-HT	8,1	16,2	20,3	28,4	32,4	36,5	54,2
AR-165609P-HT	EFE-165609-HT	10,7	21,4	26,7	37,4	42,7	48,1	71,5
AQ-202017P-HT	EFE-202017-HT	9,0	18,0	22,4	31,4	35,9	40,4	60,1
AR-203017P-HT	EFE-203017-HT	10,4	20,9	26,1	36,5	41,7	47,0	69,9
AQ-252612P-HT	EFE-252612-HT	9,4	18,8	23,5	32,9	37,6	42,4	63,0
AQ-252616P-HT	EFE-252616-HT	10,4	20,8	26,0	36,3	41,5	46,7	69,5
AR-254012P-HT	EFE-254012-HT	11,4	22,8	28,5	39,9	45,7	51,4	76,5
AR-254016P-HT	EFE-254016-HT	13,1	26,2	32,7	45,8	52,4	58,9	87,7
AR-256012P-HT	EFE-256012-HT	14,5	29,0	36,3	50,8	58,1	65,3	97,2
AR-304020P-HT	EFE-304020-HT	16,2	32,3	40,4	56,6	64,7	72,7	108,3
AQ-363609P-HT	EFE-363609-HT	11,5	23,0	28,8	40,3	46,1	51,8	77,1
AR-406025P-HT	EFE-406025-HT	25,2	50,3	62,9	88,1	100,7	113,3	168,7
AQ-414012P-HT	EFE-414012-HT	14,6	29,1	36,4	51,0	58,2	65,5	97,5
AQ-414020P-HT	EFE-414020-HT	18,3	36,6	45,8	64,1	73,3	82,4	122,7

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Enclosure types (polyester)		Maximum power dissipation (W) Tamb. up to **95**°C		
		INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)	INTERNAL TEMP.127°C (T4/T135°C)
AQ-080806P-HT	EFE-080806-HT	0,9	1,7	5,6
AQ-080808P-HT	EFE-080808-HT	1,1	2,3	7,3
AR-081106P-HT	EFE-081106-HT	1,1	2,1	6,5
AR-081108P-HT	EFE-081108-HT	1,4	2,8	9,0
AR-081606P-HT	EFE-081606-HT	1,4	2,9	9,2
AR-081608P-HT	EFE-081608-HT	1,7	3,4	10,9
AR-081906P-HT	EFE-081906-HT	1,6	3,2	10,2
AR-081908P-HT	EFE-081908-HT	1,9	3,8	12,1
AR-082306P-HT	EFE-082306-HT	1,8	3,6	11,5
AR-082308P-HT	EFE-082308-HT	2,1	4,2	13,5
AQ-121209P-HT	EFE-121209-HT	2,0	4,0	12,8
AR-122209P-HT	EFE-122209-HT	2,7	5,4	17,3
AQ-161609P-HT	EFE-161609-HT	2,6	5,2	16,6
AR-162609P-HT	EFE-162609-HT	3,4	6,7	21,5
AR-163609P-HT	EFE-163609-HT	4,1	8,1	26,0
AR-165609P-HT	EFE-165609-HT	5,3	10,7	34,2
AQ-202017P-HT	EFE-202017-HT	4,5	9,0	28,7
AR-203017P-HT	EFE-203017-HT	5,2	10,4	33,4
AQ-252612P-HT	EFE-252612-HT	4,7	9,4	30,1
AQ-252616P-HT	EFE-252616-HT	5,2	10,4	33,2
AR-254012P-HT	EFE-254012-HT	5,7	11,4	36,5
AR-254016P-HT	EFE-254016-HT	6,5	13,1	41,9
AR-256012P-HT	EFE-256012-HT	7,3	14,5	46,4
AR-304020P-HT	EFE-304020-HT	8,1	16,2	51,8
AQ-363609P-HT	EFE-363609-HT	5,8	11,5	36,8
AR-406025P-HT	EFE-406025-HT	12,6	25,2	80,6
AQ-414012P-HT	EFE-414012-HT	7,3	14,6	46,6
AQ-414020P-HT	EFE-414020-HT	9,2	18,3	58,6

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Power dissipation – HT aluminum alloy enclosures

Enclosure types (aluminium)		Maximum power dissipation (W) – Tamb. up to **40**°C							
		INTERNAL TEMP.60°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)	INTERNAL TEMP.130°C (T4/T135°C)
AQ-080806AL-HT	EFXE-080806AL-HT	5,2	7,8	10,4	11,7	14,3	15,6	16,9	23,4
AR-081306AL-HT	EFXE-081306AL-HT	7,0	10,6	14,1	15,9	19,4	21,2	23,0	31,8
AR-081806AL-HT	EFXE-081806AL-HT	8,9	13,3	17,8	20,0	24,5	26,7	28,9	40,0
AR-082505AL-HT	EFXE-082505AL-HT	10,9	16,4	21,9	24,7	30,1	32,9	35,6	49,4
AQ-101008AL-HT	EFXE-101008AL-HT	8,7	13,0	17,4	19,6	23,9	26,1	28,3	39,2
AR-101608AL-HT	EFXE-101608AL-HT	11,5	17,3	23,1	26,0	31,8	34,7	37,6	52,0
AR-102008AL-HT	EFXE-102008AL-HT	13,4	20,1	26,8	30,2	36,9	40,3	43,6	60,4
AQ-121208AL-HT	EFXE-121208AL-HT	10,8	16,2	21,6	24,3	29,7	32,4	35,1	48,6
AQ-121209AL-HT	EFXE-121209AL-HT	11,6	17,5	23,3	26,2	32,1	35,0	37,9	52,5
AR-122208AL-HT	EFXE-122208AL-HT	15,6	23,5	31,3	35,3	43,1	47,0	50,9	70,6
AR-122209AL-HT	EFXE-122209AL-HT	16,8	25,3	33,7	37,9	46,3	50,6	54,8	75,9
AR-123608AL-HT	EFXE-123608AL-HT	22,3	33,5	44,7	50,3	61,5	67,1	72,7	100,7
AQ-141409AL-HT	EFXE-141409AL-HT	13,7	20,6	27,5	31,0	37,9	41,3	44,8	62,0
AR-142009AL-HT	EFXE-142009AL-HT	17,1	25,7	34,2	38,5	47,1	51,4	55,7	77,1
AQ-161609AL-HT	EFXE-161609AL-HT	16,1	24,1	32,2	36,2	44,2	48,3	52,3	72,4
AR-162609AL-HT	EFXE-162609AL-HT	21,9	32,8	43,8	49,3	60,2	65,7	71,2	98,6
AR-163609AL-HT	EFXE-163609AL-HT	27,5	41,3	55,1	62,0	75,7	82,6	89,5	124,0
AR-165609AL-HT	EFXE-165609AL-HT	38,4	57,7	76,9	86,6	105,8	115,4	125,0	173,2
AQ-181810AL-HT	EFXE-181810AL-HT	19,7	29,6	39,5	44,4	54,3	59,2	64,2	88,8
AR-182810AL-HT	EFXE-182810AL-HT	26,1	39,1	52,2	58,7	71,8	78,3	84,8	117,5
AR-102311AL-HT	EFXE-102311AL-HT	18,2	27,3	36,5	41,0	50,1	54,7	59,3	82,1
AR-202311AL-HT	EFXE-202311AL-HT	26,1	39,1	52,2	58,7	71,7	78,3	84,8	117,4
AR-202318AL-HT	EFXE-202318AL-HT	35,9	53,9	71,8	80,8	98,8	107,8	116,8	161,7
AR-232811AL-HT	EFXE-232811AL-HT	31,6	47,5	63,3	71,3	87,1	95,0	103,0	142,6
AR-233311AL-HT	EFXE-233311AL-HT	35,3	52,9	70,6	79,4	97,0	105,9	114,7	158,8
AR-233318AL-HT	EFXE-233318AL-HT	47,5	71,3	95,1	107,0	130,8	142,7	154,6	214,1
AR-234011AL-HT	EFXE-234011AL-HT	40,2	60,4	80,5	90,6	110,7	120,8	130,9	181,2
AR-234023AL-HT	EFXE-234023AL-HT	62,2	93,3	124,5	140,0	171,2	186,7	202,3	280,1
AR-236011AL-HT	EFXE-236011AL-HT	54,1	81,2	108,3	121,9	148,9	162,5	176,0	243,8
AR-314011AL-HT	EFXE-314011AL-HT	48,6	72,9	97,2	109,3	133,6	145,8	157,9	218,7
AR-314014AL-HT	EFXE-314014AL-HT	54,9	82,4	109,9	123,7	151,2	164,9	178,7	247,4
AR-314018AL-HT	EFXE-314018AL-HT	63,8	95,7	127,6	143,5	175,4	191,4	207,3	287,1
AR-314023AL-HT	EFXE-314023AL-HT	73,5	110,3	147,1	165,5	202,3	220,7	239,1	331,0
AR-316011AL-HT	EFXE-316011AL-HT	64,0	96,0	128,1	144,1	176,1	192,1	208,1	288,2
AR-316018AL-HT	EFXE-316018AL-HT	82,7	124,1	165,5	186,2	227,6	248,3	268,9	372,4
AQ-606020AL-HT	EFXE-606020AL-HT	129,1	193,7	258,3	290,5	355,1	387,4	419,7	581,1

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Enclosure types (aluminium)		Maximum power dissipation (W) – Tamb. up to **50**°C							
		INTERNAL TEMP.60°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)	INTERNAL TEMP.130°C (T4/T135°C)
AQ-080806AL-HT	EFXE-080806AL-HT	2,6	5,2	7,8	9,1	11,7	13,0	14,3	20,8
AR-081306AL-HT	EFXE-081306AL-HT	3,5	7,0	10,6	12,3	15,9	17,7	19,4	28,3
AR-081806AL-HT	EFXE-081806AL-HT	4,4	8,9	13,3	15,5	20,0	22,2	24,5	35,6
AR-082505AL-HT	EFXE-082505AL-HT	5,4	10,9	16,4	19,2	24,7	27,4	30,1	43,9
AQ-101008AL-HT	EFXE-101008AL-HT	4,3	8,7	13,0	15,2	19,6	21,7	23,9	34,8
AR-101608AL-HT	EFXE-101608AL-HT	5,7	11,5	17,3	20,2	26,0	28,9	31,8	46,2
AR-102008AL-HT	EFXE-102008AL-HT	6,7	13,4	20,1	23,5	30,2	33,5	36,9	53,7
AQ-121208AL-HT	EFXE-121208AL-HT	5,4	10,8	16,2	18,9	24,3	27,0	29,7	43,2
AQ-121209AL-HT	EFXE-121209AL-HT	5,8	11,6	17,5	20,4	26,2	29,2	32,1	46,7
AR-122208AL-HT	EFXE-122208AL-HT	7,8	15,6	23,5	27,4	35,3	39,2	43,1	62,7
AR-122209AL-HT	EFXE-122209AL-HT	8,4	16,8	25,3	29,5	37,9	42,1	46,3	67,4
AR-123608AL-HT	EFXE-123608AL-HT	11,1	22,3	33,5	39,1	50,3	55,9	61,5	89,5
AQ-141409AL-HT	EFXE-141409AL-HT	6,8	13,7	20,6	24,1	31,0	34,4	37,9	55,1
AR-142009AL-HT	EFXE-142009AL-HT	8,5	17,1	25,7	30,0	38,5	42,8	47,1	68,5
AQ-161609AL-HT	EFXE-161609AL-HT	8,0	16,1	24,1	28,1	36,2	40,2	44,2	64,4
AR-162609AL-HT	EFXE-162609AL-HT	10,9	21,9	32,8	38,3	49,3	54,8	60,2	87,6
AR-163609AL-HT	EFXE-163609AL-HT	13,7	27,5	41,3	48,2	62,0	68,9	75,7	110,2
AR-165609AL-HT	EFXE-165609AL-HT	19,2	38,4	57,7	67,3	86,6	96,2	105,8	153,9
AQ-181810AL-HT	EFXE-181810AL-HT	9,8	19,7	29,6	34,5	44,4	49,3	54,3	79,0
AR-182810AL-HT	EFXE-182810AL-HT	13,0	26,1	39,1	45,7	58,7	65,2	71,8	104,4
AR-102311AL-HT	EFXE-102311AL-HT	9,1	18,2	27,3	31,9	41,0	45,6	50,1	73,0
AR-202311AL-HT	EFXE-202311AL-HT	13,0	26,1	39,1	45,6	58,7	65,2	71,7	104,4
AR-202318AL-HT	EFXE-202318AL-HT	17,9	35,9	53,9	62,8	80,8	89,8	98,8	143,7
AR-232811AL-HT	EFXE-232811AL-HT	15,8	31,6	47,5	55,4	71,3	79,2	87,1	126,7
AR-233311AL-HT	EFXE-233311AL-HT	17,6	35,3	52,9	61,7	79,4	88,2	97,0	141,2
AR-233318AL-HT	EFXE-233318AL-HT	23,7	47,5	71,3	83,2	107,0	118,9	130,8	190,3
AR-234011AL-HT	EFXE-234011AL-HT	20,1	40,2	60,4	70,5	90,6	100,7	110,7	161,1
AR-234023AL-HT	EFXE-234023AL-HT	31,1	62,2	93,3	108,9	140,0	155,6	171,2	249,0
AR-236011AL-HT	EFXE-236011AL-HT	27,0	54,1	81,2	94,8	121,9	135,4	148,9	216,7
AR-314011AL-HT	EFXE-314011AL-HT	24,3	48,6	72,9	85,0	109,3	121,5	133,6	194,4
AR-314014AL-HT	EFXE-314014AL-HT	27,4	54,9	82,4	96,2	123,7	137,4	151,2	219,9
AR-314018AL-HT	EFXE-314018AL-HT	31,9	63,8	95,7	111,6	143,5	159,5	175,4	255,2
AR-314023AL-HT	EFXE-314023AL-HT	36,7	73,5	110,3	128,7	165,5	183,9	202,3	294,2
AR-316011AL-HT	EFXE-316011AL-HT	32,0	64,0	96,0	112,0	144,1	160,1	176,1	256,2
AR-316018AL-HT	EFXE-316018AL-HT	41,3	82,7	124,1	144,8	186,2	206,9	227,6	331,0
AQ-606020AL-HT	EFXE-606020AL-HT	64,5	129,1	193,7	226,0	290,5	322,8	355,1	516,6

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Enclosure types (aluminium)		Maximum power dissipation (W) – Tamb. up to **55**°C							
		INTERNAL TEMP.65°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)	INTERNAL TEMP.130°C (T4/T135°C)
AQ-080806AL-HT	EFXE-080806AL-HT	2,6	3,9	6,5	7,8	10,4	11,7	13,0	19,5
AR-081306AL-HT	EFXE-081306AL-HT	3,5	5,3	8,8	10,6	14,1	15,9	17,7	26,5
AR-081806AL-HT	EFXE-081806AL-HT	4,4	6,6	11,1	13,3	17,8	20,0	22,2	33,4
AR-082505AL-HT	EFXE-082505AL-HT	5,4	8,2	13,7	16,4	21,9	24,7	27,4	41,1
AQ-101008AL-HT	EFXE-101008AL-HT	4,3	6,5	10,8	13,0	17,4	19,6	21,7	32,6
AR-101608AL-HT	EFXE-101608AL-HT	5,7	8,6	14,4	17,3	23,1	26,0	28,9	43,3
AR-102008AL-HT	EFXE-102008AL-HT	6,7	10,0	16,7	20,1	26,8	30,2	33,5	50,3
AQ-121208AL-HT	EFXE-121208AL-HT	5,4	8,1	13,5	16,2	21,6	24,3	27,0	40,5
AQ-121209AL-HT	EFXE-121209AL-HT	5,8	8,7	14,6	17,5	23,3	26,2	29,2	43,8
AR-122208AL-HT	EFXE-122208AL-HT	7,8	11,7	19,6	23,5	31,3	35,3	39,2	58,8
AR-122209AL-HT	EFXE-122209AL-HT	8,4	12,6	21,0	25,3	33,7	37,9	42,1	63,2
AR-123608AL-HT	EFXE-123608AL-HT	11,1	16,7	27,9	33,5	44,7	50,3	55,9	83,9
AQ-141409AL-HT	EFXE-141409AL-HT	6,8	10,3	17,2	20,6	27,5	31,0	34,4	51,7
AR-142009AL-HT	EFXE-142009AL-HT	8,5	12,8	21,4	25,7	34,2	38,5	42,8	64,3
AQ-161609AL-HT	EFXE-161609AL-HT	8,0	12,0	20,1	24,1	32,2	36,2	40,2	60,4
AR-162609AL-HT	EFXE-162609AL-HT	10,9	16,4	27,4	32,8	43,8	49,3	54,8	82,2
AR-163609AL-HT	EFXE-163609AL-HT	13,7	20,6	34,4	41,3	55,1	62,0	68,9	103,3
AR-165609AL-HT	EFXE-165609AL-HT	19,2	28,8	48,1	57,7	76,9	86,6	96,2	144,3
AQ-181810AL-HT	EFXE-181810AL-HT	9,8	14,8	24,6	29,6	39,5	44,4	49,3	74,0
AR-182810AL-HT	EFXE-182810AL-HT	13,0	19,5	32,6	39,1	52,2	58,7	65,2	97,9
AR-102311AL-HT	EFXE-102311AL-HT	9,1	13,6	22,8	27,3	36,5	41,0	45,6	68,4
AR-202311AL-HT	EFXE-202311AL-HT	13,0	19,5	32,6	39,1	52,2	58,7	65,2	97,9
AR-202318AL-HT	EFXE-202318AL-HT	17,9	26,9	44,9	53,9	71,8	80,8	89,8	134,7
AR-232811AL-HT	EFXE-232811AL-HT	15,8	23,7	39,6	47,5	63,3	71,3	79,2	118,8
AR-233311AL-HT	EFXE-233311AL-HT	17,6	26,4	44,1	52,9	70,6	79,4	88,2	132,3
AR-233318AL-HT	EFXE-233318AL-HT	23,7	35,6	59,4	71,3	95,1	107,0	118,9	178,4
AR-234011AL-HT	EFXE-234011AL-HT	20,1	30,2	50,3	60,4	80,5	90,6	100,7	151,0
AR-234023AL-HT	EFXE-234023AL-HT	31,1	46,6	77,8	93,3	124,5	140,0	155,6	233,4
AR-236011AL-HT	EFXE-236011AL-HT	27,0	40,6	67,7	81,2	108,3	121,9	135,4	203,1
AR-314011AL-HT	EFXE-314011AL-HT	24,3	36,4	60,7	72,9	97,2	109,3	121,5	182,3
AR-314014AL-HT	EFXE-314014AL-HT	27,4	41,2	68,7	82,4	109,9	123,7	137,4	206,2
AR-314018AL-HT	EFXE-314018AL-HT	31,9	47,8	79,7	95,7	127,6	143,5	159,5	239,2
AR-314023AL-HT	EFXE-314023AL-HT	36,7	55,1	91,9	110,3	147,1	165,5	183,9	275,8
AR-316011AL-HT	EFXE-316011AL-HT	32,0	48,0	80,0	96,0	128,1	144,1	160,1	240,1
AR-316018AL-HT	EFXE-316018AL-HT	41,3	62,0	103,4	124,1	165,5	186,2	206,9	310,3
AQ-606020AL-HT	EFXE-606020AL-HT	64,5	96,8	161,4	193,7	258,3	290,5	322,8	484,3

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Enclosure types (aluminium)		Maximum power dissipation (W) – Tamb. up to **60**°C						
		INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)	INTERNAL TEMP.130°C (T4/T135°C)
AQ-080806AL-HT	EFXE-080806AL-HT	2,6	5,2	6,5	9,1	10,4	11,7	18,2
AR-081306AL-HT	EFXE-081306AL-HT	3,5	7,0	8,8	12,3	14,1	15,9	24,7
AR-081806AL-HT	EFXE-081806AL-HT	4,4	8,9	11,1	15,5	17,8	20,0	31,1
AR-082505AL-HT	EFXE-082505AL-HT	5,4	10,9	13,7	19,2	21,9	24,7	38,4
AQ-101008AL-HT	EFXE-101008AL-HT	4,3	8,7	10,8	15,2	17,4	19,6	30,4
AR-101608AL-HT	EFXE-101608AL-HT	5,7	11,5	14,4	20,2	23,1	26,0	40,5
AR-102008AL-HT	EFXE-102008AL-HT	6,7	13,4	16,7	23,5	26,8	30,2	47,0
AQ-121208AL-HT	EFXE-121208AL-HT	5,4	10,8	13,5	18,9	21,6	24,3	37,8
AQ-121209AL-HT	EFXE-121209AL-HT	5,8	11,6	14,6	20,4	23,3	26,2	40,8
AR-122208AL-HT	EFXE-122208AL-HT	7,8	15,6	19,6	27,4	31,3	35,3	54,9
AR-122209AL-HT	EFXE-122209AL-HT	8,4	16,8	21,0	29,5	33,7	37,9	59,0
AR-123608AL-HT	EFXE-123608AL-HT	11,1	22,3	27,9	39,1	44,7	50,3	78,3
AQ-141409AL-HT	EFXE-141409AL-HT	6,8	13,7	17,2	24,1	27,5	31,0	48,2
AR-142009AL-HT	EFXE-142009AL-HT	8,5	17,1	21,4	30,0	34,2	38,5	60,0
AQ-161609AL-HT	EFXE-161609AL-HT	8,0	16,1	20,1	28,1	32,2	36,2	56,3
AR-162609AL-HT	EFXE-162609AL-HT	10,9	21,9	27,4	38,3	43,8	49,3	76,7
AR-163609AL-HT	EFXE-163609AL-HT	13,7	27,5	34,4	48,2	55,1	62,0	96,4
AR-165609AL-HT	EFXE-165609AL-HT	19,2	38,4	48,1	67,3	76,9	86,6	134,7
AQ-181810AL-HT	EFXE-181810AL-HT	9,8	19,7	24,6	34,5	39,5	44,4	69,1
AR-182810AL-HT	EFXE-182810AL-HT	13,0	26,1	32,6	45,7	52,2	58,7	91,4
AR-102311AL-HT	EFXE-102311AL-HT	9,1	18,2	22,8	31,9	36,5	41,0	63,8
AR-202311AL-HT	EFXE-202311AL-HT	13,0	26,1	32,6	45,6	52,2	58,7	91,3
AR-202318AL-HT	EFXE-202318AL-HT	17,9	35,9	44,9	62,8	71,8	80,8	125,7
AR-232811AL-HT	EFXE-232811AL-HT	15,8	31,6	39,6	55,4	63,3	71,3	110,9
AR-233311AL-HT	EFXE-233311AL-HT	17,6	35,3	44,1	61,7	70,6	79,4	123,5
AR-233318AL-HT	EFXE-233318AL-HT	23,7	47,5	59,4	83,2	95,1	107,0	166,5
AR-234011AL-HT	EFXE-234011AL-HT	20,1	40,2	50,3	70,5	80,5	90,6	141,0
AR-234023AL-HT	EFXE-234023AL-HT	31,1	62,2	77,8	108,9	124,5	140,0	217,9
AR-236011AL-HT	EFXE-236011AL-HT	27,0	54,1	67,7	94,8	108,3	121,9	189,6
AR-314011AL-HT	EFXE-314011AL-HT	24,3	48,6	60,7	85,0	97,2	109,3	170,1
AR-314014AL-HT	EFXE-314014AL-HT	27,4	54,9	68,7	96,2	109,9	123,7	192,4
AR-314018AL-HT	EFXE-314018AL-HT	31,9	63,8	79,7	111,6	127,6	143,5	223,3
AR-314023AL-HT	EFXE-314023AL-HT	36,7	73,5	91,9	128,7	147,1	165,5	257,4
AR-316011AL-HT	EFXE-316011AL-HT	32,0	64,0	80,0	112,0	128,1	144,1	224,1
AR-316018AL-HT	EFXE-316018AL-HT	41,3	82,7	103,4	144,8	165,5	186,2	289,6
AQ-606020AL-HT	EFXE-606020AL-HT	64,5	129,1	161,4	226,0	258,3	290,5	452,0

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Enclosure types (aluminium)		Maximum power dissipation (W) Tamb. up to **95**°C		
		INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)	INTERNAL TEMP.130°C (T4/T135°C)
AQ-080806AL-HT	EFXE-080806AL-HT	1,3	2,6	9,1
AR-081306AL-HT	EFXE-081306AL-HT	1,7	3,5	12,3
AR-081806AL-HT	EFXE-081806AL-HT	2,2	4,4	15,5
AR-082505AL-HT	EFXE-082505AL-HT	2,7	5,4	19,2
AQ-101008AL-HT	EFXE-101008AL-HT	2,1	4,3	15,2
AR-101608AL-HT	EFXE-101608AL-HT	2,8	5,7	20,2
AR-102008AL-HT	EFXE-102008AL-HT	3,3	6,7	23,5
AQ-121208AL-HT	EFXE-121208AL-HT	2,7	5,4	18,9
AQ-121209AL-HT	EFXE-121209AL-HT	2,9	5,8	20,4
AR-122208AL-HT	EFXE-122208AL-HT	3,9	7,8	27,4
AR-122209AL-HT	EFXE-122209AL-HT	4,2	8,4	29,5
AR-123608AL-HT	EFXE-123608AL-HT	5,5	11,1	39,1
AQ-141409AL-HT	EFXE-141409AL-HT	3,4	6,8	24,1
AR-142009AL-HT	EFXE-142009AL-HT	4,2	8,5	30,0
AQ-161609AL-HT	EFXE-161609AL-HT	4,0	8,0	28,1
AR-162609AL-HT	EFXE-162609AL-HT	5,4	10,9	38,3
AR-163609AL-HT	EFXE-163609AL-HT	6,8	13,7	48,2
AR-165609AL-HT	EFXE-165609AL-HT	9,6	19,2	67,3
AQ-181810AL-HT	EFXE-181810AL-HT	4,9	9,8	34,5
AR-182810AL-HT	EFXE-182810AL-HT	6,5	13,0	45,7
AR-102311AL-HT	EFXE-102311AL-HT	4,5	9,1	31,9
AR-202311AL-HT	EFXE-202311AL-HT	6,5	13,0	45,6
AR-202318AL-HT	EFXE-202318AL-HT	8,9	17,9	62,8
AR-232811AL-HT	EFXE-232811AL-HT	7,9	15,8	55,4
AR-233311AL-HT	EFXE-233311AL-HT	8,8	17,6	61,7
AR-233318AL-HT	EFXE-233318AL-HT	11,8	23,7	83,2
AR-234011AL-HT	EFXE-234011AL-HT	10,0	20,1	70,5
AR-234023AL-HT	EFXE-234023AL-HT	15,5	31,1	108,9
AR-236011AL-HT	EFXE-236011AL-HT	13,5	27,0	94,8
AR-314011AL-HT	EFXE-314011AL-HT	12,1	24,3	85,0
AR-314014AL-HT	EFXE-314014AL-HT	13,7	27,4	96,2
AR-314018AL-HT	EFXE-314018AL-HT	15,9	31,9	111,6
AR-314023AL-HT	EFXE-314023AL-HT	18,3	36,7	128,7
AR-316011AL-HT	EFXE-316011AL-HT	16,0	32,0	112,0
AR-316018AL-HT	EFXE-316018AL-HT	20,6	41,3	144,8
AQ-606020AL-HT	EFXE-606020AL-HT	32,2	64,5	226,0

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Power dissipation – Glass fiber reinforced polyester resin enclosures

Enclosure types (polyester)		Maximum power dissipation (W) – Tamb. up to **40**°C						
		INTERNAL TEMP.60°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
AQ-080806P	EFE-080806	3,4	5,2	6,9	7,8	9,5	10,4	11,3
AQ-080808P	EFE-080808	4,5	6,8	9,1	10,2	12,5	13,6	14,7
AR-081106P	EFE-081106	4,2	6,4	8,5	9,6	11,7	12,8	13,8
AR-081606P	EFE-081606	5,7	8,6	11,5	13,0	15,9	17,3	18,8
AR-081906P	EFE-081906	6,4	9,6	12,8	14,4	17,6	19,2	20,8
AQ-121209P	EFE-121209	7,9	11,9	15,9	17,9	21,9	23,9	25,9
AR-122209P	EFE-122209	10,8	16,2	21,6	24,3	29,7	32,4	35,1
AQ-161609P	EFE-161609	10,3	15,5	20,7	23,3	28,5	31,1	33,7
AR-162609P	EFE-162609	13,4	20,1	26,8	30,1	36,8	40,2	43,5
AR-163609P	EFE-163609	16,2	24,3	32,4	36,4	44,5	48,6	52,6
AQ-252612P	EFE-252612	18,8	28,2	37,6	42,3	51,7	56,4	61,1
AQ-252616P	EFE-252616	21,7	32,6	43,5	49,0	59,9	65,3	70,8
AR-254012P	EFE-254012	23,9	35,9	47,9	53,9	65,9	71,8	77,8
AR-254016P	EFE-254016	27,4	41,2	54,9	61,8	75,6	82,4	89,3
AR-256012P	EFE-256012	29,0	43,5	58,0	65,3	79,8	87,1	94,3
AQ-414012P	EFE-414012	29,1	43,6	58,2	65,5	80,0	87,3	94,6
AQ-414016P	EFE-414016	32,9	49,4	65,9	74,1	90,6	98,8	107,0

Enclosure types (polyester)		Maximum power dissipation (W) – Tamb. up to **50**°C						
		INTERNAL TEMP.60°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
AQ-080806P	EFE-080806	1,7	3,4	5,2	6,0	7,8	8,7	9,5
AQ-080808P	EFE-080808	2,2	4,5	6,8	7,9	10,2	11,3	12,5
AR-081106P	EFE-081106	2,1	4,2	6,4	7,4	9,6	10,6	11,7
AR-081606P	EFE-081606	2,8	5,7	8,6	10,1	13,0	14,4	15,9
AR-081906P	EFE-081906	3,2	6,4	9,6	11,2	14,4	16,0	17,6
AQ-121209P	EFE-121209	3,9	7,9	11,9	13,9	17,9	19,9	21,9
AR-122209P	EFE-122209	5,4	10,8	16,2	18,9	24,3	27,0	29,7
AQ-161609P	EFE-161609	5,1	10,3	15,5	18,1	23,3	25,9	28,5
AR-162609P	EFE-162609	6,7	13,4	20,1	23,4	30,1	33,5	36,8
AR-163609P	EFE-163609	8,1	16,2	24,3	28,3	36,4	40,5	44,5
AQ-252612P	EFE-252612	9,4	18,8	28,2	32,9	42,3	47,0	51,7
AQ-252616P	EFE-252616	10,8	21,7	32,6	38,1	49,0	54,4	59,9
AR-254012P	EFE-254012	11,9	23,9	35,9	41,9	53,9	59,9	65,9
AR-254016P	EFE-254016	13,7	27,4	41,2	48,1	61,8	68,7	75,6
AR-256012P	EFE-256012	14,5	29,0	43,5	50,8	65,3	72,6	79,8
AQ-414012P	EFE-414012	14,5	29,1	43,6	50,9	65,5	72,7	80,0
AQ-414016P	EFE-414016	16,4	32,9	49,4	57,6	74,1	82,3	90,6

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Enclosure types (polyester)		Maximum power dissipation (W) – Tamb. up to **55**°C						
		INTERNAL TEMP.65°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
AQ-080806P	EFE-080806	1,7	2,6	4,3	5,2	6,9	7,8	8,7
AQ-080808P	EFE-080808	2,2	3,4	5,6	6,8	9,1	10,2	11,3
AR-081106P	EFE-081106	2,1	3,2	5,3	6,4	8,5	9,6	10,6
AR-081606P	EFE-081606	2,8	4,3	7,2	8,6	11,5	13,0	14,4
AR-081906P	EFE-081906	3,2	4,8	8,0	9,6	12,8	14,4	16,0
AQ-121209P	EFE-121209	3,9	5,9	9,9	11,9	15,9	17,9	19,9
AR-122209P	EFE-122209	5,4	8,1	13,5	16,2	21,6	24,3	27,0
AQ-161609P	EFE-161609	5,1	7,7	12,9	15,5	20,7	23,3	25,9
AR-162609P	EFE-162609	6,7	10,0	16,7	20,1	26,8	30,1	33,5
AR-163609P	EFE-163609	8,1	12,1	20,2	24,3	32,4	36,4	40,5
AQ-252612P	EFE-252612	9,4	14,1	23,5	28,2	37,6	42,3	47,0
AQ-252616P	EFE-252616	10,8	16,3	27,2	32,6	43,5	49,0	54,4
AR-254012P	EFE-254012	11,9	17,9	29,9	35,9	47,9	53,9	59,9
AR-254016P	EFE-254016	13,7	20,6	34,3	41,2	54,9	61,8	68,7
AR-256012P	EFE-256012	14,5	21,7	36,3	43,5	58,0	65,3	72,6
AQ-414012P	EFE-414012	14,5	21,8	36,3	43,6	58,2	65,5	72,7
AQ-414016P	EFE-414016	16,4	24,7	41,1	49,4	65,9	74,1	82,3

Enclosure types (polyester)		Maximum power dissipation (W) – Tamb. up to **60**°C					
		INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
AQ-080806P	EFE-080806	1,7	3,4	4,3	6,0	6,9	7,8
AQ-080808P	EFE-080808	2,2	4,5	5,6	7,9	9,1	10,2
AR-081106P	EFE-081106	2,1	4,2	5,3	7,4	8,5	9,6
AR-081606P	EFE-081606	2,8	5,7	7,2	10,1	11,5	13,0
AR-081906P	EFE-081906	3,2	6,4	8,0	11,2	12,8	14,4
AQ-121209P	EFE-121209	3,9	7,9	9,9	13,9	15,9	17,9
AR-122209P	EFE-122209	5,4	10,8	13,5	18,9	21,6	24,3
AQ-161609P	EFE-161609	5,1	10,3	12,9	18,1	20,7	23,3
AR-162609P	EFE-162609	6,7	13,4	16,7	23,4	26,8	30,1
AR-163609P	EFE-163609	8,1	16,2	20,2	28,3	32,4	36,4
AQ-252612P	EFE-252612	9,4	18,8	23,5	32,9	37,6	42,3
AQ-252616P	EFE-252616	10,8	21,7	27,2	38,1	43,5	49,0
AR-254012P	EFE-254012	11,9	23,9	29,9	41,9	47,9	53,9
AR-254016P	EFE-254016	13,7	27,4	34,3	48,1	54,9	61,8
AR-256012P	EFE-256012	14,5	29,0	36,3	50,8	58,0	65,3
AQ-414012P	EFE-414012	14,5	29,1	36,3	50,9	58,2	65,5
AQ-414016P	EFE-414016	16,4	32,9	41,1	57,6	65,9	74,1

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Enclosure types (polyester)		Maximum power dissipation (W) – Tamb. up to **95**°C	
		INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
AQ-080806P	EFE-080806	0,8	1,7
AQ-080808P	EFE-080808	1,1	2,2
AR-081106P	EFE-081106	1,0	2,1
AR-081606P	EFE-081606	1,4	2,8
AR-081906P	EFE-081906	1,6	3,2
AQ-121209P	EFE-121209	1,9	3,9
AR-122209P	EFE-122209	2,7	5,4
AQ-161609P	EFE-161609	2,5	5,1
AR-162609P	EFE-162609	3,3	6,7
AR-163609P	EFE-163609	4,0	8,1
AQ-252612P	EFE-252612	4,7	9,4
AQ-252616P	EFE-252616	5,4	10,8
AR-254012P	EFE-254012	5,9	11,9
AR-254016P	EFE-254016	6,8	13,7
AR-256012P	EFE-256012	7,2	14,5
AQ-414012P	EFE-414012	7,2	14,5
AQ-414016P	EFE-414016	8,2	16,4

Power dissipation – Aluminum alloy enclosures

Enclosure types (aluminium)		Maximum power dissipation (W) – Tamb. up to **40**°C						
		INTERNAL TEMP.60°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
AQ-080806AL	EFXE-080806AL	5,2	7,8	10,4	11,7	14,3	15,6	16,9
AR-081306AL	EFXE-081306AL	7,0	10,6	14,1	15,9	19,4	21,2	23,0
AR-081806AL	EFXE-081806AL	8,9	13,3	17,8	20,0	24,5	26,7	28,9
AR-081808AL	EFXE-081808AL	11,0	16,5	22,1	24,8	30,4	33,1	35,9
AR-082505AL	EFXE-082505AL	10,7	16,1	21,4	24,1	29,5	32,2	34,8
AR-082508AL	EFXE-082508AL	14,2	21,4	28,5	32,1	39,2	42,8	46,4
AQ-101008AL	EFXE-101008AL	8,7	13,0	17,4	19,6	23,9	26,1	28,3
AR-101508AL	EFXE-101508AL	11,1	16,6	22,2	24,9	30,5	33,3	36,0
AR-101608AL	EFXE-101608AL	11,5	17,3	23,1	26,0	31,8	34,7	37,6
AR-102008AL	EFXE-102008AL	13,4	20,1	26,8	30,2	36,9	40,3	43,6
AQ-121208AL	EFXE-121208AL	10,8	16,2	21,6	24,3	29,7	32,4	35,1
AR-122209AL	EFXE-122209AL	16,8	25,3	33,7	37,9	46,3	50,6	54,8
AQ-141409AL	EFXE-141409AL	13,7	20,6	27,5	31,0	37,9	41,3	44,8
AR-142009AL	EFXE-142009AL	17,1	25,7	34,2	38,5	47,1	51,4	55,7
AQ-161609AL	EFXE-161609AL	17,2	25,8	34,4	38,7	47,3	51,6	55,9
AR-162410AL	EFXE-162410AL	22,1	33,1	44,2	49,7	60,8	66,3	71,8
AR-162609AL	EFXE-162609AL	21,9	32,8	43,8	49,3	60,2	65,7	71,2
AQ-181810AL	EFXE-181810AL	19,7	29,6	39,5	44,4	54,3	59,2	64,2
AR-182810AL	EFXE-182810AL	26,1	39,1	52,2	58,7	71,8	78,3	84,8
AR-202311AL	EFXE-202311AL	25,8	38,7	51,6	58,0	71,0	77,4	83,9
AR-202318AL	EFXE-202318AL	35,5	53,3	71,1	80,0	97,8	106,7	115,6
AR-232811AL	EFXE-232811AL	31,6	47,5	63,3	71,3	87,1	95,0	103,0
AR-233312AL	EFXE-233312AL	37,0	55,6	74,1	83,4	101,9	111,2	120,5
AR-233318AL	EFXE-233318AL	47,5	71,3	95,1	107,0	130,8	142,7	154,6

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Enclosure types (aluminium)		Maximum power dissipation (W) – Tamb. up to **50**°C						
		INTERNAL TEMP.60°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
AQ-080806AL	EFXE-080806AL	2,6	5,2	7,8	9,1	11,7	13,0	14,3
AR-081306AL	EFXE-081306AL	3,5	7,0	10,6	12,3	15,9	17,7	19,4
AR-081806AL	EFXE-081806AL	4,4	8,9	13,3	15,5	20,0	22,2	24,5
AR-081808AL	EFXE-081808AL	5,5	11,0	16,5	19,3	24,8	27,6	30,4
AR-082505AL	EFXE-082505AL	5,3	10,7	16,1	18,7	24,1	26,8	29,5
AR-082508AL	EFXE-082508AL	7,1	14,2	21,4	24,9	32,1	35,7	39,2
AQ-101008AL	EFXE-101008AL	4,3	8,7	13,0	15,2	19,6	21,7	23,9
AR-101508AL	EFXE-101508AL	5,5	11,1	16,6	19,4	24,9	27,7	30,5
AR-101608AL	EFXE-101608AL	5,7	11,5	17,3	20,2	26,0	28,9	31,8
AR-102008AL	EFXE-102008AL	6,7	13,4	20,1	23,5	30,2	33,5	36,9
AQ-121208AL	EFXE-121208AL	5,4	10,8	16,2	18,9	24,3	27,0	29,7
AR-122209AL	EFXE-122209AL	8,4	16,8	25,3	29,5	37,9	42,1	46,3
AQ-141409AL	EFXE-141409AL	6,8	13,7	20,6	24,1	31,0	34,4	37,9
AR-142009AL	EFXE-142009AL	8,5	17,1	25,7	30,0	38,5	42,8	47,1
AQ-161609AL	EFXE-161609AL	8,6	17,2	25,8	30,1	38,7	43,0	47,3
AR-162410AL	EFXE-162410AL	11,0	22,1	33,1	38,7	49,7	55,3	60,8
AR-162609AL	EFXE-162609AL	10,9	21,9	32,8	38,3	49,3	54,8	60,2
AQ-181810AL	EFXE-181810AL	9,8	19,7	29,6	34,5	44,4	49,3	54,3
AR-182810AL	EFXE-182810AL	13,0	26,1	39,1	45,7	58,7	65,2	71,8
AR-202311AL	EFXE-202311AL	12,9	25,8	38,7	45,1	58,0	64,5	71,0
AR-202318AL	EFXE-202318AL	17,7	35,5	53,3	62,2	80,0	88,9	97,8
AR-232811AL	EFXE-232811AL	15,8	31,6	47,5	55,4	71,3	79,2	87,1
AR-233312AL	EFXE-233312AL	18,5	37,0	55,6	64,8	83,4	92,7	101,9
AR-233318AL	EFXE-233318AL	23,7	47,5	71,3	83,2	107,0	118,9	130,8

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Enclosure types (aluminium)		Maximum power dissipation (W) – Tamb. up to **55**°C						
		INTERNAL TEMP.65°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
AQ-080806AL	EFXE-080806AL	2,6	3,9	6,5	7,8	10,4	11,7	13,0
AR-081306AL	EFXE-081306AL	3,5	5,3	8,8	10,6	14,1	15,9	17,7
AR-081806AL	EFXE-081806AL	4,4	6,6	11,1	13,3	17,8	20,0	22,2
AR-081808AL	EFXE-081808AL	5,5	8,2	13,8	16,5	22,1	24,8	27,6
AR-082505AL	EFXE-082505AL	5,3	8,0	13,4	16,1	21,4	24,1	26,8
AR-082508AL	EFXE-082508AL	7,1	10,7	17,8	21,4	28,5	32,1	35,7
AQ-101008AL	EFXE-101008AL	4,3	6,5	10,8	13,0	17,4	19,6	21,7
AR-101508AL	EFXE-101508AL	5,5	8,3	13,8	16,6	22,2	24,9	27,7
AR-101608AL	EFXE-101608AL	5,7	8,6	14,4	17,3	23,1	26,0	28,9
AR-102008AL	EFXE-102008AL	6,7	10,0	16,7	20,1	26,8	30,2	33,5
AQ-121208AL	EFXE-121208AL	5,4	8,1	13,5	16,2	21,6	24,3	27,0
AR-122209AL	EFXE-122209AL	8,4	12,6	21,0	25,3	33,7	37,9	42,1
AQ-141409AL	EFXE-141409AL	6,8	10,3	17,2	20,6	27,5	31,0	34,4
AR-142009AL	EFXE-142009AL	8,5	12,8	21,4	25,7	34,2	38,5	42,8
AQ-161609AL	EFXE-161609AL	8,6	12,9	21,5	25,8	34,4	38,7	43,0
AR-162410AL	EFXE-162410AL	11,0	16,5	27,6	33,1	44,2	49,7	55,3
AR-162609AL	EFXE-162609AL	10,9	16,4	27,4	32,8	43,8	49,3	54,8
AQ-181810AL	EFXE-181810AL	9,8	14,8	24,6	29,6	39,5	44,4	49,3
AR-182810AL	EFXE-182810AL	13,0	19,5	32,6	39,1	52,2	58,7	65,2
AR-202311AL	EFXE-202311AL	12,9	19,3	32,2	38,7	51,6	58,0	64,5
AR-202318AL	EFXE-202318AL	17,7	26,6	44,4	53,3	71,1	80,0	88,9
AR-232811AL	EFXE-232811AL	15,8	23,7	39,6	47,5	63,3	71,3	79,2
AR-233312AL	EFXE-233312AL	18,5	27,8	46,3	55,6	74,1	83,4	92,7
AR-233318AL	EFXE-233318AL	23,7	35,6	59,4	71,3	95,1	107,0	118,9

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Enclosure types (aluminium)		Maximum power dissipation (W) – Tamb. up to **60**°C					
		INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
AQ-080806AL	EFXE-080806AL	2,6	5,2	6,5	9,1	10,4	11,7
AR-081306AL	EFXE-081306AL	3,5	7,0	8,8	12,3	14,1	15,9
AR-081806AL	EFXE-081806AL	4,4	8,9	11,1	15,5	17,8	20,0
AR-081808AL	EFXE-081808AL	5,5	11,0	13,8	19,3	22,1	24,8
AR-082505AL	EFXE-082505AL	5,3	10,7	13,4	18,7	21,4	24,1
AR-082508AL	EFXE-082508AL	7,1	14,2	17,8	24,9	28,5	32,1
AQ-101008AL	EFXE-101008AL	4,3	8,7	10,8	15,2	17,4	19,6
AR-101508AL	EFXE-101508AL	5,5	11,1	13,8	19,4	22,2	24,9
AR-101608AL	EFXE-101608AL	5,7	11,5	14,4	20,2	23,1	26,0
AR-102008AL	EFXE-102008AL	6,7	13,4	16,7	23,5	26,8	30,2
AQ-121208AL	EFXE-121208AL	5,4	10,8	13,5	18,9	21,6	24,3
AR-122209AL	EFXE-122209AL	8,4	16,8	21,0	29,5	33,7	37,9
AQ-141409AL	EFXE-141409AL	6,8	13,7	17,2	24,1	27,5	31,0
AR-142009AL	EFXE-142009AL	8,5	17,1	21,4	30,0	34,2	38,5
AQ-161609AL	EFXE-161609AL	8,6	17,2	21,5	30,1	34,4	38,7
AR-162410AL	EFXE-162410AL	11,0	22,1	27,6	38,7	44,2	49,7
AR-162609AL	EFXE-162609AL	10,9	21,9	27,4	38,3	43,8	49,3
AQ-181810AL	EFXE-181810AL	9,8	19,7	24,6	34,5	39,5	44,4
AR-182810AL	EFXE-182810AL	13,0	26,1	32,6	45,7	52,2	58,7
AR-202311AL	EFXE-202311AL	12,9	25,8	32,2	45,1	51,6	58,0
AR-202318AL	EFXE-202318AL	17,7	35,5	44,4	62,2	71,1	80,0
AR-232811AL	EFXE-232811AL	15,8	31,6	39,6	55,4	63,3	71,3
AR-233312AL	EFXE-233312AL	18,5	37,0	46,3	64,8	74,1	83,4
AR-233318AL	EFXE-233318AL	23,7	47,5	59,4	83,2	95,1	107,0

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Enclosure types (aluminium)		Maximum power dissipation (W) – Tamb. up to **95**°C	
		INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
AQ-080806AL	EFXE-080806AL	1,3	2,6
AR-081306AL	EFXE-081306AL	1,7	3,5
AR-081806AL	EFXE-081806AL	2,2	4,4
AR-081808AL	EFXE-081808AL	2,7	5,5
AR-082505AL	EFXE-082505AL	2,6	5,3
AR-082508AL	EFXE-082508AL	3,5	7,1
AQ-101008AL	EFXE-101008AL	2,1	4,3
AR-101508AL	EFXE-101508AL	2,7	5,5
AR-101608AL	EFXE-101608AL	2,8	5,7
AR-102008AL	EFXE-102008AL	3,3	6,7
AQ-121208AL	EFXE-121208AL	2,7	5,4
AR-122209AL	EFXE-122209AL	4,2	8,4
AQ-141409AL	EFXE-141409AL	3,4	6,8
AR-142009AL	EFXE-142009AL	4,2	8,5
AQ-161609AL	EFXE-161609AL	4,3	8,6
AR-162410AL	EFXE-162410AL	5,5	11,0
AR-162609AL	EFXE-162609AL	5,4	10,9
AQ-181810AL	EFXE-181810AL	4,9	9,8
AR-182810AL	EFXE-182810AL	6,5	13,0
AR-202311AL	EFXE-202311AL	6,4	12,9
AR-202318AL	EFXE-202318AL	8,8	17,7
AR-232811AL	EFXE-232811AL	7,9	15,8
AR-233312AL	EFXE-233312AL	9,2	18,5
AR-233318AL	EFXE-233318AL	11,8	23,7

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Power dissipation – Stainless steel enclosures SB series

Enclosure types (stainless steel)		Maximum power dissipation (W) – Tamb. up to **40**°C						
		INTERNAL TEMP.60°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
SB-101210	EFXE-101210SB	5,5	8,3	11,1	12,5	15,3	16,7	18,1
SB-151510	EFXE-151510SB	8,0	12,0	16,0	18,0	22,0	24,0	26,1
SB-142013	EFXE-142013SB	10,4	15,7	20,9	23,5	28,8	31,4	34,0
SB-202010	EFXE-202010SB	10,7	16,1	21,4	24,1	29,5	32,2	34,8
SB-202016	EFXE-202016SB	13,9	20,8	27,8	31,3	38,3	41,7	45,2
SB-202713	EFXE-202713SB	14,4	21,6	28,9	32,5	39,7	43,3	46,9
SB-272713	EFXE-272713SB	16,7	25,1	33,5	37,7	46,0	50,2	54,4
SB-203016	EFXE-203016SB	17,1	25,7	34,3	38,6	47,2	51,4	55,7
SB-273513	EFXE-273513SB	19,2	28,9	38,5	43,3	53,0	57,8	62,6
SB-282816	EFXE-282816SB	19,3	29,0	38,7	43,6	53,3	58,1	63,0
SB-204016	EFXE-204016SB	20,2	30,3	40,4	45,5	55,6	60,6	65,7
SB-353516	EFXE-353516SB	24,4	36,6	48,8	54,9	67,1	73,2	79,3
SB-282827	EFXE-282827SB	26,2	39,3	52,5	59,0	72,2	78,7	85,3
SB-355016	EFXE-355016SB	29,7	44,5	59,4	66,8	81,7	89,1	96,6
SB-383816	EFXE-383816SB	26,6	39,9	53,2	59,8	73,1	79,8	86,5
SB-384516	EFXE-384516SB	29,1	43,7	58,3	65,6	80,2	87,5	94,8
SB-385716	EFXE-385716SB	33,4	50,1	66,8	75,2	91,9	100,3	108,7
SB-505016	EFXE-505016SB	35,8	53,8	71,7	80,7	98,6	107,6	116,6
SB-383827	EFXE-383827SB	35,1	52,7	70,2	79,0	96,6	105,4	114,2
SB-575716	EFXE-575716SB	41,5	62,3	83,1	93,5	114,3	124,7	135,1
SB-577620	EFXE-577620SB	53,9	80,9	107,9	121,3	148,3	161,8	175,3
SB-575730	EFXE-575730SB	55,8	83,7	111,6	125,6	153,5	167,5	181,4
SB-769520	EFXE-769520SB	72,2	108,3	144,4	162,4	198,5	216,6	234,6
SB-1258040	EFXE-1258040SB	72,2	108,3	144,4	162,4	198,5	216,6	234,6

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Enclosure types (Stainless steel)		Maximum power dissipation (W) – Tamb. up to **50**°C						
		INTERNAL TEMP.60°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
SB-101210	EFXE-101210SB	2,7	5,5	8,3	9,7	12,5	13,9	15,3
SB-151510	EFXE-151510SB	4,0	8,0	12,0	14,0	18,0	20,0	22,0
SB-142013	EFXE-142013SB	5,2	10,4	15,7	18,3	23,5	26,2	28,8
SB-202010	EFXE-202010SB	5,3	10,7	16,1	18,7	24,1	26,8	29,5
SB-202016	EFXE-202016SB	6,9	13,9	20,8	24,3	31,3	34,8	38,3
SB-202713	EFXE-202713SB	7,2	14,4	21,6	25,2	32,5	36,1	39,7
SB-272713	EFXE-272713SB	8,3	16,7	25,1	29,3	37,7	41,8	46,0
SB-203016	EFXE-203016SB	8,5	17,1	25,7	30,0	38,6	42,9	47,2
SB-273513	EFXE-273513SB	9,6	19,2	28,9	33,7	43,3	48,2	53,0
SB-282816	EFXE-282816SB	9,6	19,3	29,0	33,9	43,6	48,4	53,3
SB-204016	EFXE-204016SB	10,1	20,2	30,3	35,4	45,5	50,5	55,6
SB-353516	EFXE-353516SB	12,2	24,4	36,6	42,7	54,9	61,0	67,1
SB-282827	EFXE-282827SB	13,1	26,2	39,3	45,9	59,0	65,6	72,2
SB-355016	EFXE-355016SB	14,8	29,7	44,5	52,0	66,8	74,3	81,7
SB-383816	EFXE-383816SB	13,3	26,6	39,9	46,5	59,8	66,5	73,1
SB-384516	EFXE-384516SB	14,5	29,1	43,7	51,0	65,6	72,9	80,2
SB-385716	EFXE-385716SB	16,7	33,4	50,1	58,5	75,2	83,6	91,9
SB-505016	EFXE-505016SB	17,9	35,8	53,8	62,7	80,7	89,7	98,6
SB-383827	EFXE-383827SB	17,5	35,1	52,7	61,4	79,0	87,8	96,6
SB-575716	EFXE-575716SB	20,7	41,5	62,3	72,7	93,5	103,9	114,3
SB-577620	EFXE-577620SB	26,9	53,9	80,9	94,4	121,3	134,8	148,3
SB-575730	EFXE-575730SB	27,9	55,8	83,7	97,7	125,6	139,5	153,5
SB-769520	EFXE-769520SB	36,1	72,2	108,3	126,3	162,4	180,5	198,5
SB-1258040	EFXE-1258040SB	36,1	72,2	108,3	126,3	162,4	180,5	198,5

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Enclosure types (Stainless steel)		Maximum power dissipation (W) – Tamb. up to **55**°C						
		INTERNAL TEMP.65°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
SB-101210	EFXE-101210SB	2,7	4,1	6,9	8,3	11,1	12,5	13,9
SB-151510	EFXE-151510SB	4,0	6,0	10,0	12,0	16,0	18,0	20,0
SB-142013	EFXE-142013SB	5,2	7,8	13,1	15,7	20,9	23,5	26,2
SB-202010	EFXE-202010SB	5,3	8,0	13,4	16,1	21,4	24,1	26,8
SB-202016	EFXE-202016SB	6,9	10,4	17,4	20,8	27,8	31,3	34,8
SB-202713	EFXE-202713SB	7,2	10,8	18,0	21,6	28,9	32,5	36,1
SB-272713	EFXE-272713SB	8,3	12,5	20,9	25,1	33,5	37,7	41,8
SB-203016	EFXE-203016SB	8,5	12,8	21,4	25,7	34,3	38,6	42,9
SB-273513	EFXE-273513SB	9,6	14,4	24,1	28,9	38,5	43,3	48,2
SB-282816	EFXE-282816SB	9,6	14,5	24,2	29,0	38,7	43,6	48,4
SB-204016	EFXE-204016SB	10,1	15,1	25,2	30,3	40,4	45,5	50,5
SB-353516	EFXE-353516SB	12,2	18,3	30,5	36,6	48,8	54,9	61,0
SB-282827	EFXE-282827SB	13,1	19,6	32,8	39,3	52,5	59,0	65,6
SB-355016	EFXE-355016SB	14,8	22,2	37,1	44,5	59,4	66,8	74,3
SB-383816	EFXE-383816SB	13,3	19,9	33,2	39,9	53,2	59,8	66,5
SB-384516	EFXE-384516SB	14,5	21,8	36,4	43,7	58,3	65,6	72,9
SB-385716	EFXE-385716SB	16,7	25,0	41,8	50,1	66,8	75,2	83,6
SB-505016	EFXE-505016SB	17,9	26,9	44,8	53,8	71,7	80,7	89,7
SB-383827	EFXE-383827SB	17,5	26,3	43,9	52,7	70,2	79,0	87,8
SB-575716	EFXE-575716SB	20,7	31,1	51,9	62,3	83,1	93,5	103,9
SB-577620	EFXE-577620SB	26,9	40,4	67,4	80,9	107,9	121,3	134,8
SB-575730	EFXE-575730SB	27,9	41,8	69,7	83,7	111,6	125,6	139,5
SB-769520	EFXE-769520SB	36,1	54,1	90,2	108,3	144,4	162,4	180,5
SB-1258040	EFXE-1258040SB	36,1	54,1	90,2	108,3	144,4	162,4	180,5

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Enclosure types (Stainless steel)		Maximum power dissipation (W) – Tamb. up to **60**°C					
		INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
SB-101210	EFXE-101210SB	2,7	5,5	6,9	9,7	11,1	12,5
SB-151510	EFXE-151510SB	4,0	8,0	10,0	14,0	16,0	18,0
SB-142013	EFXE-142013SB	5,2	10,4	13,1	18,3	20,9	23,5
SB-202010	EFXE-202010SB	5,3	10,7	13,4	18,7	21,4	24,1
SB-202016	EFXE-202016SB	6,9	13,9	17,4	24,3	27,8	31,3
SB-202713	EFXE-202713SB	7,2	14,4	18,0	25,2	28,9	32,5
SB-272713	EFXE-272713SB	8,3	16,7	20,9	29,3	33,5	37,7
SB-203016	EFXE-203016SB	8,5	17,1	21,4	30,0	34,3	38,6
SB-273513	EFXE-273513SB	9,6	19,2	24,1	33,7	38,5	43,3
SB-282816	EFXE-282816SB	9,6	19,3	24,2	33,9	38,7	43,6
SB-204016	EFXE-204016SB	10,1	20,2	25,2	35,4	40,4	45,5
SB-353516	EFXE-353516SB	12,2	24,4	30,5	42,7	48,8	54,9
SB-282827	EFXE-282827SB	13,1	26,2	32,8	45,9	52,5	59,0
SB-355016	EFXE-355016SB	14,8	29,7	37,1	52,0	59,4	66,8
SB-383816	EFXE-383816SB	13,3	26,6	33,2	46,5	53,2	59,8
SB-384516	EFXE-384516SB	14,5	29,1	36,4	51,0	58,3	65,6
SB-385716	EFXE-385716SB	16,7	33,4	41,8	58,5	66,8	75,2
SB-505016	EFXE-505016SB	17,9	35,8	44,8	62,7	71,7	80,7
SB-383827	EFXE-383827SB	17,5	35,1	43,9	61,4	70,2	79,0
SB-575716	EFXE-575716SB	20,7	41,5	51,9	72,7	83,1	93,5
SB-577620	EFXE-577620SB	26,9	53,9	67,4	94,4	107,9	121,3
SB-575730	EFXE-575730SB	27,9	55,8	69,7	97,7	111,6	125,6
SB-769520	EFXE-769520SB	36,1	72,2	90,2	126,3	144,4	162,4
SB-1258040	EFXE-1258040SB	36,1	72,2	90,2	126,3	144,4	162,4

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Enclosure types (Stainless steel)		Maximum power dissipation (W) – Tamb. up to **95**°C	
		INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
SB-101210	EFXE-101210SB	1,3	2,7
SB-151510	EFXE-151510SB	2,0	4,0
SB-142013	EFXE-142013SB	2,6	5,2
SB-202010	EFXE-202010SB	2,6	5,3
SB-202016	EFXE-202016SB	3,4	6,9
SB-202713	EFXE-202713SB	3,6	7,2
SB-272713	EFXE-272713SB	4,1	8,3
SB-203016	EFXE-203016SB	4,2	8,5
SB-273513	EFXE-273513SB	4,8	9,6
SB-282816	EFXE-282816SB	4,8	9,6
SB-204016	EFXE-204016SB	5,0	10,1
SB-353516	EFXE-353516SB	6,1	12,2
SB-282827	EFXE-282827SB	6,5	13,1
SB-355016	EFXE-355016SB	7,4	14,8
SB-383816	EFXE-383816SB	6,6	13,3
SB-384516	EFXE-384516SB	7,2	14,5
SB-385716	EFXE-385716SB	8,3	16,7
SB-505016	EFXE-505016SB	8,9	17,9
SB-383827	EFXE-383827SB	8,7	17,5
SB-575716	EFXE-575716SB	10,3	20,7
SB-577620	EFXE-577620SB	13,4	26,9
SB-575730	EFXE-575730SB	13,9	27,9
SB-769520	EFXE-769520SB	18,0	36,1
SB-1258040	EFXE-1258040SB	18,0	36,1

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Power dissipation – Stainless steel enclosures ST series

Enclosure types (Stainless steel)		Maximum power dissipation (W) – Tamb. up to **40**°C						
		INTERNAL TEMP.60°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
ST-101210	EFXE-101210ST	5,5	8,3	11,1	12,5	15,3	16,7	18,1
ST-151510	EFXE-151510ST	8,0	12,0	16,0	18,0	22,0	24,0	26,1
ST-142013	EFXE-142013ST	10,4	15,7	20,9	23,5	28,8	31,4	34,0
ST-202010	EFXE-202010ST	10,7	16,1	21,4	24,1	29,5	32,2	34,8
ST-202016	EFXE-202016ST	13,9	20,8	27,8	31,3	38,3	41,7	45,2
ST-202713	EFXE-202713ST	14,4	21,6	28,9	32,5	39,7	43,3	46,9
ST-272713	EFXE-272713ST	16,7	25,1	33,5	37,7	46,0	50,2	54,4
ST-203016	EFXE-203016ST	17,1	25,7	34,3	38,6	47,2	51,4	55,7
ST-273513	EFXE-273513ST	19,2	28,9	38,5	43,3	53,0	57,8	62,6
ST-282816	EFXE-282816ST	19,3	29,0	38,7	43,6	53,3	58,1	63,0
ST-204016	EFXE-204016ST	20,2	30,3	40,4	45,5	55,6	60,6	65,7
ST-353516	EFXE-353516ST	24,4	36,6	48,8	54,9	67,1	73,2	79,3
ST-282827	EFXE-282827ST	26,2	39,3	52,5	59,0	72,2	78,7	85,3
ST-355016	EFXE-355016ST	29,7	44,5	59,4	66,8	81,7	89,1	96,6
ST-383816	EFXE-383816ST	26,6	39,9	53,2	59,8	73,1	79,8	86,5
ST-384516	EFXE-384516ST	29,1	43,7	58,3	65,6	80,2	87,5	94,8
ST-385716	EFXE-385716ST	33,4	50,1	66,8	75,2	91,9	100,3	108,7
ST-505016	EFXE-505016ST	35,8	53,8	71,7	80,7	98,6	107,6	116,6
ST-383827	EFXE-383827ST	35,1	52,7	70,2	79,0	96,6	105,4	114,2
ST-575716	EFXE-575716ST	41,5	62,3	83,1	93,5	114,3	124,7	135,1
ST-577620	EFXE-577620ST	53,9	80,9	107,9	121,3	148,3	161,8	175,3
ST-575730	EFXE-575730ST	55,8	83,7	111,6	125,6	153,5	167,5	181,4
ST-769520	EFXE-769520ST	72,2	108,3	144,4	162,4	198,5	216,6	234,6
ST-1258040	EFXE-1258040ST	72,2	108,3	144,4	162,4	198,5	216,6	234,6

Enclosure types (Stainless steel)		Maximum power dissipation (W) – Tamb. up to **50**°C						
		INTERNAL TEMP.60°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
ST-101210	EFXE-101210ST	2,7	5,5	8,3	9,7	12,5	13,9	15,3
ST-151510	EFXE-151510ST	4,0	8,0	12,0	14,0	18,0	20,0	22,0
ST-142013	EFXE-142013ST	5,2	10,4	15,7	18,3	23,5	26,2	28,8
ST-202010	EFXE-202010ST	5,3	10,7	16,1	18,7	24,1	26,8	29,5
ST-202016	EFXE-202016ST	6,9	13,9	20,8	24,3	31,3	34,8	38,3
ST-202713	EFXE-202713ST	7,2	14,4	21,6	25,2	32,5	36,1	39,7
ST-272713	EFXE-272713ST	8,3	16,7	25,1	29,3	37,7	41,8	46,0
ST-203016	EFXE-203016ST	8,5	17,1	25,7	30,0	38,6	42,9	47,2
ST-273513	EFXE-273513ST	9,6	19,2	28,9	33,7	43,3	48,2	53,0
ST-282816	EFXE-282816ST	9,6	19,3	29,0	33,9	43,6	48,4	53,3
ST-204016	EFXE-204016ST	10,1	20,2	30,3	35,4	45,5	50,5	55,6
ST-353516	EFXE-353516ST	12,2	24,4	36,6	42,7	54,9	61,0	67,1
ST-282827	EFXE-282827ST	13,1	26,2	39,3	45,9	59,0	65,6	72,2
ST-355016	EFXE-355016ST	14,8	29,7	44,5	52,0	66,8	74,3	81,7
ST-383816	EFXE-383816ST	13,3	26,6	39,9	46,5	59,8	66,5	73,1
ST-384516	EFXE-384516ST	14,5	29,1	43,7	51,0	65,6	72,9	80,2
ST-385716	EFXE-385716ST	16,7	33,4	50,1	58,5	75,2	83,6	91,9
ST-505016	EFXE-505016ST	17,9	35,8	53,8	62,7	80,7	89,7	98,6
ST-383827	EFXE-383827ST	17,5	35,1	52,7	61,4	79,0	87,8	96,6
ST-575716	EFXE-575716ST	20,7	41,5	62,3	72,7	93,5	103,9	114,3
ST-577620	EFXE-577620ST	26,9	53,9	80,9	94,4	121,3	134,8	148,3
ST-575730	EFXE-575730ST	27,9	55,8	83,7	97,7	125,6	139,5	153,5
ST-769520	EFXE-769520ST	36,1	72,2	108,3	126,3	162,4	180,5	198,5
ST-1258040	EFXE-1258040ST	36,1	72,2	108,3	126,3	162,4	180,5	198,5

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Enclosure types (Stainless steel)		Maximum power dissipation (W) – Tamb. up to **55**°C						
		INTERNAL TEMP.65°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
ST-101210	EFXE-101210ST	2,7	4,1	6,9	8,3	11,1	12,5	13,9
ST-151510	EFXE-151510ST	4,0	6,0	10,0	12,0	16,0	18,0	20,0
ST-142013	EFXE-142013ST	5,2	7,8	13,1	15,7	20,9	23,5	26,2
ST-202010	EFXE-202010ST	5,3	8,0	13,4	16,1	21,4	24,1	26,8
ST-202016	EFXE-202016ST	6,9	10,4	17,4	20,8	27,8	31,3	34,8
ST-202713	EFXE-202713ST	7,2	10,8	18,0	21,6	28,9	32,5	36,1
ST-272713	EFXE-272713ST	8,3	12,5	20,9	25,1	33,5	37,7	41,8
ST-203016	EFXE-203016ST	8,5	12,8	21,4	25,7	34,3	38,6	42,9
ST-273513	EFXE-273513ST	9,6	14,4	24,1	28,9	38,5	43,3	48,2
ST-282816	EFXE-282816ST	9,6	14,5	24,2	29,0	38,7	43,6	48,4
ST-204016	EFXE-204016ST	10,1	15,1	25,2	30,3	40,4	45,5	50,5
ST-353516	EFXE-353516ST	12,2	18,3	30,5	36,6	48,8	54,9	61,0
ST-282827	EFXE-282827ST	13,1	19,6	32,8	39,3	52,5	59,0	65,6
ST-355016	EFXE-355016ST	14,8	22,2	37,1	44,5	59,4	66,8	74,3
ST-383816	EFXE-383816ST	13,3	19,9	33,2	39,9	53,2	59,8	66,5
ST-384516	EFXE-384516ST	14,5	21,8	36,4	43,7	58,3	65,6	72,9
ST-385716	EFXE-385716ST	16,7	25,0	41,8	50,1	66,8	75,2	83,6
ST-505016	EFXE-505016ST	17,9	26,9	44,8	53,8	71,7	80,7	89,7
ST-383827	EFXE-383827ST	17,5	26,3	43,9	52,7	70,2	79,0	87,8
ST-575716	EFXE-575716ST	20,7	31,1	51,9	62,3	83,1	93,5	103,9
ST-577620	EFXE-577620ST	26,9	40,4	67,4	80,9	107,9	121,3	134,8
ST-575730	EFXE-575730ST	27,9	41,8	69,7	83,7	111,6	125,6	139,5
ST-769520	EFXE-769520ST	36,1	54,1	90,2	108,3	144,4	162,4	180,5
ST-1258040	EFXE-1258040ST	36,1	54,1	90,2	108,3	144,4	162,4	180,5

Enclosure types (Stainless steel)		Maximum power dissipation (W) – Tamb. up to **60**°C					
		INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
ST-101210	EFXE-101210ST	2,7	5,5	6,9	9,7	11,1	12,5
ST-151510	EFXE-151510ST	4,0	8,0	10,0	14,0	16,0	18,0
ST-142013	EFXE-142013ST	5,2	10,4	13,1	18,3	20,9	23,5
ST-202010	EFXE-202010ST	5,3	10,7	13,4	18,7	21,4	24,1
ST-202016	EFXE-202016ST	6,9	13,9	17,4	24,3	27,8	31,3
ST-202713	EFXE-202713ST	7,2	14,4	18,0	25,2	28,9	32,5
ST-272713	EFXE-272713ST	8,3	16,7	20,9	29,3	33,5	37,7
ST-203016	EFXE-203016ST	8,5	17,1	21,4	30,0	34,3	38,6
ST-273513	EFXE-273513ST	9,6	19,2	24,1	33,7	38,5	43,3
ST-282816	EFXE-282816ST	9,6	19,3	24,2	33,9	38,7	43,6
ST-204016	EFXE-204016ST	10,1	20,2	25,2	35,4	40,4	45,5
ST-353516	EFXE-353516ST	12,2	24,4	30,5	42,7	48,8	54,9
ST-282827	EFXE-282827ST	13,1	26,2	32,8	45,9	52,5	59,0
ST-355016	EFXE-355016ST	14,8	29,7	37,1	52,0	59,4	66,8
ST-383816	EFXE-383816ST	13,3	26,6	33,2	46,5	53,2	59,8
ST-384516	EFXE-384516ST	14,5	29,1	36,4	51,0	58,3	65,6
ST-385716	EFXE-385716ST	16,7	33,4	41,8	58,5	66,8	75,2
ST-505016	EFXE-505016ST	17,9	35,8	44,8	62,7	71,7	80,7
ST-383827	EFXE-383827ST	17,5	35,1	43,9	61,4	70,2	79,0
ST-575716	EFXE-575716ST	20,7	41,5	51,9	72,7	83,1	93,5
ST-577620	EFXE-577620ST	26,9	53,9	67,4	94,4	107,9	121,3
ST-575730	EFXE-575730ST	27,9	55,8	69,7	97,7	111,6	125,6
ST-769520	EFXE-769520ST	36,1	72,2	90,2	126,3	144,4	162,4
ST-1258040	EFXE-1258040ST	36,1	72,2	90,2	126,3	144,4	162,4

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Enclosure types (Stainless steel)		Maximum power dissipation (W) – Tamb. up to **95**°C	
		INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
ST-101210	EFXE-101210ST	1,3	2,7
ST-151510	EFXE-151510ST	2,0	4,0
ST-142013	EFXE-142013ST	2,6	5,2
ST-202010	EFXE-202010ST	2,6	5,3
ST-202016	EFXE-202016ST	3,4	6,9
ST-202713	EFXE-202713ST	3,6	7,2
ST-272713	EFXE-272713ST	4,1	8,3
ST-203016	EFXE-203016ST	4,2	8,5
ST-273513	EFXE-273513ST	4,8	9,6
ST-282816	EFXE-282816ST	4,8	9,6
ST-204016	EFXE-204016ST	5,0	10,1
ST-353516	EFXE-353516ST	6,1	12,2
ST-282827	EFXE-282827ST	6,5	13,1
ST-355016	EFXE-355016ST	7,4	14,8
ST-383816	EFXE-383816ST	6,6	13,3
ST-384516	EFXE-384516ST	7,2	14,5
ST-385716	EFXE-385716ST	8,3	16,7
ST-505016	EFXE-505016ST	8,9	17,9
ST-383827	EFXE-383827ST	8,7	17,5
ST-575716	EFXE-575716ST	10,3	20,7
ST-577620	EFXE-577620ST	13,4	26,9
ST-575730	EFXE-575730ST	13,9	27,9
ST-769520	EFXE-769520ST	18,0	36,1
ST-1258040	EFXE-1258040ST	18,0	36,1

Maximum Power Dissipation calculation

The values specified in the tables as per clause 2.1.1 may be modified within the maximum admitted Tamb and maximum admitted internal temperature as follows.

$$Pdiss\ (W) = \frac{Tmax - Tamb}{Rth}$$

Rth = A x (enclosure surface in mm^2 except enclosure bottom)^B

Legend:
Rth – Thermal resistance [K/W].
Tmax – Maximum allowed temperature inside enclosure.
Tamb – Ambient temperature of enclosure
A and B - coefficients determined for each series o enclosure. Exact values are given in manufacturer's documentation.

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[16] Confidential Report No. FIDI 21 CR 075

[16.1] Routine testing

Junction boxes, local control stations and local control panels fitted with wiring, shall be subject to a routine dielectric strength test according to the clause 7.1 of IEC 60079-7.

[17] Specific Conditions of Use

- Enclosures marked with warning label: "WARNING – POTENTIAL ELECTROSTATIC CHARGING HAZARD – SEE INSTRUCTIONS" must be cleaned only by damp cloth or antistatic products.

- Apparatus equipped with drain / venting valve Technor Italsmea model ECR3:
  - the valve cannot be open when an explosive dust atmosphere is present.
  - The valve can be open when an explosive gas atmosphere is present: when open, the equipment reaches the protection degree IP44.
  - When the valve is left in open position, it should be protected from light exposure.

- On the intrinsic safety terminals, the user must only connect devices with compatible intrinsic safety parameters according to EN 60079-14.

[18] Essential Health and Safety Requirements

Covered by the conformity with harmonized standards listed under item 9.

[19] Drawings and Documents

Title:	Drawing No.:	Rev. level:	Date:
Technical note	TN2111	0	17.11.2021
Instruction for use	TN2111 Annex A	0	08.11.2021
Apparatus list	TN2111 Annex B	0	17.11.2021
Drawings:			
Cable entries, plug, adaptors coupling systems	AC2111, sheet 1	0	10.11.2021
Example of operator arrangements for AQ-AR-EFE	AC2111, sheet 2	0	10.11.2021
Example of operator arrangements for SB-ST-EFEXE	AC2111, sheet 3	0	10.11.2021
Example terminals and earth bus bar	AC2111, sheet 4	0	10.11.2021
Drain / breath device type ECR3	AC2111, sheet 5	0	10.11.2021
Marking label SB..., ST..., AQ..., AR...	AC2111, sheet 6	0	10.11.2021
Marking label SB..., ST..., AQ..., AR...	AC2111, sheet 7	0	10.11.2021

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[1] **SUPPLEMENTARY EU – TYPE EXAMINATION CERTIFICATE**

[2] Equipment or Protective Systems Intended for use in Potentially Explosive Atmospheres Directive 2014/34/EU.

[3] Supplementary EU-Type Examination Certificate Number: **FIDI 21 ATEX 0090X/1**

[4] Product: **Junction boxes, local control stations and local control panels**

Type: **AQ-***P / AQ-***AL / AR-***P / AR-***AL**
AQ-*P-HT / AQ-***AL-HT / AR-***P-HT / AR-***AL-HT**
SB-* / ST-*****
EFE-* / EFXE-*** AL/ EFXE-***SB / EFXE-***ST**
EFE-*-HT / EFXE-***AL-HT**

[5] Manufacturer: **Technor Italsmea S.p.A.**

[6] Address: **Via Italia 33, 20060 Gessate (MI), Italy**

[7] This supplementary certificate extends EU – Type Examination Certificate to apply to product designed and constructed in accordance with the specification set out in the Schedule of the said certificate but having any variations specified in the Schedule to this certificate and the documents therein referred to.

[8] FIDITAS Ltd., Notified Body number 2829 in accordance with Article 17 of Directive 2014/34/EU of the European Parliament and of the Council, dated 26 February 2014, certifies that this product has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of products intended for use in potentially explosive atmospheres given in Annex II of the Directive.

[9] The examination and test results are recorded in confidential Report No: **FIDI 23 CR 019**

[10] The marking of the product shall include the following:

II 1 G	**Ex ia IIC/IIB T6...T4 Ga[(2)]** or
II 2(1) G or **II 2(2) G**	**Ex db eb ia/ib mb [[(3)]] IIC/IIB T6...T4 Gb[(1)]** or
II 2 G	**Ex eb IIC/IIB T6...T4 Gb[(1)]** or
II 2 D	**Ex tb IIIC T85°C...T135°C Db**

(1) Others type of protection additional to 'eb' depending to the components actually mounted.

(2) In case of enclosures containing 'eb' terminals and/or 'ia Ga' already certified components (with compatible marking) only.

(3) Associated equipment protection depending on the components actually mounted (see lists):
e.g. [ia/ib/ia Ga/ia IIIC Da] and/or [ia IIIC Da] or [ia/ib/ia Ga/ia IIIC Da] and/or [ia/ib/ia Ga] [ia IIIC Da]

FIDITAS Ltd.
Certification department
Approved:

Marino Kelava, M.E.Eng.

Our ref.: 23.CRT.071

Date: 19.04.2023

Fiditas d.o.o. ZAGREB

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[11] **SCHEDULE**

[12] **SUPPLEMENTARY EU - TYPE EXAMINATION CERTIFICATE No.: FIDI 21 ATEX 0090X /1**

[13] **Description of the variation to the Product**

New Ex products added:

- Surge voltage protection unit type: PLUGTRAB PT2 or PT4 – PHOENIX CONTACT; II 1G> Ex ia IIC T4...T6 Ga; KEMA 00 ATEX 1099X;
- SITRANS TH230/420, type: 7NG0317, 0310; 0410 TR320/TR420 7NG0327; 7NG0320; TYPE 7NG0420; Siemens AG; II 1G Ex ia IIC T6...T4 Ga; II 2(1)G Ex ib [ia Ga] IIC T6...T4 Gb; DEKRA 17 ATEX 0116X
- Enhanced Model 644 Temperature Transmitter, ROSEMOUNT INCORPORATED, II 1G Ex ia IIC T6...T4 Ga; DEKRA 21ATEX0003X,
- Temperature Transmitter type: 5434D; 5431D; 6431D; 5435D; 5437D; 5437D; 5437B; 6437D, II 1G Ex ia IIC T6...T4 Ga; II 2(1)G Ex ib [ia Ga] IIC T6...T4 Gb; DEKRA 16 ATEX 0047X,
- Controls Units and / or Junction Boxes Type: GUB..., TECHNOR ITALSMEA; II 2G Ex db (*) IIC T(*) Gb; INERIS 22 ATEX 0008X
- Cable Transit Device type: CF 8 Ex, CF 32 Ex, CF 16 Ex, C RS T...Ex, RS..B Ex, SF...Ex, SFX...B Ex, B...B Ex, R...B Ex and RO...B; ROXTEC INTERNATIONAL AB, II 2G Ex e IIC Gb, II 2D Ex tb IIC Db; NEMKO 12 ATEX 1278X
- Cable Transit Device type: HD 16 Ex, HD 24 Ex, HD 32 Ex and HDLC Ex, ROXTEC INTERNATIONAL AB, II 2G Ex eb IIC Gb, II 2D Ex tb IIIC Db, PRESAFE 15 ATEX 6419X
- Control stations and junction boxes type: CP..., TECHNOR ITALSMEA, II 2G Ex db IIC T6 or T5 or T4 Gb or II 2(1)G Ex db [ia Ga] IIC T6 Gb(***) or II 2(2)G Ex db [ib] IIC T6 Gb (***); INERIS 03 ATEX 0009X
- Industrial plug and socket type: DXN1, MARECHAL ELECTRIC, II 2G Ex db eb IIC T5 or T6; II 2D Ex tb IIIC T90°C/T70°C; LCIE 99 ATEX6027X
- Industrial plug and socket type: DXN3, MARECHAL ELECTRIC; II 2G Ex db eb IIC T5 or T6; II 2D Ex tb IIIC T90°C/T70°C; LCIE 05 ATEX 6149X
- Industrial plug and socket type: DXN6, MARECHAL ELECTRIC, II 2G Ex db eb IIC T5 or T6; II 2D Ex tb IIIC T90°C/T70°C; LCIE 05 ATEX 6150X
- Industrial plug and socket type: PXN12C, MARECHAL ELECTRIC, II 2G Ex eb IIC T*; II 2G Ex ia or ib IIC T*; II 2D Ex tb IIIC T* Db; LCIE 07 ATEX 6070X
- Industrial plug and socket type: DXN25C, MARECHAL ELECTRIC; II 2G Ex eb IIC T*; II 2G Ex ia or ib IIC T6; II2D Ex tb IIIC T*; LCIE 09ATEX3050X
- Industrial plug and socket type: DXN37C, MARECHAL ELECTRIC; II 2G Ex eb IIC T*; II 2G Ex ia or ib IIC T6; II2D Ex tb IIIC T*; LCIE 07ATEX6071X
- Industrial plug and socket type: SPeX, MARECHAL ELECTRIC, II 2G Ex eb IIC T*; II2D Ex tb IIIC T* Db; LCIE 07ATEX6073X
- Industrial plug and socket type: DXA1, MARECHAL ELECTRIC, II 2G Ex db eb IIC T* Gb; II 2D Ex tb IIC T*°C Db; LCIE 15ATEX 3033X
- Industrial plug and socket type: PNCX, MARECHAL ELECTRIC, II 2G Ex IIC T6 Gb; II 2D Ex tb IIIC T72°C Db; LCIE 16ATEX3001X
- Terminal type: WDU 240, WEIDMULLER, II 2G Ex eb IIC Gb; KEMA 01 ATEX 2186U.

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[14] Confidential Report No. FIDI 23 CR 019

[14.1] Routine testing

No change to specified in the initial certificate.

[15] Specific Conditions of Use

Addditional to those specified the initial certificate:

- Manufacturer must obey relevant specific condition of use of Ex equipment and/or schedule of limitation of Ex components installed in/on the product and forward to the end user if relevant for the installation and use.

[16] Essential Health and Safety Requirements

Compliance with the Essential Health and Safety Requirements is not affected by this variation.

[17] Drawings and Documents

Title:	Drawing No.:	Rev. level:	Date:
Technical note	TN2111	1	20.01.2023
Instruction for use	TN2111 Annex A	1	20.01.2023
Apparatus list	TN2111 Annex B	1	20.01.2023

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IECEx Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION
IEC Certification System for Explosive Atmospheres

for rules and details of the IECEx Scheme visit www.iecex.com

Certificate No.:	**IECEx FIDI 21.0015X**	Page 1 of 4	Certificate history: Issue 0 (2022-02-18)
Status:	**Current**	Issue No: 1	
Date of Issue:	2023-05-04		

Applicant: **Technor Italsmea S.p.A.**
Via Italia 33
20060 Gessate (MI)
Italy

Equipment: **Junction boxes, local control stations and local control panels**

Optional accessory: Model reference: AQ-***P / AQ-***AL / AR-***P / AR-***AL / AQ-***P-HT / AQ-***AL-HT / AR-***P-HT / AR-***AL-HT / SB-*** / ST-*** / EFE-*** / EFXE-*** AL/ EFXE-***SB / EFXE-***ST / EFE-***-HT / EFXE-***AL-HT

Type of Protection: **Flameproof enclosure 'db'; Intrinsic safety 'ia/ib'; Increased safety 'eb'; Encapsulation 'mb', Protection by enclosure 'tb'**

Marking: **Ex ia IIC/IIB T6...T4 Ga**(2) or

Ex db eb ia/ib mb [(3)] IIC/IIB T6...T4 Gb(1) or

Ex eb IIC/IIB T6...T4 Gb(1) or

Ex tb IIIC T85°C...T135°C Db

(1) Others type of protection additional to Ex e/eb depending to the components actually mounted.

(2) In case of enclosures containing Ex e/Ex eb terminals and/or Ex ia Ga already certified components (with compatible marking) only.

(3) Associated equipment protection depending on the components actually mounted (see lists): e.g. [ia/ib/ia Ga/ia IIIC Da] and/or [ia IIIC Da] or [ia/ib/ia Ga/ia IIIC Da] and/or [ia/ib/ia Ga] [ia IIIC Da]

Approved for issue on behalf of the IECEx Certification Body: **Marino Kelava**

Position: **Certification Signatory**

Signature:
(for printed version)

Date:
(for printed version)

1. This certificate and schedule may only be reproduced in full.
2. This certificate is not transferable and remains the property of the issuing body.
3. The Status and authenticity of this certificate may be verified by visiting www.iecex.com or use of this QR Code.

Certificate issued by:

Fiditas Ltd
Slavka Tomerlina 44
HR-10361 Zagreb-Sesvete
Croatia

Fiditas
explosion safety solutions

IECEx Certificate of Conformity

Certificate No.: **IECEx FIDI 21.0015X**

Date of issue: 2023-05-04 Issue No: 1

Manufacturer: **Technor Italsmea S.p.A.**
Via Italia 33
20060 Gessate (MI)
Italy

Manufacturing locations:

This certificate is issued as verification that a sample(s), representative of production, was assessed and tested and found to comply with the IEC Standard list below and that the manufacturer's quality system, relating to the Ex products covered by this certificate, was assessed and found to comply with the IECEx Quality system requirements.This certificate is granted subject to the conditions as set out in IECEx Scheme Rules, IECEx 02 and Operational Documents as amended

STANDARDS :
The equipment and any acceptable variations to it specified in the schedule of this certificate and the identified documents, was found to comply with the following standards

IEC 60079-0:2017 Explosive atmospheres - Part 0: Equipment - General requirements
Edition:7.0

IEC 60079-1:2014-06 Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"
Edition:7.0

IEC 60079-11:2011 Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"
Edition:6.0

IEC 60079-18:2017 Explosive atmospheres - Part 18: Protection by encapsulation "m"
Edition:4.1

IEC 60079-31:2013 Explosive atmospheres - Part 31: Equipment dust ignition protection by enclosure "t"
Edition:2

IEC 60079-7:2017 Explosive atmospheres - Part 7: Equipment protection by increased safety "e"
Edition:5.1

This Certificate **does not** indicate compliance with safety and performance requirements other than those expressly included in the Standards listed above.

TEST & ASSESSMENT REPORTS:
A sample(s) of the equipment listed has successfully met the examination and test requirements as recorded in:

Test Reports:

HR/FIDI/ExTR21.0016/00 HR/FIDI/ExTR21.0016/01

Quality Assessment Report:

FR/INE/QAR08.0002/15

IECEx Certificate of Conformity

EQUIPMENT:
Equipment and systems covered by this Certificate are as follows:

Junction boxes, local control stations and local control panels series AQ-…..; AR-…..; SB…..; EFE-…..; EFXE-….. use certified enclosures of various sizes, manufactured by Technor Italsmea S.p.A., type: AQ-.... ; AR-....; SB-...; ST- …, certificate IECEx FIDI 21.0012U.

Enclosures coded …-HT are made in glass fiber reinforced polyester resin or in aluminum, and covered by IECEx component certificates: IECEx PTB 08.0003U, enclosure type: 26.****** and IECEx PTB 08.0003U, enclosure type: 25.******.

Enclosures may be equipped with certified Ex equipment or Ex components and Ex terminals listed in manufacturer's documentation. Certified Ex equipment or Ex components and Ex terminals must be used according to data available in related component or equipment certificates, in particular relevant temperature range, voltage and current limitations. The cable glands or plugs, with separate IECEx certificate, made in type of protection ‘eb’ and/or ‘tb’ with appropriate IP protection are mounted according to related manufacturer’s installation instructions. Each enclosure is provided with internal earthing certified terminal or earthing screw or bolt. Metal enclosures are provided by external earthing screw or bolt. Metal and polyester enclosures can be provided by passing through earthing terminals.

All enclosures can be provided by:
- Externally installed accessories as specified in manufacturer documents,
- Drain breath device type ECR3, included in this certificate,
- Internal/external earthing plate.

For other description see Annex.

SPECIFIC CONDITIONS OF USE: YES as shown below:

- Enclosures marked with warning label: “WARNING – POTENTIAL ELECTROSTATIC CHARGING HAZARD – SEE INSTRUCTIONS” must be cleaned only by damp cloth or antistatic products.
- Apparatus equipped with drain / venting valve Technor Italsmea model ECR3:
  - the valve cannot be open when an explosive dust atmosphere is present.
  - The valve can be open when an explosive gas atmosphere is present: when open, the equipment reaches the protection degree IP44.
  - When the valve is left in open position, it should be protected from light exposure.
- On the intrinsic safety terminals, the user must only connect devices with compatible intrinsic safety parameters according to IEC 60079-14.

IECEx Certificate of Conformity

DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)
New IECEx certified Ex products added in the Apparatus list according to list given in HR/FIDI/ ExTR 21.0016/01.

Annex:

IECEx FIDI 21.0015X Technor Equipment Annex1 issue1.pdf

Technical description (continued from original certificate)

Model identification

Junction boxes

A(1)-(2) (3) (4) (5) (6)	(1) –	**Q**: Square size **R**: Rectangular size
	(2) (3) (4)	dimension, in cm
	(5)	Material **P**: Glass fiber reinforced polyester resin **AL**: Aluminium Alloy
	(6)	None: up to internal temperature of 105°C **HT**: up to internal temperature of 130°C
SB- (2) (3) (4)	(2) (3) (4)	dimension, in cm
ST- (2) (3) (4)	(2) (3) (4)	dimension, in cm

Panel boards

EFE- (2) (3) (4) (6)	(2) (3) (4)	dimension, in cm
	(6)	None: up to internal temperature of 105°C **HT**: up to internal temperature of 130°C
EFXE- (2) (3) (4) (5) (6)	(2) (3) (4)	dimension, in cm
	(5)	Material **SB** or **ST**: stainless steel **AL**: Aluminium Alloy
	(6)	None: up to internal temperature of 105°C **HT**: up to internal temperature of 130°C

Technical data:

Electrical data:	According to Ex component to actually installed
Ambient temperature:	-50°C to +95°C Other possible ranges are with: - min temperature: -50°C to -20 °C - max temperature of +40 °C to +95 °C
Mechanical protection:	IP55, IP66 or IP67 depending on model

Temperature class and/or maximum surface temperature of any junction box or control panel depend on ambient temperature and internal power dissipation. The values that must be observed are given in relevant tables in this certificate.

For commercial reasons model name listed in the tables below can be modified as follows: first (2) and second (3) pair of digits can be reversed.

Models sizes

Polyester High Temperature		Aluminium High Temperature	
AQ-080806P-HT	EFE-080806-HT	AQ-080806AL-HT	EFXE-080806AL-HT
AQ-080808P-HT	EFE-080808-HT	AR-081306AL-HT	EFXE-081306AL-HT
AR-081106P-HT	EFE-081106-HT	AR-081806AL-HT	EFXE-081806AL-HT
AR-081108P-HT	EFE-081108-HT	AR-082505AL-HT	EFXE-082505AL-HT
AR-081606P-HT	EFE-081606-HT	AQ-101008AL-HT	EFXE-101008AL-HT
AR-081608P-HT	EFE-081608-HT	AR-101608AL-HT	EFXE-101608AL-HT
AR-081906P-HT	EFE-081906-HT	AR-102008AL-HT	EFXE-102008AL-HT
AR-081908P-HT	EFE-081908-HT	AQ-121208AL-HT	EFXE-121208AL-HT
AR-082306P-HT	EFE-082306-HT	AQ-121209AL-HT	EFXE-121209AL-HT
AR-082308P-HT	EFE-082308-HT	AR-122208AL-HT	EFXE-122208AL-HT
AQ-121209P-HT	EFE-121209-HT	AR-122209AL-HT	EFXE-122209AL-HT
AR-122209P-HT	EFE-122209-HT	AR-123608AL-HT	EFXE-123608AL-HT
AQ-161609P-HT	EFE-161609-HT	AQ-141409AL-HT	EFXE-141409AL-HT
AR-162609P-HT	EFE-162609-HT	AR-142009AL-HT	EFXE-142009AL-HT
AR-163609P-HT	EFE-163609-HT	AQ-161609AL-HT	EFXE-161609AL-HT
AR-165609P-HT	EFE-165609-HT	AR-162609AL-HT	EFXE-162609AL-HT
AQ-202017P-HT	EFE-202017-HT	AR-163609AL-HT	EFXE-163609AL-HT
AR-203017P-HT	EFE-203017-HT	AR-165609AL-HT	EFXE-165609AL-HT
AQ-252612P-HT	EFE-252612-HT	AQ-181810AL-HT	EFXE-181810AL-HT
AQ-252616P-HT	EFE-252616-HT	AR-182810AL-HT	EFXE-182810AL-HT
AR-254012P-HT	EFE-254012-HT	AR-102311AL-HT	EFXE-102311AL-HT
AR-254016P-HT	EFE-254016-HT	AR-202311AL-HT	EFXE-202311AL-HT
AR-256012P-HT	EFE-256012-HT	AR-202318AL-HT	EFXE-202318AL-HT
AR-304020P-HT	EFE-304020-HT	AR-232811AL-HT	EFXE-232811AL-HT
AQ-363609P-HT	EFE-363609-HT	AR-233311AL-HT	EFXE-233311AL-HT
AR-406025P-HT	EFE-406025-HT	AR-233318AL-HT	EFXE-233318AL-HT
AQ-414012P-HT	EFE-414012-HT	AR-234011AL-HT	EFXE-234011AL-HT
AQ-414020P-HT	EFE-414020-HT	AR-234023AL-HT	EFXE-234023AL-HT
		AR-236011AL-HT	EFXE-236011AL-HT
		AR-314011AL-HT	EFXE-314011AL-HT
		AR-314014AL-HT	EFXE-314014AL-HT
		AR-314018AL-HT	EFXE-314018AL-HT
		AR-314023AL-HT	EFXE-314023AL-HT
		AR-316011AL-HT	EFXE-316011AL-HT
		AR-316018AL-HT	EFXE-316018AL-HT
		AQ-606020AL-HT	EFXE-606020AL-HT

Polyester		Aluminium		Stainless steel	
AQ-080806P	EFE-080806	AQ-080806AL	EFXE-080806AL	SB-101210	EFXE-101210SB
AQ-080808P	EFE-080808	AR-081306AL	EFXE-081306AL	SB-151510	EFXE-151510SB
AR-081106P	EFE-081106	AR-081806AL	EFXE-081806AL	SB-142013	EFXE-142013SB
AR-081606P	EFE-081606	AR-081808AL	EFXE-081808AL	SB-202010	EFXE-202010SB
AR-081906P	EFE-081906	AR-082505AL	EFXE-082505AL	SB-202016	EFXE-202016SB
AQ-121209P	EFE-121209	AR-082508AL	EFXE-082508AL	SB-202713	EFXE-202713SB
AR-122209P	EFE-122209	AQ-101008AL	EFXE-101008AL	SB-272713	EFXE-272713SB
AQ-161609P	EFE-161609	AR-101508AL	EFXE-101508AL	SB-203016	EFXE-203016SB
AR-162609P	EFE-162609	AR-101608AL	EFXE-101608AL	SB-273513	EFXE-273513SB
AR-163609P	EFE-163609	AR-102008AL	EFXE-102008AL	SB-282816	EFXE-282816SB
AQ-252612P	EFE-252612	AQ-121208AL	EFXE-121208AL	SB-204016	EFXE-204016SB
AQ-252616P	EFE-252616	AR-122209AL	EFXE-122209AL	SB-353516	EFXE-353516SB
AR-254012P	EFE-254012	AQ-141409AL	EFXE-141409AL	SB-282827	EFXE-282827SB
AR-254016P	EFE-254016	AR-142009AL	EFXE-142009AL	SB-355016	EFXE-355016SB
AR-256012P	EFE-256012	AQ-161609AL	EFXE-161609AL	SB-383816	EFXE-383816SB
AQ-414012P	EFE-414012	AR-162410AL	EFXE-162410AL	SB-384516	EFXE-384516SB
		AR-162609AL	EFXE-162609AL	SB-385716	EFXE-385716SB
		AQ-181810AL	EFXE-181810AL	SB-505016	EFXE-505016SB
		AR-182810AL	EFXE-182810AL	SB-383827	EFXE-383827SB
		AR-202311AL	EFXE-202311AL	SB-575716	EFXE-575716SB
		AR-202318AL	EFXE-202318AL	SB-577620	EFXE-577620SB
		AR-232811AL	EFXE-232811AL	SB-575730	EFXE-575730SB
		AR-233312AL	EFXE-233312AL	SB-769520	EFXE-769520SB
		AR-233318AL	EFXE-233318AL	SB-1258040	EFXE-1258040SB

Enclosure types (Stainless steel)	
ST-101210	EFXE-101210ST
ST-151510	EFXE-151510ST
ST-142013	EFXE-142013ST
ST-202010	EFXE-202010ST
ST-202016	EFXE-202016ST
ST-202713	EFXE-202713ST
ST-272713	EFXE-272713ST
ST-203016	EFXE-203016ST
ST-273513	EFXE-273513ST
ST-282816	EFXE-282816ST
ST-204016	EFXE-204016ST
ST-353516	EFXE-353516ST
ST-282827	EFXE-282827ST
ST-355016	EFXE-355016ST
ST-383816	EFXE-383816ST
ST-384516	EFXE-384516ST
ST-385716	EFXE-385716ST
ST-505016	EFXE-505016ST
ST-383827	EFXE-383827ST
ST-575716	EFXE-575716ST
ST-577620	EFXE-577620ST
ST-575730	EFXE-575730ST
ST-769520	EFXE-769520ST
ST-1258040	EFXE-1258040ST

Note 2 For stainless steel enclosures: dimensions (2) and (3) can be decreased or increased up to 20%, dimensions (4) can be increased up to 500 mm. Model name changes consequently.

Power dissipation – HT glass fiber reinforced polyester resin enclosures

Enclosure types (polyester)		Maximum power dissipation (W) – Tamb. up to **40**°C							
		INTERNAL TEMP.60°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)	INTERNAL TEMP.127°C (T4/T135°C)
AQ-080806P-HT	EFE-080806-HT	3,5	5,2	7,0	7,8	9,6	10,4	11,3	15,2
AQ-080808P-HT	EFE-080808-HT	4,6	6,8	9,1	10,2	12,5	13,7	14,8	19,8
AR-081106P-HT	EFE-081106-HT	4,3	6,4	8,5	9,6	11,8	12,8	13,9	18,6
AR-081108P-HT	EFE-081108-HT	5,6	8,4	11,2	12,6	15,3	16,7	18,1	24,2
AR-081606P-HT	EFE-081606-HT	5,8	8,7	11,6	13,0	15,9	17,4	18,8	25.2
AR-081608P-HT	EFE-081608-HT	6,8	10,2	13,7	15,4	18,8	20,5	22,2	29,7
AR-081906P-HT	EFE-081906-HT	6,4	9,6	12,8	14,4	17,6	19,2	20,8	27,8
AR-081908P-HT	EFE-081908-HT	7,5	11,3	15,1	17,0	20,7	22,6	24,5	32,7
AR-082306P-HT	EFE-082306-HT	7,2	10,8	14,4	16,2	19,8	21,6	23,4	31,3
AR-082308P-HT	EFE-082308-HT	8,5	12,7	16,9	19,0	23,3	25,4	27,5	36,7
AQ-121209P-HT	EFE-121209-HT	8,0	12,0	15,9	17,9	21,9	23,9	25,9	34,7
AR-122209P-HT	EFE-122209-HT	10,8	16,2	21,6	24,3	29,7	32,4	35,1	47,0
AQ-161609P-HT	EFE-161609-HT	10,4	15,6	20,8	23,4	28,6	31,2	33,8	45,2
AR-162609P-HT	EFE-162609-HT	13,4	20,1	26,8	30,2	36,9	40,2	43,6	58,3
AR-163609P-HT	EFE-163609-HT	16,2	24,3	32,4	36,5	44,6	48,6	52,7	70,5
AR-165609P-HT	EFE-165609-HT	21,4	32,0	42,7	48,1	58,7	64,1	69,4	92,9
AQ-202017P-HT	EFE-202017-HT	18,0	26,9	35,9	40,4	49,4	53,9	58,4	78,1
AR-203017P-HT	EFE-203017-HT	20,9	31,3	41,7	47,0	57,4	62,6	67,8	90,8
AQ-252612P-HT	EFE-252612-HT	18,8	28,2	37,6	42,4	51,8	56,5	61,2	81,9
AQ-252616P-HT	EFE-252616-HT	20,8	31,1	41,5	46,7	57,1	62,3	67,5	90,3
AR-254012P-HT	EFE-254012-HT	22,8	34,2	45,7	51,4	62,8	68,5	74,2	99,3
AR-254016P-HT	EFE-254016-HT	26,2	39,3	52,4	58,9	72,0	78,6	85,1	113,9
AR-256012P-HT	EFE-256012-HT	29,0	43,6	58,1	65,3	79,9	87,1	94,4	126,3
AR-304020P-HT	EFE-304020-HT	32,3	48,5	64,7	72,7	88,9	97,0	105,1	140,7
AQ-363609P-HT	EFE-363609-HT	23,0	34,6	46,1	51,8	63,4	69,1	74,9	100,2
AR-406025P-HT	EFE-406025-HT	50,3	75,5	100,7	113,3	138,4	151,0	163,6	218,9
AQ-414012P-HT	EFE-414012-HT	29,1	43,7	58,2	65,5	80,1	87,3	94,6	126,6
AQ-414020P-HT	EFE-414020-HT	36,6	55,0	73,3	82,4	100,8	109,9	119,1	159,4

Enclosure types (polyester)		Maximum power dissipation (W) – Tamb. up to **50**°C							
		INTERNAL TEMP.60°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)	INTERNAL TEMP.127°C (T4/T135°C)
AQ-080806P-HT	EFE-080806-HT	1,7	3,5	5,2	6,1	7,8	8,7	9,6	13,4
AQ-080808P-HT	EFE-080808-HT	2,3	4,6	6,8	8,0	10,2	11,4	12,5	17,5
AR-081106P-HT	EFE-081106-HT	2,1	4,3	6,4	7,5	9,6	10,7	11,8	16,5
AR-081108P-HT	EFE-081108-HT	2,8	5,6	8,4	9,8	12,6	13,9	15,3	21.5
AR-081606P-HT	EFE-081606-HT	2,9	5,8	8,7	10,1	13,0	14,5	15,9	22,3
AR-081608P-HT	EFE-081608-HT	3,4	6,8	10,2	11,9	15,4	17,1	18,8	26,3
AR-081906P-HT	EFE-081906-HT	3,2	6,4	9,6	11,2	14,4	16,0	17,6	24,6
AR-081908P-HT	EFE-081908-HT	3,8	7,5	11,3	13,2	17,0	18,8	20,7	29,0
AR-082306P-HT	EFE-082306-HT	3,6	7,2	10,8	12,6	16,2	18,0	19,8	27,7
AR-082308P-HT	EFE-082308-HT	4,2	8,5	12,7	14,8	19,0	21,1	23,3	32,5
AQ-121209P-HT	EFE-121209-HT	4,0	8,0	12,0	14,0	17,9	19,9	21,9	30,7
AR-122209P-HT	EFE-122209-HT	5,4	10,8	16,2	18,9	24,3	27,0	29,7	41,6
AQ-161609P-HT	EFE-161609-HT	5,2	10,4	15,6	18,2	23,4	26,0	28,6	40,0
AR-162609P-HT	EFE-162609-HT	6,7	13,4	20,1	23,5	30,2	33,5	36,9	51,6
AR-163609P-HT	EFE-163609-HT	8,1	16,2	24,3	28,4	36,5	40,5	44,6	62,3
AR-165609P-HT	EFE-165609-HT	10,7	21,4	32,0	37,4	48,1	53,4	58,7	82,2
AQ-202017P-HT	EFE-202017-HT	9,0	18,0	26,9	31,4	40,4	44,9	49,4	69,1
AR-203017P-HT	EFE-203017-HT	10,4	20,9	31,3	36,5	47,0	52,2	57,4	80,4
AQ-252612P-HT	EFE-252612-HT	9,4	18,8	28,2	32,9	42,4	47,1	51,8	72,5
AQ-252616P-HT	EFE-252616-HT	10,4	20,8	31,1	36,3	46,7	51,9	57,1	79,9
AR-254012P-HT	EFE-254012-HT	11,4	22,8	34,2	39,9	51,4	57,1	62,8	87,9
AR-254016P-HT	EFE-254016-HT	13,1	26,2	39,3	45,8	58,9	65,5	72,0	100,8
AR-256012P-HT	EFE-256012-HT	14,5	29,0	43,6	50,8	65,3	72,6	79,9	111,8
AR-304020P-HT	EFE-304020-HT	16,2	32,3	48,5	56,6	72,7	80,8	88,9	124,4
AQ-363609P-HT	EFE-363609-HT	11,5	23,0	34,6	40,3	51,8	57,6	63,4	88,7
AR-406025P-HT	EFE-406025-HT	25,2	50,3	75,5	88,1	113,3	125,8	138,4	193,8
AQ-414012P-HT	EFE-414012-HT	14,6	29,1	43,7	51,0	65,5	72,8	80,1	112,1
AQ-414020P-HT	EFE-414020-HT	18,3	36,6	55,0	64,1	82,4	91,6	100,8	141,1

Enclosure types (polyester)		Maximum power dissipation (W) – Tamb. up to **55**°C							
		INTERNAL TEMP.65°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)	INTERNAL TEMP.127°C (T4/T135°C)
AQ-080806P-HT	EFE-080806-HT	1,7	2,6	4,4	5,2	7,0	7,8	8,7	12,5
AQ-080808P-HT	EFE-080808-HT	2,3	3,4	5,7	6,8	9,1	10,2	11,4	16,2
AR-081106P-HT	EFE-081106-HT	2,1	3,2	5,3	6,4	8,5	9,6	10,7	15,2
AR-081108P-HT	EFE-081108-HT	2,8	4,2	7,0	8,4	11,2	12,6	13,9	19,8
AR-081606P-HT	EFE-081606-HT	2,9	4,3	7,2	8,7	11,6	13,0	14,5	20,6
AR-081608P-HT	EFE-081608-HT	3,4	5,1	8,5	10,2	13,7	15,4	17,1	24,3
AR-081906P-HT	EFE-081906-HT	3,2	4,8	8,0	9,6	12,8	14,4	16,0	22,8
AR-081908P-HT	EFE-081908-HT	3,8	5,7	9,4	11,3	15,1	17,0	18,8	26,8
AR-082306P-HT	EFE-082306-HT	3,6	5,4	9,0	10,8	14,4	16,2	18,0	25,6
AR-082308P-HT	EFE-082308-HT	4,2	6,3	10,6	12,7	16,9	19,0	21,1	30,0
AQ-121209P-HT	EFE-121209-HT	4,0	6,0	10,0	12,0	15,9	17,9	19,9	28,3
AR-122209P-HT	EFE-122209-HT	5,4	8,1	13,5	16,2	21,6	24,3	27,0	38,3
AQ-161609P-HT	EFE-161609-HT	5,2	7,8	13,0	15,6	20,8	23,4	26,0	36,9
AR-162609P-HT	EFE-162609-HT	6,7	10,1	16,8	20,1	26,8	30,2	33,5	47,6
AR-163609P-HT	EFE-163609-HT	8,1	12,2	20,3	24,3	32,4	36,5	40,5	57,5
AR-165609P-HT	EFE-165609-HT	10,7	16,0	26,7	32,0	42,7	48,1	53,4	75,8
AQ-202017P-HT	EFE-202017-HT	9,0	13,5	22,4	26,9	35,9	40,4	44,9	63,7
AR-203017P-HT	EFE-203017-HT	10,4	15,7	26,1	31,3	41,7	47,0	52,2	74,0
AQ-252612P-HT	EFE-252612-HT	9,4	14,1	23,5	28,2	37,6	42,4	47,1	66,8
AQ-252616P-HT	EFE-252616-HT	10,4	15,6	26,0	31,1	41,5	46,7	51,9	73,7
AR-254012P-HT	EFE-254012-HT	11,4	17,1	28,5	34,2	45,7	51,4	57,1	81,0
AR-254016P-HT	EFE-254016-HT	13,1	19,6	32,7	39,3	52,4	58,9	65,5	92,9
AR-256012P-HT	EFE-256012-HT	14,5	21,8	36,3	43,6	58,1	65,3	72,6	103,0
AR-304020P-HT	EFE-304020-HT	16,2	24,2	40,4	48,5	64,7	72,7	80,8	114,7
AQ-363609P-HT	EFE-363609-HT	11,5	17,3	28,8	34,6	46,1	51,8	57,6	81,8
AR-406025P-HT	EFE-406025-HT	25,2	37,8	62,9	75,5	100,7	113,3	125,8	178,6
AQ-414012P-HT	EFE-414012-HT	14,6	21,8	36,4	43,7	58,2	65,5	72,8	103,0
AQ-414020P-HT	EFE-414020-HT	18,3	27,5	45,8	55,0	73,3	82,4	91,6	130,0

Enclosure types (polyester)		Maximum power dissipation (W) – Tamb. up to **60**°C						
		INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)	INTERNAL TEMP.127°C (T4/T135°C)
AQ-080806P-HT	EFE-080806-HT	1,7	3,5	4,4	6,1	7,0	7,8	11,7
AQ-080808P-HT	EFE-080808-HT	2,3	4,6	5,7	8,0	9,1	10,2	15,2
AR-081106P-HT	EFE-081106-HT	2,1	4,3	5,3	7,5	8,5	9,6	14,3
AR-081108P-HT	EFE-081108-HT	2,8	5,6	7,0	9,8	11,2	12,6	18,7
AR-081606P-HT	EFE-081606-HT	2,9	5,8	7,2	10,1	11,6	13,0	19,4
AR-081608P-HT	EFE-081608-HT	3,4	6,8	8,5	11,9	13,7	15,4	22,9
AR-081906P-HT	EFE-081906-HT	3,2	6,4	8,0	11,2	12,8	14,4	21,4
AR-081908P-HT	EFE-081908-HT	3,8	7,5	9,4	13,2	15,1	17,0	25,3
AR-082306P-HT	EFE-082306-HT	3,6	7,2	9,0	12,6	14,4	16,2	24,1
AR-082308P-HT	EFE-082308-HT	4,2	8,5	10,6	14,8	16,9	19,0	28,3
AQ-121209P-HT	EFE-121209-HT	4,0	8,0	10,0	14,0	15,9	17,9	26,7
AR-122209P-HT	EFE-122209-HT	5,4	10,8	13,5	18,9	21,6	24,3	36,2
AQ-161609P-HT	EFE-161609-HT	5,2	10,4	13,0	18,2	20,8	23,4	34,8
AR-162609P-HT	EFE-162609-HT	6,7	13,4	16,8	23,5	26,8	30,2	44,9
AR-163609P-HT	EFE-163609-HT	8,1	16,2	20,3	28,4	32,4	36,5	54,2
AR-165609P-HT	EFE-165609-HT	10,7	21,4	26,7	37,4	42,7	48,1	71,5
AQ-202017P-HT	EFE-202017-HT	9,0	18,0	22,4	31,4	35,9	40,4	60,1
AR-203017P-HT	EFE-203017-HT	10,4	20,9	26,1	36,5	41,7	47,0	69,9
AQ-252612P-HT	EFE-252612-HT	9,4	18,8	23,5	32,9	37,6	42,4	63,0
AQ-252616P-HT	EFE-252616-HT	10,4	20,8	26,0	36,3	41,5	46,7	69,5
AR-254012P-HT	EFE-254012-HT	11,4	22,8	28,5	39,9	45,7	51,4	76,5
AR-254016P-HT	EFE-254016-HT	13,1	26,2	32,7	45,8	52,4	58,9	87,7
AR-256012P-HT	EFE-256012-HT	14,5	29,0	36,3	50,8	58,1	65,3	97,2
AR-304020P-HT	EFE-304020-HT	16,2	32,3	40,4	56,6	64,7	72,7	108,3
AQ-363609P-HT	EFE-363609-HT	11,5	23,0	28,8	40,3	46,1	51,8	77,1
AR-406025P-HT	EFE-406025-HT	25,2	50,3	62,9	88,1	100,7	113,3	168,7
AQ-414012P-HT	EFE-414012-HT	14,6	29,1	36,4	51,0	58,2	65,5	97,5
AQ-414020P-HT	EFE-414020-HT	18,3	36,6	45,8	64,1	73,3	82,4	122,7

Enclosure types (polyester)		Maximum power dissipation (W) Tamb. up to **95**°C		
		INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)	INTERNAL TEMP.127°C (T4/T135°C)
AQ-080806P-HT	EFE-080806-HT	0,9	1,7	5,6
AQ-080808P-HT	EFE-080808-HT	1,1	2,3	7,3
AR-081106P-HT	EFE-081106-HT	1,1	2,1	6,5
AR-081108P-HT	EFE-081108-HT	1,4	2,8	9,0
AR-081606P-HT	EFE-081606-HT	1,4	2,9	9,2
AR-081608P-HT	EFE-081608-HT	1,7	3,4	10,9
AR-081906P-HT	EFE-081906-HT	1,6	3,2	10,2
AR-081908P-HT	EFE-081908-HT	1,9	3,8	12,1
AR-082306P-HT	EFE-082306-HT	1,8	3,6	11,5
AR-082308P-HT	EFE-082308-HT	2,1	4,2	13,5
AQ-121209P-HT	EFE-121209-HT	2,0	4,0	12,8
AR-122209P-HT	EFE-122209-HT	2,7	5,4	17,3
AQ-161609P-HT	EFE-161609-HT	2,6	5,2	16,6
AR-162609P-HT	EFE-162609-HT	3,4	6,7	21,5
AR-163609P-HT	EFE-163609-HT	4,1	8,1	26,0
AR-165609P-HT	EFE-165609-HT	5,3	10,7	34,2
AQ-202017P-HT	EFE-202017-HT	4,5	9,0	28,7
AR-203017P-HT	EFE-203017-HT	5,2	10,4	33,4
AQ-252612P-HT	EFE-252612-HT	4,7	9,4	30,1
AQ-252616P-HT	EFE-252616-HT	5,2	10,4	33,2
AR-254012P-HT	EFE-254012-HT	5,7	11,4	36,5
AR-254016P-HT	EFE-254016-HT	6,5	13,1	41,9
AR-256012P-HT	EFE-256012-HT	7,3	14,5	46,4
AR-304020P-HT	EFE-304020-HT	8,1	16,2	51,8
AQ-363609P-HT	EFE-363609-HT	5,8	11,5	36,8
AR-406025P-HT	EFE-406025-HT	12,6	25,2	80,6
AQ-414012P-HT	EFE-414012-HT	7,3	14,6	46,6
AQ-414020P-HT	EFE-414020-HT	9,2	18,3	58,6

Power dissipation – HT aluminium alloy enclosures

Enclosure types (aluminium)		Maximum power dissipation (W) – Tamb. up to **40**°C							
		INTERNAL TEMP.60°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)	INTERNAL TEMP.130°C (T4/T135°C)
AQ-080806AL-HT	EFXE-080806AL-HT	5,2	7,8	10,4	11,7	14,3	15,6	16,9	23,4
AR-081306AL-HT	EFXE-081306AL-HT	7,0	10,6	14,1	15,9	19,4	21,2	23,0	31,8
AR-081806AL-HT	EFXE-081806AL-HT	8,9	13,3	17,8	20,0	24,5	26,7	28,9	40,0
AR-082505AL-HT	EFXE-082505AL-HT	10,9	16,4	21,9	24,7	30,1	32,9	35,6	49,4
AQ-101008AL-HT	EFXE-101008AL-HT	8,7	13,0	17,4	19,6	23,9	26,1	28,3	39,2
AR-101608AL-HT	EFXE-101608AL-HT	11,5	17,3	23,1	26,0	31,8	34,7	37,6	52,0
AR-102008AL-HT	EFXE-102008AL-HT	13,4	20,1	26,8	30,2	36,9	40,3	43,6	60,4
AQ-121208AL-HT	EFXE-121208AL-HT	10,8	16,2	21,6	24,3	29,7	32,4	35,1	48,6
AQ-121209AL-HT	EFXE-121209AL-HT	11,6	17,5	23,3	26,2	32,1	35,0	37,9	52,5
AR-122208AL-HT	EFXE-122208AL-HT	15,6	23,5	31,3	35,3	43,1	47,0	50,9	70,6
AR-122209AL-HT	EFXE-122209AL-HT	16,8	25,3	33,7	37,9	46,3	50,6	54,8	75,9
AR-123608AL-HT	EFXE-123608AL-HT	22,3	33,5	44,7	50,3	61,5	67,1	72,7	100,7
AQ-141409AL-HT	EFXE-141409AL-HT	13,7	20,6	27,5	31,0	37,9	41,3	44,8	62,0
AR-142009AL-HT	EFXE-142009AL-HT	17,1	25,7	34,2	38,5	47,1	51,4	55,7	77,1
AQ-161609AL-HT	EFXE-161609AL-HT	16,1	24,1	32,2	36,2	44,2	48,3	52,3	72,4
AR-162609AL-HT	EFXE-162609AL-HT	21,9	32,8	43,8	49,3	60,2	65,7	71,2	98,6
AR-163609AL-HT	EFXE-163609AL-HT	27,5	41,3	55,1	62,0	75,7	82,6	89,5	124,0
AR-165609AL-HT	EFXE-165609AL-HT	38,4	57,7	76,9	86,6	105,8	115,4	125,0	173,2
AQ-181810AL-HT	EFXE-181810AL-HT	19,7	29,6	39,5	44,4	54,3	59,2	64,2	88,8
AR-182810AL-HT	EFXE-182810AL-HT	26,1	39,1	52,2	58,7	71,8	78,3	84,8	117,5
AR-102311AL-HT	EFXE-102311AL-HT	18,2	27,3	36,5	41,0	50,1	54,7	59,3	82,1
AR-202311AL-HT	EFXE-202311AL-HT	26,1	39,1	52,2	58,7	71,7	78,3	84,8	117,4
AR-202318AL-HT	EFXE-202318AL-HT	35,9	53,9	71,8	80,8	98,8	107,8	116,8	161,7
AR-232811AL-HT	EFXE-232811AL-HT	31,6	47,5	63,3	71,3	87,1	95,0	103,0	142,6
AR-233311AL-HT	EFXE-233311AL-HT	35,3	52,9	70,6	79,4	97,0	105,9	114,7	158,8
AR-233318AL-HT	EFXE-233318AL-HT	47,5	71,3	95,1	107,0	130,8	142,7	154,6	214,1
AR-234011AL-HT	EFXE-234011AL-HT	40,2	60,4	80,5	90,6	110,7	120,8	130,9	181,2
AR-234023AL-HT	EFXE-234023AL-HT	62,2	93,3	124,5	140,0	171,2	186,7	202,3	280,1
AR-236011AL-HT	EFXE-236011AL-HT	54,1	81,2	108,3	121,9	148,9	162,5	176,0	243,8
AR-314011AL-HT	EFXE-314011AL-HT	48,6	72,9	97,2	109,3	133,6	145,8	157,9	218,7
AR-314014AL-HT	EFXE-314014AL-HT	54,9	82,4	109,9	123,7	151,2	164,9	178,7	247,4
AR-314018AL-HT	EFXE-314018AL-HT	63,8	95,7	127,6	143,5	175,4	191,4	207,3	287,1
AR-314023AL-HT	EFXE-314023AL-HT	73,5	110,3	147,1	165,5	202,3	220,7	239,1	331,0
AR-316011AL-HT	EFXE-316011AL-HT	64,0	96,0	128,1	144,1	176,1	192,1	208,1	288,2
AR-316018AL-HT	EFXE-316018AL-HT	82,7	124,1	165,5	186,2	227,6	248,3	268,9	372,4
AQ-606020AL-HT	EFXE-606020AL-HT	129,1	193,7	258,3	290,5	355,1	387,4	419,7	581,1

Enclosure types (aluminium)		Maximum power dissipation (W) – Tamb. up to **50**°C							
		INTERNAL TEMP.60°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)	INTERNAL TEMP.130°C (T4/T135°C)
AQ-080806AL-HT	EFXE-080806AL-HT	2,6	5,2	7,8	9,1	11,7	13,0	14,3	20,8
AR-081306AL-HT	EFXE-081306AL-HT	3,5	7,0	10,6	12,3	15,9	17,7	19,4	28,3
AR-081806AL-HT	EFXE-081806AL-HT	4,4	8,9	13,3	15,5	20,0	22,2	24,5	35,6
AR-082505AL-HT	EFXE-082505AL-HT	5,4	10,9	16,4	19,2	24,7	27,4	30,1	43,9
AQ-101008AL-HT	EFXE-101008AL-HT	4,3	8,7	13,0	15,2	19,6	21,7	23,9	34,8
AR-101608AL-HT	EFXE-101608AL-HT	5,7	11,5	17,3	20,2	26,0	28,9	31,8	46,2
AR-102008AL-HT	EFXE-102008AL-HT	6,7	13,4	20,1	23,5	30,2	33,5	36,9	53,7
AQ-121208AL-HT	EFXE-121208AL-HT	5,4	10,8	16,2	18,9	24,3	27,0	29,7	43,2
AQ-121209AL-HT	EFXE-121209AL-HT	5,8	11,6	17,5	20,4	26,2	29,2	32,1	46,7
AR-122208AL-HT	EFXE-122208AL-HT	7,8	15,6	23,5	27,4	35,3	39,2	43,1	62,7
AR-122209AL-HT	EFXE-122209AL-HT	8,4	16,8	25,3	29,5	37,9	42,1	46,3	67,4
AR-123608AL-HT	EFXE-123608AL-HT	11,1	22,3	33,5	39,1	50,3	55,9	61,5	89,5
AQ-141409AL-HT	EFXE-141409AL-HT	6,8	13,7	20,6	24,1	31,0	34,4	37,9	55,1
AR-142009AL-HT	EFXE-142009AL-HT	8,5	17,1	25,7	30,0	38,5	42,8	47,1	68,5
AQ-161609AL-HT	EFXE-161609AL-HT	8,0	16,1	24,1	28,1	36,2	40,2	44,2	64,4
AR-162609AL-HT	EFXE-162609AL-HT	10,9	21,9	32,8	38,3	49,3	54,8	60,2	87,6
AR-163609AL-HT	EFXE-163609AL-HT	13,7	27,5	41,3	48,2	62,0	68,9	75,7	110,2
AR-165609AL-HT	EFXE-165609AL-HT	19,2	38,4	57,7	67,3	86,6	96,2	105,8	153,9
AQ-181810AL-HT	EFXE-181810AL-HT	9,8	19,7	29,6	34,5	44,4	49,3	54,3	79,0
AR-182810AL-HT	EFXE-182810AL-HT	13,0	26,1	39,1	45,7	58,7	65,2	71,8	104,4
AR-102311AL-HT	EFXE-102311AL-HT	9,1	18,2	27,3	31,9	41,0	45,6	50,1	73,0
AR-202311AL-HT	EFXE-202311AL-HT	13,0	26,1	39,1	45,6	58,7	65,2	71,7	104,4
AR-202318AL-HT	EFXE-202318AL-HT	17,9	35,9	53,9	62,8	80,8	89,8	98,8	143,7
AR-232811AL-HT	EFXE-232811AL-HT	15,8	31,6	47,5	55,4	71,3	79,2	87,1	126,7
AR-233311AL-HT	EFXE-233311AL-HT	17,6	35,3	52,9	61,7	79,4	88,2	97,0	141,2
AR-233318AL-HT	EFXE-233318AL-HT	23,7	47,5	71,3	83,2	107,0	118,9	130,8	190,3
AR-234011AL-HT	EFXE-234011AL-HT	20,1	40,2	60,4	70,5	90,6	100,7	110,7	161,1
AR-234023AL-HT	EFXE-234023AL-HT	31,1	62,2	93,3	108,9	140,0	155,6	171,2	249,0
AR-236011AL-HT	EFXE-236011AL-HT	27,0	54,1	81,2	94,8	121,9	135,4	148,9	216,7
AR-314011AL-HT	EFXE-314011AL-HT	24,3	48,6	72,9	85,0	109,3	121,5	133,6	194,4
AR-314014AL-HT	EFXE-314014AL-HT	27,4	54,9	82,4	96,2	123,7	137,4	151,2	219,9
AR-314018AL-HT	EFXE-314018AL-HT	31,9	63,8	95,7	111,6	143,5	159,5	175,4	255,2
AR-314023AL-HT	EFXE-314023AL-HT	36,7	73,5	110,3	128,7	165,5	183,9	202,3	294,2
AR-316011AL-HT	EFXE-316011AL-HT	32,0	64,0	96,0	112,0	144,1	160,1	176,1	256,2
AR-316018AL-HT	EFXE-316018AL-HT	41,3	82,7	124,1	144,8	186,2	206,9	227,6	331,0
AQ-606020AL-HT	EFXE-606020AL-HT	64,5	129,1	193,7	226,0	290,5	322,8	355,1	516,6

Enclosure types (aluminium)		Maximum power dissipation (W) – Tamb. up to **55**°C							
		INTERNAL TEMP.65°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)	INTERNAL TEMP.130°C (T4/T135°C)
AQ-080806AL-HT	EFXE-080806AL-HT	2,6	3,9	6,5	7,8	10,4	11,7	13,0	19,5
AR-081306AL-HT	EFXE-081306AL-HT	3,5	5,3	8,8	10,6	14,1	15,9	17,7	26,5
AR-081806AL-HT	EFXE-081806AL-HT	4,4	6,6	11,1	13,3	17,8	20,0	22,2	33,4
AR-082505AL-HT	EFXE-082505AL-HT	5,4	8,2	13,7	16,4	21,9	24,7	27,4	41,1
AQ-101008AL-HT	EFXE-101008AL-HT	4,3	6,5	10,8	13,0	17,4	19,6	21,7	32,6
AR-101608AL-HT	EFXE-101608AL-HT	5,7	8,6	14,4	17,3	23,1	26,0	28,9	43,3
AR-102008AL-HT	EFXE-102008AL-HT	6,7	10,0	16,7	20,1	26,8	30,2	33,5	50,3
AQ-121208AL-HT	EFXE-121208AL-HT	5,4	8,1	13,5	16,2	21,6	24,3	27,0	40,5
AQ-121209AL-HT	EFXE-121209AL-HT	5,8	8,7	14,6	17,5	23,3	26,2	29,2	43,8
AR-122208AL-HT	EFXE-122208AL-HT	7,8	11,7	19,6	23,5	31,3	35,3	39,2	58,8
AR-122209AL-HT	EFXE-122209AL-HT	8,4	12,6	21,0	25,3	33,7	37,9	42,1	63,2
AR-123608AL-HT	EFXE-123608AL-HT	11,1	16,7	27,9	33,5	44,7	50,3	55,9	83,9
AQ-141409AL-HT	EFXE-141409AL-HT	6,8	10,3	17,2	20,6	27,5	31,0	34,4	51,7
AR-142009AL-HT	EFXE-142009AL-HT	8,5	12,8	21,4	25,7	34,2	38,5	42,8	64,3
AQ-161609AL-HT	EFXE-161609AL-HT	8,0	12,0	20,1	24,1	32,2	36,2	40,2	60,4
AR-162609AL-HT	EFXE-162609AL-HT	10,9	16,4	27,4	32,8	43,8	49,3	54,8	82,2
AR-163609AL-HT	EFXE-163609AL-HT	13,7	20,6	34,4	41,3	55,1	62,0	68,9	103,3
AR-165609AL-HT	EFXE-165609AL-HT	19,2	28,8	48,1	57,7	76,9	86,6	96,2	144,3
AQ-181810AL-HT	EFXE-181810AL-HT	9,8	14,8	24,6	29,6	39,5	44,4	49,3	74,0
AR-182810AL-HT	EFXE-182810AL-HT	13,0	19,5	32,6	39,1	52,2	58,7	65,2	97,9
AR-102311AL-HT	EFXE-102311AL-HT	9,1	13,6	22,8	27,3	36,5	41,0	45,6	68,4
AR-202311AL-HT	EFXE-202311AL-HT	13,0	19,5	32,6	39,1	52,2	58,7	65,2	97,9
AR-202318AL-HT	EFXE-202318AL-HT	17,9	26,9	44,9	53,9	71,8	80,8	89,8	134,7
AR-232811AL-HT	EFXE-232811AL-HT	15,8	23,7	39,6	47,5	63,3	71,3	79,2	118,8
AR-233311AL-HT	EFXE-233311AL-HT	17,6	26,4	44,1	52,9	70,6	79,4	88,2	132,3
AR-233318AL-HT	EFXE-233318AL-HT	23,7	35,6	59,4	71,3	95,1	107,0	118,9	178,4
AR-234011AL-HT	EFXE-234011AL-HT	20,1	30,2	50,3	60,4	80,5	90,6	100,7	151,0
AR-234023AL-HT	EFXE-234023AL-HT	31,1	46,6	77,8	93,3	124,5	140,0	155,6	233,4
AR-236011AL-HT	EFXE-236011AL-HT	27,0	40,6	67,7	81,2	108,3	121,9	135,4	203,1
AR-314011AL-HT	EFXE-314011AL-HT	24,3	36,4	60,7	72,9	97,2	109,3	121,5	182,3
AR-314014AL-HT	EFXE-314014AL-HT	27,4	41,2	68,7	82,4	109,9	123,7	137,4	206,2
AR-314018AL-HT	EFXE-314018AL-HT	31,9	47,8	79,7	95,7	127,6	143,5	159,5	239,2
AR-314023AL-HT	EFXE-314023AL-HT	36,7	55,1	91,9	110,3	147,1	165,5	183,9	275,8
AR-316011AL-HT	EFXE-316011AL-HT	32,0	48,0	80,0	96,0	128,1	144,1	160,1	240,1
AR-316018AL-HT	EFXE-316018AL-HT	41,3	62,0	103,4	124,1	165,5	186,2	206,9	310,3
AQ-606020AL-HT	EFXE-606020AL-HT	64,5	96,8	161,4	193,7	258,3	290,5	322,8	484,3

Enclosure types (aluminium)		Maximum power dissipation (W) – Tamb. up to **60**°C						
		INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)	INTERNAL TEMP.130°C (T4/T135°C)
AQ-080806AL-HT	EFXE-080806AL-HT	2,6	5,2	6,5	9,1	10,4	11,7	18,2
AR-081306AL-HT	EFXE-081306AL-HT	3,5	7,0	8,8	12,3	14,1	15,9	24,7
AR-081806AL-HT	EFXE-081806AL-HT	4,4	8,9	11,1	15,5	17,8	20,0	31,1
AR-082505AL-HT	EFXE-082505AL-HT	5,4	10,9	13,7	19,2	21,9	24,7	38,4
AQ-101008AL-HT	EFXE-101008AL-HT	4,3	8,7	10,8	15,2	17,4	19,6	30,4
AR-101608AL-HT	EFXE-101608AL-HT	5,7	11,5	14,4	20,2	23,1	26,0	40,5
AR-102008AL-HT	EFXE-102008AL-HT	6,7	13,4	16,7	23,5	26,8	30,2	47,0
AQ-121208AL-HT	EFXE-121208AL-HT	5,4	10,8	13,5	18,9	21,6	24,3	37,8
AQ-121209AL-HT	EFXE-121209AL-HT	5,8	11,6	14,6	20,4	23,3	26,2	40,8
AR-122208AL-HT	EFXE-122208AL-HT	7,8	15,6	19,6	27,4	31,3	35,3	54,9
AR-122209AL-HT	EFXE-122209AL-HT	8,4	16,8	21,0	29,5	33,7	37,9	59,0
AR-123608AL-HT	EFXE-123608AL-HT	11,1	22,3	27,9	39,1	44,7	50,3	78,3
AQ-141409AL-HT	EFXE-141409AL-HT	6,8	13,7	17,2	24,1	27,5	31,0	48,2
AR-142009AL-HT	EFXE-142009AL-HT	8,5	17,1	21,4	30,0	34,2	38,5	60,0
AQ-161609AL-HT	EFXE-161609AL-HT	8,0	16,1	20,1	28,1	32,2	36,2	56,3
AR-162609AL-HT	EFXE-162609AL-HT	10,9	21,9	27,4	38,3	43,8	49,3	76,7
AR-163609AL-HT	EFXE-163609AL-HT	13,7	27,5	34,4	48,2	55,1	62,0	96,4
AR-165609AL-HT	EFXE-165609AL-HT	19,2	38,4	48,1	67,3	76,9	86,6	134,7
AQ-181810AL-HT	EFXE-181810AL-HT	9,8	19,7	24,6	34,5	39,5	44,4	69,1
AR-182810AL-HT	EFXE-182810AL-HT	13,0	26,1	32,6	45,7	52,2	58,7	91,4
AR-102311AL-HT	EFXE-102311AL-HT	9,1	18,2	22,8	31,9	36,5	41,0	63,8
AR-202311AL-HT	EFXE-202311AL-HT	13,0	26,1	32,6	45,6	52,2	58,7	91,3
AR-202318AL-HT	EFXE-202318AL-HT	17,9	35,9	44,9	62,8	71,8	80,8	125,7
AR-232811AL-HT	EFXE-232811AL-HT	15,8	31,6	39,6	55,4	63,3	71,3	110,9
AR-233311AL-HT	EFXE-233311AL-HT	17,6	35,3	44,1	61,7	70,6	79,4	123,5
AR-233318AL-HT	EFXE-233318AL-HT	23,7	47,5	59,4	83,2	95,1	107,0	166,5
AR-234011AL-HT	EFXE-234011AL-HT	20,1	40,2	50,3	70,5	80,5	90,6	141,0
AR-234023AL-HT	EFXE-234023AL-HT	31,1	62,2	77,8	108,9	124,5	140,0	217,9
AR-236011AL-HT	EFXE-236011AL-HT	27,0	54,1	67,7	94,8	108,3	121,9	189,6
AR-314011AL-HT	EFXE-314011AL-HT	24,3	48,6	60,7	85,0	97,2	109,3	170,1
AR-314014AL-HT	EFXE-314014AL-HT	27,4	54,9	68,7	96,2	109,9	123,7	192,4
AR-314018AL-HT	EFXE-314018AL-HT	31,9	63,8	79,7	111,6	127,6	143,5	223,3
AR-314023AL-HT	EFXE-314023AL-HT	36,7	73,5	91,9	128,7	147,1	165,5	257,4
AR-316011AL-HT	EFXE-316011AL-HT	32,0	64,0	80,0	112,0	128,1	144,1	224,1
AR-316018AL-HT	EFXE-316018AL-HT	41,3	82,7	103,4	144,8	165,5	186,2	289,6
AQ-606020AL-HT	EFXE-606020AL-HT	64,5	129,1	161,4	226,0	258,3	290,5	452,0

Enclosure types (aluminium)		Maximum power dissipation (W) Tamb. up to **95**°C		
		INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)	INTERNAL TEMP.130°C (T4/T135°C)
AQ-080806AL-HT	EFXE-080806AL-HT	1,3	2,6	9,1
AR-081306AL-HT	EFXE-081306AL-HT	1,7	3,5	12,3
AR-081806AL-HT	EFXE-081806AL-HT	2,2	4,4	15,5
AR-082505AL-HT	EFXE-082505AL-HT	2,7	5,4	19,2
AQ-101008AL-HT	EFXE-101008AL-HT	2,1	4,3	15,2
AR-101608AL-HT	EFXE-101608AL-HT	2,8	5,7	20,2
AR-102008AL-HT	EFXE-102008AL-HT	3,3	6,7	23,5
AQ-121208AL-HT	EFXE-121208AL-HT	2,7	5,4	18,9
AQ-121209AL-HT	EFXE-121209AL-HT	2,9	5,8	20,4
AR-122208AL-HT	EFXE-122208AL-HT	3,9	7,8	27,4
AR-122209AL-HT	EFXE-122209AL-HT	4,2	8,4	29,5
AR-123608AL-HT	EFXE-123608AL-HT	5,5	11,1	39,1
AQ-141409AL-HT	EFXE-141409AL-HT	3,4	6,8	24,1
AR-142009AL-HT	EFXE-142009AL-HT	4,2	8,5	30,0
AQ-161609AL-HT	EFXE-161609AL-HT	4,0	8,0	28,1
AR-162609AL-HT	EFXE-162609AL-HT	5,4	10,9	38,3
AR-163609AL-HT	EFXE-163609AL-HT	6,8	13,7	48,2
AR-165609AL-HT	EFXE-165609AL-HT	9,6	19,2	67,3
AQ-181810AL-HT	EFXE-181810AL-HT	4,9	9,8	34,5
AR-182810AL-HT	EFXE-182810AL-HT	6,5	13,0	45,7
AR-102311AL-HT	EFXE-102311AL-HT	4,5	9,1	31,9
AR-202311AL-HT	EFXE-202311AL-HT	6,5	13,0	45,6
AR-202318AL-HT	EFXE-202318AL-HT	8,9	17,9	62,8
AR-232811AL-HT	EFXE-232811AL-HT	7,9	15,8	55,4
AR-233311AL-HT	EFXE-233311AL-HT	8,8	17,6	61,7
AR-233318AL-HT	EFXE-233318AL-HT	11,8	23,7	83,2
AR-234011AL-HT	EFXE-234011AL-HT	10,0	20,1	70,5
AR-234023AL-HT	EFXE-234023AL-HT	15,5	31,1	108,9
AR-236011AL-HT	EFXE-236011AL-HT	13,5	27,0	94,8
AR-314011AL-HT	EFXE-314011AL-HT	12,1	24,3	85,0
AR-314014AL-HT	EFXE-314014AL-HT	13,7	27,4	96,2
AR-314018AL-HT	EFXE-314018AL-HT	15,9	31,9	111,6
AR-314023AL-HT	EFXE-314023AL-HT	18,3	36,7	128,7
AR-316011AL-HT	EFXE-316011AL-HT	16,0	32,0	112,0
AR-316018AL-HT	EFXE-316018AL-HT	20,6	41,3	144,8
AQ-606020AL-HT	EFXE-606020AL-HT	32,2	64,5	226,0

Power dissipation – Glass fiber reinforced polyester resin enclosures

Enclosure types (polyester)		Maximum power dissipation (W) – Tamb. up to **40**°C						
		INTERNAL TEMP.60°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
AQ-080806P	EFE-080806	3,4	5,2	6,9	7,8	9,5	10,4	11,3
AQ-080808P	EFE-080808	4,5	6,8	9,1	10,2	12,5	13,6	14,7
AR-081106P	EFE-081106	4,2	6,4	8,5	9,6	11,7	12,8	13,8
AR-081606P	EFE-081606	5,7	8,6	11,5	13,0	15,9	17,3	18,8
AR-081906P	EFE-081906	6,4	9,6	12,8	14,4	17,6	19,2	20,8
AQ-121209P	EFE-121209	7,9	11,9	15,9	17,9	21,9	23,9	25,9
AR-122209P	EFE-122209	10,8	16,2	21,6	24,3	29,7	32,4	35,1
AQ-161609P	EFE-161609	10,3	15,5	20,7	23,3	28,5	31,1	33,7
AR-162609P	EFE-162609	13,4	20,1	26,8	30,1	36,8	40,2	43,5
AR-163609P	EFE-163609	16,2	24,3	32,4	36,4	44,5	48,6	52,6
AQ-252612P	EFE-252612	18,8	28,2	37,6	42,3	51,7	56,4	61,1
AQ-252616P	EFE-252616	21,7	32,6	43,5	49,0	59,9	65,3	70,8
AR-254012P	EFE-254012	23,9	35,9	47,9	53,9	65,9	71,8	77,8
AR-254016P	EFE-254016	27,4	41,2	54,9	61,8	75,6	82,4	89,3
AR-256012P	EFE-256012	29,0	43,5	58,0	65,3	79,8	87,1	94,3
AQ-414012P	EFE-414012	29,1	43,6	58,2	65,5	80,0	87,3	94,6
AQ-414016P	EFE-414016	32,9	49,4	65,9	74,1	90,6	98,8	107,0

Enclosure types (polyester)		Maximum power dissipation (W) – Tamb. up to **50**°C						
		INTERNAL TEMP.60°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
AQ-080806P	EFE-080806	1,7	3,4	5,2	6,0	7,8	8,7	9,5
AQ-080808P	EFE-080808	2,2	4,5	6,8	7,9	10,2	11,3	12,5
AR-081106P	EFE-081106	2,1	4,2	6,4	7,4	9,6	10,6	11,7
AR-081606P	EFE-081606	2,8	5,7	8,6	10,1	13,0	14,4	15,9
AR-081906P	EFE-081906	3,2	6,4	9,6	11,2	14,4	16,0	17,6
AQ-121209P	EFE-121209	3,9	7,9	11,9	13,9	17,9	19,9	21,9
AR-122209P	EFE-122209	5,4	10,8	16,2	18,9	24,3	27,0	29,7
AQ-161609P	EFE-161609	5,1	10,3	15,5	18,1	23,3	25,9	28,5
AR-162609P	EFE-162609	6,7	13,4	20,1	23,4	30,1	33,5	36,8
AR-163609P	EFE-163609	8,1	16,2	24,3	28,3	36,4	40,5	44,5
AQ-252612P	EFE-252612	9,4	18,8	28,2	32,9	42,3	47,0	51,7
AQ-252616P	EFE-252616	10,8	21,7	32,6	38,1	49,0	54,4	59,9
AR-254012P	EFE-254012	11,9	23,9	35,9	41,9	53,9	59,9	65,9
AR-254016P	EFE-254016	13,7	27,4	41,2	48,1	61,8	68,7	75,6
AR-256012P	EFE-256012	14,5	29,0	43,5	50,8	65,3	72,6	79,8
AQ-414012P	EFE-414012	14,5	29,1	43,6	50,9	65,5	72,7	80,0
AQ-414016P	EFE-414016	16,4	32,9	49,4	57,6	74,1	82,3	90,6

Enclosure types (polyester)		Maximum power dissipation (W) – Tamb. up to **55**°C						
		INTERNAL TEMP.65°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
AQ-080806P	EFE-080806	1,7	2,6	4,3	5,2	6,9	7,8	8,7
AQ-080808P	EFE-080808	2,2	3,4	5,6	6,8	9,1	10,2	11,3
AR-081106P	EFE-081106	2,1	3,2	5,3	6,4	8,5	9,6	10,6
AR-081606P	EFE-081606	2,8	4,3	7,2	8,6	11,5	13,0	14,4
AR-081906P	EFE-081906	3,2	4,8	8,0	9,6	12,8	14,4	16,0
AQ-121209P	EFE-121209	3,9	5,9	9,9	11,9	15,9	17,9	19,9
AR-122209P	EFE-122209	5,4	8,1	13,5	16,2	21,6	24,3	27,0
AQ-161609P	EFE-161609	5,1	7,7	12,9	15,5	20,7	23,3	25,9
AR-162609P	EFE-162609	6,7	10,0	16,7	20,1	26,8	30,1	33,5
AR-163609P	EFE-163609	8,1	12,1	20,2	24,3	32,4	36,4	40,5
AQ-252612P	EFE-252612	9,4	14,1	23,5	28,2	37,6	42,3	47,0
AQ-252616P	EFE-252616	10,8	16,3	27,2	32,6	43,5	49,0	54,4
AR-254012P	EFE-254012	11,9	17,9	29,9	35,9	47,9	53,9	59,9
AR-254016P	EFE-254016	13,7	20,6	34,3	41,2	54,9	61,8	68,7
AR-256012P	EFE-256012	14,5	21,7	36,3	43,5	58,0	65,3	72,6
AQ-414012P	EFE-414012	14,5	21,8	36,3	43,6	58,2	65,5	72,7
AQ-414016P	EFE-414016	16,4	24,7	41,1	49,4	65,9	74,1	82,3

Enclosure types (polyester)		Maximum power dissipation (W) – Tamb. up to **60**°C					
		INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
AQ-080806P	EFE-080806	1,7	3,4	4,3	6,0	6,9	7,8
AQ-080808P	EFE-080808	2,2	4,5	5,6	7,9	9,1	10,2
AR-081106P	EFE-081106	2,1	4,2	5,3	7,4	8,5	9,6
AR-081606P	EFE-081606	2,8	5,7	7,2	10,1	11,5	13,0
AR-081906P	EFE-081906	3,2	6,4	8,0	11,2	12,8	14,4
AQ-121209P	EFE-121209	3,9	7,9	9,9	13,9	15,9	17,9
AR-122209P	EFE-122209	5,4	10,8	13,5	18,9	21,6	24,3
AQ-161609P	EFE-161609	5,1	10,3	12,9	18,1	20,7	23,3
AR-162609P	EFE-162609	6,7	13,4	16,7	23,4	26,8	30,1
AR-163609P	EFE-163609	8,1	16,2	20,2	28,3	32,4	36,4
AQ-252612P	EFE-252612	9,4	18,8	23,5	32,9	37,6	42,3
AQ-252616P	EFE-252616	10,8	21,7	27,2	38,1	43,5	49,0
AR-254012P	EFE-254012	11,9	23,9	29,9	41,9	47,9	53,9
AR-254016P	EFE-254016	13,7	27,4	34,3	48,1	54,9	61,8
AR-256012P	EFE-256012	14,5	29,0	36,3	50,8	58,0	65,3
AQ-414012P	EFE-414012	14,5	29,1	36,3	50,9	58,2	65,5
AQ-414016P	EFE-414016	16,4	32,9	41,1	57,6	65,9	74,1

Enclosure types (polyester)		Maximum power dissipation (W) – Tamb. up to **95**°C	
		INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
AQ-080806P	EFE-080806	0,8	1,7
AQ-080808P	EFE-080808	1,1	2,2
AR-081106P	EFE-081106	1,0	2,1
AR-081606P	EFE-081606	1,4	2,8
AR-081906P	EFE-081906	1,6	3,2
AQ-121209P	EFE-121209	1,9	3,9
AR-122209P	EFE-122209	2,7	5,4
AQ-161609P	EFE-161609	2,5	5,1
AR-162609P	EFE-162609	3,3	6,7
AR-163609P	EFE-163609	4,0	8,1
AQ-252612P	EFE-252612	4,7	9,4
AQ-252616P	EFE-252616	5,4	10,8
AR-254012P	EFE-254012	5,9	11,9
AR-254016P	EFE-254016	6,8	13,7
AR-256012P	EFE-256012	7,2	14,5
AQ-414012P	EFE-414012	7,2	14,5
AQ-414016P	EFE-414016	8,2	16,4

Power dissipation – Aluminium alloy enclosures

Enclosure types (aluminium)		Maximum power dissipation (W) – Tamb. up to **40**°C						
		INTERNAL TEMP.60°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
AQ-080806AL	EFXE-080806AL	5,2	7,8	10,4	11,7	14,3	15,6	16,9
AR-081306AL	EFXE-081306AL	7,0	10,6	14,1	15,9	19,4	21,2	23,0
AR-081806AL	EFXE-081806AL	8,9	13,3	17,8	20,0	24,5	26,7	28,9
AR-081808AL	EFXE-081808AL	11,0	16,5	22,1	24,8	30,4	33,1	35,9
AR-082505AL	EFXE-082505AL	10,7	16,1	21,4	24,1	29,5	32,2	34,8
AR-082508AL	EFXE-082508AL	14,2	21,4	28,5	32,1	39,2	42,8	46,4
AQ-101008AL	EFXE-101008AL	8,7	13,0	17,4	19,6	23,9	26,1	28,3
AR-101508AL	EFXE-101508AL	11,1	16,6	22,2	24,9	30,5	33,3	36,0
AR-101608AL	EFXE-101608AL	11,5	17,3	23,1	26,0	31,8	34,7	37,6
AR-102008AL	EFXE-102008AL	13,4	20,1	26,8	30,2	36,9	40,3	43,6
AQ-121208AL	EFXE-121208AL	10,8	16,2	21,6	24,3	29,7	32,4	35,1
AR-122209AL	EFXE-122209AL	16,8	25,3	33,7	37,9	46,3	50,6	54,8
AQ-141409AL	EFXE-141409AL	13,7	20,6	27,5	31,0	37,9	41,3	44,8
AR-142009AL	EFXE-142009AL	17,1	25,7	34,2	38,5	47,1	51,4	55,7
AQ-161609AL	EFXE-161609AL	17,2	25,8	34,4	38,7	47,3	51,6	55,9
AR-162410AL	EFXE-162410AL	22,1	33,1	44,2	49,7	60,8	66,3	71,8
AR-162609AL	EFXE-162609AL	21,9	32,8	43,8	49,3	60,2	65,7	71,2
AQ-181810AL	EFXE-181810AL	19,7	29,6	39,5	44,4	54,3	59,2	64,2
AR-182810AL	EFXE-182810AL	26,1	39,1	52,2	58,7	71,8	78,3	84,8
AR-202311AL	EFXE-202311AL	25,8	38,7	51,6	58,0	71,0	77,4	83,9
AR-202318AL	EFXE-202318AL	35,5	53,3	71,1	80,0	97,8	106,7	115,6
AR-232811AL	EFXE-232811AL	31,6	47,5	63,3	71,3	87,1	95,0	103,0
AR-233312AL	EFXE-233312AL	37,0	55,6	74,1	83,4	101,9	111,2	120,5
AR-233318AL	EFXE-233318AL	47,5	71,3	95,1	107,0	130,8	142,7	154,6

Enclosure types (aluminium)		Maximum power dissipation (W) – Tamb. up to **50**°C						
		INTERNAL TEMP.60°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
AQ-080806AL	EFXE-080806AL	2,6	5,2	7,8	9,1	11,7	13,0	14,3
AR-081306AL	EFXE-081306AL	3,5	7,0	10,6	12,3	15,9	17,7	19,4
AR-081806AL	EFXE-081806AL	4,4	8,9	13,3	15,5	20,0	22,2	24,5
AR-081808AL	EFXE-081808AL	5,5	11,0	16,5	19,3	24,8	27,6	30,4
AR-082505AL	EFXE-082505AL	5,3	10,7	16,1	18,7	24,1	26,8	29,5
AR-082508AL	EFXE-082508AL	7,1	14,2	21,4	24,9	32,1	35,7	39,2
AQ-101008AL	EFXE-101008AL	4,3	8,7	13,0	15,2	19,6	21,7	23,9
AR-101508AL	EFXE-101508AL	5,5	11,1	16,6	19,4	24,9	27,7	30,5
AR-101608AL	EFXE-101608AL	5,7	11,5	17,3	20,2	26,0	28,9	31,8
AR-102008AL	EFXE-102008AL	6,7	13,4	20,1	23,5	30,2	33,5	36,9
AQ-121208AL	EFXE-121208AL	5,4	10,8	16,2	18,9	24,3	27,0	29,7
AR-122209AL	EFXE-122209AL	8,4	16,8	25,3	29,5	37,9	42,1	46,3
AQ-141409AL	EFXE-141409AL	6,8	13,7	20,6	24,1	31,0	34,4	37,9
AR-142009AL	EFXE-142009AL	8,5	17,1	25,7	30,0	38,5	42,8	47,1
AQ-161609AL	EFXE-161609AL	8,6	17,2	25,8	30,1	38,7	43,0	47,3
AR-162410AL	EFXE-162410AL	11,0	22,1	33,1	38,7	49,7	55,3	60,8
AR-162609AL	EFXE-162609AL	10,9	21,9	32,8	38,3	49,3	54,8	60,2
AQ-181810AL	EFXE-181810AL	9,8	19,7	29,6	34,5	44,4	49,3	54,3
AR-182810AL	EFXE-182810AL	13,0	26,1	39,1	45,7	58,7	65,2	71,8
AR-202311AL	EFXE-202311AL	12,9	25,8	38,7	45,1	58,0	64,5	71,0
AR-202318AL	EFXE-202318AL	17,7	35,5	53,3	62,2	80,0	88,9	97,8
AR-232811AL	EFXE-232811AL	15,8	31,6	47,5	55,4	71,3	79,2	87,1
AR-233312AL	EFXE-233312AL	18,5	37,0	55,6	64,8	83,4	92,7	101,9
AR-233318AL	EFXE-233318AL	23,7	47,5	71,3	83,2	107,0	118,9	130,8

Enclosure types (aluminium)		Maximum power dissipation (W) – Tamb. up to **55**°C						
		INTERNAL TEMP.65°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
AQ-080806AL	EFXE-080806AL	2,6	3,9	6,5	7,8	10,4	11,7	13,0
AR-081306AL	EFXE-081306AL	3,5	5,3	8,8	10,6	14,1	15,9	17,7
AR-081806AL	EFXE-081806AL	4,4	6,6	11,1	13,3	17,8	20,0	22,2
AR-081808AL	EFXE-081808AL	5,5	8,2	13,8	16,5	22,1	24,8	27,6
AR-082505AL	EFXE-082505AL	5,3	8,0	13,4	16,1	21,4	24,1	26,8
AR-082508AL	EFXE-082508AL	7,1	10,7	17,8	21,4	28,5	32,1	35,7
AQ-101008AL	EFXE-101008AL	4,3	6,5	10,8	13,0	17,4	19,6	21,7
AR-101508AL	EFXE-101508AL	5,5	8,3	13,8	16,6	22,2	24,9	27,7
AR-101608AL	EFXE-101608AL	5,7	8,6	14,4	17,3	23,1	26,0	28,9
AR-102008AL	EFXE-102008AL	6,7	10,0	16,7	20,1	26,8	30,2	33,5
AQ-121208AL	EFXE-121208AL	5,4	8,1	13,5	16,2	21,6	24,3	27,0
AR-122209AL	EFXE-122209AL	8,4	12,6	21,0	25,3	33,7	37,9	42,1
AQ-141409AL	EFXE-141409AL	6,8	10,3	17,2	20,6	27,5	31,0	34,4
AR-142009AL	EFXE-142009AL	8,5	12,8	21,4	25,7	34,2	38,5	42,8
AQ-161609AL	EFXE-161609AL	8,6	12,9	21,5	25,8	34,4	38,7	43,0
AR-162410AL	EFXE-162410AL	11,0	16,5	27,6	33,1	44,2	49,7	55,3
AR-162609AL	EFXE-162609AL	10,9	16,4	27,4	32,8	43,8	49,3	54,8
AQ-181810AL	EFXE-181810AL	9,8	14,8	24,6	29,6	39,5	44,4	49,3
AR-182810AL	EFXE-182810AL	13,0	19,5	32,6	39,1	52,2	58,7	65,2
AR-202311AL	EFXE-202311AL	12,9	19,3	32,2	38,7	51,6	58,0	64,5
AR-202318AL	EFXE-202318AL	17,7	26,6	44,4	53,3	71,1	80,0	88,9
AR-232811AL	EFXE-232811AL	15,8	23,7	39,6	47,5	63,3	71,3	79,2
AR-233312AL	EFXE-233312AL	18,5	27,8	46,3	55,6	74,1	83,4	92,7
AR-233318AL	EFXE-233318AL	23,7	35,6	59,4	71,3	95,1	107,0	118,9

Enclosure types (aluminium)		Maximum power dissipation (W) – Tamb. up to **60**°C					
		INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
AQ-080806AL	EFXE-080806AL	2,6	5,2	6,5	9,1	10,4	11,7
AR-081306AL	EFXE-081306AL	3,5	7,0	8,8	12,3	14,1	15,9
AR-081806AL	EFXE-081806AL	4,4	8,9	11,1	15,5	17,8	20,0
AR-081808AL	EFXE-081808AL	5,5	11,0	13,8	19,3	22,1	24,8
AR-082505AL	EFXE-082505AL	5,3	10,7	13,4	18,7	21,4	24,1
AR-082508AL	EFXE-082508AL	7,1	14,2	17,8	24,9	28,5	32,1
AQ-101008AL	EFXE-101008AL	4,3	8,7	10,8	15,2	17,4	19,6
AR-101508AL	EFXE-101508AL	5,5	11,1	13,8	19,4	22,2	24,9
AR-101608AL	EFXE-101608AL	5,7	11,5	14,4	20,2	23,1	26,0
AR-102008AL	EFXE-102008AL	6,7	13,4	16,7	23,5	26,8	30,2
AQ-121208AL	EFXE-121208AL	5,4	10,8	13,5	18,9	21,6	24,3
AR-122209AL	EFXE-122209AL	8,4	16,8	21,0	29,5	33,7	37,9
AQ-141409AL	EFXE-141409AL	6,8	13,7	17,2	24,1	27,5	31,0
AR-142009AL	EFXE-142009AL	8,5	17,1	21,4	30,0	34,2	38,5
AQ-161609AL	EFXE-161609AL	8,6	17,2	21,5	30,1	34,4	38,7
AR-162410AL	EFXE-162410AL	11,0	22,1	27,6	38,7	44,2	49,7
AR-162609AL	EFXE-162609AL	10,9	21,9	27,4	38,3	43,8	49,3
AQ-181810AL	EFXE-181810AL	9,8	19,7	24,6	34,5	39,5	44,4
AR-182810AL	EFXE-182810AL	13,0	26,1	32,6	45,7	52,2	58,7
AR-202311AL	EFXE-202311AL	12,9	25,8	32,2	45,1	51,6	58,0
AR-202318AL	EFXE-202318AL	17,7	35,5	44,4	62,2	71,1	80,0
AR-232811AL	EFXE-232811AL	15,8	31,6	39,6	55,4	63,3	71,3
AR-233312AL	EFXE-233312AL	18,5	37,0	46,3	64,8	74,1	83,4
AR-233318AL	EFXE-233318AL	23,7	47,5	59,4	83,2	95,1	107,0

Enclosure types (aluminium)		Maximum power dissipation (W) – Tamb. up to **95**°C	
		INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
AQ-080806AL	EFXE-080806AL	1,3	2,6
AR-081306AL	EFXE-081306AL	1,7	3,5
AR-081806AL	EFXE-081806AL	2,2	4,4
AR-081808AL	EFXE-081808AL	2,7	5,5
AR-082505AL	EFXE-082505AL	2,6	5,3
AR-082508AL	EFXE-082508AL	3,5	7,1
AQ-101008AL	EFXE-101008AL	2,1	4,3
AR-101508AL	EFXE-101508AL	2,7	5,5
AR-101608AL	EFXE-101608AL	2,8	5,7
AR-102008AL	EFXE-102008AL	3,3	6,7
AQ-121208AL	EFXE-121208AL	2,7	5,4
AR-122209AL	EFXE-122209AL	4,2	8,4
AQ-141409AL	EFXE-141409AL	3,4	6,8
AR-142009AL	EFXE-142009AL	4,2	8,5
AQ-161609AL	EFXE-161609AL	4,3	8,6
AR-162410AL	EFXE-162410AL	5,5	11,0
AR-162609AL	EFXE-162609AL	5,4	10,9
AQ-181810AL	EFXE-181810AL	4,9	9,8
AR-182810AL	EFXE-182810AL	6,5	13,0
AR-202311AL	EFXE-202311AL	6,4	12,9
AR-202318AL	EFXE-202318AL	8,8	17,7
AR-232811AL	EFXE-232811AL	7,9	15,8
AR-233312AL	EFXE-233312AL	9,2	18,5
AR-233318AL	EFXE-233318AL	11,8	23,7

Power dissipation – Stainless steel enclosures SB series

Enclosure types (stainless steel)		Maximum power dissipation (W) – Tamb. up to **40**°C						
		INTERNAL TEMP.60°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
SB-101210	EFXE-101210SB	5,5	8,3	11,1	12,5	15,3	16,7	18,1
SB-151510	EFXE-151510SB	8,0	12,0	16,0	18,0	22,0	24,0	26,1
SB-142013	EFXE-142013SB	10,4	15,7	20,9	23,5	28,8	31,4	34,0
SB-202010	EFXE-202010SB	10,7	16,1	21,4	24,1	29,5	32,2	34,8
SB-202016	EFXE-202016SB	13,9	20,8	27,8	31,3	38,3	41,7	45,2
SB-202713	EFXE-202713SB	14,4	21,6	28,9	32,5	39,7	43,3	46,9
SB-272713	EFXE-272713SB	16,7	25,1	33,5	37,7	46,0	50,2	54,4
SB-203016	EFXE-203016SB	17,1	25,7	34,3	38,6	47,2	51,4	55,7
SB-273513	EFXE-273513SB	19,2	28,9	38,5	43,3	53,0	57,8	62,6
SB-282816	EFXE-282816SB	19,3	29,0	38,7	43,6	53,3	58,1	63,0
SB-204016	EFXE-204016SB	20,2	30,3	40,4	45,5	55,6	60,6	65,7
SB-353516	EFXE-353516SB	24,4	36,6	48,8	54,9	67,1	73,2	79,3
SB-282827	EFXE-282827SB	26,2	39,3	52,5	59,0	72,2	78,7	85,3
SB-355016	EFXE-355016SB	29,7	44,5	59,4	66,8	81,7	89,1	96,6
SB-383816	EFXE-383816SB	26,6	39,9	53,2	59,8	73,1	79,8	86,5
SB-384516	EFXE-384516SB	29,1	43,7	58,3	65,6	80,2	87,5	94,8
SB-385716	EFXE-385716SB	33,4	50,1	66,8	75,2	91,9	100,3	108,7
SB-505016	EFXE-505016SB	35,8	53,8	71,7	80,7	98,6	107,6	116,6
SB-383827	EFXE-383827SB	35,1	52,7	70,2	79,0	96,6	105,4	114,2
SB-575716	EFXE-575716SB	41,5	62,3	83,1	93,5	114,3	124,7	135,1
SB-577620	EFXE-577620SB	53,9	80,9	107,9	121,3	148,3	161,8	175,3
SB-575730	EFXE-575730SB	55,8	83,7	111,6	125,6	153,5	167,5	181,4
SB-769520	EFXE-769520SB	72,2	108,3	144,4	162,4	198,5	216,6	234,6
SB-1258040	EFXE-1258040SB	72,2	108,3	144,4	162,4	198,5	216,6	234,6

Enclosure types (Stainless steel)		Maximum power dissipation (W) – Tamb. up to **50**°C						
		INTERNAL TEMP.60°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
SB-101210	EFXE-101210SB	2,7	5,5	8,3	9,7	12,5	13,9	15,3
SB-151510	EFXE-151510SB	4,0	8,0	12,0	14,0	18,0	20,0	22,0
SB-142013	EFXE-142013SB	5,2	10,4	15,7	18,3	23,5	26,2	28,8
SB-202010	EFXE-202010SB	5,3	10,7	16,1	18,7	24,1	26,8	29,5
SB-202016	EFXE-202016SB	6,9	13,9	20,8	24,3	31,3	34,8	38,3
SB-202713	EFXE-202713SB	7,2	14,4	21,6	25,2	32,5	36,1	39,7
SB-272713	EFXE-272713SB	8,3	16,7	25,1	29,3	37,7	41,8	46,0
SB-203016	EFXE-203016SB	8,5	17,1	25,7	30,0	38,6	42,9	47,2
SB-273513	EFXE-273513SB	9,6	19,2	28,9	33,7	43,3	48,2	53,0
SB-282816	EFXE-282816SB	9,6	19,3	29,0	33,9	43,6	48,4	53,3
SB-204016	EFXE-204016SB	10,1	20,2	30,3	35,4	45,5	50,5	55,6
SB-353516	EFXE-353516SB	12,2	24,4	36,6	42,7	54,9	61,0	67,1
SB-282827	EFXE-282827SB	13,1	26,2	39,3	45,9	59,0	65,6	72,2
SB-355016	EFXE-355016SB	14,8	29,7	44,5	52,0	66,8	74,3	81,7
SB-383816	EFXE-383816SB	13,3	26,6	39,9	46,5	59,8	66,5	73,1
SB-384516	EFXE-384516SB	14,5	29,1	43,7	51,0	65,6	72,9	80,2
SB-385716	EFXE-385716SB	16,7	33,4	50,1	58,5	75,2	83,6	91,9
SB-505016	EFXE-505016SB	17,9	35,8	53,8	62,7	80,7	89,7	98,6
SB-383827	EFXE-383827SB	17,5	35,1	52,7	61,4	79,0	87,8	96,6
SB-575716	EFXE-575716SB	20,7	41,5	62,3	72,7	93,5	103,9	114,3
SB-577620	EFXE-577620SB	26,9	53,9	80,9	94,4	121,3	134,8	148,3
SB-575730	EFXE-575730SB	27,9	55,8	83,7	97,7	125,6	139,5	153,5
SB-769520	EFXE-769520SB	36,1	72,2	108,3	126,3	162,4	180,5	198,5
SB-1258040	EFXE-1258040SB	36,1	72,2	108,3	126,3	162,4	180,5	198,5

Enclosure types (Stainless steel)		Maximum power dissipation (W) – Tamb. up to **55**°C						
		INTERNAL TEMP.65°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
SB-101210	EFXE-101210SB	2,7	4,1	6,9	8,3	11,1	12,5	13,9
SB-151510	EFXE-151510SB	4,0	6,0	10,0	12,0	16,0	18,0	20,0
SB-142013	EFXE-142013SB	5,2	7,8	13,1	15,7	20,9	23,5	26,2
SB-202010	EFXE-202010SB	5,3	8,0	13,4	16,1	21,4	24,1	26,8
SB-202016	EFXE-202016SB	6,9	10,4	17,4	20,8	27,8	31,3	34,8
SB-202713	EFXE-202713SB	7,2	10,8	18,0	21,6	28,9	32,5	36,1
SB-272713	EFXE-272713SB	8,3	12,5	20,9	25,1	33,5	37,7	41,8
SB-203016	EFXE-203016SB	8,5	12,8	21,4	25,7	34,3	38,6	42,9
SB-273513	EFXE-273513SB	9,6	14,4	24,1	28,9	38,5	43,3	48,2
SB-282816	EFXE-282816SB	9,6	14,5	24,2	29,0	38,7	43,6	48,4
SB-204016	EFXE-204016SB	10,1	15,1	25,2	30,3	40,4	45,5	50,5
SB-353516	EFXE-353516SB	12,2	18,3	30,5	36,6	48,8	54,9	61,0
SB-282827	EFXE-282827SB	13,1	19,6	32,8	39,3	52,5	59,0	65,6
SB-355016	EFXE-355016SB	14,8	22,2	37,1	44,5	59,4	66,8	74,3
SB-383816	EFXE-383816SB	13,3	19,9	33,2	39,9	53,2	59,8	66,5
SB-384516	EFXE-384516SB	14,5	21,8	36,4	43,7	58,3	65,6	72,9
SB-385716	EFXE-385716SB	16,7	25,0	41,8	50,1	66,8	75,2	83,6
SB-505016	EFXE-505016SB	17,9	26,9	44,8	53,8	71,7	80,7	89,7
SB-383827	EFXE-383827SB	17,5	26,3	43,9	52,7	70,2	79,0	87,8
SB-575716	EFXE-575716SB	20,7	31,1	51,9	62,3	83,1	93,5	103,9
SB-577620	EFXE-577620SB	26,9	40,4	67,4	80,9	107,9	121,3	134,8
SB-575730	EFXE-575730SB	27,9	41,8	69,7	83,7	111,6	125,6	139,5
SB-769520	EFXE-769520SB	36,1	54,1	90,2	108,3	144,4	162,4	180,5
SB-1258040	EFXE-1258040SB	36,1	54,1	90,2	108,3	144,4	162,4	180,5

Enclosure types (Stainless steel)		Maximum power dissipation (W) – Tamb. up to **60**°C					
		INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
SB-101210	EFXE-101210SB	2,7	5,5	6,9	9,7	11,1	12,5
SB-151510	EFXE-151510SB	4,0	8,0	10,0	14,0	16,0	18,0
SB-142013	EFXE-142013SB	5,2	10,4	13,1	18,3	20,9	23,5
SB-202010	EFXE-202010SB	5,3	10,7	13,4	18,7	21,4	24,1
SB-202016	EFXE-202016SB	6,9	13,9	17,4	24,3	27,8	31,3
SB-202713	EFXE-202713SB	7,2	14,4	18,0	25,2	28,9	32,5
SB-272713	EFXE-272713SB	8,3	16,7	20,9	29,3	33,5	37,7
SB-203016	EFXE-203016SB	8,5	17,1	21,4	30,0	34,3	38,6
SB-273513	EFXE-273513SB	9,6	19,2	24,1	33,7	38,5	43,3
SB-282816	EFXE-282816SB	9,6	19,3	24,2	33,9	38,7	43,6
SB-204016	EFXE-204016SB	10,1	20,2	25,2	35,4	40,4	45,5
SB-353516	EFXE-353516SB	12,2	24,4	30,5	42,7	48,8	54,9
SB-282827	EFXE-282827SB	13,1	26,2	32,8	45,9	52,5	59,0
SB-355016	EFXE-355016SB	14,8	29,7	37,1	52,0	59,4	66,8
SB-383816	EFXE-383816SB	13,3	26,6	33,2	46,5	53,2	59,8
SB-384516	EFXE-384516SB	14,5	29,1	36,4	51,0	58,3	65,6
SB-385716	EFXE-385716SB	16,7	33,4	41,8	58,5	66,8	75,2
SB-505016	EFXE-505016SB	17,9	35,8	44,8	62,7	71,7	80,7
SB-383827	EFXE-383827SB	17,5	35,1	43,9	61,4	70,2	79,0
SB-575716	EFXE-575716SB	20,7	41,5	51,9	72,7	83,1	93,5
SB-577620	EFXE-577620SB	26,9	53,9	67,4	94,4	107,9	121,3
SB-575730	EFXE-575730SB	27,9	55,8	69,7	97,7	111,6	125,6
SB-769520	EFXE-769520SB	36,1	72,2	90,2	126,3	144,4	162,4
SB-1258040	EFXE-1258040SB	36,1	72,2	90,2	126,3	144,4	162,4

Enclosure types (Stainless steel)		Maximum power dissipation (W) – Tamb. up to **95**°C	
		INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
SB-101210	EFXE-101210SB	1,3	2,7
SB-151510	EFXE-151510SB	2,0	4,0
SB-142013	EFXE-142013SB	2,6	5,2
SB-202010	EFXE-202010SB	2,6	5,3
SB-202016	EFXE-202016SB	3,4	6,9
SB-202713	EFXE-202713SB	3,6	7,2
SB-272713	EFXE-272713SB	4,1	8,3
SB-203016	EFXE-203016SB	4,2	8,5
SB-273513	EFXE-273513SB	4,8	9,6
SB-282816	EFXE-282816SB	4,8	9,6
SB-204016	EFXE-204016SB	5,0	10,1
SB-353516	EFXE-353516SB	6,1	12,2
SB-282827	EFXE-282827SB	6,5	13,1
SB-355016	EFXE-355016SB	7,4	14,8
SB-383816	EFXE-383816SB	6,6	13,3
SB-384516	EFXE-384516SB	7,2	14,5
SB-385716	EFXE-385716SB	8,3	16,7
SB-505016	EFXE-505016SB	8,9	17,9
SB-383827	EFXE-383827SB	8,7	17,5
SB-575716	EFXE-575716SB	10,3	20,7
SB-577620	EFXE-577620SB	13,4	26,9
SB-575730	EFXE-575730SB	13,9	27,9
SB-769520	EFXE-769520SB	18,0	36,1
SB-1258040	EFXE-1258040SB	18,0	36,1

Power dissipation – Stainless steel enclosures ST series

Enclosure types (Stainless steel)		Maximum power dissipation (W) – Tamb. up to **40**°C						
		INTERNAL TEMP.60°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
ST-101210	EFXE-101210ST	5,5	8,3	11,1	12,5	15,3	16,7	18,1
ST-151510	EFXE-151510ST	8,0	12,0	16,0	18,0	22,0	24,0	26,1
ST-142013	EFXE-142013ST	10,4	15,7	20,9	23,5	28,8	31,4	34,0
ST-202010	EFXE-202010ST	10,7	16,1	21,4	24,1	29,5	32,2	34,8
ST-202016	EFXE-202016ST	13,9	20,8	27,8	31,3	38,3	41,7	45,2
ST-202713	EFXE-202713ST	14,4	21,6	28,9	32,5	39,7	43,3	46,9
ST-272713	EFXE-272713ST	16,7	25,1	33,5	37,7	46,0	50,2	54,4
ST-203016	EFXE-203016ST	17,1	25,7	34,3	38,6	47,2	51,4	55,7
ST-273513	EFXE-273513ST	19,2	28,9	38,5	43,3	53,0	57,8	62,6
ST-282816	EFXE-282816ST	19,3	29,0	38,7	43,6	53,3	58,1	63,0
ST-204016	EFXE-204016ST	20,2	30,3	40,4	45,5	55,6	60,6	65,7
ST-353516	EFXE-353516ST	24,4	36,6	48,8	54,9	67,1	73,2	79,3
ST-282827	EFXE-282827ST	26,2	39,3	52,5	59,0	72,2	78,7	85,3
ST-355016	EFXE-355016ST	29,7	44,5	59,4	66,8	81,7	89,1	96,6
ST-383816	EFXE-383816ST	26,6	39,9	53,2	59,8	73,1	79,8	86,5
ST-384516	EFXE-384516ST	29,1	43,7	58,3	65,6	80,2	87,5	94,8
ST-385716	EFXE-385716ST	33,4	50,1	66,8	75,2	91,9	100,3	108,7
ST-505016	EFXE-505016ST	35,8	53,8	71,7	80,7	98,6	107,6	116,6
ST-383827	EFXE-383827ST	35,1	52,7	70,2	79,0	96,6	105,4	114,2
ST-575716	EFXE-575716ST	41,5	62,3	83,1	93,5	114,3	124,7	135,1
ST-577620	EFXE-577620ST	53,9	80,9	107,9	121,3	148,3	161,8	175,3
ST-575730	EFXE-575730ST	55,8	83,7	111,6	125,6	153,5	167,5	181,4
ST-769520	EFXE-769520ST	72,2	108,3	144,4	162,4	198,5	216,6	234,6
ST-1258040	EFXE-1258040ST	72,2	108,3	144,4	162,4	198,5	216,6	234,6

Enclosure types (Stainless steel)		Maximum power dissipation (W) – Tamb. up to **50**°C						
		INTERNAL TEMP.60°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
ST-101210	EFXE-101210ST	2,7	5,5	8,3	9,7	12,5	13,9	15,3
ST-151510	EFXE-151510ST	4,0	8,0	12,0	14,0	18,0	20,0	22,0
ST-142013	EFXE-142013ST	5,2	10,4	15,7	18,3	23,5	26,2	28,8
ST-202010	EFXE-202010ST	5,3	10,7	16,1	18,7	24,1	26,8	29,5
ST-202016	EFXE-202016ST	6,9	13,9	20,8	24,3	31,3	34,8	38,3
ST-202713	EFXE-202713ST	7,2	14,4	21,6	25,2	32,5	36,1	39,7
ST-272713	EFXE-272713ST	8,3	16,7	25,1	29,3	37,7	41,8	46,0
ST-203016	EFXE-203016ST	8,5	17,1	25,7	30,0	38,6	42,9	47,2
ST-273513	EFXE-273513ST	9,6	19,2	28,9	33,7	43,3	48,2	53,0
ST-282816	EFXE-282816ST	9,6	19,3	29,0	33,9	43,6	48,4	53,3
ST-204016	EFXE-204016ST	10,1	20,2	30,3	35,4	45,5	50,5	55,6
ST-353516	EFXE-353516ST	12,2	24,4	36,6	42,7	54,9	61,0	67,1
ST-282827	EFXE-282827ST	13,1	26,2	39,3	45,9	59,0	65,6	72,2
ST-355016	EFXE-355016ST	14,8	29,7	44,5	52,0	66,8	74,3	81,7
ST-383816	EFXE-383816ST	13,3	26,6	39,9	46,5	59,8	66,5	73,1
ST-384516	EFXE-384516ST	14,5	29,1	43,7	51,0	65,6	72,9	80,2
ST-385716	EFXE-385716ST	16,7	33,4	50,1	58,5	75,2	83,6	91,9
ST-505016	EFXE-505016ST	17,9	35,8	53,8	62,7	80,7	89,7	98,6
ST-383827	EFXE-383827ST	17,5	35,1	52,7	61,4	79,0	87,8	96,6
ST-575716	EFXE-575716ST	20,7	41,5	62,3	72,7	93,5	103,9	114,3
ST-577620	EFXE-577620ST	26,9	53,9	80,9	94,4	121,3	134,8	148,3
ST-575730	EFXE-575730ST	27,9	55,8	83,7	97,7	125,6	139,5	153,5
ST-769520	EFXE-769520ST	36,1	72,2	108,3	126,3	162,4	180,5	198,5
ST-1258040	EFXE-1258040ST	36,1	72,2	108,3	126,3	162,4	180,5	198,5

Enclosure types (Stainless steel)		Maximum power dissipation (W) – Tamb. up to **55**°C						
		INTERNAL TEMP.65°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
ST-101210	EFXE-101210ST	2,7	4,1	6,9	8,3	11,1	12,5	13,9
ST-151510	EFXE-151510ST	4,0	6,0	10,0	12,0	16,0	18,0	20,0
ST-142013	EFXE-142013ST	5,2	7,8	13,1	15,7	20,9	23,5	26,2
ST-202010	EFXE-202010ST	5,3	8,0	13,4	16,1	21,4	24,1	26,8
ST-202016	EFXE-202016ST	6,9	10,4	17,4	20,8	27,8	31,3	34,8
ST-202713	EFXE-202713ST	7,2	10,8	18,0	21,6	28,9	32,5	36,1
ST-272713	EFXE-272713ST	8,3	12,5	20,9	25,1	33,5	37,7	41,8
ST-203016	EFXE-203016ST	8,5	12,8	21,4	25,7	34,3	38,6	42,9
ST-273513	EFXE-273513ST	9,6	14,4	24,1	28,9	38,5	43,3	48,2
ST-282816	EFXE-282816ST	9,6	14,5	24,2	29,0	38,7	43,6	48,4
ST-204016	EFXE-204016ST	10,1	15,1	25,2	30,3	40,4	45,5	50,5
ST-353516	EFXE-353516ST	12,2	18,3	30,5	36,6	48,8	54,9	61,0
ST-282827	EFXE-282827ST	13,1	19,6	32,8	39,3	52,5	59,0	65,6
ST-355016	EFXE-355016ST	14,8	22,2	37,1	44,5	59,4	66,8	74,3
ST-383816	EFXE-383816ST	13,3	19,9	33,2	39,9	53,2	59,8	66,5
ST-384516	EFXE-384516ST	14,5	21,8	36,4	43,7	58,3	65,6	72,9
ST-385716	EFXE-385716ST	16,7	25,0	41,8	50,1	66,8	75,2	83,6
ST-505016	EFXE-505016ST	17,9	26,9	44,8	53,8	71,7	80,7	89,7
ST-383827	EFXE-383827ST	17,5	26,3	43,9	52,7	70,2	79,0	87,8
ST-575716	EFXE-575716ST	20,7	31,1	51,9	62,3	83,1	93,5	103,9
ST-577620	EFXE-577620ST	26,9	40,4	67,4	80,9	107,9	121,3	134,8
ST-575730	EFXE-575730ST	27,9	41,8	69,7	83,7	111,6	125,6	139,5
ST-769520	EFXE-769520ST	36,1	54,1	90,2	108,3	144,4	162,4	180,5
ST-1258040	EFXE-1258040ST	36,1	54,1	90,2	108,3	144,4	162,4	180,5

Enclosure types (Stainless steel)		Maximum power dissipation (W) – Tamb. up to **60**°C					
		INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
ST-101210	EFXE-101210ST	2,7	5,5	6,9	9,7	11,1	12,5
ST-151510	EFXE-151510ST	4,0	8,0	10,0	14,0	16,0	18,0
ST-142013	EFXE-142013ST	5,2	10,4	13,1	18,3	20,9	23,5
ST-202010	EFXE-202010ST	5,3	10,7	13,4	18,7	21,4	24,1
ST-202016	EFXE-202016ST	6,9	13,9	17,4	24,3	27,8	31,3
ST-202713	EFXE-202713ST	7,2	14,4	18,0	25,2	28,9	32,5
ST-272713	EFXE-272713ST	8,3	16,7	20,9	29,3	33,5	37,7
ST-203016	EFXE-203016ST	8,5	17,1	21,4	30,0	34,3	38,6
ST-273513	EFXE-273513ST	9,6	19,2	24,1	33,7	38,5	43,3
ST-282816	EFXE-282816ST	9,6	19,3	24,2	33,9	38,7	43,6
ST-204016	EFXE-204016ST	10,1	20,2	25,2	35,4	40,4	45,5
ST-353516	EFXE-353516ST	12,2	24,4	30,5	42,7	48,8	54,9
ST-282827	EFXE-282827ST	13,1	26,2	32,8	45,9	52,5	59,0
ST-355016	EFXE-355016ST	14,8	29,7	37,1	52,0	59,4	66,8
ST-383816	EFXE-383816ST	13,3	26,6	33,2	46,5	53,2	59,8
ST-384516	EFXE-384516ST	14,5	29,1	36,4	51,0	58,3	65,6
ST-385716	EFXE-385716ST	16,7	33,4	41,8	58,5	66,8	75,2
ST-505016	EFXE-505016ST	17,9	35,8	44,8	62,7	71,7	80,7
ST-383827	EFXE-383827ST	17,5	35,1	43,9	61,4	70,2	79,0
ST-575716	EFXE-575716ST	20,7	41,5	51,9	72,7	83,1	93,5
ST-577620	EFXE-577620ST	26,9	53,9	67,4	94,4	107,9	121,3
ST-575730	EFXE-575730ST	27,9	55,8	69,7	97,7	111,6	125,6
ST-769520	EFXE-769520ST	36,1	72,2	90,2	126,3	144,4	162,4
ST-1258040	EFXE-1258040ST	36,1	72,2	90,2	126,3	144,4	162,4

Enclosure types (Stainless steel)		Maximum power dissipation (W) – Tamb. up to **95**°C	
		INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
ST-101210	EFXE-101210ST	1,3	2,7
ST-151510	EFXE-151510ST	2,0	4,0
ST-142013	EFXE-142013ST	2,6	5,2
ST-202010	EFXE-202010ST	2,6	5,3
ST-202016	EFXE-202016ST	3,4	6,9
ST-202713	EFXE-202713ST	3,6	7,2
ST-272713	EFXE-272713ST	4,1	8,3
ST-203016	EFXE-203016ST	4,2	8,5
ST-273513	EFXE-273513ST	4,8	9,6
ST-282816	EFXE-282816ST	4,8	9,6
ST-204016	EFXE-204016ST	5,0	10,1
ST-353516	EFXE-353516ST	6,1	12,2
ST-282827	EFXE-282827ST	6,5	13,1
ST-355016	EFXE-355016ST	7,4	14,8
ST-383816	EFXE-383816ST	6,6	13,3
ST-384516	EFXE-384516ST	7,2	14,5
ST-385716	EFXE-385716ST	8,3	16,7
ST-505016	EFXE-505016ST	8,9	17,9
ST-383827	EFXE-383827ST	8,7	17,5
ST-575716	EFXE-575716ST	10,3	20,7
ST-577620	EFXE-577620ST	13,4	26,9
ST-575730	EFXE-575730ST	13,9	27,9
ST-769520	EFXE-769520ST	18,0	36,1
ST-1258040	EFXE-1258040ST	18,0	36,1

Maximum Power Dissipation calculation

The values specified in the tables as per clause 2.1.1 may be modified within the maximum admitted Tamb and maximum admitted internal temperature as follows.

$$Pdiss\ (W) = \frac{Tmax - Tamb}{Rth}$$

$Rth = A \times (\text{enclosure surface in } mm^2 \text{ except enclosure bottom})^B$

Legend:
Rth – Thermal resistance [K/W].
Tmax – Maximum allowed temperature inside enclosure.
Tamb – Ambient temperature of enclosure
A and B - coefficients determined for each series of enclosure. Exact values are given in manufacturer's documentation.

Warning labels:

WARNING – DO NOT OPEN WHEN ENERGIZED (*)
(*) Not mandatory for apparatus with protection type Ex ia Ga and Ex ib Gb.

WARNING – POTENTIAL ELECTROSTATIC CHARGING HAZARD – SEE INSTRUCTIONS

To be added when the enclosures or parts of them have a surface resistance more than 10^9 Ω or 10^{11} Ω according to IEC 60079-0 Clause 7.4.2 a), as applicable, and as per following cases:

- are equipped with transparent parts made of polycarbonate.
- for category II 2 G / EPL Gb Gas group IIC: are painted and the paint layer thickness is > 0.2mm.
- for category II 2 G / EPL Gb Gas group IIB: are painted and the paint layer thickness is > 2mm.
- for category II 2 D / EPL Db: are painted and the paint layer thickness is > 2mm.
- for category II 2 G / EPL Gb Gas group IIC: not conductive individual materials (labels), applied on painted enclosures, have exposed (chargeable area) > 2000mm^2 or, not conductive individual materials (labels), applied on unpainted (conductive earthed surface) enclosures, have exposed (chargeable area) > 8000mm^2.
- for category II 2 G /EPL Gb Gas group IIB: not conductive individual materials (labels), applied on painted enclosures, have exposed (chargeable area) > 10000mm^2 or, not conductive individual materials (labels), applied on unpainted (conductive earthed surface) enclosures, have exposed (chargeable area) > 40000mm^2.

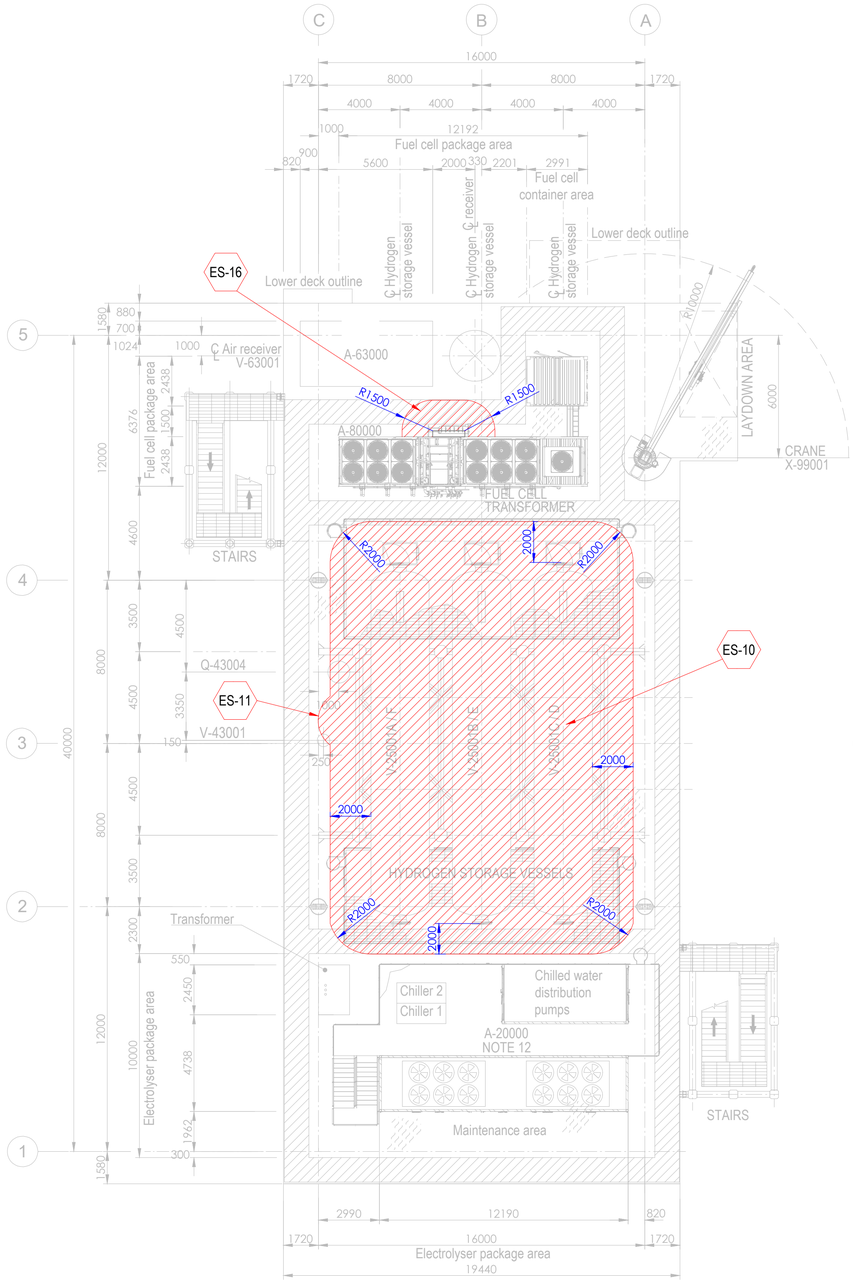
OPEN THE VALVE ONLY WHEN THE APPARATUS IS DE-ENERGIZED AND ONLY WHEN AN EXPLOSIVE DUST ATMOSPHERE IS NOT PRESENT
To be added on Ex tb apparatus equipped with the drain / venting device ECR3.

Other warnings depend on the components actually mounted, according to the component manufacturer's documentation.

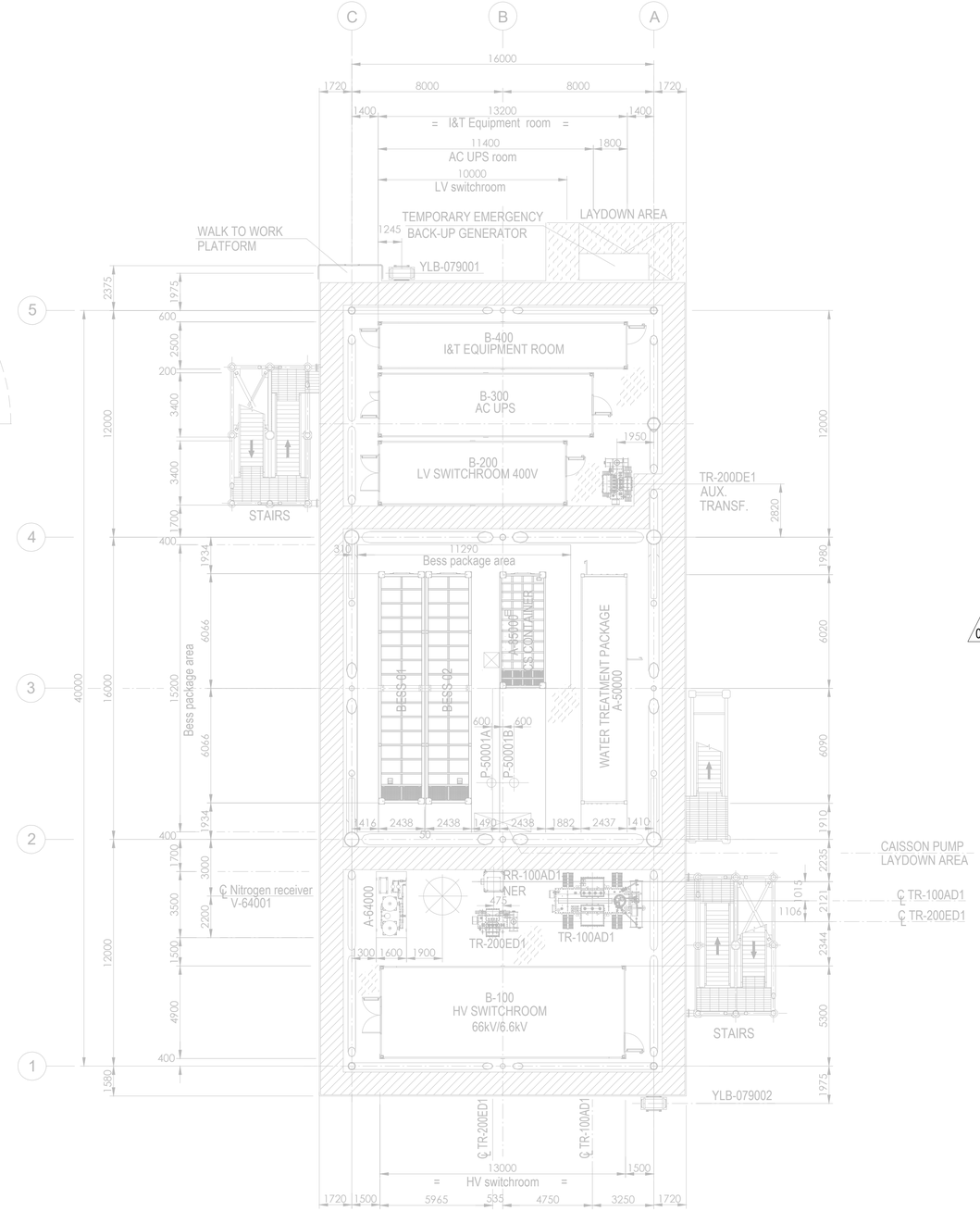
The tables below state the maximum power dissipation values (W) related to the internal temperature (Tint) and ambient temperature (Tamb).

DRAWING NO. 123A90-DDL-SAF-DL-30022

REV. 02



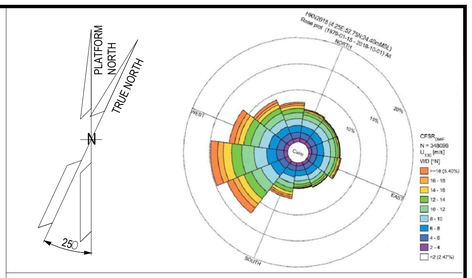
PLAN ON UPPER DECK
EL+30.310 T.O.S.



PLAN ON LOWER DECK
EL+23.310 T.O.S.

Tag No.	Equipment Tag	Description	Material	Ventilation Type
01	P-50001 A/B	SEA WATER LIFT PUMPS	SEA WATER	NATURAL (OPEN AREA)
02	Q-43004	HYDROGEN VENT	HYDROGEN	NATURAL (OPEN AREA)
03	V-43001	HYDROGEN VENT KO DRUM	HYDROGEN	NATURAL (OPEN AREA)
04	V-25001 (A/B/C/D/E/F)	HYDROGEN STORAGE VESSELS	HYDROGEN	NATURAL (OPEN AREA)
05	V-63001	AIR RECEIVER	INSTRUMENT AIR	NATURAL (OPEN AREA)
06	A-20000	ELECTROLYSER PACKAGE		
07	A-63000	INSTRUMENT AIR PACKAGE		
08	A-80000	FUEL CELL PACKAGE		
09	A-85000	BESS PACKAGE		
10	YLB-079001/2	LIFE RAFTS		
11	A-50000	WATER TREATMENT PACKAGE		

Tag No.	Equipment Tag	Description	Material	Ventilation Type
12	A-64000	NITROGEN SYSTEM		
13	B-100	HV SWITCHROOM 66kV/6.6kV		
14	B-200	LV SWITCHROOM 400V		
15	B-300	AC UPS EQUIPMENT ROOM		
16	B-400	I&T EQUIPMENT ROOM		
17	TR-100AD1	TRANSFORMER MAIN 66kV/6.6kV		
18	RR-100AD1-NER	NEUTRAL EARTHING RESISTOR		
19	TR-200DE1	TRANSFORMER AUX. 6.6kV/0.4kV		
20	TR-200ED1	SOLAR TRANSFORMER PV FARM EQUIPMENT		
21	X-99001	CRANE		
22	V-64001	NITROGEN RECEIVER		



NOTES

1. ALL DIMENSIONS IN mm U.N.O.
2. ALL ELEVATIONS IN METERS.
3. PLATFORM NORTH DIRECTION IS N 25°W.
4. VENT TOP SHALL BE REACHEABLE FOR MAINTENANCE PURPOSE.
5. THE BESS IS CONSIDERED SAFE AREA EXCEPT EXTRACTORES FROM BATTERIES , CURRENTLY NOT SHOWN IN DRAWINGS, SINCE INFORMATION FROM VENDOR IS NOT YET AVAILABLE.[ES17].
6. THE LOCATION OF EMISSION SOURCES ON THE LAYOUT ARE ONLY INDICATIVE. EMISSION SOURCES CONSIDERED ARE PRESENT WITHIN THE EXTENSION OF HAZARDOUS CLASSIFIED AREAS SHOWN ON THE LAYOUT. THIS IS BECAUSE VALVES AND FLANGES,WHICH ARE CONSIDERED POTENTIAL SOURCES OF RELEASE POINTS FOR FLAMMABLE GAS ARE NOT SHOWN ON CURRENT LAYOUT PROVIDED. THE SAME APPLIES TO THE EMISSION SOURCES FOR CPI'S ITEM.
7. IDENTIFIED EMISSION SOURCES DETAIL.

02
8. FOR DETAILS RELATED TO ELECTROLYSER PACKAGE INTERNAL ENCLOSURES REFER TO DRAWING 224J10-DDL-PP-DA-00001 REV 0.
9. FOR DETAILS RELATED TO FUELL CELL PACKAGE INTERNAL ENCLOSURES REFER TO DRAWING K559-2254-CWIWP4202202-B01-001 REV 009".
10. THE N.6 HYDROGEN STORAGE VESSELS ARE NOT CLASSIFIED INTERNALLY SINCE THEY ARE DESIGNED TO CONTAIN HYDROGEN OR NITROGEN FOR THE ENTIRE DURATION OF THE 2 YEARS OF OPERATION.

EMISSION SOURCE No.	IDENTIFIED AREAS
ES10	HYDROGEN STORAGE VESSLES
ES11	HYDROGEN VENT KO DRUM
ES16	FUEL CELL

LEGEND

ZONE 0 — ZONE 1

ZONE 2 — ES EMISSION SOURCES

123A90-DDL-PP-DS-70071	PLOT PLAN - BELOW LOWER DECK
123A90-DDL-PP-DS-70072	PLOT PLAN - ELEVATION LOOKING NORTH & EAST

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	15/01/25	MMA	CCA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	27/08/24	MMA	CCA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	08/02/24	MMA	CCA	DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND

ROSETTI MARINO

TITLE :
BASE LOAD POWER HUB (BLPH)
HAZARDOUS AREA CLASSIFICATION
LOWER & UPPER DECK

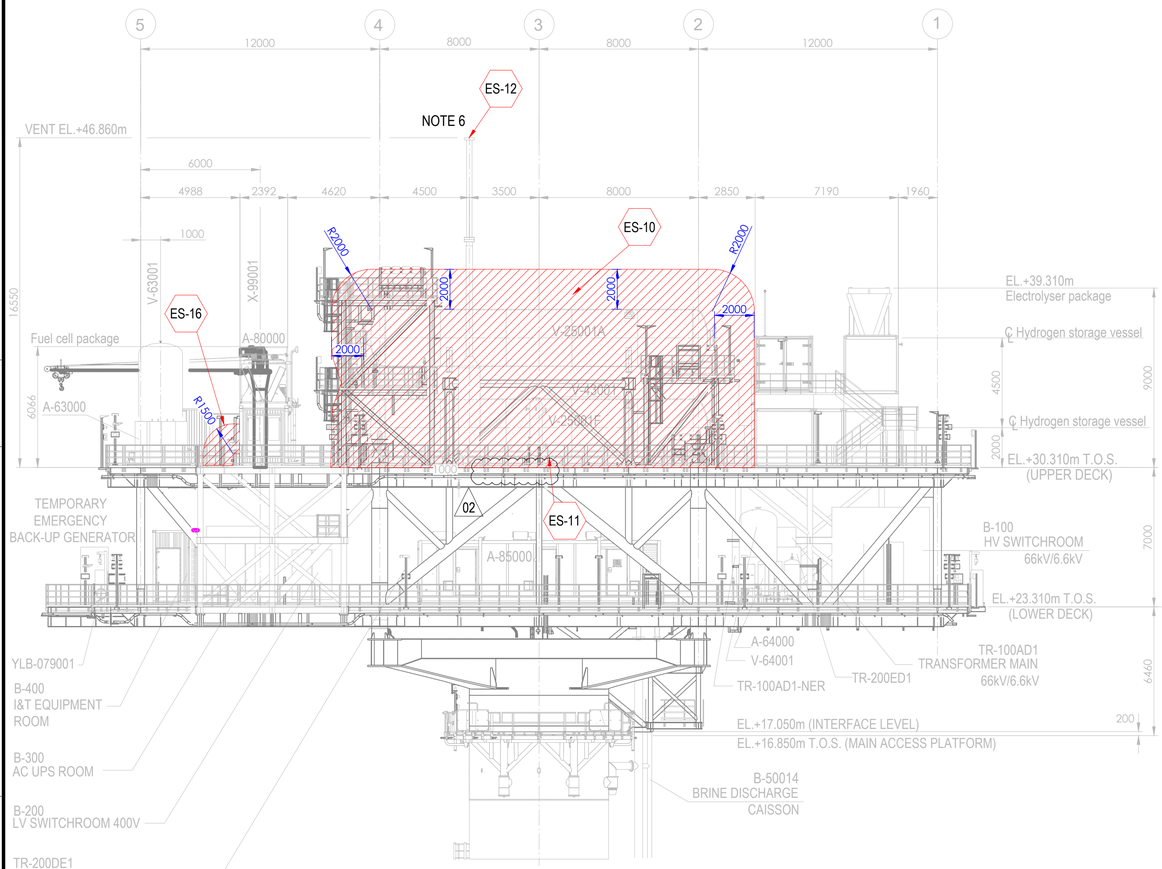
CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK			SCALE 1:150
DRAWN M. MAGNI	CHECKED C. CARACCIOLO	APPROVED D. LO STERZO	DATE 03/07/24

	DRAWING NO.	SHEET	REV.
A1	123A90-DDL-SAF-DL-30022	001	02

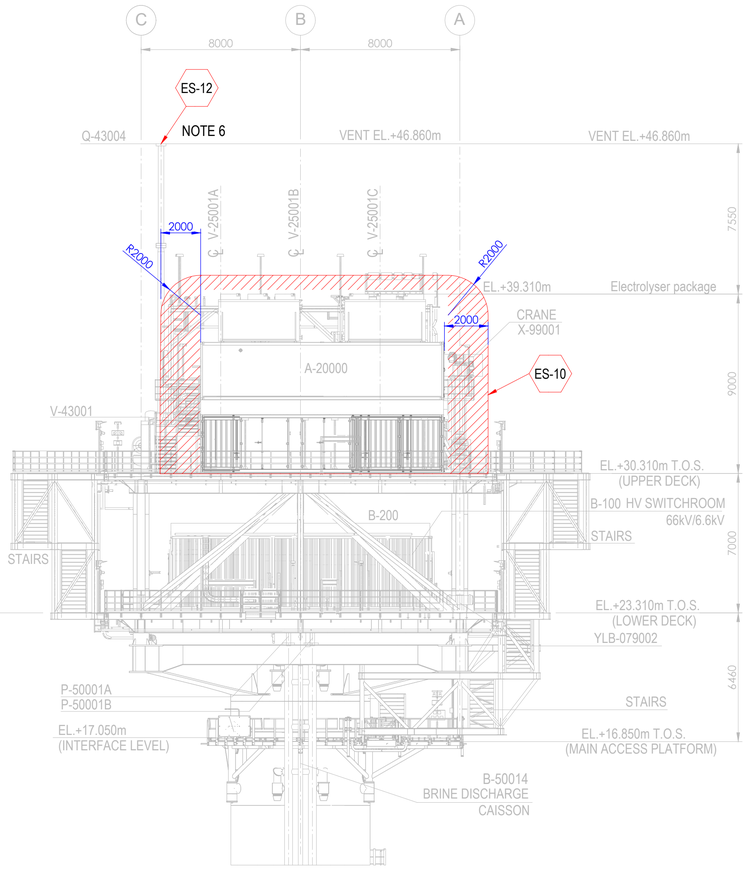
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DRAWING NO. 123A90-DDL-SAF-DL-30024

REV. 02

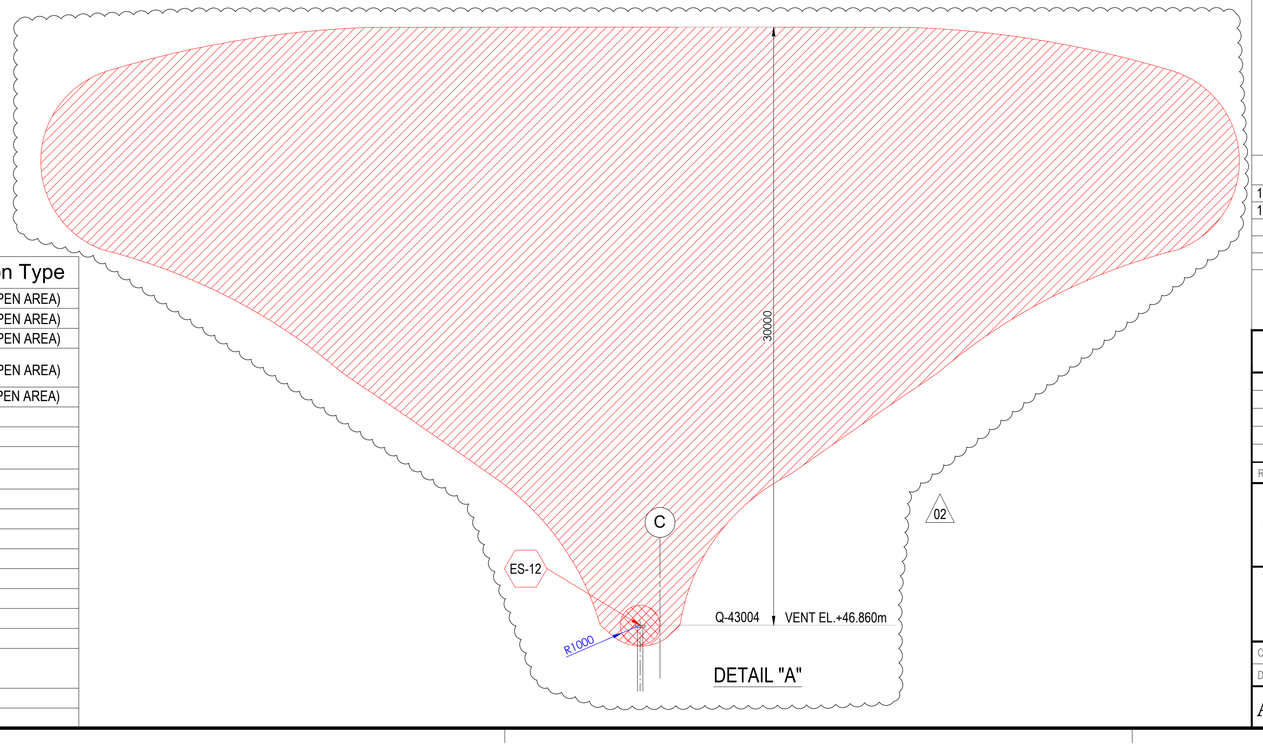


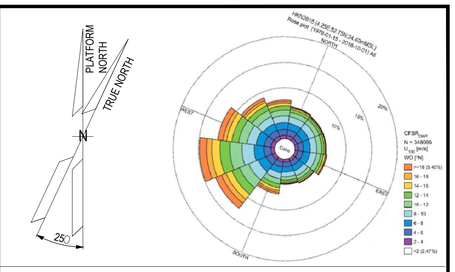
ELEVATION LOOKING EAST



ELEVATION LOOKING NORTH

Tag No.	Equipment Tag	Description	Material	Ventilation Type
01	P-50001 A/B	SEA WATER LIFT PUMPS	SEA WATER	NATURAL (OPEN AREA)
02	Q-43004	HYDROGEN VENT	HYDROGEN	NATURAL (OPEN AREA)
03	V-43001	HYDROGEN VENT KO DRUM	HYDROGEN	NATURAL (OPEN AREA)
04	V-25001 (A/B/C/D/E/F)	HYDROGEN STORAGE VESSELS	HYDROGEN	NATURAL (OPEN AREA)
05	V-63001	INSTRUMENT AIR RECEIVER	INSTRUMENT AIR	NATURAL (OPEN AREA)
06	A-20000	ELECTROLYSER PACKAGE		
07	A-63000	INSTRUMENT AIR PACKAGE		
08	A-80000	FUEL CELL PACKAGE		
09	A-85000	BESS PACKAGE		
10	YLB-079001/2	LIFE RAFTS		
11	B-100	HV SWITCHROOM 66kV/6.6kV		
12	B-200	LV SWITCHROOM 400V		
13	B-300	AC UPS EQUIPMENT ROOM		
14	B-400	I&T EQUIPMENT ROOM		
15	TR-100AD1	TRANSFORMER MAIN 66kV/6.6kV		
16	TR-100AD1-NER	NEUTRAL EARTHING RESISTOR		
17	TR-200DE1	TRANSFORMER AUX. 6.6kV/0.4kV		
18	TR-200ED1	SOLAR TRANSFORMER PV FARM EQUIPMENT		
19	X-99001	CRANE		
20	V-64001	NITROGEN RECEIVER		





NOTES

1. ALL DIMENSIONS IN mm U.N.O
2. ALL ELEVATIONS IN METERS.
3. PLATFORM NORTH DIRECTION IS N 25°W.
4. VENT TOP SHALL BE REACHEABLE FOR MAINTENANCE PURPOSE.
5. THE BESS IS CONSIDERED SAFE AREA EXCEPT EXTRACTORES FROM BATTERIES , CURRENTLY NOT SHOWN IN DRAWINGS, SINCE INFORMATION FROM VENDOR IS NOT YET AVAILABLE.[ES17]
6. FOR ES12 PLUME, PLEASE REFER TO THE DETAIL "A" BELOW. (02)
7. THE LOCATION OF EMISSION SOURCES ON THE LAYOUT ARE ONLY INDICATIVE. EMISSION SOURCES CONSIDERED ARE PRESENT WITHIN THE EXTENSION OF HAZARDOUS CLASSIFIED AREAS SHOWN ON THE LAYOUT. THIS IS BECAUSE VALVES AND FLANGES,WHICH ARE CONSIDERED POTENTIAL SOURCES OF RELEASE POINTS FOR FLAMMABLE GAS ARE NOT SHOWN ON CURRENT LAYOUT PROVIDED. THE SAME APPLIES TO THE EMISSION SOURCES FOR CPI'S ITEM.
8. IDENTIFIED EMISSION SOURCES DETAIL

EMISSION SOURCE No.	IDENTIFIED AREAS
ES10	HYDROGEN STORAGE VESSLES
ES11	HYDROGEN VENT KO DRUM
ES12	HYDROGEN VENT
ES16	FUEL CELL

LEGEND

ZONE 0 — ZONE 1

ZONE 2 — ES EMISSION SOURCES

REFERENCE DOCUMENTS

123A90-DDL-PP-DS-70070	PLOT PLAN - LOWER & UPPER DECK
123A90-DDL-PP-DS-70071	PLOT PLAN - BELOW LOWER DECK

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	15/01/24	MMA	CCA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	27/08/24	MMA	CCA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	08/02/24	MMA	CCA	DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND

ROSETTI MARINO

TITLE :
BASE LOAD POWER HUB (BLPH)
HAZARDOUS AREA CLASSIFICATION
ELEVATION LOOKING NORTH & EAST

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK			SCALE 1:150
DRAWN M. MAGNI	CHECKED C. CARACCIOLO	APPROVED D. LO STERZO	DATE 03/07/24

A1 | DRAWING NO. 123A90-DDL-SAF-DL-30024 | SHEET 001 | REV. 02

File Name : 123A90-DDL-SAF-DL-30024 Rev.02

ITEM	Tag	EJB-200N1-02-L1-08 : JB - NORMAL LIGHTING		Dwg	123A90-DDL-EL-DL-20118
	S/Sys	83-40 : Normal Lighting Upper Deck		Module	UD
TASK	code	C10001629	Location: Onshore Activities	User	Rosetti Marino Quality Control
FORM	Process	MC	Activity: CCK / Discipline: ATEX / Form: CJX01		Hazardous Area Equipment Detailed Inspection

Schedule Ref. #				**Area Code**					
Area Class Drawing	123A90-DDL-SAF-DL-30022			**Serial No.**		24P00297990011			
Manufacturer	TECHNOR ITALSMEA			**Model**		AQ-252612P			
Cert No.	FIDI 21 ATEX 0090X-FIDI 21 0015X			**Equipment Ambient Temp.**		-20 to + 40 °C			
Area Classification	Hazardous	**Zone**	2	**Gas group**	IIC	**Temp class**	T1		
Equipment Protection Type	Ex eb	**EPL**	Gb	**Gas group**	IIC	**Temp class**	T6	**IP Rating**	IP66

Detailed Note:

1) Inspection shall only be performed by competent personnel

2) All fields are to be completed. Any non-applicable field shall state “NA”. Comments are required for ‘Failure’ column ONLY.

3) An Inspection Sheet should be completed for EACH individual item of Equipment.

	General Equipment	Detailed	OK/NA/PL	Comments
1	Equipment is appropriate to the EPL / Zone requirements of the area	x	OK	
2	Equipment group is correct	x	OK	
3	Equipment temperature class is correct	x	OK	
4	Degree of IP protection of equipment is appropriate for the level of protection	x	OK	
5	Equipment circuit identification is correct	x	OK	
6	Equipment circuit identification is available	x	OK	
7	Enclosure glass parts and glass-to-metal sealing gaskets and / or compounds are satisfactory	x	NA	
8	There is no damage or unauthorized modifications	x	OK	
9	There is no evidence of unauthorized modifications	x	OK	
10	Bolts, cable entry devices (direct and indirect) & blanking elements are of the correct type, are complete & tight		PL	
	Physical check	x	OK	
11	Threaded covers on enclosures are of the correct type, are tight and secured		NA	
	Physical check	x	NA	
12	Joint surfaces are clean and undamaged and gaskets, if any, are satisfactory and positioned correctly	x	OK	
13	Condition of enclosure gaskets is satisfactory	x	OK	
14	There is no evidence or ingress of water or dust in the enclosure in accordance with the IP rating	x	OK	
15	Electrical connections are tight	x	OK	
16	Bridging links do not reduce creepage / clearance and are allowed	x	NA	
17	Unused terminals are tightened	x	OK	
18	Encapsulated components are undamaged	x	NA	
19	Flameproof components are undamaged	x	NA	
20	Fluorescent lamps are not indicating EOL effects (only for Ex “e” – Ex “n” – Ex “t”)	x	NA	
21	HID lamps are not indicating EOL effects	x	NA	
22	Lamp type, rating, pin configuration and position are correct	x	NA	
23	Breathing and drainage devices are satisfactory	x	NA	
24	Type of cable is appropriate	x	OK	
25	There is no obvious damage to the cables	x	OK	
26	Cable glands are the correct type and installed correctly	x	OK	
27	Sealing of trunking, ducts, pipes and or conduits is satisfactory	x	NA	
28	Stopping boxes and cable boxes are corrected filled	x	OK	

ITEM	Tag	EJB-200N1-02-L1-08	: JB - NORMAL LIGHTING			Dwg	123A90-DDL-EL-DL-20118
	S/Sys	83-40	: Normal Lighting Upper Deck			Module	UD
TASK	code	C10001629		Location	Onshore Activities	User	Rosetti Marino Quality Control
FORM	Process	MC	Activity CCK	Discipline	ATEX	Form	CJX01 Hazardous Area Equipment Detailed Inspection

29	Integrity of conduit system and interface with mixed system maintained	x	NA	
30	Earthing connections, including any supplementary earthing bonding connections are satisfactory (for example connections are tight and conductors are of sufficient cross-section		OK	
	Physical check	x	OK	
31	Automated electric protective devices operate within permitted limits	x	NA	
32	Special conditions (if applicable) have been complied with.	x	NA	
33	All cable cores are uniquely labeled	x	OK	
34	Cable cores not in use are correctly terminated	x	Note	See PL C30001467, C30001468, C30001469,
35	Equipment is adequately protected against corrosion, weather, vibration and other adverse factors	x	OK	
36	No undue accumulation of dust and dirt	x	OK	
37	All equipment housings are clean and dry	x	OK	
38	All moving parts are free and have no mechanical damage	x	OK	
	Applicable for Installation of Heating Systems			
39	Temperature sensors function according to manufacturer's documents (only applicable for Ex-d e Ex-e)	x	NA	
40	Safety cut off devices function according to manufacturer's documents (only applicable for Ex-d e Ex-e)	x	NA	
41	The setting of the safety cut off is sealed (only applicable for Ex-d e Ex-e)	x	NA	
42	Reset of a heating system safety cut off possible with tool only(only applicable for Ex-d e Ex-e)	x	NA	
43	Auto-reset is not possible (only applicable for Ex-d e Ex-e)	x	NA	
44	Reset of a safety cut off under fault conditions is prevented (only applicable for Ex-d e Ex-e)	x	NA	
45	Safety cut off independent from control system (only applicable for Ex-d e Ex-e)	x	NA	
46	Level switch is installed and correctly set, if required (only applicable for Ex-d e Ex-e)	x	NA	
47	Flow switch is installed and correctly set, if required (only applicable for Ex-d e Ex-e)	x	NA	
	Extra Ex d checks			
48	Obstructions adjacent to flame proof flanged joints are in accordance with IEC 60079-14	x	NA	
49	Ex d conduits seals are fitted to all conduits and satisfactorily sealed	x	NA	
50	Cable glands are of the correct type and installed correctly	x	NA	
51	Adaptors, reducers, stop ends, etc. are all certified Ex d	x	NA	
52	Flame path are clean and undamaged	x	NA	
53	Flange gap dimensions are within tolerances	x	NA	
54	Motor fans have sufficient clearance to the enclosure and/or covers, cooling systems are undamaged, motor foundations have no indentations or cracks	x	NA	
55	The ventilation airflow is not impeded	x	NA	
56	Insulation resistance (IR) of the motor windings is satisfactory	x	NA	
57	Fault loop impedance (TN systems) or earthing resistance (IT systems) is satisfactory	x	NA	
58	Variable voltage/frequency installation complies with documentation	x	NA	
	Extra Ex e checks			
59	All Equipment is Ex e certified (including components within enclosure)	x	PL	
60	Power conductors are not bunched together causing possible hot spots	x	OK	
61	Motor fans have sufficient clearance to the enclosure and/or covers, cooling systems are undamaged, motor foundations have no indentations or cracks	x	NA	
62	Insulation resistance (IR) of the motor windings is satisfactory	x	NA	
63	Fault loop impedance (TN systems) or earthing resistance (IT systems) is satisfactory	x	NA	
64	The ventilation airflow is not impeded	x	NA	
65	Motor protection devices operate within the permitted tE or tA time limits.	x	NA	
66	Variable voltage/frequency installation complies with documentation	x	NA	

ROSETTI MARINO PROVERLIS CROSSWIND

ITEM	Tag	EJB-200N1-02-L1-08	: JB - NORMAL LIGHTING		Dwg	123A90-DDL-EL-DL-20118	
	S/Sys	83-40	: Normal Lighting Upper Deck		Module	UD	
TASK	code	C10001629	Location	Onshore Activities	User	Rosetti Marino Quality Control	
FORM	Process	MC	Activity CCK	Discipline ATEX	Form	CJX01	Hazardous Area Equipment Detailed Inspection

Extra Ex n (nR, nL) checks				
67	All Terminals are Ex n certified (if required on certificate)	x	NA	
68	Hermetically sealed and enclosed break devices are undamaged	x	NA	
69	Restricted breathing properties satisfactory (conduct vacuum test)	x	NA	
70	Test port, if fitted, is functional (type “nR” only)	x	NA	
71	Breathing operation is satisfactory (type “nR” only)	x	NA	
72	Motor fans have sufficient clearance to the enclosure and/or covers, cooling systems are	x	NA	
73	The ventilation airflow is not impeded	x	NA	
74	Insulation resistance (IR) of the motor windings is satisfactory	x	NA	
75	Motor protection devices operate within the permitted tE or tA time limits.	x	NA	
76	Variable voltage/frequency installation complies with documentation	x	NA	
Extra Ex p checks				
77	Pressurization gas is correct type	x	NA	
78	Actual pressure is within maximum and minimum settings for equipment	x	NA	
79	Timers set as per certification documentation	x	NA	
80	Alarms and trip functions operate correctly as per certification documentation	x	NA	
81	Fault loop impedance (TN systems) or earthing resistance (IT systems) is satisfactory	x	NA	
82	Automatic electrical protective devices operate within permitted limits	x	NA	
83	Automatic electrical protective devices are set correctly	x	NA	
84	Protective gas inlet temperature is below maximum specified	x	NA	
85	Ducts, pipes and enclosures are in good condition	x	NA	
86	Protective gas is substantially free from contaminants	x	NA	
87	Protective gas pressure and/or flow is adequate	x	NA	
88	Pressure and/or flow indicators, alarms and interlocks function correctly	x	NA	
89	Conditions of spark and particle barriers of ducts for exhausting the gas in hazardous area are satisfactory	x	NA	
90	Specific conditions of use (if applicable) are complied with		NA	
Extra Ex i (Intrinsically Safe – IS) checks				
91	Equipment has adequate circuit identification for ‘IS’ Installation	x	NA	
92	Cables are installed in accordance with the documentation	x	NA	
93	Segregation is maintained between IS and non-IS Circuits	x	NA	
94	Cable screens are isolated at one end (field side)	x	NA	
95	Cable screens are earthed in accordance with the documentation	x	NA	
96	Safety barrier units, relays and other energy limiting devices are of the approved type, installed in	x	NA	
97	Equipment installed is the one specified in the documentation	x	NA	
98	Ambient temperature range of the apparatus is correct for the installation	x	NA	
99	Service temperature range of the apparatus is correct for the installation	x	NA	
100	Installation is clearly labelled	x	NA	
101	Printed circuit boards are clean and undamaged	x	NA	
102	The maximum voltage Um of the associated apparatus is not exceeded	x	NA	
103	Point-to-point connections are all correct	x	NA	
104	Earth continuity is satisfactory (e.g. connections are tight, conductors are of sufficient cross-section)	x	NA	
105	Earth connections maintain the integrity of the type of protection	x	NA	
106	Intrinsically safe circuit earthing is satisfactory	x	NA	
107	Insulation resistance is satisfactory	x	NA	
108	Short-circuit protection of the power supply is in accordance with the documentation	x	NA	

	BARRIER:	**Manufacturer:**	NA	**Model:**	NA		
		Authority:	NA	**Cert No:**	NA	**Type:**	NA

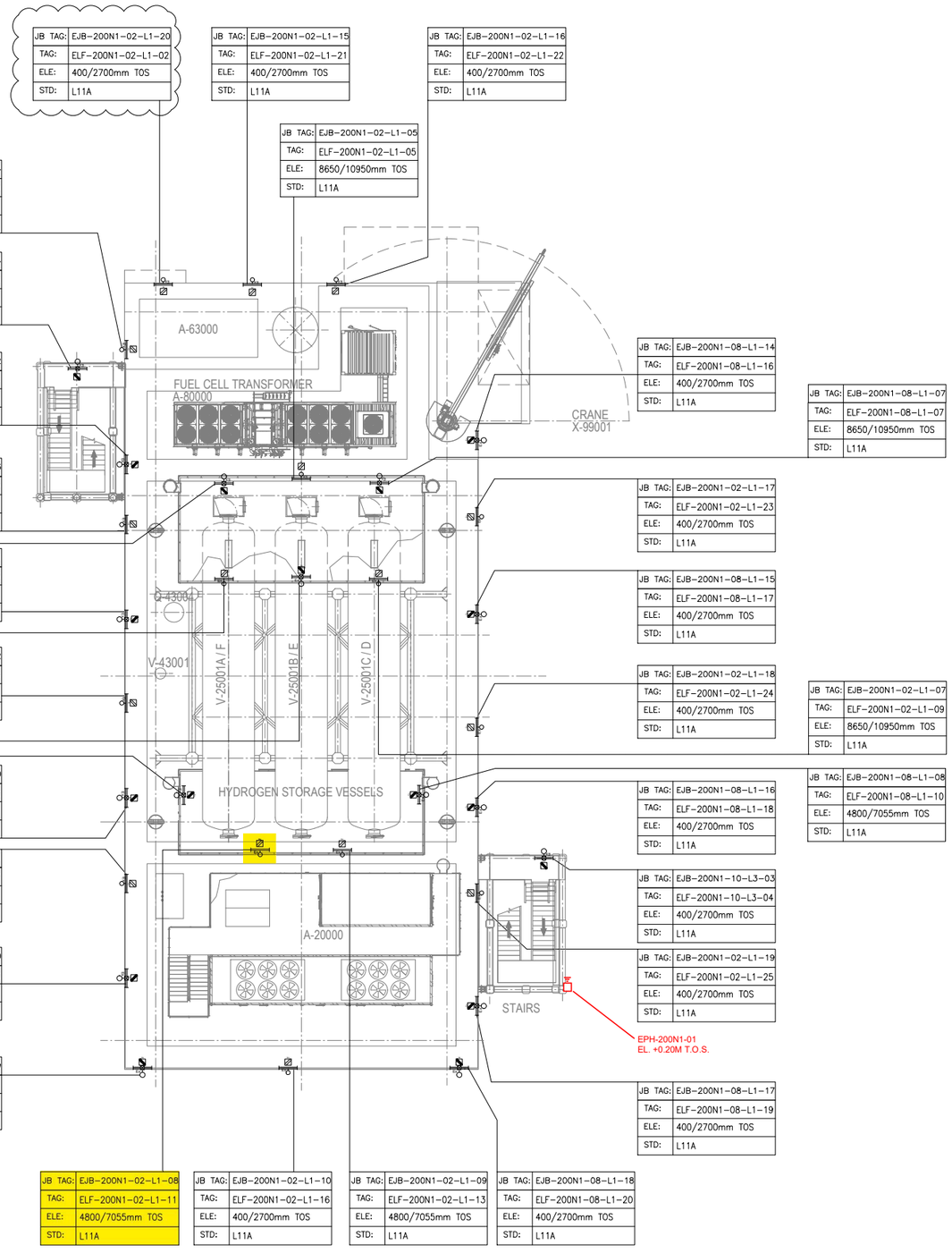
Remarks: Initial inspection should be detailed and carried out before equipment is brought into service as per IEC 60079-17

Please mark only one box as appropriate	
●	**Passed - Complete**
	Failed

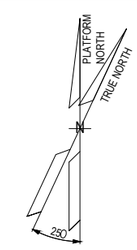
Page 3/3	Performed by	☐ WITNESS ☐ REVIEW	☐ WITNESS ☐ REVIEW
Company	ICS IMPIANTI	RM(ROSETTI MARINO)	
Name	Francesco Zucca	Luca Mussi	
Date	2024-12-28	2025-01-17	
Signature	PROVERLIS Digitaly signed by Francesco Zucca 2024-12-28T07:33:05.860Z	PROVERLIS Digitaly signed by Luca Mussi 2025-01-17T10:56:10.153Z	

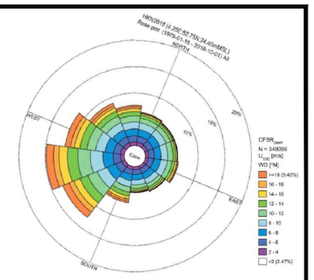
DRAWING NO. 123A90-DDL-EL-DL-20118

REV. 01



PLAN ON UPPER DECK
EL+30.310 T.O.S.





NOTES

1. ALL DIMENSIONS AND ELEVATIONS ARE GIVEN IN mm UNLESS OTHERWISE NOTED.
2. ELEVATIONS REFER TO T.O.S.
3. ELEVATION OF THE LAMPS ARE REFFERED TO THE BOTTOM OF THE LAMP.
4. FOR THE ELEVATION OF JB, REFER TO THE TYPICAL INSTALLATION.

LEGEND

- EMERGENCY LIGHTING JB
- 60W LED EMERGENCY LUMINARIES
- 60W LED EMERGENCY LUMINARIES FIXTURE POLE MOUNTED
- NORMAL LIGHTING JB
- 45W LED NORMAL LUMINARIES
- 45W LED NORMAL LUMINARIES FIXTURE POLE MOUNTED
- WELDING SOCKET WITH INTEGRATED JB
- SMALL POWER SOCKET WITH INTEGRATED JB
- TWILIGHT RELAY SENSOR

JB TAG:	JB-TAG
TAG:	TAG
ELE:	ELEVATION
STD:	STANDARD

VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DL-20118**

REV.:	DATE:	SIGNATURE:
1_B	22/10/24	G.Randi

ROSETTI MARINO SpA

REFERENCE DOCUMENTS

123A90-DDL-PP-DL-70070	PLOT PLAN - LOWER & UPPER DECK
123A90-DDL-EL-DL-20100	ELECTRICAL EQUIPMENT LAYOUT - TOP DECK
123A90-DDL-EL-DD-20091	ELECTRICAL TYPICAL INSTALLATION DETAILS - LIGHTING SYSTEM
123A90-DDL-EL-DD-20092	ELECTRICAL TYPICAL INSTALLATION DETAILS - POWER SYSTEM & CABLE INSTALLATION
123A90-DDL-EL-RE-20153	LIGHTING CALCULATION STUDY REPORT

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	02/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	28/05/24	ASR	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND | ROSETTI MARINO

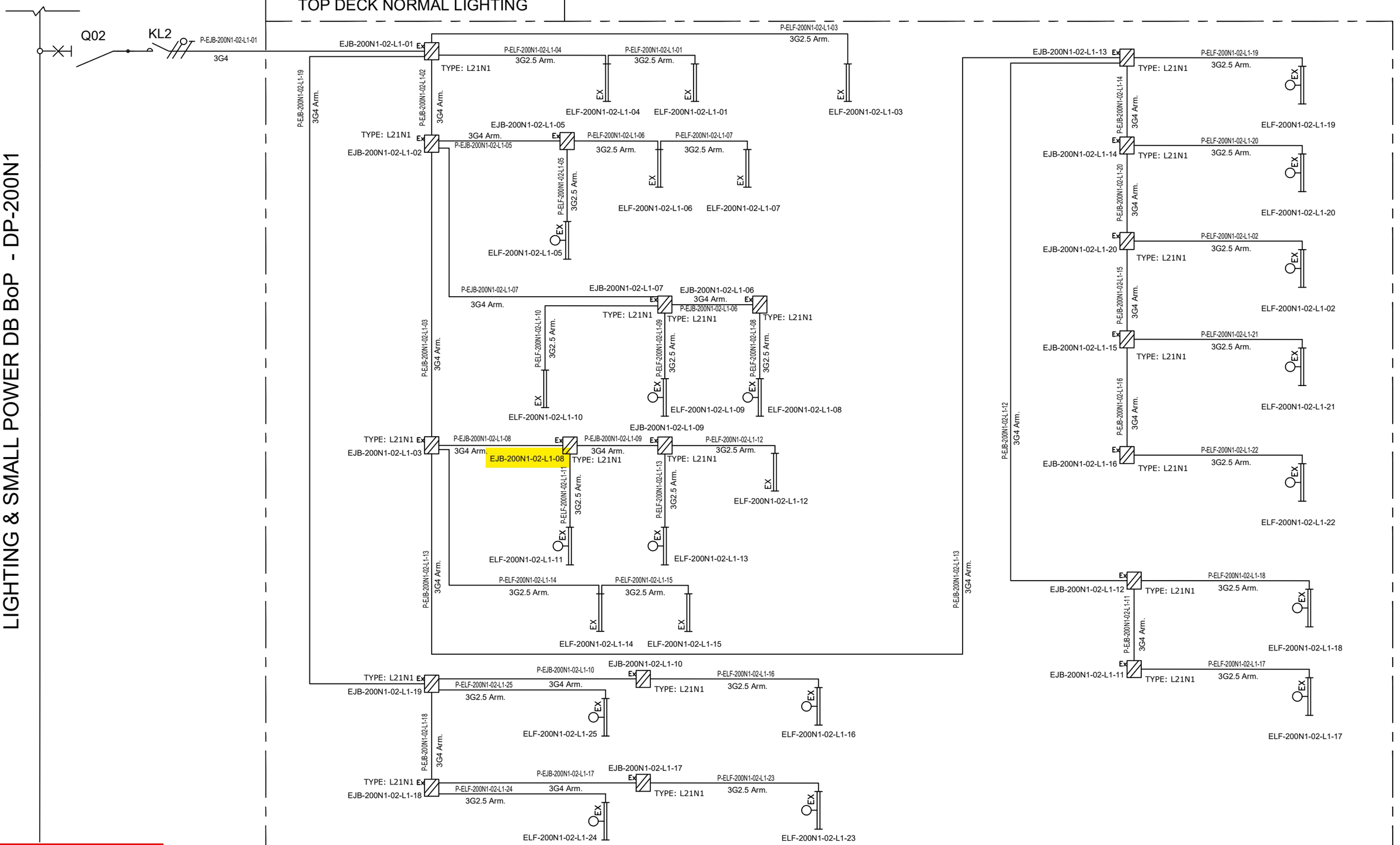
TITLE :
BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET LAYOUT – TOP DECK

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK			SCALE 1:150
DRAWN ASR	CHECKED FMA/AMA	APPROVED FPA/DLO	DATE 01/08/24
A1	DRAWING NO. 123A90-DDL-EL-DL-20118	SHEET 1of2	REV. 01

File Name : 123A90-DDL-EL-DL-20118

LIGHTING & SMALL POWER DB BoP - DP-200N1

TOP DECK NORMAL LIGHTING



VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DG-20125**

REV.:	DATE:	SIGNATURE:
2_C	20/12/24	V.Ramponi

ROSETTI MARINO SpA

CROSSWIND

ROSETTI MARINO

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	08/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	01/07/24	ASR	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

TITLE : BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET CIRCUIT DIAGRAM
TOP DECK–NORMAL LIGHTING

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE : NTS

A3

DRAWING NO. 123A90–DDL–EL–DG–20125

SHEET 010

REV. 01

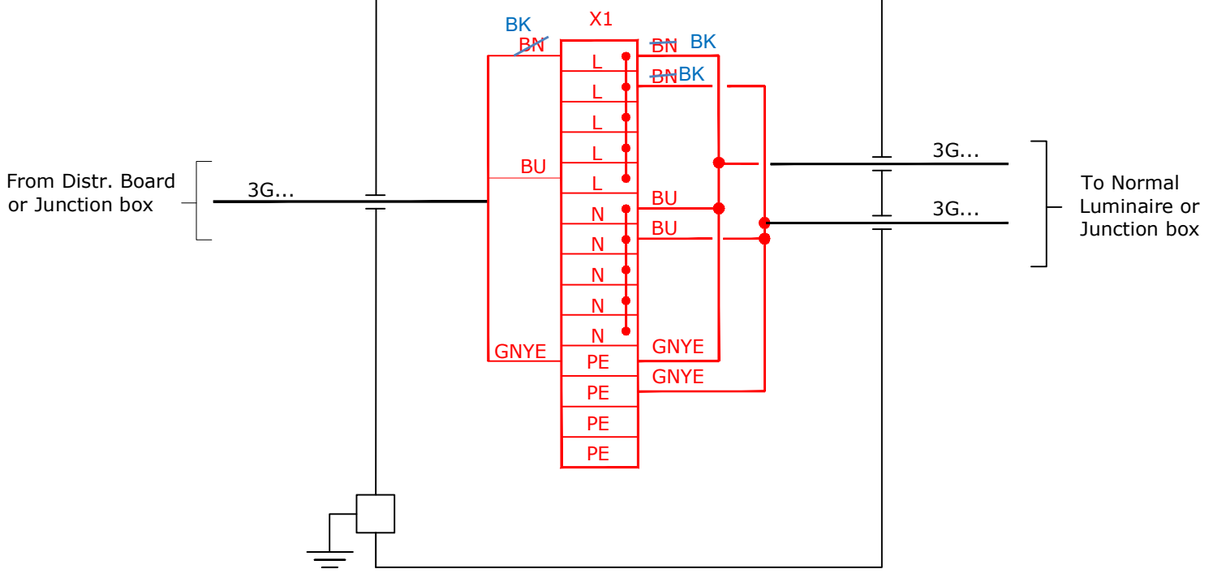
F.to UNI A3: 420mmx297mm

File Name : 123A90–DDL–EL–DG–20125

TYPE : L21N1 & L21N2

ITEM: NORMAL LIGHTING JUNCTION BOX

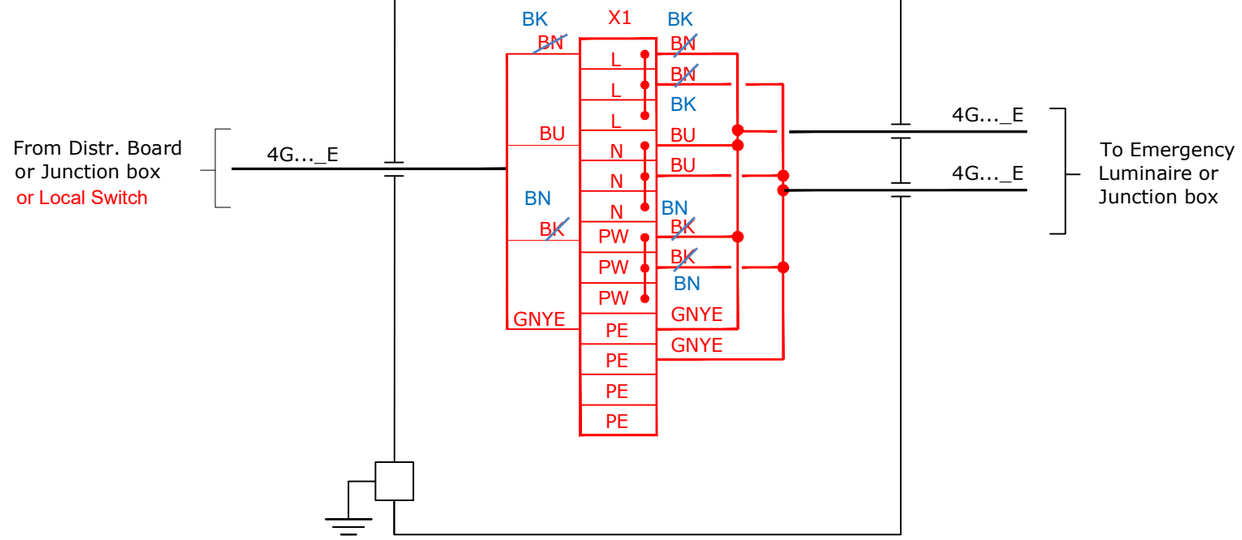
TAG : Typical



TYPE : L21E1 & L21E2

ITEM: EMERGENCY LIGHTING JUNCTION BOX

TAG : Typical



VALID FOR CONSTRUCTION

FDL DWG: **123A90-FDL-EL-DG-20125**

REV.:	DATE:	SIGNATURE:
2_C	20/12/24	V.Ramponi

ROSETTI MARINO SpA

CROSSWIND

ROSETTI MARINO

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	08/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)

TITLE : BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET CIRCUIT DIAGRAM
TYPICAL JB INTERCONNECTING DIAGRAM

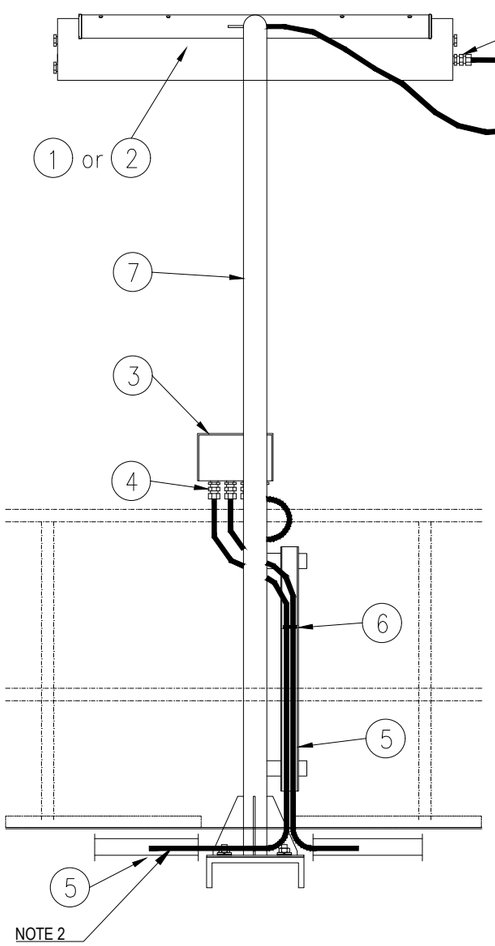
CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK | SCALE : NTS

A3	DRAWING NO.	SHEET	REV.
	123A90-DDL-EL-DG-20125	016	01

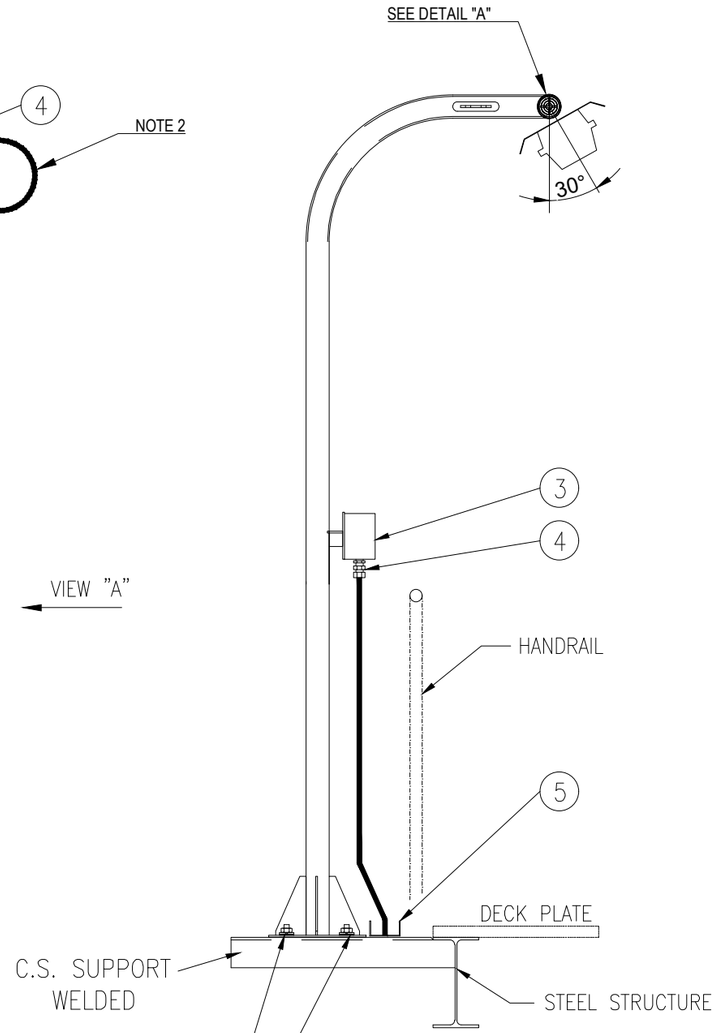
F.to UNI A3: 420mmx297mm

File Name : 123A90-DDL-EL-DG-20125

L11A

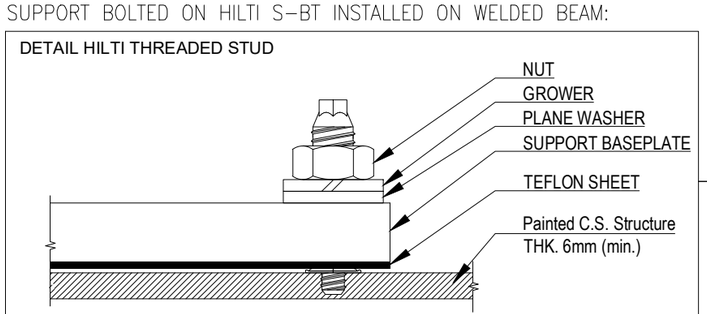


VIEW "A"

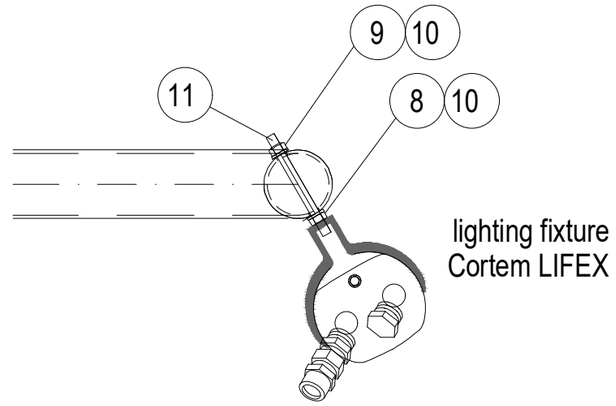


VIEW "A"

SUPPORT BOLTED ON HILTI S-BT INSTALLED ON WELDED BEAM:



POS.	DESCRIPTION	MATERIAL	SIZE	Q.TY	NOTE
1	42W LED LUMINARIES	ALUMINIUM ALLOY		1	
2	45W LED LUMINARIES C/W BATTERY	ALUMINIUM ALLOY		1	
3	JUNCTION BOX (Ex)	GRP		1	NOTE 1
4	CABLE GLAND ~~C/W EARTH TAG,~~ WASHERS, LOCKNUT AND WEATHERPROOF WASHERS	BRASS NICKEL PLATED		AS REQ.	
5	CABLE TRAY	AISI 316L			
6	STAINLESS STEEL NYLON COATED CABLE TIE	SS NYLON COATED			
7	POLE SUPPORT FOR LAMP	AISI 316L	2"		
8	NUT	AISI 316L	M8		
9	SELF.LOCKING NUT	AISI 316L	M8		
10	LARGE PLANE WASHER (24mm DIAM.)	AISI 316L	M8		
11	THREADED ROD M8x100	AISI 316L	M8		



DETAIL "A"

VALID FOR CONSTRUCTION

REV.:	DATE:	SIGNATURE:
2_B	12/12/24	C.Pilato

ROSETTI MARINO SpA

NOTES:

1) FOR LAMPS IN HAZARDOUS AREA, USE ARMOURED CABLE, DOUBLE SEAL CABLE GLAND AND EX JUNCTION BOX.

2) ALWAYS ENSURE CABLE LENGTH IS >3m

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	30/09/24	GRA	AMA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	04/07/24	NLK	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	21/11/23	SPS	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

02

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL TYPICAL INSTALLATION DETAILS-LIGHTING SYSTEM
LIGHTING FIXTURE MOUNTED ON POLE

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE : NTS

A3

DRAWING NO. 123A90-DDL-EL-DD-20091

SHEET 014

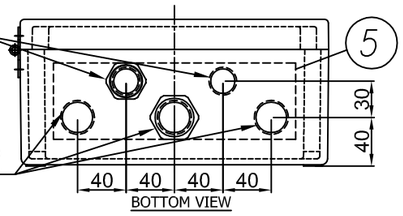
REV. 02

F.to UNI A3: 420mmx297mm

File Name : 123A90-DDL-EL-DD-20091 REV.02.DWG

(10)(4) N°2 PASSING HOLES Ø20.2
C/W N°1 BNK PLUG M20 +
N°1 DUSTPROOF PVC PLUG

(3)(3) N°3 PASSING HOLES Ø25.2
C/W N°1 BNK PLUG M25 +
N°2 DUSTPROOF PVC PLUG



BOTTOM VIEW

(8) I2400722-B015I00029809

TECHNOR ITALSMEA
A COMPANY OF MARECHAL ELECTRIC
Via Italia 33 - 20060 Cassano (MI) ITALY

CE 0080 Ex II 2G II 2D
FIDI 21ATEX 0090X
IECEx FIDI 21.0015X
Year of construction:

MADE IN ITALY

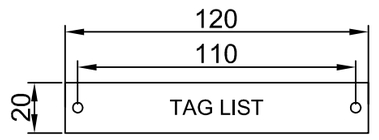
TYPE: AQ-252612P
230VAC 50Hz 20A
Max Dis. P. 6W

Ex eb IIC T6 Gb
Ex tb IIIC T85°C Db
IP66
T.amb. -20/+40°C
Serial Nr.

WARNINGS : DO NOT OPEN WHEN ENERGIZED

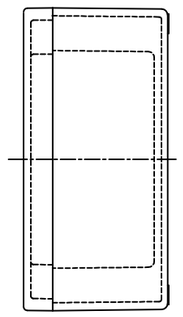
A002MAX

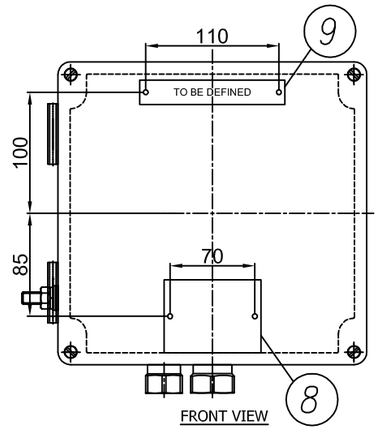
(9) PLATE DETAIL



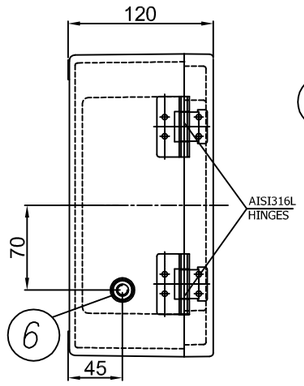
MATERIAL: LAMINATED PLASTIC
BACKGROUND: WHITE
LETTERS: BLACK

(7) Terminals numbered: NOTE 1

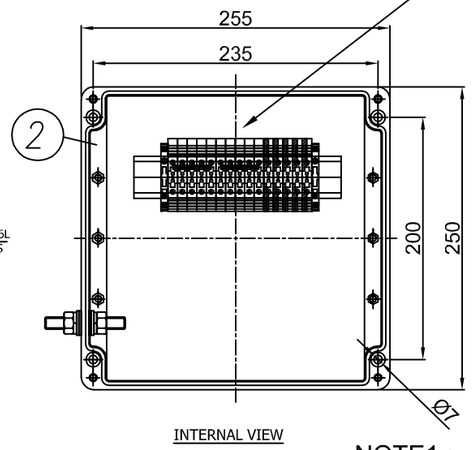

RIGHT VIEW



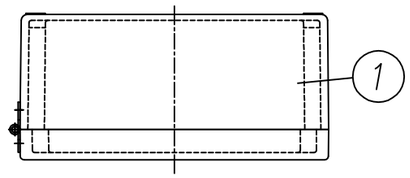
FRONT VIEW



LEFT VIEW



INTERNAL VIEW



TOP VIEW

NOTE1 :
- JB for Normal Lighting have terminals bridge: L-L-L-L-L, N-N-N-N-N, PE-PE-PE-PE-PE - JB for Emergency Lighting have terminals bridge: L-L-L, N-N-N, PW-PW-PW, PE-PE-PE-PE-PE

ITEM	DESCRIPTION	Pcs Q.TY	NOTE/MAT.	CODE	MANUFACTURER
11	DUSTPROOF PVC PLUG Ø25	2	–	.	TECHNOR ITALSMEA
10	DUSTPROOF PVC PLUG Ø20	1	–	.	TECHNOR ITALSMEA
9	LAMINATED PLASTIC TAG 120X20	1	–	.	TECHNOR ITALSMEA
8	AISI316L CERTIFICATE PLATE 80X60	1	–	.	TECHNOR ITALSMEA
7	BEIGE TERMINAL BLOCK SIZE 6 SQMM EARTH TERMINAL BLOCK SIZE 6 SQMM	10 5	WDU–6 WPE–6	.	WEIDMULLER
6	AISI316L INT/EXT EARTH BOLT M10	1	BTP–10	.	TECHNOR ITALSMEA
5	BRASS CONTINUITY PLATE THK. 0.8 MM	1	–	.	TECHNOR ITALSMEA
4	NICKEL PLATED BRASS PLUG M20	1	T20	.	TECHNOR ITALSMEA
3	NICKEL PLATED BRASS PLUG M25	1	T25	.	TECHNOR ITALSMEA
2	INTERNAL MOUNTING PLATE	1	PS–2526	.	TECHNOR ITALSMEA
1	GRP ENCLOSURE	1	AQ–252612P	.	TECHNOR ITALSMEA

-UNPAINTED (BLACK NATURAL)
Q.TY 92, ITEM 20: 2JBXXGPEE, ELEJB02

Explosion Proof
Electrical Equipment
Materiali Elettrici Antideflagranti
TECHNOR ITALSMEA
A COMPANY OF MARECHAL ELECTRIC

CROSSWIND

ROSETTI MARINO

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
05	20/12/24	FB	OB	OB	ACCEPTED FOR CONSTRUCTION (AFC)
04	26/11/24	FB	OB	OB	ACCEPTED FOR CONSTRUCTION (AFC)
03	25/10/24	FB	OB	OB	ACCEPTED FOR CONSTRUCTION (AFC)
02	12/09/24	FB	OB	OB	ACCEPTED FOR CONSTRUCTION (AFC)
01	03/09/24	FB	OB	OB	ACCEPTED FOR CONSTRUCTION (AFC)
00	30/07/24	FB	OB	OB	ISSUE FOR REVIEW (IFR)

TITLE : BASE LOAD POWER HUB (BLPH)

Junction Box for Normal & Emergency Lighting

CONTRACT NO./TITLE CW–I–WP4–2023–05/HOLLANDSE KUST NOORD WIND PARK | SCALE : NTS

A3 | DRAWING NO. 1724001481–EL–DA–00003 | SHEET 004 | REV. 05

F.to UNI A3: 420mmx297mm

File Name : 1724001481–EL–DA–00003 Rev. 01

ENCLOSURE N°	TAG LIST	NORMAL LIGHTING	EMERGENCY LIGHTING
1	EJB-200N1-03-L2-04	X	
2	EJB-200N1-03-L2-03	X	
3	EJB-200N1-03-L2-01	X	
4	EJB-200N1-03-L2-02	X	
5	EJB-200N1-03-L2-12	X	
6	EJB-200N1-03-L2-11	X	
7	EJB-200N1-03-L2-10	X	
8	EJB-200N1-03-L2-09	X	
9	EJB-200N1-03-L2-08	X	
10	EJB-200N1-03-L2-07	X	
11	EJB-200N1-03-L2-06	X	
12	EJB-200N1-03-L2-05	X	
13	EJB-200N1-03-L2-14	X	
14	EJB-200N1-03-L2-13		X
15	EJB-200N1-09-L2-17		X
16	EJB-200N1-09-L2-01		X
17	EJB-200N1-09-L2-04		X
18	SPARE (TO BE PROVIDED BLANK)		X
19	EJB-200N1-09-L2-02		X
20	EJB-200N1-09-L2-15		X
21	EJB-200N1-09-L2-14		X
22	EJB-200N1-09-L2-13		X
23	EJB-200N1-09-L2-12		X
24	EJB-200N1-09-L2-11		X
25	EJB-200N1-09-L2-10		X
26	EJB-200N1-09-L2-09		X
27	EJB-200N1-09-L2-08		X
28	EJB-200N1-09-L2-07		X
29	EJB-200N1-09-L2-06		X
30	EJB-200N1-09-L2-05		X
31	EJB-200N1-09-L2-16	X	
32	EJB-200N1-04-L3-01	X	
33	EJB-200N1-04-L3-02	X	
34	EJB-200N1-10-L3-05		X
35	EJB-200N1-10-L3-06		X
36	EJB-200N1-10-L3-07		X
37	EJB-200N1-10-L3-08		X
38	EJB-200N1-10-L3-09		X
39	EJB-200N1-10-L3-02		X
40	EJB-200N1-10-L3-01		X
41	EJB-200N1-10-L3-03		X
42	EJB-200N1-10-L3-04		X
43	EJB-200N1-02-L1-03	X	
44	EJB-200N1-02-L1-02	X	
45	EJB-200N1-02-L1-01	X	
46	SPARE (TO BE PROVIDED BLANK)	X	
47	EJB-200N1-02-L1-10	X	
48	EJB-200N1-02-L1-19	X	
49	EJB-200N1-02-L1-18	X	

ENCLOSURE N°	TAG LIST	NORMAL LIGHTING	EMERGENCY LIGHTING
50	EJB-200N1-02-L1-17	X	
51	EJB-200N1-02-L1-16	X	
52	EJB-200N1-02-L1-15	X	
53	EJB-200N1-02-L1-14	X	
54	EJB-200N1-02-L1-13	X	
55	EJB-200N1-02-L1-12	X	
56	EJB-200N1-02-L1-11	X	
57	EJB-200N1-02-L1-06	X	
58	EJB-200N1-02-L1-05	X	
59	EJB-200N1-02-L1-07	X	
60	EJB-200N1-02-L1-08	X	
61	EJB-200N1-02-L1-09	X	
62	EJB-200N1-08-L1-03		X
63	SPARE (TO BE PROVIDED BLANK)		X
64	EJB-200N1-08-L1-01		X
65	EJB-200N1-08-L1-04		X
66	EJB-200N1-08-L1-19		X
67	EJB-200N1-08-L1-18		X
68	EJB-200N1-08-L1-17		X
69	EJB-200N1-08-L1-16		X
70	EJB-200N1-08-L1-15		X
71	EJB-200N1-08-L1-14		X
72	EJB-200N1-02-L1-20	X	
73	EJB-200N1-08-L1-12		X
74	EJB-200N1-08-L1-11		X
75	EJB-200N1-08-L1-10		X
76	EJB-200N1-08-L1-20		X
77	EJB-200N1-08-L1-05		X
78	EJB-200N1-08-L1-06		X
79	EJB-200N1-08-L1-07		X
80	EJB-200N1-08-L1-09		X
81	EJB-200N1-08-L1-08		X
82	EJB-200F2-01	X	
83	EJB-200F2-02	X	
84	SPARE (TO BE PROVIDED BLANK)	X	
85	SPARE (TO BE PROVIDED BLANK)	X	
86	SPARE (TO BE PROVIDED BLANK)	X	
87	SPARE (TO BE PROVIDED BLANK)	X	
88	SPARE (TO BE PROVIDED BLANK)	X	
89	SPARE (TO BE PROVIDED BLANK)		X
90	SPARE (TO BE PROVIDED BLANK)		X
91	SPARE (TO BE PROVIDED BLANK)		X
92	SPARE (TO BE PROVIDED BLANK)		X

Q.TY 92, ITEM 20: 2JBXXGPEE, ELEJB02

Explosion Proof
Electrical Equipment
Materiali Elettrici Antideflagranti

TECHNOR ITALSMEA
A COMPANY OF MARECHAL ELECTRIC

CROSSWIND

ROSETTI MARINO

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
05	20/12/24	FB	OB	OB	ACCEPTED FOR CONSTRUCTION (AFC)
04	26/11/24	FB	OB	OB	ACCEPTED FOR CONSTRUCTION (AFC)
03	25/10/24	FB	OB	OB	ACCEPTED FOR CONSTRUCTION (AFC)
02	12/09/24	FB	OB	OB	ACCEPTED FOR CONSTRUCTION (AFC)
01	03/09/24	FB	OB	OB	ACCEPTED FOR CONSTRUCTION (AFC)
00	30/07/24	FB	OB	OB	ISSUE FOR REVIEW (IFR)

TITLE : BASE LOAD POWER HUB (BLPH)

Junction Box for Normal & Emergency Lighting–Tag List

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE : NTS

A3

DRAWING NO. 1724001481-EL-DA-00003

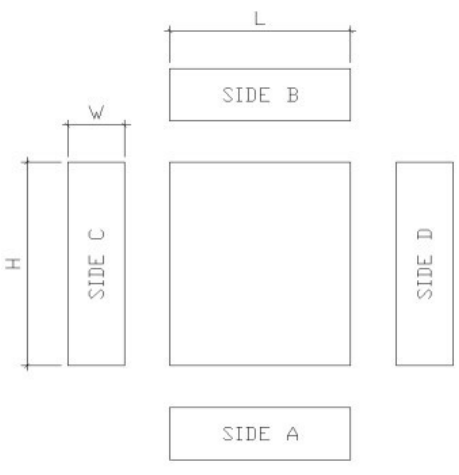
SHEET 005

REV. 05

F.to UNI A3: 420mmx297mm

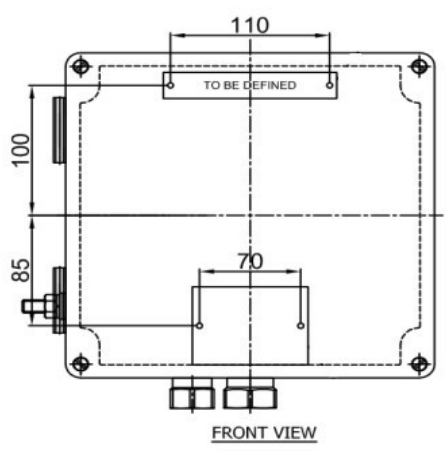
File Name : 1724001481-EL-DA-00003 Rev. 01

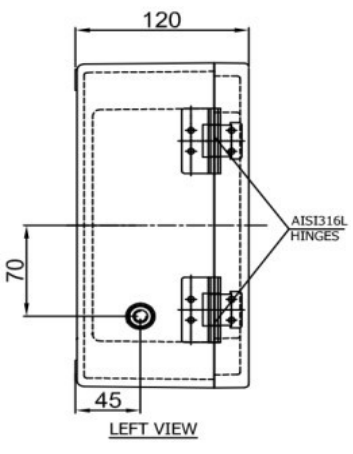
Row	Data Sheet for Control Stations, Junction Boxes and Sockets				Rev.
1	Junction Box for Normal & Emergency Lighting (Exdb)				
2	Item	Required	Manufacturer Proposal	Comments	
3	Model Number	by Vendor	AQ-252612P		01
4	Serial Number	by Vendor	B011041010004		01
5	Quantity	43+5(spare)		(39+9 spare)	01
6	Appkication	Lighting pole JB/Lighting JB			00
7	**Installation area**				
8	Indoor/Outdoor	Outdoor			00
9	Safe Area/Hazardous Area	Hazardous area			00
10	Zone 1/Zone 2	Zone-1			00
11	Temp. Class	Zone 1 Gas Group IIC (or) IIB + H2, T1	Ex eb IIC, T6 Gb		01
12	**Electrical input data**				
13	Voltage	230 V ac	230 V ac		01
14	Number of Phases	1ph + N + PE			00
15	**Material**				
16	Body	GRP	GRP		01
17	Execution	Ex eb	Ex eb		00
18	Protection Degree	IP56	IP 66		01
19	**Accessories**				
20	Hinged Cover	Required	AISI316L Hinges		01
21	Gasket	Required			00
22	Removable Gland Plates	Required	Brass Continuity plate 0.8mm thick		01
23	Internal Mounting Plate	Thickness 3mm threaded		connected to Internal ground bar	00
24	Internal Ground Bar	Required		connected to earth stud	00
25	Earth Stud	Required			00
26	Drainage Valve	Required			00
27	Pad lockable Cover	Required			00
28	Identification Label	Trafolite/ Stainless Steel	Laminated Plastic	for all label	01
29	**Side 'A'**				
30	Hubs Qty.	5	5		01
31	Size	No.3 M25, No.2 M20	No.3 Ø 25.2 mm, No.2 Ø 20.2 mm		01
32	Thread	ISO-M			00
33	Plug	No. 1 M20, No.1 M25	No. 1 Ø 20.2 mm, No.1 Ø 25.2 mm	nickel-plated brass	01
34	**Side 'B'**				
35	Hubs Qty.	Not Required			00
36	Size	NA			00
37	Thread	NA			00
38	**Side 'C'**				
39	Hubs Qty.	Not Required			00
40	Size	NA			00
41	Thread	NA			00
42	**Side 'D'**				
43	Hubs Qty.	Not Required			00
44	Size	NA			00
45	Thread	NA			00
46	**Terminals**				
47	Size [mm^2]	Suitable for 6 Sq.mm & 2.5 Sq.mm Cable	M25 & M20	suitable with wire-end ferrules DIN 46228	01
48	Qty.	n°5 for Ph // n°5 for N // n°5 for PE	n°5 for Ph // n°5 for N // n°5 for PE	Ex - jumpered	01
49	**Bonding Cable (yellow/Green)**				
50	Size [mm^2]	by vendor		6 mm^2	01
51	Qty.	Min. 0.15m			00
52	**Dimension**				
53	Height 'H' [mm]	by vendor	120 mm		01
54	Width 'W' [mm]	by vendor	250 mm		01
55	Length 'L' [mm]	by vendor	255 mm		01
56	Weight [Kg]	by vendor	2.65 Kg		01
57	JB Code (*)	Remarks			
58					



NOTES:

(*) Filled by Vendor





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Tag Number	Tag Description	Location	P.O.	Vendor	Manufacturer	Serial Number	Model Type Catalogue Number	Installation Zone	ATEX Certificate Number	Reference Document	ATEX Certification Marking	Notes / Comments	Skid / Package	Electrical Equip.	Barrier Calculation Ref.	Special Conditions of Safe Use Applicable	3D Location
CB-200F4B	AC UPS F&G - Battery Isolator-B	CONTAINER B-300 (LOWER DECK)	1724000372	3W Power	Cortem Spa		EJBC	Zone 1	EPT 20 ATEX 4075X	1724000372-EL-DG-00011	II 2GDEx db IIC T6 Gb Ex tb IIIC T 85°C Db	-	N/A	True	N/A	False	
EAT-200N1-01	Trace Heating - Remote Ambient Thermostat	LOWER DECK	1724001647	nVent	nVent	1244-022663	ETS-05-A2-E-A	Zone 1	Baseefa 13ATEX0137	1724001647-EL-DD-00004	II 2(1)G Ex eb ia mb [ia Ga] IIC T5 Gb - 40ºC ≤ Ta ≤ +60ºC II 2D Ex tb IIIC T100ºC Db	-	N/A	True	N/A	False	
EHT-1001-A	Self-regulating heat cable	LOWER DECK	1724001647	nVent	nVent	469145-000	3BTV2-CT	Zone 1	SGS20ATEX0048X	1724001647-EL-DD-00004	II 2 GD Ex 60079-30-1 eb IIC T6 Gb	-	N/A	True	N/A	True	
EHT-1002-A	Self-regulating heat cable	LOWER DECK	1724001647	nVent	nVent	469145-000	3BTV2-CT	Zone 1	SGS20ATEX0048X	1724001647-EL-DD-00004	II 2 GD Ex 60079-30-1 eb IIC T6 Gb	-	N/A	True	N/A	True	
EHT-1003-A	Self-regulating heat cable	LOWER DECK	1724001647	nVent	nVent	469145-000	3BTV2-CT	Zone 1	SGS20ATEX0048X	1724001647-EL-DD-00004	II 2 GD Ex 60079-30-1 eb IIC T6 Gb	-	N/A	True	N/A	True	
EHT-1004-A	Self-regulating heat cable	UPPER DECK	1724001647	nVent	nVent	469145-000	3BTV2-CT	Zone 1	SGS20ATEX0048X	1724001647-EL-DD-00004	II 2 GD Ex 60079-30-1 eb IIC T6 Gb	-	N/A	True	N/A	True	
EHT-1004-B	Self-regulating heat cable	UPPER DECK	1724001647	nVent	nVent	469145-000	3BTV2-CT	Zone 1	SGS20ATEX0048X	1724001647-EL-DD-00004	II 2 GD Ex 60079-30-1 eb IIC T6 Gb	-	N/A	True	N/A	True	
EHT-1005-A	Self-regulating heat cable	UPPER DECK	1724001647	nVent	nVent	469145-000	3BTV2-CT	Zone 1	SGS20ATEX0048X	1724001647-EL-DD-00004	II 2 GD Ex 60079-30-1 eb IIC T6 Gb	-	N/A	True	N/A	True	
EHT-1006-A	Self-regulating heat cable	UPPER DECK	1724001647	nVent	nVent	469145-000	3BTV2-CT	Zone 1	SGS20ATEX0048X	1724001647-EL-DD-00004	II 2 GD Ex 60079-30-1 eb IIC T6 Gb	-	N/A	True	N/A	True	
EHT-1007-A	Self-regulating heat cable	LOWER DECK	1724001647	nVent	nVent	469145-000	3BTV2-CT	Zone 1	SGS20ATEX0048X	1724001647-EL-DD-00004	II 2 GD Ex 60079-30-1 eb IIC T6 Gb	-	N/A	True	N/A	True	
EHT-2002-A	Self-regulating heat cable	UPPER DECK	1724001647	nVent	nVent	469145-000	3BTV2-CT	Zone 1	SGS20ATEX0048X	1724001647-EL-DD-00004	II 2 GD Ex 60079-30-1 eb IIC T6 Gb	-	N/A	True	N/A	True	
EJB-200F2-01	Top Obstruction Lights Junction Box	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990082	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	HAZARDOUS-AREA_8 HAZARDOUS-AREA_3
EJB-200F2-02	Intermediate obstruction lights junction box	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990083	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	HAZARDOUS-AREA_4
EJB-200N1-02-L1-01	Normal Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990045	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-02-L1-02	Normal Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990044	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-02-L1-03	Normal Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990043	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	HAZARDOUS-AREA_3
EJB-200N1-02-L1-05	Normal Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990058	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-02-L1-06	Normal Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990057	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-02-L1-07	Normal Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990059	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-02-L1-08	Normal Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990060	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-02-L1-09	Normal Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990061	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-02-L1-10	Normal Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990047	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-02-L1-11	Normal Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990056	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-02-L1-12	Normal Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990055	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-02-L1-13	Normal Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990054	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-02-L1-14	Normal Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990053	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-02-L1-15	Normal Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990052	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-02-L1-16	Normal Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990051	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-02-L1-17	Normal Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990050	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-02-L1-18	Normal Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990049	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-02-L1-19	Normal Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990048	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-02-L1-20	Normal Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990072	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-03-L2-01	Normal Lighting JB	LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990003	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-03-L2-02	Normal Lighting JB	LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990004	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-03-L2-03	Normal Lighting JB	LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990002	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-03-L2-04	Normal Lighting JB	LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990001	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-03-L2-05	Normal Lighting JB	LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990012	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-03-L2-06	Normal Lighting JB	LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990011	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-03-L2-07	Normal Lighting JB	LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990010	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-03-L2-08	Normal Lighting JB	LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990009	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-03-L2-09	Normal Lighting JB	LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990008	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-03-L2-10	Normal Lighting JB	LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990007	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-03-L2-11	Normal Lighting JB	LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990006	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-03-L2-12	Normal Lighting JB	LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990005	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-03-L2-13	Normal Lighting JB	LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990014	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-03-L2-14	Normal Lighting JB	LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990013	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-04-L3-01	Stair Normal Lighting JB	LOWER DECK STAIRS	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990032	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-04-L3-02	Stair Normal Lighting JB	LOWER DECK STAIRS	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990033	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-08-L1-01	Emergency Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990064	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-08-L1-03	Emergency Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990062	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	HAZARDOUS-AREA_3
EJB-200N1-08-L1-04	Emergency Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990065	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-08-L1-05	Emergency Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990077	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-08-L1-06	Emergency Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990078	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	

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[1] # EU – TYPE EXAMINATION CERTIFICATE

[2] Equipment or Protective Systems Intended for use in Potentially Explosive Atmospheres Directive 2014/34/EU.

[3] EU-Type Examination Certificate Number: **FIDI 21 ATEX 0090X** Issue: **1**

[4] Product: **Junction boxes, local control stations and local control panels**

Type: **AQ-***P / AQ-***AL / AR-***P / AR-***AL**
AQ-*P-HT / AQ-***AL-HT / AR-***P-HT / AR-***AL-HT**
SB-* / ST-***
EFE-* / EFXE-*** AL / EFXE-***SB / EFXE-***ST**
EFE-*-HT / EFXE-***AL-HT**

[5] Manufacturer: **Technor Italsmea S.p.A.**

[6] Address: **Via Italia 33, 20060 Gessate (MI), Italy**

[7] This product and any acceptable variation thereto is specified in the schedule to this certificate and documents therein referred to.

[8] FIDITAS Ltd., Notified Body number 2829 in accordance with Article 17 of Directive 2014/34/EU of the European Parliament and of the Council, dated 26 February 2014, certifies that this product has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of products intended for use in potentially explosive atmospheres given in Annex II of the Directive.

The examination and test results are recorded in confidential Report No: **FIDI 21 CR 075**

[9] Compliance with the Essential Health and Safety Requirements has been assured by compliance with:

EN IEC 60079-0:2018	**EN 60079-1:2014**	**EN IEC 60079-7:2015 / A1:2018**
EN 60079-11:2012	**EN 60079-18:2015/A1:2017**	**EN 60079-31:2014**

except in respect of those requirements listed at item 18 of the Schedule.

[10] If the sign 'X' is placed after the certificate number, it indicates that the product is subject to Specific Conditions of Use specified in the schedule to this certificate.

[11] This EU-Type Examination Certificate relates only to the design, examination and test of the specified product in accordance with Annex III. Further requirements of the Directive apply to the manufacturing process and supply of this products. These are not covered by this certificate.

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[12] The marking of the product shall include the following:



II 1 G	**Ex ia IIC/IIB T6...T4 Ga**(2) or
II 2(1) G or **II 2(2) G**	**Ex db eb ia/ib mb [**(3)**] IIC/IIB T6...T4 Gb**(1) or
II 2 G	**Ex eb IIC/IIB T6...T4 Gb**(1) or
II 2 D	**Ex tb IIIC T85°C...T135°C Db**

(1) Others type of protection additional to 'eb' depending to the components actually mounted.

(2) In case of enclosures containing 'eb' terminals and/or 'ia Ga' already certified components (with compatible marking) only.

(3) Associated equipment protection depending on the components actually mounted (see lists): e.g. [ia/ib/ia Ga/ia IIIC Da] and/or [ia IIIC Da] or [ia/ib/ia Ga/ia IIIC Da] and/or [ia/ib/ia Ga] [ia IIIC Da]

Our ref.: 21.CRT.400

Date: 23. 12.2021.

Fiditas d.o.o. ZAGREB

FIDITAS Ltd.
Certification department
Approved:

Marino Kelava, M.E.Eng.

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[13] **SCHEDULE**

[14] **EU - TYPE EXAMINATION CERTIFICATE No.:** **FIDI 21 ATEX 0090X**

[15] **Description of product**

Junction boxes, local control stations and local control panels are made of 'eb' and 'tb' enclosures in stainless steel, aluminium alloy or glass fiber reinforced polyester resin, of various dimensions, which shall house 'eb' and/or 'ia/ib' terminals and/or Ex components or Ex equipment made in different type of Ex protection. All Ex terminals, Ex components and Ex equipment are covered by their own ATEX certificates.

The terminals and components are be used according to data available in related component certificates, in relevant temperature range, voltage and current limitations. The terminals must be fitted in accordance with EN IEC 60079-0 and EN IEC 60079-7 with regards to creepage and clearance distances, and according to related safety instructions.

The cover is fixed to the body with screw, between body and cover a gasket guarantee the protection degree IP66 (IP66/67 depending on models). The cover of stainless-steel enclosure can be also fixed the body with looking devices, between body and cover a gasket guarantee the protection degree IP66. The IP degree of junction boxes, local control stations and local control panels depend on the components actually mounted. The walls and the bottom of the boxes can be drilled and taped with maximum size and maximum number of holes as specified in the manufacturer documents.

The cable glands or plugs, with separate ATEX certificate, made in type of protection 'eb' and/or 'tb' with appropriate IP protection are mounted according to related manufacturer's installation instructions. Each enclosure is provided with internal earthing certified terminal or earthing screw or bolt. Metal enclosures are provided by external earthing screw or bolt. Metal and polyester enclosures can be provided by passing through earthing terminals.

All enclosures can be provided by:
- Externally installed accessories as specified in manufacturer documents,
- Drain breath device type ECR3, included in this certificate,
- Internal/external earthing plate.

Model identification

Junction boxes

A(1)-(2) (3) (4) (5) (6)	(1) –	**Q**: Square size **R**: Rectangular size
	(2) (3) (4)	dimension, in cm
	(5)	Material **P**: Glass fiber reinforced polyester resin **AL**: Aluminium Alloy
	(6)	None: up to internal temperature of 105°C **HT**: up to internal temperature of 130°C
SB- (2) (3) (4)	(2) (3) (4)	dimension, in cm
ST- (2) (3) (4)	(2) (3) (4)	dimension, in cm

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Panel boards

EFE- (2) (3) (4) (6)	(2) (3) (4)	dimension, in cm
	(6)	None: up to internal temperature of 105°C **HT**: up to internal temperature of 130°C
EFXE- (2) (3) (4) (5) (6)	(2) (3) (4)	dimension, in cm
		Material
	(5)	**SB** or **ST**: stainless steel **AL**: Aluminium Alloy
	(6)	None: up to internal temperature of 105°C **HT**: up to internal temperature of 130°C

Technical data:

Electrical data:	According to Ex component to actually installed
Ambient temperature:	-50°C ÷ +95°C Other possible ranges are with: - min temperature: -50°C to -20 °C - max temperature of +40 °C to +95 °C
Mechanical protection:	IP66/IP67 depending on models IP66 without swing handle element IP55 with swing handle element

Temperature class and/or maximum surface temperature of any junction box or control panel depend on ambient temperature and internal power dissipation. The values that must be observed are given in relevant tables in this certificate.

For commercial reasons model name listed in the tables below can be modified as follows: first (2) and second (3) pair of digits can be reversed.

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Model sizes

Polyester High Temperature		Aluminium High Temperature	
AQ-080806P-HT	EFE-080806-HT	AQ-080806AL-HT	EFXE-080806AL-HT
AQ-080808P-HT	EFE-080808-HT	AR-081306AL-HT	EFXE-081306AL-HT
AR-081106P-HT	EFE-081106-HT	AR-081806AL-HT	EFXE-081806AL-HT
AR-081108P-HT	EFE-081108-HT	AR-082505AL-HT	EFXE-082505AL-HT
AR-081606P-HT	EFE-081606-HT	AQ-101008AL-HT	EFXE-101008AL-HT
AR-081608P-HT	EFE-081608-HT	AR-101608AL-HT	EFXE-101608AL-HT
AR-081906P-HT	EFE-081906-HT	AR-102008AL-HT	EFXE-102008AL-HT
AR-081908P-HT	EFE-081908-HT	AQ-121208AL-HT	EFXE-121208AL-HT
AR-082306P-HT	EFE-082306-HT	AQ-121209AL-HT	EFXE-121209AL-HT
AR-082308P-HT	EFE-082308-HT	AR-122208AL-HT	EFXE-122208AL-HT
AQ-121209P-HT	EFE-121209-HT	AR-122209AL-HT	EFXE-122209AL-HT
AR-122209P-HT	EFE-122209-HT	AR-123608AL-HT	EFXE-123608AL-HT
AQ-161609P-HT	EFE-161609-HT	AQ-141409AL-HT	EFXE-141409AL-HT
AR-162609P-HT	EFE-162609-HT	AR-142009AL-HT	EFXE-142009AL-HT
AR-163609P-HT	EFE-163609-HT	AQ-161609AL-HT	EFXE-161609AL-HT
AR-165609P-HT	EFE-165609-HT	AR-162609AL-HT	EFXE-162609AL-HT
AQ-202017P-HT	EFE-202017-HT	AR-163609AL-HT	EFXE-163609AL-HT
AR-203017P-HT	EFE-203017-HT	AR-165609AL-HT	EFXE-165609AL-HT
AQ-252612P-HT	EFE-252612-HT	AQ-181810AL-HT	EFXE-181810AL-HT
AQ-252616P-HT	EFE-252616-HT	AR-182810AL-HT	EFXE-182810AL-HT
AR-254012P-HT	EFE-254012-HT	AR-102311AL-HT	EFXE-102311AL-HT
AR-254016P-HT	EFE-254016-HT	AR-202311AL-HT	EFXE-202311AL-HT
AR-256012P-HT	EFE-256012-HT	AR-202318AL-HT	EFXE-202318AL-HT
AR-304020P-HT	EFE-304020-HT	AR-232811AL-HT	EFXE-232811AL-HT
AQ-363609P-HT	EFE-363609-HT	AR-233311AL-HT	EFXE-233311AL-HT
AR-406025P-HT	EFE-406025-HT	AR-233318AL-HT	EFXE-233318AL-HT
AQ-414012P-HT	EFE-414012-HT	AR-234011AL-HT	EFXE-234011AL-HT
AQ-414020P-HT	EFE-414020-HT	AR-234023AL-HT	EFXE-234023AL-HT
		AR-236011AL-HT	EFXE-236011AL-HT
		AR-314011AL-HT	EFXE-314011AL-HT
		AR-314014AL-HT	EFXE-314014AL-HT
		AR-314018AL-HT	EFXE-314018AL-HT
		AR-314023AL-HT	EFXE-314023AL-HT
		AR-316011AL-HT	EFXE-316011AL-HT
		AR-316018AL-HT	EFXE-316018AL-HT
		AQ-606020AL-HT	EFXE-606020AL-HT

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Polyester		Aluminium		Stainless steel	
AQ-080806P	EFE-080806	AQ-080806AL	EFXE-080806AL	SB-101210	EFXE-101210SB
AQ-080808P	EFE-080808	AR-081306AL	EFXE-081306AL	SB-151510	EFXE-151510SB
AR-081106P	EFE-081106	AR-081806AL	EFXE-081806AL	SB-142013	EFXE-142013SB
AR-081606P	EFE-081606	AR-081808AL	EFXE-081808AL	SB-202010	EFXE-202010SB
AR-081906P	EFE-081906	AR-082505AL	EFXE-082505AL	SB-202016	EFXE-202016SB
AQ-121209P	EFE-121209	AR-082508AL	EFXE-082508AL	SB-202713	EFXE-202713SB
AR-122209P	EFE-122209	AQ-101008AL	EFXE-101008AL	SB-272713	EFXE-272713SB
AQ-161609P	EFE-161609	AR-101508AL	EFXE-101508AL	SB-203016	EFXE-203016SB
AR-162609P	EFE-162609	AR-101608AL	EFXE-101608AL	SB-273513	EFXE-273513SB
AR-163609P	EFE-163609	AR-102008AL	EFXE-102008AL	SB-282816	EFXE-282816SB
AQ-252612P	EFE-252612	AQ-121208AL	EFXE-121208AL	SB-204016	EFXE-204016SB
AQ-252616P	EFE-252616	AR-122209AL	EFXE-122209AL	SB-353516	EFXE-353516SB
AR-254012P	EFE-254012	AQ-141409AL	EFXE-141409AL	SB-282827	EFXE-282827SB
AR-254016P	EFE-254016	AR-142009AL	EFXE-142009AL	SB-355016	EFXE-355016SB
AR-256012P	EFE-256012	AQ-161609AL	EFXE-161609AL	SB-383816	EFXE-383816SB
AQ-414012P	EFE-414012	AR-162410AL	EFXE-162410AL	SB-384516	EFXE-384516SB
		AR-162609AL	EFXE-162609AL	SB-385716	EFXE-385716SB
		AQ-181810AL	EFXE-181810AL	SB-505016	EFXE-505016SB
		AR-182810AL	EFXE-182810AL	SB-383827	EFXE-383827SB
		AR-202311AL	EFXE-202311AL	SB-575716	EFXE-575716SB
		AR-202318AL	EFXE-202318AL	SB-577620	EFXE-577620SB
		AR-232811AL	EFXE-232811AL	SB-575730	EFXE-575730SB
		AR-233312AL	EFXE-233312AL	SB-769520	EFXE-769520SB
		AR-233318AL	EFXE-233318AL	SB-1258040	EFXE-1258040SB

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Enclosure types (Stainless steel)	
ST-101210	EFXE-101210ST
ST-151510	EFXE-151510ST
ST-142013	EFXE-142013ST
ST-202010	EFXE-202010ST
ST-202016	EFXE-202016ST
ST-202713	EFXE-202713ST
ST-272713	EFXE-272713ST
ST-203016	EFXE-203016ST
ST-273513	EFXE-273513ST
ST-282816	EFXE-282816ST
ST-204016	EFXE-204016ST
ST-353516	EFXE-353516ST
ST-282827	EFXE-282827ST
ST-355016	EFXE-355016ST
ST-383816	EFXE-383816ST
ST-384516	EFXE-384516ST
ST-385716	EFXE-385716ST
ST-505016	EFXE-505016ST
ST-383827	EFXE-383827ST
ST-575716	EFXE-575716ST
ST-577620	EFXE-577620ST
ST-575730	EFXE-575730ST
ST-769520	EFXE-769520ST
ST-1258040	EFXE-1258040ST

Note 2 For stainless steel enclosures: dimensions (2) and (3) can be decreased or increased up to 20%, dimensions (4) can be increased up to 500 mm. Model name changes consequently.

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Power dissipation – HT glass fiber reinforced polyester resin enclosures

Enclosure types (polyester)		Maximum power dissipation (W) – Tamb. up to **40**°C							
		INTERNAL TEMP.60°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)	INTERNAL TEMP.127°C (T4/T135°C)
AQ-080806P-HT	EFE-080806-HT	3,5	5,2	7,0	7,8	9,6	10,4	11,3	15,2
AQ-080808P-HT	EFE-080808-HT	4,6	6,8	9,1	10,2	12,5	13,7	14,8	19,8
AR-081106P-HT	EFE-081106-HT	4,3	6,4	8,5	9,6	11,8	12,8	13,9	18,6
AR-081108P-HT	EFE-081108-HT	5,6	8,4	11,2	12,6	15,3	16,7	18,1	24,2
AR-081606P-HT	EFE-081606-HT	5,8	8,7	11,6	13,0	15,9	17,4	18,8	25.2
AR-081608P-HT	EFE-081608-HT	6,8	10,2	13,7	15,4	18,8	20,5	22,2	29,7
AR-081906P-HT	EFE-081906-HT	6,4	9,6	12,8	14,4	17,6	19,2	20,8	27,8
AR-081908P-HT	EFE-081908-HT	7,5	11,3	15,1	17,0	20,7	22,6	24,5	32,7
AR-082306P-HT	EFE-082306-HT	7,2	10,8	14,4	16,2	19,8	21,6	23,4	31,3
AR-082308P-HT	EFE-082308-HT	8,5	12,7	16,9	19,0	23,3	25,4	27,5	36,7
AQ-121209P-HT	EFE-121209-HT	8,0	12,0	15,9	17,9	21,9	23,9	25,9	34,7
AR-122209P-HT	EFE-122209-HT	10,8	16,2	21,6	24,3	29,7	32,4	35,1	47,0
AQ-161609P-HT	EFE-161609-HT	10,4	15,6	20,8	23,4	28,6	31,2	33,8	45,2
AR-162609P-HT	EFE-162609-HT	13,4	20,1	26,8	30,2	36,9	40,2	43,6	58,3
AR-163609P-HT	EFE-163609-HT	16,2	24,3	32,4	36,5	44,6	48,6	52,7	70,5
AR-165609P-HT	EFE-165609-HT	21,4	32,0	42,7	48,1	58,7	64,1	69,4	92,9
AQ-202017P-HT	EFE-202017-HT	18,0	26,9	35,9	40,4	49,4	53,9	58,4	78,1
AR-203017P-HT	EFE-203017-HT	20,9	31,3	41,7	47,0	57,4	62,6	67,8	90,8
AQ-252612P-HT	EFE-252612-HT	18,8	28,2	37,6	42,4	51,8	56,5	61,2	81,9
AQ-252616P-HT	EFE-252616-HT	20,8	31,1	41,5	46,7	57,1	62,3	67,5	90,3
AR-254012P-HT	EFE-254012-HT	22,8	34,2	45,7	51,4	62,8	68,5	74,2	99,3
AR-254016P-HT	EFE-254016-HT	26,2	39,3	52,4	58,9	72,0	78,6	85,1	113,9
AR-256012P-HT	EFE-256012-HT	29,0	43,6	58,1	65,3	79,9	87,1	94,4	126,3
AR-304020P-HT	EFE-304020-HT	32,3	48,5	64,7	72,7	88,9	97,0	105,1	140,7
AQ-363609P-HT	EFE-363609-HT	23,0	34,6	46,1	51,8	63,4	69,1	74,9	100,2
AR-406025P-HT	EFE-406025-HT	50,3	75,5	100,7	113,3	138,4	151,0	163,6	218,9
AQ-414012P-HT	EFE-414012-HT	29,1	43,7	58,2	65,5	80,1	87,3	94,6	126,6
AQ-414020P-HT	EFE-414020-HT	36,6	55,0	73,3	82,4	100,8	109,9	119,1	159,4

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Enclosure types (polyester)		Maximum power dissipation (W) – Tamb. up to **50**°C							
		INTERNAL TEMP.60°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)	INTERNAL TEMP.127°C (T4/T135°C)
AQ-080806P-HT	EFE-080806-HT	1,7	3,5	5,2	6,1	7,8	8,7	9,6	13,4
AQ-080808P-HT	EFE-080808-HT	2,3	4,6	6,8	8,0	10,2	11,4	12,5	17,5
AR-081106P-HT	EFE-081106-HT	2,1	4,3	6,4	7,5	9,6	10,7	11,8	16,5
AR-081108P-HT	EFE-081108-HT	2,8	5,6	8,4	9,8	12,6	13,9	15,3	21.5
AR-081606P-HT	EFE-081606-HT	2,9	5,8	8,7	10,1	13,0	14,5	15,9	22,3
AR-081608P-HT	EFE-081608-HT	3,4	6,8	10,2	11,9	15,4	17,1	18,8	26,3
AR-081906P-HT	EFE-081906-HT	3,2	6,4	9,6	11,2	14,4	16,0	17,6	24,6
AR-081908P-HT	EFE-081908-HT	3,8	7,5	11,3	13,2	17,0	18,8	20,7	29,0
AR-082306P-HT	EFE-082306-HT	3,6	7,2	10,8	12,6	16,2	18,0	19,8	27,7
AR-082308P-HT	EFE-082308-HT	4,2	8,5	12,7	14,8	19,0	21,1	23,3	32,5
AQ-121209P-HT	EFE-121209-HT	4,0	8,0	12,0	14,0	17,9	19,9	21,9	30,7
AR-122209P-HT	EFE-122209-HT	5,4	10,8	16,2	18,9	24,3	27,0	29,7	41,6
AQ-161609P-HT	EFE-161609-HT	5,2	10,4	15,6	18,2	23,4	26,0	28,6	40,0
AR-162609P-HT	EFE-162609-HT	6,7	13,4	20,1	23,5	30,2	33,5	36,9	51,6
AR-163609P-HT	EFE-163609-HT	8,1	16,2	24,3	28,4	36,5	40,5	44,6	62,3
AR-165609P-HT	EFE-165609-HT	10,7	21,4	32,0	37,4	48,1	53,4	58,7	82,2
AQ-202017P-HT	EFE-202017-HT	9,0	18,0	26,9	31,4	40,4	44,9	49,4	69,1
AR-203017P-HT	EFE-203017-HT	10,4	20,9	31,3	36,5	47,0	52,2	57,4	80,4
AQ-252612P-HT	EFE-252612-HT	9,4	18,8	28,2	32,9	42,4	47,1	51,8	72,5
AQ-252616P-HT	EFE-252616-HT	10,4	20,8	31,1	36,3	46,7	51,9	57,1	79,9
AR-254012P-HT	EFE-254012-HT	11,4	22,8	34,2	39,9	51,4	57,1	62,8	87,9
AR-254016P-HT	EFE-254016-HT	13,1	26,2	39,3	45,8	58,9	65,5	72,0	100,8
AR-256012P-HT	EFE-256012-HT	14,5	29,0	43,6	50,8	65,3	72,6	79,9	111,8
AR-304020P-HT	EFE-304020-HT	16,2	32,3	48,5	56,6	72,7	80,8	88,9	124,4
AQ-363609P-HT	EFE-363609-HT	11,5	23,0	34,6	40,3	51,8	57,6	63,4	88,7
AR-406025P-HT	EFE-406025-HT	25,2	50,3	75,5	88,1	113,3	125,8	138,4	193,8
AQ-414012P-HT	EFE-414012-HT	14,6	29,1	43,7	51,0	65,5	72,8	80,1	112,1
AQ-414020P-HT	EFE-414020-HT	18,3	36,6	55,0	64,1	82,4	91,6	100,8	141,1

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Enclosure types (polyester)		Maximum power dissipation (W) – Tamb. up to **55**°C							
		INTERNAL TEMP.65°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)	INTERNAL TEMP.127°C (T4/T135°C)
AQ-080806P-HT	EFE-080806-HT	1,7	2,6	4,4	5,2	7,0	7,8	8,7	12,5
AQ-080808P-HT	EFE-080808-HT	2,3	3,4	5,7	6,8	9,1	10,2	11,4	16,2
AR-081106P-HT	EFE-081106-HT	2,1	3,2	5,3	6,4	8,5	9,6	10,7	15,2
AR-081108P-HT	EFE-081108-HT	2,8	4,2	7,0	8,4	11,2	12,6	13,9	19,8
AR-081606P-HT	EFE-081606-HT	2,9	4,3	7,2	8,7	11,6	13,0	14,5	20,6
AR-081608P-HT	EFE-081608-HT	3,4	5,1	8,5	10,2	13,7	15,4	17,1	24,3
AR-081906P-HT	EFE-081906-HT	3,2	4,8	8,0	9,6	12,8	14,4	16,0	22,8
AR-081908P-HT	EFE-081908-HT	3,8	5,7	9,4	11,3	15,1	17,0	18,8	26,8
AR-082306P-HT	EFE-082306-HT	3,6	5,4	9,0	10,8	14,4	16,2	18,0	25,6
AR-082308P-HT	EFE-082308-HT	4,2	6,3	10,6	12,7	16,9	19,0	21,1	30,0
AQ-121209P-HT	EFE-121209-HT	4,0	6,0	10,0	12,0	15,9	17,9	19,9	28,3
AR-122209P-HT	EFE-122209-HT	5,4	8,1	13,5	16,2	21,6	24,3	27,0	38,3
AQ-161609P-HT	EFE-161609-HT	5,2	7,8	13,0	15,6	20,8	23,4	26,0	36,9
AR-162609P-HT	EFE-162609-HT	6,7	10,1	16,8	20,1	26,8	30,2	33,5	47,6
AR-163609P-HT	EFE-163609-HT	8,1	12,2	20,3	24,3	32,4	36,5	40,5	57,5
AR-165609P-HT	EFE-165609-HT	10,7	16,0	26,7	32,0	42,7	48,1	53,4	75,8
AQ-202017P-HT	EFE-202017-HT	9,0	13,5	22,4	26,9	35,9	40,4	44,9	63,7
AR-203017P-HT	EFE-203017-HT	10,4	15,7	26,1	31,3	41,7	47,0	52,2	74,0
AQ-252612P-HT	EFE-252612-HT	9,4	14,1	23,5	28,2	37,6	42,4	47,1	66,8
AQ-252616P-HT	EFE-252616-HT	10,4	15,6	26,0	31,1	41,5	46,7	51,9	73,7
AR-254012P-HT	EFE-254012-HT	11,4	17,1	28,5	34,2	45,7	51,4	57,1	81,0
AR-254016P-HT	EFE-254016-HT	13,1	19,6	32,7	39,3	52,4	58,9	65,5	92,9
AR-256012P-HT	EFE-256012-HT	14,5	21,8	36,3	43,6	58,1	65,3	72,6	103,0
AR-304020P-HT	EFE-304020-HT	16,2	24,2	40,4	48,5	64,7	72,7	80,8	114,7
AQ-363609P-HT	EFE-363609-HT	11,5	17,3	28,8	34,6	46,1	51,8	57,6	81,8
AR-406025P-HT	EFE-406025-HT	25,2	37,8	62,9	75,5	100,7	113,3	125,8	178,6
AQ-414012P-HT	EFE-414012-HT	14,6	21,8	36,4	43,7	58,2	65,5	72,8	103,0
AQ-414020P-HT	EFE-414020-HT	18,3	27,5	45,8	55,0	73,3	82,4	91,6	130,0

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Enclosure types (polyester)		Maximum power dissipation (W) – Tamb. up to **60**°C						
		INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)	INTERNAL TEMP.127°C (T4/T135°C)
AQ-080806P-HT	EFE-080806-HT	1,7	3,5	4,4	6,1	7,0	7,8	11,7
AQ-080808P-HT	EFE-080808-HT	2,3	4,6	5,7	8,0	9,1	10,2	15,2
AR-081106P-HT	EFE-081106-HT	2,1	4,3	5,3	7,5	8,5	9,6	14,3
AR-081108P-HT	EFE-081108-HT	2,8	5,6	7,0	9,8	11,2	12,6	18,7
AR-081606P-HT	EFE-081606-HT	2,9	5,8	7,2	10,1	11,6	13,0	19,4
AR-081608P-HT	EFE-081608-HT	3,4	6,8	8,5	11,9	13,7	15,4	22,9
AR-081906P-HT	EFE-081906-HT	3,2	6,4	8,0	11,2	12,8	14,4	21,4
AR-081908P-HT	EFE-081908-HT	3,8	7,5	9,4	13,2	15,1	17,0	25,3
AR-082306P-HT	EFE-082306-HT	3,6	7,2	9,0	12,6	14,4	16,2	24,1
AR-082308P-HT	EFE-082308-HT	4,2	8,5	10,6	14,8	16,9	19,0	28,3
AQ-121209P-HT	EFE-121209-HT	4,0	8,0	10,0	14,0	15,9	17,9	26,7
AR-122209P-HT	EFE-122209-HT	5,4	10,8	13,5	18,9	21,6	24,3	36,2
AQ-161609P-HT	EFE-161609-HT	5,2	10,4	13,0	18,2	20,8	23,4	34,8
AR-162609P-HT	EFE-162609-HT	6,7	13,4	16,8	23,5	26,8	30,2	44,9
AR-163609P-HT	EFE-163609-HT	8,1	16,2	20,3	28,4	32,4	36,5	54,2
AR-165609P-HT	EFE-165609-HT	10,7	21,4	26,7	37,4	42,7	48,1	71,5
AQ-202017P-HT	EFE-202017-HT	9,0	18,0	22,4	31,4	35,9	40,4	60,1
AR-203017P-HT	EFE-203017-HT	10,4	20,9	26,1	36,5	41,7	47,0	69,9
AQ-252612P-HT	EFE-252612-HT	9,4	18,8	23,5	32,9	37,6	42,4	63,0
AQ-252616P-HT	EFE-252616-HT	10,4	20,8	26,0	36,3	41,5	46,7	69,5
AR-254012P-HT	EFE-254012-HT	11,4	22,8	28,5	39,9	45,7	51,4	76,5
AR-254016P-HT	EFE-254016-HT	13,1	26,2	32,7	45,8	52,4	58,9	87,7
AR-256012P-HT	EFE-256012-HT	14,5	29,0	36,3	50,8	58,1	65,3	97,2
AR-304020P-HT	EFE-304020-HT	16,2	32,3	40,4	56,6	64,7	72,7	108,3
AQ-363609P-HT	EFE-363609-HT	11,5	23,0	28,8	40,3	46,1	51,8	77,1
AR-406025P-HT	EFE-406025-HT	25,2	50,3	62,9	88,1	100,7	113,3	168,7
AQ-414012P-HT	EFE-414012-HT	14,6	29,1	36,4	51,0	58,2	65,5	97,5
AQ-414020P-HT	EFE-414020-HT	18,3	36,6	45,8	64,1	73,3	82,4	122,7

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Enclosure types (polyester)		Maximum power dissipation (W) Tamb. up to **95**°C		
		INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)	INTERNAL TEMP.127°C (T4/T135°C)
AQ-080806P-HT	EFE-080806-HT	0,9	1,7	5,6
AQ-080808P-HT	EFE-080808-HT	1,1	2,3	7,3
AR-081106P-HT	EFE-081106-HT	1,1	2,1	6,5
AR-081108P-HT	EFE-081108-HT	1,4	2,8	9,0
AR-081606P-HT	EFE-081606-HT	1,4	2,9	9,2
AR-081608P-HT	EFE-081608-HT	1,7	3,4	10,9
AR-081906P-HT	EFE-081906-HT	1,6	3,2	10,2
AR-081908P-HT	EFE-081908-HT	1,9	3,8	12,1
AR-082306P-HT	EFE-082306-HT	1,8	3,6	11,5
AR-082308P-HT	EFE-082308-HT	2,1	4,2	13,5
AQ-121209P-HT	EFE-121209-HT	2,0	4,0	12,8
AR-122209P-HT	EFE-122209-HT	2,7	5,4	17,3
AQ-161609P-HT	EFE-161609-HT	2,6	5,2	16,6
AR-162609P-HT	EFE-162609-HT	3,4	6,7	21,5
AR-163609P-HT	EFE-163609-HT	4,1	8,1	26,0
AR-165609P-HT	EFE-165609-HT	5,3	10,7	34,2
AQ-202017P-HT	EFE-202017-HT	4,5	9,0	28,7
AR-203017P-HT	EFE-203017-HT	5,2	10,4	33,4
AQ-252612P-HT	EFE-252612-HT	4,7	9,4	30,1
AQ-252616P-HT	EFE-252616-HT	5,2	10,4	33,2
AR-254012P-HT	EFE-254012-HT	5,7	11,4	36,5
AR-254016P-HT	EFE-254016-HT	6,5	13,1	41,9
AR-256012P-HT	EFE-256012-HT	7,3	14,5	46,4
AR-304020P-HT	EFE-304020-HT	8,1	16,2	51,8
AQ-363609P-HT	EFE-363609-HT	5,8	11,5	36,8
AR-406025P-HT	EFE-406025-HT	12,6	25,2	80,6
AQ-414012P-HT	EFE-414012-HT	7,3	14,6	46,6
AQ-414020P-HT	EFE-414020-HT	9,2	18,3	58,6

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Power dissipation – HT aluminum alloy enclosures

Enclosure types (aluminium)		Maximum power dissipation (W) – Tamb. up to **40**°C							
		INTERNAL TEMP.60°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)	INTERNAL TEMP.130°C (T4/T135°C)
AQ-080806AL-HT	EFXE-080806AL-HT	5,2	7,8	10,4	11,7	14,3	15,6	16,9	23,4
AR-081306AL-HT	EFXE-081306AL-HT	7,0	10,6	14,1	15,9	19,4	21,2	23,0	31,8
AR-081806AL-HT	EFXE-081806AL-HT	8,9	13,3	17,8	20,0	24,5	26,7	28,9	40,0
AR-082505AL-HT	EFXE-082505AL-HT	10,9	16,4	21,9	24,7	30,1	32,9	35,6	49,4
AQ-101008AL-HT	EFXE-101008AL-HT	8,7	13,0	17,4	19,6	23,9	26,1	28,3	39,2
AR-101608AL-HT	EFXE-101608AL-HT	11,5	17,3	23,1	26,0	31,8	34,7	37,6	52,0
AR-102008AL-HT	EFXE-102008AL-HT	13,4	20,1	26,8	30,2	36,9	40,3	43,6	60,4
AQ-121208AL-HT	EFXE-121208AL-HT	10,8	16,2	21,6	24,3	29,7	32,4	35,1	48,6
AQ-121209AL-HT	EFXE-121209AL-HT	11,6	17,5	23,3	26,2	32,1	35,0	37,9	52,5
AR-122208AL-HT	EFXE-122208AL-HT	15,6	23,5	31,3	35,3	43,1	47,0	50,9	70,6
AR-122209AL-HT	EFXE-122209AL-HT	16,8	25,3	33,7	37,9	46,3	50,6	54,8	75,9
AR-123608AL-HT	EFXE-123608AL-HT	22,3	33,5	44,7	50,3	61,5	67,1	72,7	100,7
AQ-141409AL-HT	EFXE-141409AL-HT	13,7	20,6	27,5	31,0	37,9	41,3	44,8	62,0
AR-142009AL-HT	EFXE-142009AL-HT	17,1	25,7	34,2	38,5	47,1	51,4	55,7	77,1
AQ-161609AL-HT	EFXE-161609AL-HT	16,1	24,1	32,2	36,2	44,2	48,3	52,3	72,4
AR-162609AL-HT	EFXE-162609AL-HT	21,9	32,8	43,8	49,3	60,2	65,7	71,2	98,6
AR-163609AL-HT	EFXE-163609AL-HT	27,5	41,3	55,1	62,0	75,7	82,6	89,5	124,0
AR-165609AL-HT	EFXE-165609AL-HT	38,4	57,7	76,9	86,6	105,8	115,4	125,0	173,2
AQ-181810AL-HT	EFXE-181810AL-HT	19,7	29,6	39,5	44,4	54,3	59,2	64,2	88,8
AR-182810AL-HT	EFXE-182810AL-HT	26,1	39,1	52,2	58,7	71,8	78,3	84,8	117,5
AR-102311AL-HT	EFXE-102311AL-HT	18,2	27,3	36,5	41,0	50,1	54,7	59,3	82,1
AR-202311AL-HT	EFXE-202311AL-HT	26,1	39,1	52,2	58,7	71,7	78,3	84,8	117,4
AR-202318AL-HT	EFXE-202318AL-HT	35,9	53,9	71,8	80,8	98,8	107,8	116,8	161,7
AR-232811AL-HT	EFXE-232811AL-HT	31,6	47,5	63,3	71,3	87,1	95,0	103,0	142,6
AR-233311AL-HT	EFXE-233311AL-HT	35,3	52,9	70,6	79,4	97,0	105,9	114,7	158,8
AR-233318AL-HT	EFXE-233318AL-HT	47,5	71,3	95,1	107,0	130,8	142,7	154,6	214,1
AR-234011AL-HT	EFXE-234011AL-HT	40,2	60,4	80,5	90,6	110,7	120,8	130,9	181,2
AR-234023AL-HT	EFXE-234023AL-HT	62,2	93,3	124,5	140,0	171,2	186,7	202,3	280,1
AR-236011AL-HT	EFXE-236011AL-HT	54,1	81,2	108,3	121,9	148,9	162,5	176,0	243,8
AR-314011AL-HT	EFXE-314011AL-HT	48,6	72,9	97,2	109,3	133,6	145,8	157,9	218,7
AR-314014AL-HT	EFXE-314014AL-HT	54,9	82,4	109,9	123,7	151,2	164,9	178,7	247,4
AR-314018AL-HT	EFXE-314018AL-HT	63,8	95,7	127,6	143,5	175,4	191,4	207,3	287,1
AR-314023AL-HT	EFXE-314023AL-HT	73,5	110,3	147,1	165,5	202,3	220,7	239,1	331,0
AR-316011AL-HT	EFXE-316011AL-HT	64,0	96,0	128,1	144,1	176,1	192,1	208,1	288,2
AR-316018AL-HT	EFXE-316018AL-HT	82,7	124,1	165,5	186,2	227,6	248,3	268,9	372,4
AQ-606020AL-HT	EFXE-606020AL-HT	129,1	193,7	258,3	290,5	355,1	387,4	419,7	581,1

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Enclosure types (aluminium)		Maximum power dissipation (W) – Tamb. up to **50**°C							
		INTERNAL TEMP.60°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)	INTERNAL TEMP.130°C (T4/T135°C)
AQ-080806AL-HT	EFXE-080806AL-HT	2,6	5,2	7,8	9,1	11,7	13,0	14,3	20,8
AR-081306AL-HT	EFXE-081306AL-HT	3,5	7,0	10,6	12,3	15,9	17,7	19,4	28,3
AR-081806AL-HT	EFXE-081806AL-HT	4,4	8,9	13,3	15,5	20,0	22,2	24,5	35,6
AR-082505AL-HT	EFXE-082505AL-HT	5,4	10,9	16,4	19,2	24,7	27,4	30,1	43,9
AQ-101008AL-HT	EFXE-101008AL-HT	4,3	8,7	13,0	15,2	19,6	21,7	23,9	34,8
AR-101608AL-HT	EFXE-101608AL-HT	5,7	11,5	17,3	20,2	26,0	28,9	31,8	46,2
AR-102008AL-HT	EFXE-102008AL-HT	6,7	13,4	20,1	23,5	30,2	33,5	36,9	53,7
AQ-121208AL-HT	EFXE-121208AL-HT	5,4	10,8	16,2	18,9	24,3	27,0	29,7	43,2
AQ-121209AL-HT	EFXE-121209AL-HT	5,8	11,6	17,5	20,4	26,2	29,2	32,1	46,7
AR-122208AL-HT	EFXE-122208AL-HT	7,8	15,6	23,5	27,4	35,3	39,2	43,1	62,7
AR-122209AL-HT	EFXE-122209AL-HT	8,4	16,8	25,3	29,5	37,9	42,1	46,3	67,4
AR-123608AL-HT	EFXE-123608AL-HT	11,1	22,3	33,5	39,1	50,3	55,9	61,5	89,5
AQ-141409AL-HT	EFXE-141409AL-HT	6,8	13,7	20,6	24,1	31,0	34,4	37,9	55,1
AR-142009AL-HT	EFXE-142009AL-HT	8,5	17,1	25,7	30,0	38,5	42,8	47,1	68,5
AQ-161609AL-HT	EFXE-161609AL-HT	8,0	16,1	24,1	28,1	36,2	40,2	44,2	64,4
AR-162609AL-HT	EFXE-162609AL-HT	10,9	21,9	32,8	38,3	49,3	54,8	60,2	87,6
AR-163609AL-HT	EFXE-163609AL-HT	13,7	27,5	41,3	48,2	62,0	68,9	75,7	110,2
AR-165609AL-HT	EFXE-165609AL-HT	19,2	38,4	57,7	67,3	86,6	96,2	105,8	153,9
AQ-181810AL-HT	EFXE-181810AL-HT	9,8	19,7	29,6	34,5	44,4	49,3	54,3	79,0
AR-182810AL-HT	EFXE-182810AL-HT	13,0	26,1	39,1	45,7	58,7	65,2	71,8	104,4
AR-102311AL-HT	EFXE-102311AL-HT	9,1	18,2	27,3	31,9	41,0	45,6	50,1	73,0
AR-202311AL-HT	EFXE-202311AL-HT	13,0	26,1	39,1	45,6	58,7	65,2	71,7	104,4
AR-202318AL-HT	EFXE-202318AL-HT	17,9	35,9	53,9	62,8	80,8	89,8	98,8	143,7
AR-232811AL-HT	EFXE-232811AL-HT	15,8	31,6	47,5	55,4	71,3	79,2	87,1	126,7
AR-233311AL-HT	EFXE-233311AL-HT	17,6	35,3	52,9	61,7	79,4	88,2	97,0	141,2
AR-233318AL-HT	EFXE-233318AL-HT	23,7	47,5	71,3	83,2	107,0	118,9	130,8	190,3
AR-234011AL-HT	EFXE-234011AL-HT	20,1	40,2	60,4	70,5	90,6	100,7	110,7	161,1
AR-234023AL-HT	EFXE-234023AL-HT	31,1	62,2	93,3	108,9	140,0	155,6	171,2	249,0
AR-236011AL-HT	EFXE-236011AL-HT	27,0	54,1	81,2	94,8	121,9	135,4	148,9	216,7
AR-314011AL-HT	EFXE-314011AL-HT	24,3	48,6	72,9	85,0	109,3	121,5	133,6	194,4
AR-314014AL-HT	EFXE-314014AL-HT	27,4	54,9	82,4	96,2	123,7	137,4	151,2	219,9
AR-314018AL-HT	EFXE-314018AL-HT	31,9	63,8	95,7	111,6	143,5	159,5	175,4	255,2
AR-314023AL-HT	EFXE-314023AL-HT	36,7	73,5	110,3	128,7	165,5	183,9	202,3	294,2
AR-316011AL-HT	EFXE-316011AL-HT	32,0	64,0	96,0	112,0	144,1	160,1	176,1	256,2
AR-316018AL-HT	EFXE-316018AL-HT	41,3	82,7	124,1	144,8	186,2	206,9	227,6	331,0
AQ-606020AL-HT	EFXE-606020AL-HT	64,5	129,1	193,7	226,0	290,5	322,8	355,1	516,6

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Enclosure types (aluminium)		Maximum power dissipation (W) – Tamb. up to **55**°C							
		INTERNAL TEMP.65°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)	INTERNAL TEMP.130°C (T4/T135°C)
AQ-080806AL-HT	EFXE-080806AL-HT	2,6	3,9	6,5	7,8	10,4	11,7	13,0	19,5
AR-081306AL-HT	EFXE-081306AL-HT	3,5	5,3	8,8	10,6	14,1	15,9	17,7	26,5
AR-081806AL-HT	EFXE-081806AL-HT	4,4	6,6	11,1	13,3	17,8	20,0	22,2	33,4
AR-082505AL-HT	EFXE-082505AL-HT	5,4	8,2	13,7	16,4	21,9	24,7	27,4	41,1
AQ-101008AL-HT	EFXE-101008AL-HT	4,3	6,5	10,8	13,0	17,4	19,6	21,7	32,6
AR-101608AL-HT	EFXE-101608AL-HT	5,7	8,6	14,4	17,3	23,1	26,0	28,9	43,3
AR-102008AL-HT	EFXE-102008AL-HT	6,7	10,0	16,7	20,1	26,8	30,2	33,5	50,3
AQ-121208AL-HT	EFXE-121208AL-HT	5,4	8,1	13,5	16,2	21,6	24,3	27,0	40,5
AQ-121209AL-HT	EFXE-121209AL-HT	5,8	8,7	14,6	17,5	23,3	26,2	29,2	43,8
AR-122208AL-HT	EFXE-122208AL-HT	7,8	11,7	19,6	23,5	31,3	35,3	39,2	58,8
AR-122209AL-HT	EFXE-122209AL-HT	8,4	12,6	21,0	25,3	33,7	37,9	42,1	63,2
AR-123608AL-HT	EFXE-123608AL-HT	11,1	16,7	27,9	33,5	44,7	50,3	55,9	83,9
AQ-141409AL-HT	EFXE-141409AL-HT	6,8	10,3	17,2	20,6	27,5	31,0	34,4	51,7
AR-142009AL-HT	EFXE-142009AL-HT	8,5	12,8	21,4	25,7	34,2	38,5	42,8	64,3
AQ-161609AL-HT	EFXE-161609AL-HT	8,0	12,0	20,1	24,1	32,2	36,2	40,2	60,4
AR-162609AL-HT	EFXE-162609AL-HT	10,9	16,4	27,4	32,8	43,8	49,3	54,8	82,2
AR-163609AL-HT	EFXE-163609AL-HT	13,7	20,6	34,4	41,3	55,1	62,0	68,9	103,3
AR-165609AL-HT	EFXE-165609AL-HT	19,2	28,8	48,1	57,7	76,9	86,6	96,2	144,3
AQ-181810AL-HT	EFXE-181810AL-HT	9,8	14,8	24,6	29,6	39,5	44,4	49,3	74,0
AR-182810AL-HT	EFXE-182810AL-HT	13,0	19,5	32,6	39,1	52,2	58,7	65,2	97,9
AR-102311AL-HT	EFXE-102311AL-HT	9,1	13,6	22,8	27,3	36,5	41,0	45,6	68,4
AR-202311AL-HT	EFXE-202311AL-HT	13,0	19,5	32,6	39,1	52,2	58,7	65,2	97,9
AR-202318AL-HT	EFXE-202318AL-HT	17,9	26,9	44,9	53,9	71,8	80,8	89,8	134,7
AR-232811AL-HT	EFXE-232811AL-HT	15,8	23,7	39,6	47,5	63,3	71,3	79,2	118,8
AR-233311AL-HT	EFXE-233311AL-HT	17,6	26,4	44,1	52,9	70,6	79,4	88,2	132,3
AR-233318AL-HT	EFXE-233318AL-HT	23,7	35,6	59,4	71,3	95,1	107,0	118,9	178,4
AR-234011AL-HT	EFXE-234011AL-HT	20,1	30,2	50,3	60,4	80,5	90,6	100,7	151,0
AR-234023AL-HT	EFXE-234023AL-HT	31,1	46,6	77,8	93,3	124,5	140,0	155,6	233,4
AR-236011AL-HT	EFXE-236011AL-HT	27,0	40,6	67,7	81,2	108,3	121,9	135,4	203,1
AR-314011AL-HT	EFXE-314011AL-HT	24,3	36,4	60,7	72,9	97,2	109,3	121,5	182,3
AR-314014AL-HT	EFXE-314014AL-HT	27,4	41,2	68,7	82,4	109,9	123,7	137,4	206,2
AR-314018AL-HT	EFXE-314018AL-HT	31,9	47,8	79,7	95,7	127,6	143,5	159,5	239,2
AR-314023AL-HT	EFXE-314023AL-HT	36,7	55,1	91,9	110,3	147,1	165,5	183,9	275,8
AR-316011AL-HT	EFXE-316011AL-HT	32,0	48,0	80,0	96,0	128,1	144,1	160,1	240,1
AR-316018AL-HT	EFXE-316018AL-HT	41,3	62,0	103,4	124,1	165,5	186,2	206,9	310,3
AQ-606020AL-HT	EFXE-606020AL-HT	64,5	96,8	161,4	193,7	258,3	290,5	322,8	484,3

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Enclosure types (aluminium)		Maximum power dissipation (W) – Tamb. up to **60**°C						
		INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)	INTERNAL TEMP.130°C (T4/T135°C)
AQ-080806AL-HT	EFXE-080806AL-HT	2,6	5,2	6,5	9,1	10,4	11,7	18,2
AR-081306AL-HT	EFXE-081306AL-HT	3,5	7,0	8,8	12,3	14,1	15,9	24,7
AR-081806AL-HT	EFXE-081806AL-HT	4,4	8,9	11,1	15,5	17,8	20,0	31,1
AR-082505AL-HT	EFXE-082505AL-HT	5,4	10,9	13,7	19,2	21,9	24,7	38,4
AQ-101008AL-HT	EFXE-101008AL-HT	4,3	8,7	10,8	15,2	17,4	19,6	30,4
AR-101608AL-HT	EFXE-101608AL-HT	5,7	11,5	14,4	20,2	23,1	26,0	40,5
AR-102008AL-HT	EFXE-102008AL-HT	6,7	13,4	16,7	23,5	26,8	30,2	47,0
AQ-121208AL-HT	EFXE-121208AL-HT	5,4	10,8	13,5	18,9	21,6	24,3	37,8
AQ-121209AL-HT	EFXE-121209AL-HT	5,8	11,6	14,6	20,4	23,3	26,2	40,8
AR-122208AL-HT	EFXE-122208AL-HT	7,8	15,6	19,6	27,4	31,3	35,3	54,9
AR-122209AL-HT	EFXE-122209AL-HT	8,4	16,8	21,0	29,5	33,7	37,9	59,0
AR-123608AL-HT	EFXE-123608AL-HT	11,1	22,3	27,9	39,1	44,7	50,3	78,3
AQ-141409AL-HT	EFXE-141409AL-HT	6,8	13,7	17,2	24,1	27,5	31,0	48,2
AR-142009AL-HT	EFXE-142009AL-HT	8,5	17,1	21,4	30,0	34,2	38,5	60,0
AQ-161609AL-HT	EFXE-161609AL-HT	8,0	16,1	20,1	28,1	32,2	36,2	56,3
AR-162609AL-HT	EFXE-162609AL-HT	10,9	21,9	27,4	38,3	43,8	49,3	76,7
AR-163609AL-HT	EFXE-163609AL-HT	13,7	27,5	34,4	48,2	55,1	62,0	96,4
AR-165609AL-HT	EFXE-165609AL-HT	19,2	38,4	48,1	67,3	76,9	86,6	134,7
AQ-181810AL-HT	EFXE-181810AL-HT	9,8	19,7	24,6	34,5	39,5	44,4	69,1
AR-182810AL-HT	EFXE-182810AL-HT	13,0	26,1	32,6	45,7	52,2	58,7	91,4
AR-102311AL-HT	EFXE-102311AL-HT	9,1	18,2	22,8	31,9	36,5	41,0	63,8
AR-202311AL-HT	EFXE-202311AL-HT	13,0	26,1	32,6	45,6	52,2	58,7	91,3
AR-202318AL-HT	EFXE-202318AL-HT	17,9	35,9	44,9	62,8	71,8	80,8	125,7
AR-232811AL-HT	EFXE-232811AL-HT	15,8	31,6	39,6	55,4	63,3	71,3	110,9
AR-233311AL-HT	EFXE-233311AL-HT	17,6	35,3	44,1	61,7	70,6	79,4	123,5
AR-233318AL-HT	EFXE-233318AL-HT	23,7	47,5	59,4	83,2	95,1	107,0	166,5
AR-234011AL-HT	EFXE-234011AL-HT	20,1	40,2	50,3	70,5	80,5	90,6	141,0
AR-234023AL-HT	EFXE-234023AL-HT	31,1	62,2	77,8	108,9	124,5	140,0	217,9
AR-236011AL-HT	EFXE-236011AL-HT	27,0	54,1	67,7	94,8	108,3	121,9	189,6
AR-314011AL-HT	EFXE-314011AL-HT	24,3	48,6	60,7	85,0	97,2	109,3	170,1
AR-314014AL-HT	EFXE-314014AL-HT	27,4	54,9	68,7	96,2	109,9	123,7	192,4
AR-314018AL-HT	EFXE-314018AL-HT	31,9	63,8	79,7	111,6	127,6	143,5	223,3
AR-314023AL-HT	EFXE-314023AL-HT	36,7	73,5	91,9	128,7	147,1	165,5	257,4
AR-316011AL-HT	EFXE-316011AL-HT	32,0	64,0	80,0	112,0	128,1	144,1	224,1
AR-316018AL-HT	EFXE-316018AL-HT	41,3	82,7	103,4	144,8	165,5	186,2	289,6
AQ-606020AL-HT	EFXE-606020AL-HT	64,5	129,1	161,4	226,0	258,3	290,5	452,0

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Enclosure types (aluminium)		Maximum power dissipation (W) Tamb. up to **95**°C		
		INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)	INTERNAL TEMP.130°C (T4/T135°C)
AQ-080806AL-HT	EFXE-080806AL-HT	1,3	2,6	9,1
AR-081306AL-HT	EFXE-081306AL-HT	1,7	3,5	12,3
AR-081806AL-HT	EFXE-081806AL-HT	2,2	4,4	15,5
AR-082505AL-HT	EFXE-082505AL-HT	2,7	5,4	19,2
AQ-101008AL-HT	EFXE-101008AL-HT	2,1	4,3	15,2
AR-101608AL-HT	EFXE-101608AL-HT	2,8	5,7	20,2
AR-102008AL-HT	EFXE-102008AL-HT	3,3	6,7	23,5
AQ-121208AL-HT	EFXE-121208AL-HT	2,7	5,4	18,9
AQ-121209AL-HT	EFXE-121209AL-HT	2,9	5,8	20,4
AR-122208AL-HT	EFXE-122208AL-HT	3,9	7,8	27,4
AR-122209AL-HT	EFXE-122209AL-HT	4,2	8,4	29,5
AR-123608AL-HT	EFXE-123608AL-HT	5,5	11,1	39,1
AQ-141409AL-HT	EFXE-141409AL-HT	3,4	6,8	24,1
AR-142009AL-HT	EFXE-142009AL-HT	4,2	8,5	30,0
AQ-161609AL-HT	EFXE-161609AL-HT	4,0	8,0	28,1
AR-162609AL-HT	EFXE-162609AL-HT	5,4	10,9	38,3
AR-163609AL-HT	EFXE-163609AL-HT	6,8	13,7	48,2
AR-165609AL-HT	EFXE-165609AL-HT	9,6	19,2	67,3
AQ-181810AL-HT	EFXE-181810AL-HT	4,9	9,8	34,5
AR-182810AL-HT	EFXE-182810AL-HT	6,5	13,0	45,7
AR-102311AL-HT	EFXE-102311AL-HT	4,5	9,1	31,9
AR-202311AL-HT	EFXE-202311AL-HT	6,5	13,0	45,6
AR-202318AL-HT	EFXE-202318AL-HT	8,9	17,9	62,8
AR-232811AL-HT	EFXE-232811AL-HT	7,9	15,8	55,4
AR-233311AL-HT	EFXE-233311AL-HT	8,8	17,6	61,7
AR-233318AL-HT	EFXE-233318AL-HT	11,8	23,7	83,2
AR-234011AL-HT	EFXE-234011AL-HT	10,0	20,1	70,5
AR-234023AL-HT	EFXE-234023AL-HT	15,5	31,1	108,9
AR-236011AL-HT	EFXE-236011AL-HT	13,5	27,0	94,8
AR-314011AL-HT	EFXE-314011AL-HT	12,1	24,3	85,0
AR-314014AL-HT	EFXE-314014AL-HT	13,7	27,4	96,2
AR-314018AL-HT	EFXE-314018AL-HT	15,9	31,9	111,6
AR-314023AL-HT	EFXE-314023AL-HT	18,3	36,7	128,7
AR-316011AL-HT	EFXE-316011AL-HT	16,0	32,0	112,0
AR-316018AL-HT	EFXE-316018AL-HT	20,6	41,3	144,8
AQ-606020AL-HT	EFXE-606020AL-HT	32,2	64,5	226,0

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Power dissipation – Glass fiber reinforced polyester resin enclosures

Enclosure types (polyester)		Maximum power dissipation (W) – Tamb. up to **40**°C						
		INTERNAL TEMP.60°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
AQ-080806P	EFE-080806	3,4	5,2	6,9	7,8	9,5	10,4	11,3
AQ-080808P	EFE-080808	4,5	6,8	9,1	10,2	12,5	13,6	14,7
AR-081106P	EFE-081106	4,2	6,4	8,5	9,6	11,7	12,8	13,8
AR-081606P	EFE-081606	5,7	8,6	11,5	13,0	15,9	17,3	18,8
AR-081906P	EFE-081906	6,4	9,6	12,8	14,4	17,6	19,2	20,8
AQ-121209P	EFE-121209	7,9	11,9	15,9	17,9	21,9	23,9	25,9
AR-122209P	EFE-122209	10,8	16,2	21,6	24,3	29,7	32,4	35,1
AQ-161609P	EFE-161609	10,3	15,5	20,7	23,3	28,5	31,1	33,7
AR-162609P	EFE-162609	13,4	20,1	26,8	30,1	36,8	40,2	43,5
AR-163609P	EFE-163609	16,2	24,3	32,4	36,4	44,5	48,6	52,6
AQ-252612P	EFE-252612	18,8	28,2	37,6	42,3	51,7	56,4	61,1
AQ-252616P	EFE-252616	21,7	32,6	43,5	49,0	59,9	65,3	70,8
AR-254012P	EFE-254012	23,9	35,9	47,9	53,9	65,9	71,8	77,8
AR-254016P	EFE-254016	27,4	41,2	54,9	61,8	75,6	82,4	89,3
AR-256012P	EFE-256012	29,0	43,5	58,0	65,3	79,8	87,1	94,3
AQ-414012P	EFE-414012	29,1	43,6	58,2	65,5	80,0	87,3	94,6
AQ-414016P	EFE-414016	32,9	49,4	65,9	74,1	90,6	98,8	107,0

Enclosure types (polyester)		Maximum power dissipation (W) – Tamb. up to **50**°C						
		INTERNAL TEMP.60°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
AQ-080806P	EFE-080806	1,7	3,4	5,2	6,0	7,8	8,7	9,5
AQ-080808P	EFE-080808	2,2	4,5	6,8	7,9	10,2	11,3	12,5
AR-081106P	EFE-081106	2,1	4,2	6,4	7,4	9,6	10,6	11,7
AR-081606P	EFE-081606	2,8	5,7	8,6	10,1	13,0	14,4	15,9
AR-081906P	EFE-081906	3,2	6,4	9,6	11,2	14,4	16,0	17,6
AQ-121209P	EFE-121209	3,9	7,9	11,9	13,9	17,9	19,9	21,9
AR-122209P	EFE-122209	5,4	10,8	16,2	18,9	24,3	27,0	29,7
AQ-161609P	EFE-161609	5,1	10,3	15,5	18,1	23,3	25,9	28,5
AR-162609P	EFE-162609	6,7	13,4	20,1	23,4	30,1	33,5	36,8
AR-163609P	EFE-163609	8,1	16,2	24,3	28,3	36,4	40,5	44,5
AQ-252612P	EFE-252612	9,4	18,8	28,2	32,9	42,3	47,0	51,7
AQ-252616P	EFE-252616	10,8	21,7	32,6	38,1	49,0	54,4	59,9
AR-254012P	EFE-254012	11,9	23,9	35,9	41,9	53,9	59,9	65,9
AR-254016P	EFE-254016	13,7	27,4	41,2	48,1	61,8	68,7	75,6
AR-256012P	EFE-256012	14,5	29,0	43,5	50,8	65,3	72,6	79,8
AQ-414012P	EFE-414012	14,5	29,1	43,6	50,9	65,5	72,7	80,0
AQ-414016P	EFE-414016	16,4	32,9	49,4	57,6	74,1	82,3	90,6

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Enclosure types (polyester)		Maximum power dissipation (W) – Tamb. up to **55**°C						
		INTERNAL TEMP.65°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
AQ-080806P	EFE-080806	1,7	2,6	4,3	5,2	6,9	7,8	8,7
AQ-080808P	EFE-080808	2,2	3,4	5,6	6,8	9,1	10,2	11,3
AR-081106P	EFE-081106	2,1	3,2	5,3	6,4	8,5	9,6	10,6
AR-081606P	EFE-081606	2,8	4,3	7,2	8,6	11,5	13,0	14,4
AR-081906P	EFE-081906	3,2	4,8	8,0	9,6	12,8	14,4	16,0
AQ-121209P	EFE-121209	3,9	5,9	9,9	11,9	15,9	17,9	19,9
AR-122209P	EFE-122209	5,4	8,1	13,5	16,2	21,6	24,3	27,0
AQ-161609P	EFE-161609	5,1	7,7	12,9	15,5	20,7	23,3	25,9
AR-162609P	EFE-162609	6,7	10,0	16,7	20,1	26,8	30,1	33,5
AR-163609P	EFE-163609	8,1	12,1	20,2	24,3	32,4	36,4	40,5
AQ-252612P	EFE-252612	9,4	14,1	23,5	28,2	37,6	42,3	47,0
AQ-252616P	EFE-252616	10,8	16,3	27,2	32,6	43,5	49,0	54,4
AR-254012P	EFE-254012	11,9	17,9	29,9	35,9	47,9	53,9	59,9
AR-254016P	EFE-254016	13,7	20,6	34,3	41,2	54,9	61,8	68,7
AR-256012P	EFE-256012	14,5	21,7	36,3	43,5	58,0	65,3	72,6
AQ-414012P	EFE-414012	14,5	21,8	36,3	43,6	58,2	65,5	72,7
AQ-414016P	EFE-414016	16,4	24,7	41,1	49,4	65,9	74,1	82,3

Enclosure types (polyester)		Maximum power dissipation (W) – Tamb. up to **60**°C					
		INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
AQ-080806P	EFE-080806	1,7	3,4	4,3	6,0	6,9	7,8
AQ-080808P	EFE-080808	2,2	4,5	5,6	7,9	9,1	10,2
AR-081106P	EFE-081106	2,1	4,2	5,3	7,4	8,5	9,6
AR-081606P	EFE-081606	2,8	5,7	7,2	10,1	11,5	13,0
AR-081906P	EFE-081906	3,2	6,4	8,0	11,2	12,8	14,4
AQ-121209P	EFE-121209	3,9	7,9	9,9	13,9	15,9	17,9
AR-122209P	EFE-122209	5,4	10,8	13,5	18,9	21,6	24,3
AQ-161609P	EFE-161609	5,1	10,3	12,9	18,1	20,7	23,3
AR-162609P	EFE-162609	6,7	13,4	16,7	23,4	26,8	30,1
AR-163609P	EFE-163609	8,1	16,2	20,2	28,3	32,4	36,4
AQ-252612P	EFE-252612	9,4	18,8	23,5	32,9	37,6	42,3
AQ-252616P	EFE-252616	10,8	21,7	27,2	38,1	43,5	49,0
AR-254012P	EFE-254012	11,9	23,9	29,9	41,9	47,9	53,9
AR-254016P	EFE-254016	13,7	27,4	34,3	48,1	54,9	61,8
AR-256012P	EFE-256012	14,5	29,0	36,3	50,8	58,0	65,3
AQ-414012P	EFE-414012	14,5	29,1	36,3	50,9	58,2	65,5
AQ-414016P	EFE-414016	16,4	32,9	41,1	57,6	65,9	74,1

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Enclosure types (polyester)		Maximum power dissipation (W) – Tamb. up to **95**°C	
		INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
AQ-080806P	EFE-080806	0,8	1,7
AQ-080808P	EFE-080808	1,1	2,2
AR-081106P	EFE-081106	1,0	2,1
AR-081606P	EFE-081606	1,4	2,8
AR-081906P	EFE-081906	1,6	3,2
AQ-121209P	EFE-121209	1,9	3,9
AR-122209P	EFE-122209	2,7	5,4
AQ-161609P	EFE-161609	2,5	5,1
AR-162609P	EFE-162609	3,3	6,7
AR-163609P	EFE-163609	4,0	8,1
AQ-252612P	EFE-252612	4,7	9,4
AQ-252616P	EFE-252616	5,4	10,8
AR-254012P	EFE-254012	5,9	11,9
AR-254016P	EFE-254016	6,8	13,7
AR-256012P	EFE-256012	7,2	14,5
AQ-414012P	EFE-414012	7,2	14,5
AQ-414016P	EFE-414016	8,2	16,4

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Power dissipation – Aluminum alloy enclosures

Enclosure types (aluminium)		Maximum power dissipation (W) – Tamb. up to **40**°C						
		INTERNAL TEMP.60°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
AQ-080806AL	EFXE-080806AL	5,2	7,8	10,4	11,7	14,3	15,6	16,9
AR-081306AL	EFXE-081306AL	7,0	10,6	14,1	15,9	19,4	21,2	23,0
AR-081806AL	EFXE-081806AL	8,9	13,3	17,8	20,0	24,5	26,7	28,9
AR-081808AL	EFXE-081808AL	11,0	16,5	22,1	24,8	30,4	33,1	35,9
AR-082505AL	EFXE-082505AL	10,7	16,1	21,4	24,1	29,5	32,2	34,8
AR-082508AL	EFXE-082508AL	14,2	21,4	28,5	32,1	39,2	42,8	46,4
AQ-101008AL	EFXE-101008AL	8,7	13,0	17,4	19,6	23,9	26,1	28,3
AR-101508AL	EFXE-101508AL	11,1	16,6	22,2	24,9	30,5	33,3	36,0
AR-101608AL	EFXE-101608AL	11,5	17,3	23,1	26,0	31,8	34,7	37,6
AR-102008AL	EFXE-102008AL	13,4	20,1	26,8	30,2	36,9	40,3	43,6
AQ-121208AL	EFXE-121208AL	10,8	16,2	21,6	24,3	29,7	32,4	35,1
AR-122209AL	EFXE-122209AL	16,8	25,3	33,7	37,9	46,3	50,6	54,8
AQ-141409AL	EFXE-141409AL	13,7	20,6	27,5	31,0	37,9	41,3	44,8
AR-142009AL	EFXE-142009AL	17,1	25,7	34,2	38,5	47,1	51,4	55,7
AQ-161609AL	EFXE-161609AL	17,2	25,8	34,4	38,7	47,3	51,6	55,9
AR-162410AL	EFXE-162410AL	22,1	33,1	44,2	49,7	60,8	66,3	71,8
AR-162609AL	EFXE-162609AL	21,9	32,8	43,8	49,3	60,2	65,7	71,2
AQ-181810AL	EFXE-181810AL	19,7	29,6	39,5	44,4	54,3	59,2	64,2
AR-182810AL	EFXE-182810AL	26,1	39,1	52,2	58,7	71,8	78,3	84,8
AR-202311AL	EFXE-202311AL	25,8	38,7	51,6	58,0	71,0	77,4	83,9
AR-202318AL	EFXE-202318AL	35,5	53,3	71,1	80,0	97,8	106,7	115,6
AR-232811AL	EFXE-232811AL	31,6	47,5	63,3	71,3	87,1	95,0	103,0
AR-233312AL	EFXE-233312AL	37,0	55,6	74,1	83,4	101,9	111,2	120,5
AR-233318AL	EFXE-233318AL	47,5	71,3	95,1	107,0	130,8	142,7	154,6

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Enclosure types (aluminium)		Maximum power dissipation (W) – Tamb. up to **50**°C						
		INTERNAL TEMP.60°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
AQ-080806AL	EFXE-080806AL	2,6	5,2	7,8	9,1	11,7	13,0	14,3
AR-081306AL	EFXE-081306AL	3,5	7,0	10,6	12,3	15,9	17,7	19,4
AR-081806AL	EFXE-081806AL	4,4	8,9	13,3	15,5	20,0	22,2	24,5
AR-081808AL	EFXE-081808AL	5,5	11,0	16,5	19,3	24,8	27,6	30,4
AR-082505AL	EFXE-082505AL	5,3	10,7	16,1	18,7	24,1	26,8	29,5
AR-082508AL	EFXE-082508AL	7,1	14,2	21,4	24,9	32,1	35,7	39,2
AQ-101008AL	EFXE-101008AL	4,3	8,7	13,0	15,2	19,6	21,7	23,9
AR-101508AL	EFXE-101508AL	5,5	11,1	16,6	19,4	24,9	27,7	30,5
AR-101608AL	EFXE-101608AL	5,7	11,5	17,3	20,2	26,0	28,9	31,8
AR-102008AL	EFXE-102008AL	6,7	13,4	20,1	23,5	30,2	33,5	36,9
AQ-121208AL	EFXE-121208AL	5,4	10,8	16,2	18,9	24,3	27,0	29,7
AR-122209AL	EFXE-122209AL	8,4	16,8	25,3	29,5	37,9	42,1	46,3
AQ-141409AL	EFXE-141409AL	6,8	13,7	20,6	24,1	31,0	34,4	37,9
AR-142009AL	EFXE-142009AL	8,5	17,1	25,7	30,0	38,5	42,8	47,1
AQ-161609AL	EFXE-161609AL	8,6	17,2	25,8	30,1	38,7	43,0	47,3
AR-162410AL	EFXE-162410AL	11,0	22,1	33,1	38,7	49,7	55,3	60,8
AR-162609AL	EFXE-162609AL	10,9	21,9	32,8	38,3	49,3	54,8	60,2
AQ-181810AL	EFXE-181810AL	9,8	19,7	29,6	34,5	44,4	49,3	54,3
AR-182810AL	EFXE-182810AL	13,0	26,1	39,1	45,7	58,7	65,2	71,8
AR-202311AL	EFXE-202311AL	12,9	25,8	38,7	45,1	58,0	64,5	71,0
AR-202318AL	EFXE-202318AL	17,7	35,5	53,3	62,2	80,0	88,9	97,8
AR-232811AL	EFXE-232811AL	15,8	31,6	47,5	55,4	71,3	79,2	87,1
AR-233312AL	EFXE-233312AL	18,5	37,0	55,6	64,8	83,4	92,7	101,9
AR-233318AL	EFXE-233318AL	23,7	47,5	71,3	83,2	107,0	118,9	130,8

Enclosure types (aluminium)		Maximum power dissipation (W) – Tamb. up to **55**°C						
		INTERNAL TEMP.65°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
AQ-080806AL	EFXE-080806AL	2,6	3,9	6,5	7,8	10,4	11,7	13,0
AR-081306AL	EFXE-081306AL	3,5	5,3	8,8	10,6	14,1	15,9	17,7
AR-081806AL	EFXE-081806AL	4,4	6,6	11,1	13,3	17,8	20,0	22,2
AR-081808AL	EFXE-081808AL	5,5	8,2	13,8	16,5	22,1	24,8	27,6
AR-082505AL	EFXE-082505AL	5,3	8,0	13,4	16,1	21,4	24,1	26,8
AR-082508AL	EFXE-082508AL	7,1	10,7	17,8	21,4	28,5	32,1	35,7
AQ-101008AL	EFXE-101008AL	4,3	6,5	10,8	13,0	17,4	19,6	21,7
AR-101508AL	EFXE-101508AL	5,5	8,3	13,8	16,6	22,2	24,9	27,7
AR-101608AL	EFXE-101608AL	5,7	8,6	14,4	17,3	23,1	26,0	28,9
AR-102008AL	EFXE-102008AL	6,7	10,0	16,7	20,1	26,8	30,2	33,5
AQ-121208AL	EFXE-121208AL	5,4	8,1	13,5	16,2	21,6	24,3	27,0
AR-122209AL	EFXE-122209AL	8,4	12,6	21,0	25,3	33,7	37,9	42,1
AQ-141409AL	EFXE-141409AL	6,8	10,3	17,2	20,6	27,5	31,0	34,4
AR-142009AL	EFXE-142009AL	8,5	12,8	21,4	25,7	34,2	38,5	42,8
AQ-161609AL	EFXE-161609AL	8,6	12,9	21,5	25,8	34,4	38,7	43,0
AR-162410AL	EFXE-162410AL	11,0	16,5	27,6	33,1	44,2	49,7	55,3
AR-162609AL	EFXE-162609AL	10,9	16,4	27,4	32,8	43,8	49,3	54,8
AQ-181810AL	EFXE-181810AL	9,8	14,8	24,6	29,6	39,5	44,4	49,3
AR-182810AL	EFXE-182810AL	13,0	19,5	32,6	39,1	52,2	58,7	65,2
AR-202311AL	EFXE-202311AL	12,9	19,3	32,2	38,7	51,6	58,0	64,5
AR-202318AL	EFXE-202318AL	17,7	26,6	44,4	53,3	71,1	80,0	88,9
AR-232811AL	EFXE-232811AL	15,8	23,7	39,6	47,5	63,3	71,3	79,2
AR-233312AL	EFXE-233312AL	18,5	27,8	46,3	55,6	74,1	83,4	92,7
AR-233318AL	EFXE-233318AL	23,7	35,6	59,4	71,3	95,1	107,0	118,9

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Enclosure types (aluminium)		Maximum power dissipation (W) – Tamb. up to **60**°C					
		INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
AQ-080806AL	EFXE-080806AL	2,6	5,2	6,5	9,1	10,4	11,7
AR-081306AL	EFXE-081306AL	3,5	7,0	8,8	12,3	14,1	15,9
AR-081806AL	EFXE-081806AL	4,4	8,9	11,1	15,5	17,8	20,0
AR-081808AL	EFXE-081808AL	5,5	11,0	13,8	19,3	22,1	24,8
AR-082505AL	EFXE-082505AL	5,3	10,7	13,4	18,7	21,4	24,1
AR-082508AL	EFXE-082508AL	7,1	14,2	17,8	24,9	28,5	32,1
AQ-101008AL	EFXE-101008AL	4,3	8,7	10,8	15,2	17,4	19,6
AR-101508AL	EFXE-101508AL	5,5	11,1	13,8	19,4	22,2	24,9
AR-101608AL	EFXE-101608AL	5,7	11,5	14,4	20,2	23,1	26,0
AR-102008AL	EFXE-102008AL	6,7	13,4	16,7	23,5	26,8	30,2
AQ-121208AL	EFXE-121208AL	5,4	10,8	13,5	18,9	21,6	24,3
AR-122209AL	EFXE-122209AL	8,4	16,8	21,0	29,5	33,7	37,9
AQ-141409AL	EFXE-141409AL	6,8	13,7	17,2	24,1	27,5	31,0
AR-142009AL	EFXE-142009AL	8,5	17,1	21,4	30,0	34,2	38,5
AQ-161609AL	EFXE-161609AL	8,6	17,2	21,5	30,1	34,4	38,7
AR-162410AL	EFXE-162410AL	11,0	22,1	27,6	38,7	44,2	49,7
AR-162609AL	EFXE-162609AL	10,9	21,9	27,4	38,3	43,8	49,3
AQ-181810AL	EFXE-181810AL	9,8	19,7	24,6	34,5	39,5	44,4
AR-182810AL	EFXE-182810AL	13,0	26,1	32,6	45,7	52,2	58,7
AR-202311AL	EFXE-202311AL	12,9	25,8	32,2	45,1	51,6	58,0
AR-202318AL	EFXE-202318AL	17,7	35,5	44,4	62,2	71,1	80,0
AR-232811AL	EFXE-232811AL	15,8	31,6	39,6	55,4	63,3	71,3
AR-233312AL	EFXE-233312AL	18,5	37,0	46,3	64,8	74,1	83,4
AR-233318AL	EFXE-233318AL	23,7	47,5	59,4	83,2	95,1	107,0

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Enclosure types (aluminium)		Maximum power dissipation (W) – Tamb. up to **95**°C	
		INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
AQ-080806AL	EFXE-080806AL	1,3	2,6
AR-081306AL	EFXE-081306AL	1,7	3,5
AR-081806AL	EFXE-081806AL	2,2	4,4
AR-081808AL	EFXE-081808AL	2,7	5,5
AR-082505AL	EFXE-082505AL	2,6	5,3
AR-082508AL	EFXE-082508AL	3,5	7,1
AQ-101008AL	EFXE-101008AL	2,1	4,3
AR-101508AL	EFXE-101508AL	2,7	5,5
AR-101608AL	EFXE-101608AL	2,8	5,7
AR-102008AL	EFXE-102008AL	3,3	6,7
AQ-121208AL	EFXE-121208AL	2,7	5,4
AR-122209AL	EFXE-122209AL	4,2	8,4
AQ-141409AL	EFXE-141409AL	3,4	6,8
AR-142009AL	EFXE-142009AL	4,2	8,5
AQ-161609AL	EFXE-161609AL	4,3	8,6
AR-162410AL	EFXE-162410AL	5,5	11,0
AR-162609AL	EFXE-162609AL	5,4	10,9
AQ-181810AL	EFXE-181810AL	4,9	9,8
AR-182810AL	EFXE-182810AL	6,5	13,0
AR-202311AL	EFXE-202311AL	6,4	12,9
AR-202318AL	EFXE-202318AL	8,8	17,7
AR-232811AL	EFXE-232811AL	7,9	15,8
AR-233312AL	EFXE-233312AL	9,2	18,5
AR-233318AL	EFXE-233318AL	11,8	23,7

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Power dissipation – Stainless steel enclosures SB series

Enclosure types (stainless steel)		Maximum power dissipation (W) – Tamb. up to **40**°C						
		INTERNAL TEMP.60°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
SB-101210	EFXE-101210SB	5,5	8,3	11,1	12,5	15,3	16,7	18,1
SB-151510	EFXE-151510SB	8,0	12,0	16,0	18,0	22,0	24,0	26,1
SB-142013	EFXE-142013SB	10,4	15,7	20,9	23,5	28,8	31,4	34,0
SB-202010	EFXE-202010SB	10,7	16,1	21,4	24,1	29,5	32,2	34,8
SB-202016	EFXE-202016SB	13,9	20,8	27,8	31,3	38,3	41,7	45,2
SB-202713	EFXE-202713SB	14,4	21,6	28,9	32,5	39,7	43,3	46,9
SB-272713	EFXE-272713SB	16,7	25,1	33,5	37,7	46,0	50,2	54,4
SB-203016	EFXE-203016SB	17,1	25,7	34,3	38,6	47,2	51,4	55,7
SB-273513	EFXE-273513SB	19,2	28,9	38,5	43,3	53,0	57,8	62,6
SB-282816	EFXE-282816SB	19,3	29,0	38,7	43,6	53,3	58,1	63,0
SB-204016	EFXE-204016SB	20,2	30,3	40,4	45,5	55,6	60,6	65,7
SB-353516	EFXE-353516SB	24,4	36,6	48,8	54,9	67,1	73,2	79,3
SB-282827	EFXE-282827SB	26,2	39,3	52,5	59,0	72,2	78,7	85,3
SB-355016	EFXE-355016SB	29,7	44,5	59,4	66,8	81,7	89,1	96,6
SB-383816	EFXE-383816SB	26,6	39,9	53,2	59,8	73,1	79,8	86,5
SB-384516	EFXE-384516SB	29,1	43,7	58,3	65,6	80,2	87,5	94,8
SB-385716	EFXE-385716SB	33,4	50,1	66,8	75,2	91,9	100,3	108,7
SB-505016	EFXE-505016SB	35,8	53,8	71,7	80,7	98,6	107,6	116,6
SB-383827	EFXE-383827SB	35,1	52,7	70,2	79,0	96,6	105,4	114,2
SB-575716	EFXE-575716SB	41,5	62,3	83,1	93,5	114,3	124,7	135,1
SB-577620	EFXE-577620SB	53,9	80,9	107,9	121,3	148,3	161,8	175,3
SB-575730	EFXE-575730SB	55,8	83,7	111,6	125,6	153,5	167,5	181,4
SB-769520	EFXE-769520SB	72,2	108,3	144,4	162,4	198,5	216,6	234,6
SB-1258040	EFXE-1258040SB	72,2	108,3	144,4	162,4	198,5	216,6	234,6

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Enclosure types (Stainless steel)		Maximum power dissipation (W) – Tamb. up to **50**°C						
		INTERNAL TEMP.60°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
SB-101210	EFXE-101210SB	2,7	5,5	8,3	9,7	12,5	13,9	15,3
SB-151510	EFXE-151510SB	4,0	8,0	12,0	14,0	18,0	20,0	22,0
SB-142013	EFXE-142013SB	5,2	10,4	15,7	18,3	23,5	26,2	28,8
SB-202010	EFXE-202010SB	5,3	10,7	16,1	18,7	24,1	26,8	29,5
SB-202016	EFXE-202016SB	6,9	13,9	20,8	24,3	31,3	34,8	38,3
SB-202713	EFXE-202713SB	7,2	14,4	21,6	25,2	32,5	36,1	39,7
SB-272713	EFXE-272713SB	8,3	16,7	25,1	29,3	37,7	41,8	46,0
SB-203016	EFXE-203016SB	8,5	17,1	25,7	30,0	38,6	42,9	47,2
SB-273513	EFXE-273513SB	9,6	19,2	28,9	33,7	43,3	48,2	53,0
SB-282816	EFXE-282816SB	9,6	19,3	29,0	33,9	43,6	48,4	53,3
SB-204016	EFXE-204016SB	10,1	20,2	30,3	35,4	45,5	50,5	55,6
SB-353516	EFXE-353516SB	12,2	24,4	36,6	42,7	54,9	61,0	67,1
SB-282827	EFXE-282827SB	13,1	26,2	39,3	45,9	59,0	65,6	72,2
SB-355016	EFXE-355016SB	14,8	29,7	44,5	52,0	66,8	74,3	81,7
SB-383816	EFXE-383816SB	13,3	26,6	39,9	46,5	59,8	66,5	73,1
SB-384516	EFXE-384516SB	14,5	29,1	43,7	51,0	65,6	72,9	80,2
SB-385716	EFXE-385716SB	16,7	33,4	50,1	58,5	75,2	83,6	91,9
SB-505016	EFXE-505016SB	17,9	35,8	53,8	62,7	80,7	89,7	98,6
SB-383827	EFXE-383827SB	17,5	35,1	52,7	61,4	79,0	87,8	96,6
SB-575716	EFXE-575716SB	20,7	41,5	62,3	72,7	93,5	103,9	114,3
SB-577620	EFXE-577620SB	26,9	53,9	80,9	94,4	121,3	134,8	148,3
SB-575730	EFXE-575730SB	27,9	55,8	83,7	97,7	125,6	139,5	153,5
SB-769520	EFXE-769520SB	36,1	72,2	108,3	126,3	162,4	180,5	198,5
SB-1258040	EFXE-1258040SB	36,1	72,2	108,3	126,3	162,4	180,5	198,5

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Enclosure types (Stainless steel)		Maximum power dissipation (W) – Tamb. up to **55**°C						
		INTERNAL TEMP.65°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
SB-101210	EFXE-101210SB	2,7	4,1	6,9	8,3	11,1	12,5	13,9
SB-151510	EFXE-151510SB	4,0	6,0	10,0	12,0	16,0	18,0	20,0
SB-142013	EFXE-142013SB	5,2	7,8	13,1	15,7	20,9	23,5	26,2
SB-202010	EFXE-202010SB	5,3	8,0	13,4	16,1	21,4	24,1	26,8
SB-202016	EFXE-202016SB	6,9	10,4	17,4	20,8	27,8	31,3	34,8
SB-202713	EFXE-202713SB	7,2	10,8	18,0	21,6	28,9	32,5	36,1
SB-272713	EFXE-272713SB	8,3	12,5	20,9	25,1	33,5	37,7	41,8
SB-203016	EFXE-203016SB	8,5	12,8	21,4	25,7	34,3	38,6	42,9
SB-273513	EFXE-273513SB	9,6	14,4	24,1	28,9	38,5	43,3	48,2
SB-282816	EFXE-282816SB	9,6	14,5	24,2	29,0	38,7	43,6	48,4
SB-204016	EFXE-204016SB	10,1	15,1	25,2	30,3	40,4	45,5	50,5
SB-353516	EFXE-353516SB	12,2	18,3	30,5	36,6	48,8	54,9	61,0
SB-282827	EFXE-282827SB	13,1	19,6	32,8	39,3	52,5	59,0	65,6
SB-355016	EFXE-355016SB	14,8	22,2	37,1	44,5	59,4	66,8	74,3
SB-383816	EFXE-383816SB	13,3	19,9	33,2	39,9	53,2	59,8	66,5
SB-384516	EFXE-384516SB	14,5	21,8	36,4	43,7	58,3	65,6	72,9
SB-385716	EFXE-385716SB	16,7	25,0	41,8	50,1	66,8	75,2	83,6
SB-505016	EFXE-505016SB	17,9	26,9	44,8	53,8	71,7	80,7	89,7
SB-383827	EFXE-383827SB	17,5	26,3	43,9	52,7	70,2	79,0	87,8
SB-575716	EFXE-575716SB	20,7	31,1	51,9	62,3	83,1	93,5	103,9
SB-577620	EFXE-577620SB	26,9	40,4	67,4	80,9	107,9	121,3	134,8
SB-575730	EFXE-575730SB	27,9	41,8	69,7	83,7	111,6	125,6	139,5
SB-769520	EFXE-769520SB	36,1	54,1	90,2	108,3	144,4	162,4	180,5
SB-1258040	EFXE-1258040SB	36,1	54,1	90,2	108,3	144,4	162,4	180,5

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Enclosure types (Stainless steel)		Maximum power dissipation (W) – Tamb. up to **60**°C					
		INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
SB-101210	EFXE-101210SB	2,7	5,5	6,9	9,7	11,1	12,5
SB-151510	EFXE-151510SB	4,0	8,0	10,0	14,0	16,0	18,0
SB-142013	EFXE-142013SB	5,2	10,4	13,1	18,3	20,9	23,5
SB-202010	EFXE-202010SB	5,3	10,7	13,4	18,7	21,4	24,1
SB-202016	EFXE-202016SB	6,9	13,9	17,4	24,3	27,8	31,3
SB-202713	EFXE-202713SB	7,2	14,4	18,0	25,2	28,9	32,5
SB-272713	EFXE-272713SB	8,3	16,7	20,9	29,3	33,5	37,7
SB-203016	EFXE-203016SB	8,5	17,1	21,4	30,0	34,3	38,6
SB-273513	EFXE-273513SB	9,6	19,2	24,1	33,7	38,5	43,3
SB-282816	EFXE-282816SB	9,6	19,3	24,2	33,9	38,7	43,6
SB-204016	EFXE-204016SB	10,1	20,2	25,2	35,4	40,4	45,5
SB-353516	EFXE-353516SB	12,2	24,4	30,5	42,7	48,8	54,9
SB-282827	EFXE-282827SB	13,1	26,2	32,8	45,9	52,5	59,0
SB-355016	EFXE-355016SB	14,8	29,7	37,1	52,0	59,4	66,8
SB-383816	EFXE-383816SB	13,3	26,6	33,2	46,5	53,2	59,8
SB-384516	EFXE-384516SB	14,5	29,1	36,4	51,0	58,3	65,6
SB-385716	EFXE-385716SB	16,7	33,4	41,8	58,5	66,8	75,2
SB-505016	EFXE-505016SB	17,9	35,8	44,8	62,7	71,7	80,7
SB-383827	EFXE-383827SB	17,5	35,1	43,9	61,4	70,2	79,0
SB-575716	EFXE-575716SB	20,7	41,5	51,9	72,7	83,1	93,5
SB-577620	EFXE-577620SB	26,9	53,9	67,4	94,4	107,9	121,3
SB-575730	EFXE-575730SB	27,9	55,8	69,7	97,7	111,6	125,6
SB-769520	EFXE-769520SB	36,1	72,2	90,2	126,3	144,4	162,4
SB-1258040	EFXE-1258040SB	36,1	72,2	90,2	126,3	144,4	162,4

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Enclosure types (Stainless steel)		Maximum power dissipation (W) – Tamb. up to **95**°C	
		INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
SB-101210	EFXE-101210SB	1,3	2,7
SB-151510	EFXE-151510SB	2,0	4,0
SB-142013	EFXE-142013SB	2,6	5,2
SB-202010	EFXE-202010SB	2,6	5,3
SB-202016	EFXE-202016SB	3,4	6,9
SB-202713	EFXE-202713SB	3,6	7,2
SB-272713	EFXE-272713SB	4,1	8,3
SB-203016	EFXE-203016SB	4,2	8,5
SB-273513	EFXE-273513SB	4,8	9,6
SB-282816	EFXE-282816SB	4,8	9,6
SB-204016	EFXE-204016SB	5,0	10,1
SB-353516	EFXE-353516SB	6,1	12,2
SB-282827	EFXE-282827SB	6,5	13,1
SB-355016	EFXE-355016SB	7,4	14,8
SB-383816	EFXE-383816SB	6,6	13,3
SB-384516	EFXE-384516SB	7,2	14,5
SB-385716	EFXE-385716SB	8,3	16,7
SB-505016	EFXE-505016SB	8,9	17,9
SB-383827	EFXE-383827SB	8,7	17,5
SB-575716	EFXE-575716SB	10,3	20,7
SB-577620	EFXE-577620SB	13,4	26,9
SB-575730	EFXE-575730SB	13,9	27,9
SB-769520	EFXE-769520SB	18,0	36,1
SB-1258040	EFXE-1258040SB	18,0	36,1

Power dissipation – Stainless steel enclosures ST series

Enclosure types (Stainless steel)		Maximum power dissipation (W) – Tamb. up to **40**°C						
		INTERNAL TEMP.60°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
ST-101210	EFXE-101210ST	5,5	8,3	11,1	12,5	15,3	16,7	18,1
ST-151510	EFXE-151510ST	8,0	12,0	16,0	18,0	22,0	24,0	26,1
ST-142013	EFXE-142013ST	10,4	15,7	20,9	23,5	28,8	31,4	34,0
ST-202010	EFXE-202010ST	10,7	16,1	21,4	24,1	29,5	32,2	34,8
ST-202016	EFXE-202016ST	13,9	20,8	27,8	31,3	38,3	41,7	45,2
ST-202713	EFXE-202713ST	14,4	21,6	28,9	32,5	39,7	43,3	46,9
ST-272713	EFXE-272713ST	16,7	25,1	33,5	37,7	46,0	50,2	54,4
ST-203016	EFXE-203016ST	17,1	25,7	34,3	38,6	47,2	51,4	55,7
ST-273513	EFXE-273513ST	19,2	28,9	38,5	43,3	53,0	57,8	62,6
ST-282816	EFXE-282816ST	19,3	29,0	38,7	43,6	53,3	58,1	63,0
ST-204016	EFXE-204016ST	20,2	30,3	40,4	45,5	55,6	60,6	65,7
ST-353516	EFXE-353516ST	24,4	36,6	48,8	54,9	67,1	73,2	79,3
ST-282827	EFXE-282827ST	26,2	39,3	52,5	59,0	72,2	78,7	85,3
ST-355016	EFXE-355016ST	29,7	44,5	59,4	66,8	81,7	89,1	96,6
ST-383816	EFXE-383816ST	26,6	39,9	53,2	59,8	73,1	79,8	86,5
ST-384516	EFXE-384516ST	29,1	43,7	58,3	65,6	80,2	87,5	94,8
ST-385716	EFXE-385716ST	33,4	50,1	66,8	75,2	91,9	100,3	108,7
ST-505016	EFXE-505016ST	35,8	53,8	71,7	80,7	98,6	107,6	116,6
ST-383827	EFXE-383827ST	35,1	52,7	70,2	79,0	96,6	105,4	114,2
ST-575716	EFXE-575716ST	41,5	62,3	83,1	93,5	114,3	124,7	135,1
ST-577620	EFXE-577620ST	53,9	80,9	107,9	121,3	148,3	161,8	175,3
ST-575730	EFXE-575730ST	55,8	83,7	111,6	125,6	153,5	167,5	181,4
ST-769520	EFXE-769520ST	72,2	108,3	144,4	162,4	198,5	216,6	234,6
ST-1258040	EFXE-1258040ST	72,2	108,3	144,4	162,4	198,5	216,6	234,6

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Enclosure types (Stainless steel)		Maximum power dissipation (W) – Tamb. up to **50**°C						
		INTERNAL TEMP.60°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
ST-101210	EFXE-101210ST	2,7	5,5	8,3	9,7	12,5	13,9	15,3
ST-151510	EFXE-151510ST	4,0	8,0	12,0	14,0	18,0	20,0	22,0
ST-142013	EFXE-142013ST	5,2	10,4	15,7	18,3	23,5	26,2	28,8
ST-202010	EFXE-202010ST	5,3	10,7	16,1	18,7	24,1	26,8	29,5
ST-202016	EFXE-202016ST	6,9	13,9	20,8	24,3	31,3	34,8	38,3
ST-202713	EFXE-202713ST	7,2	14,4	21,6	25,2	32,5	36,1	39,7
ST-272713	EFXE-272713ST	8,3	16,7	25,1	29,3	37,7	41,8	46,0
ST-203016	EFXE-203016ST	8,5	17,1	25,7	30,0	38,6	42,9	47,2
ST-273513	EFXE-273513ST	9,6	19,2	28,9	33,7	43,3	48,2	53,0
ST-282816	EFXE-282816ST	9,6	19,3	29,0	33,9	43,6	48,4	53,3
ST-204016	EFXE-204016ST	10,1	20,2	30,3	35,4	45,5	50,5	55,6
ST-353516	EFXE-353516ST	12,2	24,4	36,6	42,7	54,9	61,0	67,1
ST-282827	EFXE-282827ST	13,1	26,2	39,3	45,9	59,0	65,6	72,2
ST-355016	EFXE-355016ST	14,8	29,7	44,5	52,0	66,8	74,3	81,7
ST-383816	EFXE-383816ST	13,3	26,6	39,9	46,5	59,8	66,5	73,1
ST-384516	EFXE-384516ST	14,5	29,1	43,7	51,0	65,6	72,9	80,2
ST-385716	EFXE-385716ST	16,7	33,4	50,1	58,5	75,2	83,6	91,9
ST-505016	EFXE-505016ST	17,9	35,8	53,8	62,7	80,7	89,7	98,6
ST-383827	EFXE-383827ST	17,5	35,1	52,7	61,4	79,0	87,8	96,6
ST-575716	EFXE-575716ST	20,7	41,5	62,3	72,7	93,5	103,9	114,3
ST-577620	EFXE-577620ST	26,9	53,9	80,9	94,4	121,3	134,8	148,3
ST-575730	EFXE-575730ST	27,9	55,8	83,7	97,7	125,6	139,5	153,5
ST-769520	EFXE-769520ST	36,1	72,2	108,3	126,3	162,4	180,5	198,5
ST-1258040	EFXE-1258040ST	36,1	72,2	108,3	126,3	162,4	180,5	198,5

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Enclosure types (Stainless steel)		Maximum power dissipation (W) – Tamb. up to **55**°C						
		INTERNAL TEMP.65°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
ST-101210	EFXE-101210ST	2,7	4,1	6,9	8,3	11,1	12,5	13,9
ST-151510	EFXE-151510ST	4,0	6,0	10,0	12,0	16,0	18,0	20,0
ST-142013	EFXE-142013ST	5,2	7,8	13,1	15,7	20,9	23,5	26,2
ST-202010	EFXE-202010ST	5,3	8,0	13,4	16,1	21,4	24,1	26,8
ST-202016	EFXE-202016ST	6,9	10,4	17,4	20,8	27,8	31,3	34,8
ST-202713	EFXE-202713ST	7,2	10,8	18,0	21,6	28,9	32,5	36,1
ST-272713	EFXE-272713ST	8,3	12,5	20,9	25,1	33,5	37,7	41,8
ST-203016	EFXE-203016ST	8,5	12,8	21,4	25,7	34,3	38,6	42,9
ST-273513	EFXE-273513ST	9,6	14,4	24,1	28,9	38,5	43,3	48,2
ST-282816	EFXE-282816ST	9,6	14,5	24,2	29,0	38,7	43,6	48,4
ST-204016	EFXE-204016ST	10,1	15,1	25,2	30,3	40,4	45,5	50,5
ST-353516	EFXE-353516ST	12,2	18,3	30,5	36,6	48,8	54,9	61,0
ST-282827	EFXE-282827ST	13,1	19,6	32,8	39,3	52,5	59,0	65,6
ST-355016	EFXE-355016ST	14,8	22,2	37,1	44,5	59,4	66,8	74,3
ST-383816	EFXE-383816ST	13,3	19,9	33,2	39,9	53,2	59,8	66,5
ST-384516	EFXE-384516ST	14,5	21,8	36,4	43,7	58,3	65,6	72,9
ST-385716	EFXE-385716ST	16,7	25,0	41,8	50,1	66,8	75,2	83,6
ST-505016	EFXE-505016ST	17,9	26,9	44,8	53,8	71,7	80,7	89,7
ST-383827	EFXE-383827ST	17,5	26,3	43,9	52,7	70,2	79,0	87,8
ST-575716	EFXE-575716ST	20,7	31,1	51,9	62,3	83,1	93,5	103,9
ST-577620	EFXE-577620ST	26,9	40,4	67,4	80,9	107,9	121,3	134,8
ST-575730	EFXE-575730ST	27,9	41,8	69,7	83,7	111,6	125,6	139,5
ST-769520	EFXE-769520ST	36,1	54,1	90,2	108,3	144,4	162,4	180,5
ST-1258040	EFXE-1258040ST	36,1	54,1	90,2	108,3	144,4	162,4	180,5

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Enclosure types (Stainless steel)		Maximum power dissipation (W) – Tamb. up to **60**°C					
		INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
ST-101210	EFXE-101210ST	2,7	5,5	6,9	9,7	11,1	12,5
ST-151510	EFXE-151510ST	4,0	8,0	10,0	14,0	16,0	18,0
ST-142013	EFXE-142013ST	5,2	10,4	13,1	18,3	20,9	23,5
ST-202010	EFXE-202010ST	5,3	10,7	13,4	18,7	21,4	24,1
ST-202016	EFXE-202016ST	6,9	13,9	17,4	24,3	27,8	31,3
ST-202713	EFXE-202713ST	7,2	14,4	18,0	25,2	28,9	32,5
ST-272713	EFXE-272713ST	8,3	16,7	20,9	29,3	33,5	37,7
ST-203016	EFXE-203016ST	8,5	17,1	21,4	30,0	34,3	38,6
ST-273513	EFXE-273513ST	9,6	19,2	24,1	33,7	38,5	43,3
ST-282816	EFXE-282816ST	9,6	19,3	24,2	33,9	38,7	43,6
ST-204016	EFXE-204016ST	10,1	20,2	25,2	35,4	40,4	45,5
ST-353516	EFXE-353516ST	12,2	24,4	30,5	42,7	48,8	54,9
ST-282827	EFXE-282827ST	13,1	26,2	32,8	45,9	52,5	59,0
ST-355016	EFXE-355016ST	14,8	29,7	37,1	52,0	59,4	66,8
ST-383816	EFXE-383816ST	13,3	26,6	33,2	46,5	53,2	59,8
ST-384516	EFXE-384516ST	14,5	29,1	36,4	51,0	58,3	65,6
ST-385716	EFXE-385716ST	16,7	33,4	41,8	58,5	66,8	75,2
ST-505016	EFXE-505016ST	17,9	35,8	44,8	62,7	71,7	80,7
ST-383827	EFXE-383827ST	17,5	35,1	43,9	61,4	70,2	79,0
ST-575716	EFXE-575716ST	20,7	41,5	51,9	72,7	83,1	93,5
ST-577620	EFXE-577620ST	26,9	53,9	67,4	94,4	107,9	121,3
ST-575730	EFXE-575730ST	27,9	55,8	69,7	97,7	111,6	125,6
ST-769520	EFXE-769520ST	36,1	72,2	90,2	126,3	144,4	162,4
ST-1258040	EFXE-1258040ST	36,1	72,2	90,2	126,3	144,4	162,4

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Enclosure types (Stainless steel)		Maximum power dissipation (W) – Tamb. up to **95**°C	
		INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
ST-101210	EFXE-101210ST	1,3	2,7
ST-151510	EFXE-151510ST	2,0	4,0
ST-142013	EFXE-142013ST	2,6	5,2
ST-202010	EFXE-202010ST	2,6	5,3
ST-202016	EFXE-202016ST	3,4	6,9
ST-202713	EFXE-202713ST	3,6	7,2
ST-272713	EFXE-272713ST	4,1	8,3
ST-203016	EFXE-203016ST	4,2	8,5
ST-273513	EFXE-273513ST	4,8	9,6
ST-282816	EFXE-282816ST	4,8	9,6
ST-204016	EFXE-204016ST	5,0	10,1
ST-353516	EFXE-353516ST	6,1	12,2
ST-282827	EFXE-282827ST	6,5	13,1
ST-355016	EFXE-355016ST	7,4	14,8
ST-383816	EFXE-383816ST	6,6	13,3
ST-384516	EFXE-384516ST	7,2	14,5
ST-385716	EFXE-385716ST	8,3	16,7
ST-505016	EFXE-505016ST	8,9	17,9
ST-383827	EFXE-383827ST	8,7	17,5
ST-575716	EFXE-575716ST	10,3	20,7
ST-577620	EFXE-577620ST	13,4	26,9
ST-575730	EFXE-575730ST	13,9	27,9
ST-769520	EFXE-769520ST	18,0	36,1
ST-1258040	EFXE-1258040ST	18,0	36,1

Maximum Power Dissipation calculation

The values specified in the tables as per clause 2.1.1 may be modified within the maximum admitted Tamb and maximum admitted internal temperature as follows.

$$Pdiss\ (W) = \frac{Tmax - Tamb}{Rth}$$

$Rth = A \times (\text{enclosure surface in } mm^2 \text{ except enclosure bottom})^B$

Legend:
Rth – Thermal resistance [K/W].
Tmax – Maximum allowed temperature inside enclosure.
Tamb – Ambient temperature of enclosure
A and B - coefficients determined for each series o enclosure. Exact values are given in manufacturer's documentation.

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[16] Confidential Report No. FIDI 21 CR 075

[16.1] Routine testing

Junction boxes, local control stations and local control panels fitted with wiring, shall be subject to a routine dielectric strength test according to the clause 7.1 of IEC 60079-7.

[17] Specific Conditions of Use

- Enclosures marked with warning label: "WARNING – POTENTIAL ELECTROSTATIC CHARGING HAZARD – SEE INSTRUCTIONS" must be cleaned only by damp cloth or antistatic products.
- Apparatus equipped with drain / venting valve Technor Italsmea model ECR3:
  - the valve cannot be open when an explosive dust atmosphere is present.
  - The valve can be open when an explosive gas atmosphere is present: when open, the equipment reaches the protection degree IP44.
  - When the valve is left in open position, it should be protected from light exposure.
- On the intrinsic safety terminals, the user must only connect devices with compatible intrinsic safety parameters according to EN 60079-14.

[18] Essential Health and Safety Requirements

Covered by the conformity with harmonized standards listed under item 9.

[19] Drawings and Documents

Title:	Drawing No.:	Rev. level:	Date:
Technical note	TN2111	0	17.11.2021
Instruction for use	TN2111 Annex A	0	08.11.2021
Apparatus list	TN2111 Annex B	0	17.11.2021
Drawings:			
Cable entries, plug, adaptors coupling systems	AC2111, sheet 1	0	10.11.2021
Example of operator arrangements for AQ-AR-EFE	AC2111, sheet 2	0	10.11.2021
Example of operator arrangements for SB-ST-EFEXE	AC2111, sheet 3	0	10.11.2021
Example terminals and earth bus bar	AC2111, sheet 4	0	10.11.2021
Drain / breath device type ECR3	AC2111, sheet 5	0	10.11.2021
Marking label SB..., ST..., AQ..., AR...	AC2111, sheet 6	0	10.11.2021
Marking label SB..., ST..., AQ..., AR...	AC2111, sheet 7	0	10.11.2021

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[1] **SUPPLEMENTARY EU – TYPE EXAMINATION CERTIFICATE**

[2] Equipment or Protective Systems Intended for use in Potentially Explosive Atmospheres Directive 2014/34/EU.

[3] Supplementary EU-Type Examination Certificate Number: **FIDI 21 ATEX 0090X/1**

[4] Product: **Junction boxes, local control stations and local control panels**

Type: **AQ-***P / AQ-***AL / AR-***P / AR-***AL**
AQ-*P-HT / AQ-***AL-HT / AR-***P-HT / AR-***AL-HT**
SB-* / ST-***
EFE-* / EFXE-*** AL/ EFXE-***SB / EFXE-***ST**
EFE-*-HT / EFXE-***AL-HT**

[5] Manufacturer: **Technor Italsmea S.p.A.**

[6] Address: **Via Italia 33, 20060 Gessate (MI), Italy**

[7] This supplementary certificate extends EU – Type Examination Certificate to apply to product designed and constructed in accordance with the specification set out in the Schedule of the said certificate but having any variations specified in the Schedule to this certificate and the documents therein referred to.

[8] FIDITAS Ltd., Notified Body number 2829 in accordance with Article 17 of Directive 2014/34/EU of the European Parliament and of the Council, dated 26 February 2014, certifies that this product has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of products intended for use in potentially explosive atmospheres given in Annex II of the Directive.

[9] The examination and test results are recorded in confidential Report No: **FIDI 23 CR 019**

[10] The marking of the product shall include the following:

II 1 G	**Ex ia IIC/IIB T6...T4 Ga**(2) or
II 2(1) G or **II 2(2) G**	**Ex db eb ia/ib mb [**(3)**] IIC/IIB T6...T4 Gb**(1) or
II 2 G	**Ex eb IIC/IIB T6...T4 Gb**(1) or
II 2 D	**Ex tb IIIC T85°C...T135°C Db**

(1) Others type of protection additional to 'eb' depending to the components actually mounted.

(2) In case of enclosures containing 'eb' terminals and/or 'ia Ga' already certified components (with compatible marking) only.

(3) Associated equipment protection depending on the components actually mounted (see lists): e.g. [ia/ib/ia Ga/ia IIIC Da] and/or [ia IIIC Da] or [ia/ib/ia Ga/ia IIIC Da] and/or [ia/ib/ia Ga] [ia IIIC Da]

FIDITAS Ltd.
Certification department
Approved:

Marino Kelava, M.E.Eng.

Our ref.: 23.CRT.071

Date: 19.04.2023

Fiditas d.o.o. ZAGREB

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[11] **SCHEDULE**

[12] **SUPPLEMENTARY EU - TYPE EXAMINATION CERTIFICATE No.: FIDI 21 ATEX 0090X /1**

[13] Description of the variation to the Product

New Ex products added:

- Surge voltage protection unit type: PLUGTRAB PT2 or PT4 – PHOENIX CONTACT; II 1G> Ex ia IIC T4...T6 Ga; KEMA 00 ATEX 1099X;
- SITRANS TH230/420, type: 7NG0317, 0310; 0410 TR320/TR420 7NG0327; 7NG0320; TYPE 7NG0420; Siemens AG; II 1G Ex ia IIC T6...T4 Ga; II 2(1)G Ex ib [ia Ga] IIC T6...T4 Gb; DEKRA 17 ATEX 0116X
- Enhanced Model 644 Temperature Transmitter, ROSEMOUNT INCORPORATED, II 1G Ex ia IIC T6...T4 Ga; DEKRA 21ATEX0003X,
- Temperature Transmitter type: 5434D; 5431D; 6431D; 5435D; 5437D; 5437D; 5437B; 6437D, II 1G Ex ia IIC T6...T4 Ga; II 2(1)G Ex ib [ia Ga] IIC T6...T4 Gb; DEKRA 16 ATEX 0047X,
- Controls Units and / or Junction Boxes Type: GUB..., TECHNOR ITALSMEA; II 2G Ex db (*) IIC T(*) Gb; INERIS 22 ATEX 0008X
- Cable Transit Device type: CF 8 Ex, CF 32 Ex, CF 16 Ex, C RS T...Ex, RS..B Ex, SF...Ex, SFX...B Ex, B...B Ex, R...B Ex and RO...B; ROXTEC INTERNATIONAL AB, II 2G Ex e IIC Gb, II 2D Ex tb IIC Db; NEMKO 12 ATEX 1278X
- Cable Transit Device type: HD 16 Ex, HD 24 Ex, HD 32 Ex and HDLC Ex, ROXTEC INTERNATIONAL AB, II 2G Ex eb IIC Gb, II 2D Ex tb IIIC Db, PRESAFE 15 ATEX 6419X
- Control stations and junction boxes type: CP..., TECHNOR ITALSMEA, II 2G Ex db IIC T6 or T5 or T4 Gb or II 2(1)G Ex db [ia Ga] IIC T6 Gb(***) or II 2(2)G Ex db [ib] IIC T6 Gb (***); INERIS 03 ATEX 0009X
- Industrial plug and socket type: DXN1, MARECHAL ELECTRIC, II 2G Ex db eb IIC T5 or T6; II 2D Ex tb IIIC T90°C/T70°C; LCIE 99 ATEX6027X
- Industrial plug and socket type: DXN3, MARECHAL ELECTRIC; II 2G Ex db eb IIC T5 or T6; II 2D Ex tb IIIC T90°C/T70°C; LCIE 05 ATEX 6149X
- Industrial plug and socket type: DXN6, MARECHAL ELECTRIC, II 2G Ex db eb IIC T5 or T6; II 2D Ex tb IIIC T90°C/T70°C; LCIE 05 ATEX 6150X
- Industrial plug and socket type: PXN12C, MARECHAL ELECTRIC, II 2G Ex eb IIC T*; II 2G Ex ia or ib IIC T*; II 2D Ex tb IIIC T* Db; LCIE 07 ATEX 6070X
- Industrial plug and socket type: DXN25C, MARECHAL ELECTRIC; II 2G Ex eb IIC T*; II 2G Ex ia or ib IIC T6; II2D Ex tb IIIC T*; LCIE 09ATEX3050X
- Industrial plug and socket type: DXN37C, MARECHAL ELECTRIC; II 2G Ex eb IIC T*; II 2G Ex ia or ib IIC T6; II2D Ex tb IIIC T*; LCIE 07ATEX6071X
- Industrial plug and socket type: SPeX, MARECHAL ELECTRIC, II 2G Ex eb IIC T*; II2D Ex tb IIIC T* Db; LCIE 07ATEX6073X
- Industrial plug and socket type: DXA1, MARECHAL ELECTRIC, II 2G Ex db eb IIC T* Gb; II 2D Ex tb IIC T*°C Db; LCIE 15ATEX 3033X
- Industrial plug and socket type: PNCX, MARECHAL ELECTRIC, II 2G Ex IIC T6 Gb; II 2D Ex tb IIIC T72°C Db; LCIE 16ATEX3001X
- Terminal type: WDU 240, WEIDMULLER, II 2G Ex eb IIC Gb; KEMA 01 ATEX 2186U.

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[14] Confidential Report No. FIDI 23 CR 019

[14.1] Routine testing

No change to specified in the initial certificate.

[15] Specific Conditions of Use

Addditional to those specified the initial certificate:

- Manufacturer must obey relevant specific condition of use of Ex equipment and/or schedule of limitation of Ex components installed in/on the product and forward to the end user if relevant for the installation and use.

[16] Essential Health and Safety Requirements

Compliance with the Essential Health and Safety Requirements is not affected by this variation.

[17] Drawings and Documents

Title:	Drawing No.:	Rev. level:	Date:
Technical note	TN2111	1	20.01.2023
Instruction for use	TN2111 Annex A	1	20.01.2023
Apparatus list	TN2111 Annex B	1	20.01.2023

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IECEx Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION
IEC Certification System for Explosive Atmospheres

for rules and details of the IECEx Scheme visit www.iecex.com

Certificate No.:	**IECEx FIDI 21.0015X**	Page 1 of 4	Certificate history: Issue 0 (2022-02-18)
Status:	**Current**	Issue No: 1	
Date of Issue:	2023-05-04		

Applicant: **Technor Italsmea S.p.A.**
Via Italia 33
20060 Gessate (MI)
Italy

Equipment: **Junction boxes, local control stations and local control panels**

Optional accessory: Model reference: AQ-***P / AQ-***AL / AR-***P / AR-***AL / AQ-***P-HT / AQ-***AL-HT / AR-***P-HT / AR-***AL-HT / SB-*** / ST-*** / EFE-*** / EFXE-*** AL/ EFXE-***SB / EFXE-***ST / EFE-***-HT / EFXE-***AL-HT

Type of Protection: **Flameproof enclosure 'db'; Intrinsic safety 'ia/ib'; Increased safety 'eb'; Encapsulation 'mb', Protection by enclosure 'tb'**

Marking: **Ex ia IIC/IIB T6...T4 Ga**(2) or

Ex db eb ia/ib mb [(3)] IIC/IIB T6...T4 Gb(1) or

Ex eb IIC/IIB T6...T4 Gb(1) or

Ex tb IIIC T85°C...T135°C Db

(1) Others type of protection additional to Ex e/eb depending to the components actually mounted.

(2) In case of enclosures containing Ex e/Ex eb terminals and/or Ex ia Ga already certified components (with compatible marking) only.

(3) Associated equipment protection depending on the components actually mounted (see lists): e.g. [ia/ib/ia Ga/ia IIIC Da] and/or [ia IIIC Da] or [ia/ib/ia Ga/ia IIIC Da] and/or [ia/ib/ia Ga] [ia IIIC Da]

Approved for issue on behalf of the IECEx Certification Body: **Marino Kelava**

Position: **Certification Signatory**

Signature:
(for printed version)

Date:
(for printed version)

1. This certificate and schedule may only be reproduced in full.
2. This certificate is not transferable and remains the property of the issuing body.
3. The Status and authenticity of this certificate may be verified by visiting www.iecex.com or use of this QR Code.

Certificate issued by:

Fiditas Ltd
Slavka Tomerlina 44
HR-10361 Zagreb-Sesvete
Croatia

Fiditas
explosion safety solutions

IECEx Certificate of Conformity

Certificate No.: **IECEx FIDI 21.0015X**

Date of issue: 2023-05-04 Issue No: 1

Manufacturer: **Technor Italsmea S.p.A.**
Via Italia 33
20060 Gessate (MI)
Italy

Manufacturing locations:

This certificate is issued as verification that a sample(s), representative of production, was assessed and tested and found to comply with the IEC Standard list below and that the manufacturer's quality system, relating to the Ex products covered by this certificate, was assessed and found to comply with the IECEx Quality system requirements.This certificate is granted subject to the conditions as set out in IECEx Scheme Rules, IECEx 02 and Operational Documents as amended

STANDARDS :
The equipment and any acceptable variations to it specified in the schedule of this certificate and the identified documents, was found to comply with the following standards

IEC 60079-0:2017 Explosive atmospheres - Part 0: Equipment - General requirements
Edition:7.0

IEC 60079-1:2014-06 Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"
Edition:7.0

IEC 60079-11:2011 Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"
Edition:6.0

IEC 60079-18:2017 Explosive atmospheres - Part 18: Protection by encapsulation "m"
Edition:4.1

IEC 60079-31:2013 Explosive atmospheres - Part 31: Equipment dust ignition protection by enclosure "t"
Edition:2

IEC 60079-7:2017 Explosive atmospheres - Part 7: Equipment protection by increased safety "e"
Edition:5.1

This Certificate **does not** indicate compliance with safety and performance requirements other than those expressly included in the Standards listed above.

TEST & ASSESSMENT REPORTS:
A sample(s) of the equipment listed has successfully met the examination and test requirements as recorded in:

Test Reports:

HR/FIDI/ExTR21.0016/00 HR/FIDI/ExTR21.0016/01

Quality Assessment Report:

FR/INE/QAR08.0002/15

IECEx Certificate of Conformity

EQUIPMENT:
Equipment and systems covered by this Certificate are as follows:

Junction boxes, local control stations and local control panels series AQ-…..; AR-…..; SB…..; EFE-…..; EFXE-….. use certified enclosures of various sizes, manufactured by Technor Italsmea S.p.A., type: AQ-.... ; AR-....; SB-...; ST- …, certificate IECEx FIDI 21.0012U.

Enclosures coded …-HT are made in glass fiber reinforced polyester resin or in aluminum, and covered by IECEx component certificates: IECEx PTB 08.0003U, enclosure type: 26.****** and IECEx PTB 08.0003U, enclosure type: 25.******.

Enclosures may be equipped with certified Ex equipment or Ex components and Ex terminals listed in manufacturer's documentation. Certified Ex equipment or Ex components and Ex terminals must be used according to data available in related component or equipment certificates, in particular relevant temperature range, voltage and current limitations. The cable glands or plugs, with separate IECEx certificate, made in type of protection ‘eb’ and/or ‘tb’ with appropriate IP protection are mounted according to related manufacturer’s installation instructions. Each enclosure is provided with internal earthing certified terminal or earthing screw or bolt. Metal enclosures are provided by external earthing screw or bolt. Metal and polyester enclosures can be provided by passing through earthing terminals.

All enclosures can be provided by:
- Externally installed accessories as specified in manufacturer documents,
- Drain breath device type ECR3, included in this certificate,
- Internal/external earthing plate.

For other description see Annex.

SPECIFIC CONDITIONS OF USE: YES as shown below:

- Enclosures marked with warning label: “WARNING – POTENTIAL ELECTROSTATIC CHARGING HAZARD – SEE INSTRUCTIONS” must be cleaned only by damp cloth or antistatic products.
- Apparatus equipped with drain / venting valve Technor Italsmea model ECR3:
  - the valve cannot be open when an explosive dust atmosphere is present.
  - The valve can be open when an explosive gas atmosphere is present: when open, the equipment reaches the protection degree IP44.
  - When the valve is left in open position, it should be protected from light exposure.
- On the intrinsic safety terminals, the user must only connect devices with compatible intrinsic safety parameters according to IEC 60079-14.

IECEx Certificate of Conformity

DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)
New IECEx certified Ex products added in the Apparatus list according to list given in HR/FIDI/ ExTR 21.0016/01.

Annex:

IECEx FIDI 21.0015X Technor Equipment Annex1 issue1.pdf

Technical description (continued from original certificate)

Model identification

Junction boxes

A(1)-(2) (3) (4) (5) (6)	(1) –	**Q**: Square size **R**: Rectangular size
	(2) (3) (4)	dimension, in cm
	(5)	Material **P**: Glass fiber reinforced polyester resin **AL**: Aluminium Alloy
	(6)	None: up to internal temperature of 105°C **HT**: up to internal temperature of 130°C
SB- (2) (3) (4)	(2) (3) (4)	dimension, in cm
ST- (2) (3) (4)	(2) (3) (4)	dimension, in cm

Panel boards

EFE- (2) (3) (4) (6)	(2) (3) (4)	dimension, in cm
	(6)	None: up to internal temperature of 105°C **HT**: up to internal temperature of 130°C
EFXE- (2) (3) (4) (5) (6)	(2) (3) (4)	dimension, in cm
	(5)	Material **SB** or **ST**: stainless steel **AL**: Aluminium Alloy
	(6)	None: up to internal temperature of 105°C **HT**: up to internal temperature of 130°C

Technical data:

Electrical data:	According to Ex component to actually installed
Ambient temperature:	-50°C to +95°C Other possible ranges are with: - min temperature: -50°C to -20 °C - max temperature of +40 °C to +95 °C
Mechanical protection:	IP55, IP66 or IP67 depending on model

Temperature class and/or maximum surface temperature of any junction box or control panel depend on ambient temperature and internal power dissipation. The values that must be observed are given in relevant tables in this certificate.

For commercial reasons model name listed in the tables below can be modified as follows: first (2) and second (3) pair of digits can be reversed.

Models sizes

Polyester High Temperature		Aluminium High Temperature	
AQ-080806P-HT	EFE-080806-HT	AQ-080806AL-HT	EFXE-080806AL-HT
AQ-080808P-HT	EFE-080808-HT	AR-081306AL-HT	EFXE-081306AL-HT
AR-081106P-HT	EFE-081106-HT	AR-081806AL-HT	EFXE-081806AL-HT
AR-081108P-HT	EFE-081108-HT	AR-082505AL-HT	EFXE-082505AL-HT
AR-081606P-HT	EFE-081606-HT	AQ-101008AL-HT	EFXE-101008AL-HT
AR-081608P-HT	EFE-081608-HT	AR-101608AL-HT	EFXE-101608AL-HT
AR-081906P-HT	EFE-081906-HT	AR-102008AL-HT	EFXE-102008AL-HT
AR-081908P-HT	EFE-081908-HT	AQ-121208AL-HT	EFXE-121208AL-HT
AR-082306P-HT	EFE-082306-HT	AQ-121209AL-HT	EFXE-121209AL-HT
AR-082308P-HT	EFE-082308-HT	AR-122208AL-HT	EFXE-122208AL-HT
AQ-121209P-HT	EFE-121209-HT	AR-122209AL-HT	EFXE-122209AL-HT
AR-122209P-HT	EFE-122209-HT	AR-123608AL-HT	EFXE-123608AL-HT
AQ-161609P-HT	EFE-161609-HT	AQ-141409AL-HT	EFXE-141409AL-HT
AR-162609P-HT	EFE-162609-HT	AR-142009AL-HT	EFXE-142009AL-HT
AR-163609P-HT	EFE-163609-HT	AQ-161609AL-HT	EFXE-161609AL-HT
AR-165609P-HT	EFE-165609-HT	AR-162609AL-HT	EFXE-162609AL-HT
AQ-202017P-HT	EFE-202017-HT	AR-163609AL-HT	EFXE-163609AL-HT
AR-203017P-HT	EFE-203017-HT	AR-165609AL-HT	EFXE-165609AL-HT
AQ-252612P-HT	EFE-252612-HT	AQ-181810AL-HT	EFXE-181810AL-HT
AQ-252616P-HT	EFE-252616-HT	AR-182810AL-HT	EFXE-182810AL-HT
AR-254012P-HT	EFE-254012-HT	AR-102311AL-HT	EFXE-102311AL-HT
AR-254016P-HT	EFE-254016-HT	AR-202311AL-HT	EFXE-202311AL-HT
AR-256012P-HT	EFE-256012-HT	AR-202318AL-HT	EFXE-202318AL-HT
AR-304020P-HT	EFE-304020-HT	AR-232811AL-HT	EFXE-232811AL-HT
AQ-363609P-HT	EFE-363609-HT	AR-233311AL-HT	EFXE-233311AL-HT
AR-406025P-HT	EFE-406025-HT	AR-233318AL-HT	EFXE-233318AL-HT
AQ-414012P-HT	EFE-414012-HT	AR-234011AL-HT	EFXE-234011AL-HT
AQ-414020P-HT	EFE-414020-HT	AR-234023AL-HT	EFXE-234023AL-HT
		AR-236011AL-HT	EFXE-236011AL-HT
		AR-314011AL-HT	EFXE-314011AL-HT
		AR-314014AL-HT	EFXE-314014AL-HT
		AR-314018AL-HT	EFXE-314018AL-HT
		AR-314023AL-HT	EFXE-314023AL-HT
		AR-316011AL-HT	EFXE-316011AL-HT
		AR-316018AL-HT	EFXE-316018AL-HT
		AQ-606020AL-HT	EFXE-606020AL-HT

Polyester		Aluminium		Stainless steel	
AQ-080806P	EFE-080806	AQ-080806AL	EFXE-080806AL	SB-101210	EFXE-101210SB
AQ-080808P	EFE-080808	AR-081306AL	EFXE-081306AL	SB-151510	EFXE-151510SB
AR-081106P	EFE-081106	AR-081806AL	EFXE-081806AL	SB-142013	EFXE-142013SB
AR-081606P	EFE-081606	AR-081808AL	EFXE-081808AL	SB-202010	EFXE-202010SB
AR-081906P	EFE-081906	AR-082505AL	EFXE-082505AL	SB-202016	EFXE-202016SB
AQ-121209P	EFE-121209	AR-082508AL	EFXE-082508AL	SB-202713	EFXE-202713SB
AR-122209P	EFE-122209	AQ-101008AL	EFXE-101008AL	SB-272713	EFXE-272713SB
AQ-161609P	EFE-161609	AR-101508AL	EFXE-101508AL	SB-203016	EFXE-203016SB
AR-162609P	EFE-162609	AR-101608AL	EFXE-101608AL	SB-273513	EFXE-273513SB
AR-163609P	EFE-163609	AR-102008AL	EFXE-102008AL	SB-282816	EFXE-282816SB
AQ-252612P	EFE-252612	AQ-121208AL	EFXE-121208AL	SB-204016	EFXE-204016SB
AQ-252616P	EFE-252616	AR-122209AL	EFXE-122209AL	SB-353516	EFXE-353516SB
AR-254012P	EFE-254012	AQ-141409AL	EFXE-141409AL	SB-282827	EFXE-282827SB
AR-254016P	EFE-254016	AR-142009AL	EFXE-142009AL	SB-355016	EFXE-355016SB
AR-256012P	EFE-256012	AQ-161609AL	EFXE-161609AL	SB-383816	EFXE-383816SB
AQ-414012P	EFE-414012	AR-162410AL	EFXE-162410AL	SB-384516	EFXE-384516SB
		AR-162609AL	EFXE-162609AL	SB-385716	EFXE-385716SB
		AQ-181810AL	EFXE-181810AL	SB-505016	EFXE-505016SB
		AR-182810AL	EFXE-182810AL	SB-383827	EFXE-383827SB
		AR-202311AL	EFXE-202311AL	SB-575716	EFXE-575716SB
		AR-202318AL	EFXE-202318AL	SB-577620	EFXE-577620SB
		AR-232811AL	EFXE-232811AL	SB-575730	EFXE-575730SB
		AR-233312AL	EFXE-233312AL	SB-769520	EFXE-769520SB
		AR-233318AL	EFXE-233318AL	SB-1258040	EFXE-1258040SB

Enclosure types (Stainless steel)	
ST-101210	EFXE-101210ST
ST-151510	EFXE-151510ST
ST-142013	EFXE-142013ST
ST-202010	EFXE-202010ST
ST-202016	EFXE-202016ST
ST-202713	EFXE-202713ST
ST-272713	EFXE-272713ST
ST-203016	EFXE-203016ST
ST-273513	EFXE-273513ST
ST-282816	EFXE-282816ST
ST-204016	EFXE-204016ST
ST-353516	EFXE-353516ST
ST-282827	EFXE-282827ST
ST-355016	EFXE-355016ST
ST-383816	EFXE-383816ST
ST-384516	EFXE-384516ST
ST-385716	EFXE-385716ST
ST-505016	EFXE-505016ST
ST-383827	EFXE-383827ST
ST-575716	EFXE-575716ST
ST-577620	EFXE-577620ST
ST-575730	EFXE-575730ST
ST-769520	EFXE-769520ST
ST-1258040	EFXE-1258040ST

Note 2 For stainless steel enclosures: dimensions (2) and (3) can be decreased or increased up to 20%, dimensions (4) can be increased up to 500 mm. Model name changes consequently.

Power dissipation – HT glass fiber reinforced polyester resin enclosures

Enclosure types (polyester)		Maximum power dissipation (W) – Tamb. up to **40**°C							
		INTERNAL TEMP.60°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)	INTERNAL TEMP.127°C (T4/T135°C)
AQ-080806P-HT	EFE-080806-HT	3,5	5,2	7,0	7,8	9,6	10,4	11,3	15,2
AQ-080808P-HT	EFE-080808-HT	4,6	6,8	9,1	10,2	12,5	13,7	14,8	19,8
AR-081106P-HT	EFE-081106-HT	4,3	6,4	8,5	9,6	11,8	12,8	13,9	18,6
AR-081108P-HT	EFE-081108-HT	5,6	8,4	11,2	12,6	15,3	16,7	18,1	24,2
AR-081606P-HT	EFE-081606-HT	5,8	8,7	11,6	13,0	15,9	17,4	18,8	25.2
AR-081608P-HT	EFE-081608-HT	6,8	10,2	13,7	15,4	18,8	20,5	22,2	29,7
AR-081906P-HT	EFE-081906-HT	6,4	9,6	12,8	14,4	17,6	19,2	20,8	27,8
AR-081908P-HT	EFE-081908-HT	7,5	11,3	15,1	17,0	20,7	22,6	24,5	32,7
AR-082306P-HT	EFE-082306-HT	7,2	10,8	14,4	16,2	19,8	21,6	23,4	31,3
AR-082308P-HT	EFE-082308-HT	8,5	12,7	16,9	19,0	23,3	25,4	27,5	36,7
AQ-121209P-HT	EFE-121209-HT	8,0	12,0	15,9	17,9	21,9	23,9	25,9	34,7
AR-122209P-HT	EFE-122209-HT	10,8	16,2	21,6	24,3	29,7	32,4	35,1	47,0
AQ-161609P-HT	EFE-161609-HT	10,4	15,6	20,8	23,4	28,6	31,2	33,8	45,2
AR-162609P-HT	EFE-162609-HT	13,4	20,1	26,8	30,2	36,9	40,2	43,6	58,3
AR-163609P-HT	EFE-163609-HT	16,2	24,3	32,4	36,5	44,6	48,6	52,7	70,5
AR-165609P-HT	EFE-165609-HT	21,4	32,0	42,7	48,1	58,7	64,1	69,4	92,9
AQ-202017P-HT	EFE-202017-HT	18,0	26,9	35,9	40,4	49,4	53,9	58,4	78,1
AR-203017P-HT	EFE-203017-HT	20,9	31,3	41,7	47,0	57,4	62,6	67,8	90,8
AQ-252612P-HT	EFE-252612-HT	18,8	28,2	37,6	42,4	51,8	56,5	61,2	81,9
AQ-252616P-HT	EFE-252616-HT	20,8	31,1	41,5	46,7	57,1	62,3	67,5	90,3
AR-254012P-HT	EFE-254012-HT	22,8	34,2	45,7	51,4	62,8	68,5	74,2	99,3
AR-254016P-HT	EFE-254016-HT	26,2	39,3	52,4	58,9	72,0	78,6	85,1	113,9
AR-256012P-HT	EFE-256012-HT	29,0	43,6	58,1	65,3	79,9	87,1	94,4	126,3
AR-304020P-HT	EFE-304020-HT	32,3	48,5	64,7	72,7	88,9	97,0	105,1	140,7
AQ-363609P-HT	EFE-363609-HT	23,0	34,6	46,1	51,8	63,4	69,1	74,9	100,2
AR-406025P-HT	EFE-406025-HT	50,3	75,5	100,7	113,3	138,4	151,0	163,6	218,9
AQ-414012P-HT	EFE-414012-HT	29,1	43,7	58,2	65,5	80,1	87,3	94,6	126,6
AQ-414020P-HT	EFE-414020-HT	36,6	55,0	73,3	82,4	100,8	109,9	119,1	159,4

Enclosure types (polyester)		Maximum power dissipation (W) – Tamb. up to **50**°C							
		INTERNAL TEMP.60°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)	INTERNAL TEMP.127°C (T4/T135°C)
AQ-080806P-HT	EFE-080806-HT	1,7	3,5	5,2	6,1	7,8	8,7	9,6	13,4
AQ-080808P-HT	EFE-080808-HT	2,3	4,6	6,8	8,0	10,2	11,4	12,5	17,5
AR-081106P-HT	EFE-081106-HT	2,1	4,3	6,4	7,5	9,6	10,7	11,8	16,5
AR-081108P-HT	EFE-081108-HT	2,8	5,6	8,4	9,8	12,6	13,9	15,3	21.5
AR-081606P-HT	EFE-081606-HT	2,9	5,8	8,7	10,1	13,0	14,5	15,9	22,3
AR-081608P-HT	EFE-081608-HT	3,4	6,8	10,2	11,9	15,4	17,1	18,8	26,3
AR-081906P-HT	EFE-081906-HT	3,2	6,4	9,6	11,2	14,4	16,0	17,6	24,6
AR-081908P-HT	EFE-081908-HT	3,8	7,5	11,3	13,2	17,0	18,8	20,7	29,0
AR-082306P-HT	EFE-082306-HT	3,6	7,2	10,8	12,6	16,2	18,0	19,8	27,7
AR-082308P-HT	EFE-082308-HT	4,2	8,5	12,7	14,8	19,0	21,1	23,3	32,5
AQ-121209P-HT	EFE-121209-HT	4,0	8,0	12,0	14,0	17,9	19,9	21,9	30,7
AR-122209P-HT	EFE-122209-HT	5,4	10,8	16,2	18,9	24,3	27,0	29,7	41,6
AQ-161609P-HT	EFE-161609-HT	5,2	10,4	15,6	18,2	23,4	26,0	28,6	40,0
AR-162609P-HT	EFE-162609-HT	6,7	13,4	20,1	23,5	30,2	33,5	36,9	51,6
AR-163609P-HT	EFE-163609-HT	8,1	16,2	24,3	28,4	36,5	40,5	44,6	62,3
AR-165609P-HT	EFE-165609-HT	10,7	21,4	32,0	37,4	48,1	53,4	58,7	82,2
AQ-202017P-HT	EFE-202017-HT	9,0	18,0	26,9	31,4	40,4	44,9	49,4	69,1
AR-203017P-HT	EFE-203017-HT	10,4	20,9	31,3	36,5	47,0	52,2	57,4	80,4
AQ-252612P-HT	EFE-252612-HT	9,4	18,8	28,2	32,9	42,4	47,1	51,8	72,5
AQ-252616P-HT	EFE-252616-HT	10,4	20,8	31,1	36,3	46,7	51,9	57,1	79,9
AR-254012P-HT	EFE-254012-HT	11,4	22,8	34,2	39,9	51,4	57,1	62,8	87,9
AR-254016P-HT	EFE-254016-HT	13,1	26,2	39,3	45,8	58,9	65,5	72,0	100,8
AR-256012P-HT	EFE-256012-HT	14,5	29,0	43,6	50,8	65,3	72,6	79,9	111,8
AR-304020P-HT	EFE-304020-HT	16,2	32,3	48,5	56,6	72,7	80,8	88,9	124,4
AQ-363609P-HT	EFE-363609-HT	11,5	23,0	34,6	40,3	51,8	57,6	63,4	88,7
AR-406025P-HT	EFE-406025-HT	25,2	50,3	75,5	88,1	113,3	125,8	138,4	193,8
AQ-414012P-HT	EFE-414012-HT	14,6	29,1	43,7	51,0	65,5	72,8	80,1	112,1
AQ-414020P-HT	EFE-414020-HT	18,3	36,6	55,0	64,1	82,4	91,6	100,8	141,1

Enclosure types (polyester)		Maximum power dissipation (W) – Tamb. up to **55**°C							
		INTERNAL TEMP.65°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)	INTERNAL TEMP.127°C (T4/T135°C)
AQ-080806P-HT	EFE-080806-HT	1,7	2,6	4,4	5,2	7,0	7,8	8,7	12,5
AQ-080808P-HT	EFE-080808-HT	2,3	3,4	5,7	6,8	9,1	10,2	11,4	16,2
AR-081106P-HT	EFE-081106-HT	2,1	3,2	5,3	6,4	8,5	9,6	10,7	15,2
AR-081108P-HT	EFE-081108-HT	2,8	4,2	7,0	8,4	11,2	12,6	13,9	19,8
AR-081606P-HT	EFE-081606-HT	2,9	4,3	7,2	8,7	11,6	13,0	14,5	20,6
AR-081608P-HT	EFE-081608-HT	3,4	5,1	8,5	10,2	13,7	15,4	17,1	24,3
AR-081906P-HT	EFE-081906-HT	3,2	4,8	8,0	9,6	12,8	14,4	16,0	22,8
AR-081908P-HT	EFE-081908-HT	3,8	5,7	9,4	11,3	15,1	17,0	18,8	26,8
AR-082306P-HT	EFE-082306-HT	3,6	5,4	9,0	10,8	14,4	16,2	18,0	25,6
AR-082308P-HT	EFE-082308-HT	4,2	6,3	10,6	12,7	16,9	19,0	21,1	30,0
AQ-121209P-HT	EFE-121209-HT	4,0	6,0	10,0	12,0	15,9	17,9	19,9	28,3
AR-122209P-HT	EFE-122209-HT	5,4	8,1	13,5	16,2	21,6	24,3	27,0	38,3
AQ-161609P-HT	EFE-161609-HT	5,2	7,8	13,0	15,6	20,8	23,4	26,0	36,9
AR-162609P-HT	EFE-162609-HT	6,7	10,1	16,8	20,1	26,8	30,2	33,5	47,6
AR-163609P-HT	EFE-163609-HT	8,1	12,2	20,3	24,3	32,4	36,5	40,5	57,5
AR-165609P-HT	EFE-165609-HT	10,7	16,0	26,7	32,0	42,7	48,1	53,4	75,8
AQ-202017P-HT	EFE-202017-HT	9,0	13,5	22,4	26,9	35,9	40,4	44,9	63,7
AR-203017P-HT	EFE-203017-HT	10,4	15,7	26,1	31,3	41,7	47,0	52,2	74,0
AQ-252612P-HT	EFE-252612-HT	9,4	14,1	23,5	28,2	37,6	42,4	47,1	66,8
AQ-252616P-HT	EFE-252616-HT	10,4	15,6	26,0	31,1	41,5	46,7	51,9	73,7
AR-254012P-HT	EFE-254012-HT	11,4	17,1	28,5	34,2	45,7	51,4	57,1	81,0
AR-254016P-HT	EFE-254016-HT	13,1	19,6	32,7	39,3	52,4	58,9	65,5	92,9
AR-256012P-HT	EFE-256012-HT	14,5	21,8	36,3	43,6	58,1	65,3	72,6	103,0
AR-304020P-HT	EFE-304020-HT	16,2	24,2	40,4	48,5	64,7	72,7	80,8	114,7
AQ-363609P-HT	EFE-363609-HT	11,5	17,3	28,8	34,6	46,1	51,8	57,6	81,8
AR-406025P-HT	EFE-406025-HT	25,2	37,8	62,9	75,5	100,7	113,3	125,8	178,6
AQ-414012P-HT	EFE-414012-HT	14,6	21,8	36,4	43,7	58,2	65,5	72,8	103,0
AQ-414020P-HT	EFE-414020-HT	18,3	27,5	45,8	55,0	73,3	82,4	91,6	130,0

Enclosure types (polyester)		Maximum power dissipation (W) – Tamb. up to **60**°C						
		INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)	INTERNAL TEMP.127°C (T4/T135°C)
AQ-080806P-HT	EFE-080806-HT	1,7	3,5	4,4	6,1	7,0	7,8	11,7
AQ-080808P-HT	EFE-080808-HT	2,3	4,6	5,7	8,0	9,1	10,2	15,2
AR-081106P-HT	EFE-081106-HT	2,1	4,3	5,3	7,5	8,5	9,6	14,3
AR-081108P-HT	EFE-081108-HT	2,8	5,6	7,0	9,8	11,2	12,6	18,7
AR-081606P-HT	EFE-081606-HT	2,9	5,8	7,2	10,1	11,6	13,0	19,4
AR-081608P-HT	EFE-081608-HT	3,4	6,8	8,5	11,9	13,7	15,4	22,9
AR-081906P-HT	EFE-081906-HT	3,2	6,4	8,0	11,2	12,8	14,4	21,4
AR-081908P-HT	EFE-081908-HT	3,8	7,5	9,4	13,2	15,1	17,0	25,3
AR-082306P-HT	EFE-082306-HT	3,6	7,2	9,0	12,6	14,4	16,2	24,1
AR-082308P-HT	EFE-082308-HT	4,2	8,5	10,6	14,8	16,9	19,0	28,3
AQ-121209P-HT	EFE-121209-HT	4,0	8,0	10,0	14,0	15,9	17,9	26,7
AR-122209P-HT	EFE-122209-HT	5,4	10,8	13,5	18,9	21,6	24,3	36,2
AQ-161609P-HT	EFE-161609-HT	5,2	10,4	13,0	18,2	20,8	23,4	34,8
AR-162609P-HT	EFE-162609-HT	6,7	13,4	16,8	23,5	26,8	30,2	44,9
AR-163609P-HT	EFE-163609-HT	8,1	16,2	20,3	28,4	32,4	36,5	54,2
AR-165609P-HT	EFE-165609-HT	10,7	21,4	26,7	37,4	42,7	48,1	71,5
AQ-202017P-HT	EFE-202017-HT	9,0	18,0	22,4	31,4	35,9	40,4	60,1
AR-203017P-HT	EFE-203017-HT	10,4	20,9	26,1	36,5	41,7	47,0	69,9
AQ-252612P-HT	EFE-252612-HT	9,4	18,8	23,5	32,9	37,6	42,4	63,0
AQ-252616P-HT	EFE-252616-HT	10,4	20,8	26,0	36,3	41,5	46,7	69,5
AR-254012P-HT	EFE-254012-HT	11,4	22,8	28,5	39,9	45,7	51,4	76,5
AR-254016P-HT	EFE-254016-HT	13,1	26,2	32,7	45,8	52,4	58,9	87,7
AR-256012P-HT	EFE-256012-HT	14,5	29,0	36,3	50,8	58,1	65,3	97,2
AR-304020P-HT	EFE-304020-HT	16,2	32,3	40,4	56,6	64,7	72,7	108,3
AQ-363609P-HT	EFE-363609-HT	11,5	23,0	28,8	40,3	46,1	51,8	77,1
AR-406025P-HT	EFE-406025-HT	25,2	50,3	62,9	88,1	100,7	113,3	168,7
AQ-414012P-HT	EFE-414012-HT	14,6	29,1	36,4	51,0	58,2	65,5	97,5
AQ-414020P-HT	EFE-414020-HT	18,3	36,6	45,8	64,1	73,3	82,4	122,7

Enclosure types (polyester)		Maximum power dissipation (W) Tamb. up to **95**°C		
		INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)	INTERNAL TEMP.127°C (T4/T135°C)
AQ-080806P-HT	EFE-080806-HT	0,9	1,7	5,6
AQ-080808P-HT	EFE-080808-HT	1,1	2,3	7,3
AR-081106P-HT	EFE-081106-HT	1,1	2,1	6,5
AR-081108P-HT	EFE-081108-HT	1,4	2,8	9,0
AR-081606P-HT	EFE-081606-HT	1,4	2,9	9,2
AR-081608P-HT	EFE-081608-HT	1,7	3,4	10,9
AR-081906P-HT	EFE-081906-HT	1,6	3,2	10,2
AR-081908P-HT	EFE-081908-HT	1,9	3,8	12,1
AR-082306P-HT	EFE-082306-HT	1,8	3,6	11,5
AR-082308P-HT	EFE-082308-HT	2,1	4,2	13,5
AQ-121209P-HT	EFE-121209-HT	2,0	4,0	12,8
AR-122209P-HT	EFE-122209-HT	2,7	5,4	17,3
AQ-161609P-HT	EFE-161609-HT	2,6	5,2	16,6
AR-162609P-HT	EFE-162609-HT	3,4	6,7	21,5
AR-163609P-HT	EFE-163609-HT	4,1	8,1	26,0
AR-165609P-HT	EFE-165609-HT	5,3	10,7	34,2
AQ-202017P-HT	EFE-202017-HT	4,5	9,0	28,7
AR-203017P-HT	EFE-203017-HT	5,2	10,4	33,4
AQ-252612P-HT	EFE-252612-HT	4,7	9,4	30,1
AQ-252616P-HT	EFE-252616-HT	5,2	10,4	33,2
AR-254012P-HT	EFE-254012-HT	5,7	11,4	36,5
AR-254016P-HT	EFE-254016-HT	6,5	13,1	41,9
AR-256012P-HT	EFE-256012-HT	7,3	14,5	46,4
AR-304020P-HT	EFE-304020-HT	8,1	16,2	51,8
AQ-363609P-HT	EFE-363609-HT	5,8	11,5	36,8
AR-406025P-HT	EFE-406025-HT	12,6	25,2	80,6
AQ-414012P-HT	EFE-414012-HT	7,3	14,6	46,6
AQ-414020P-HT	EFE-414020-HT	9,2	18,3	58,6

Power dissipation – HT aluminium alloy enclosures

Enclosure types (aluminium)		Maximum power dissipation (W) – Tamb. up to **40**°C							
		INTERNAL TEMP.60°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)	INTERNAL TEMP.130°C (T4/T135°C)
AQ-080806AL-HT	EFXE-080806AL-HT	5,2	7,8	10,4	11,7	14,3	15,6	16,9	23,4
AR-081306AL-HT	EFXE-081306AL-HT	7,0	10,6	14,1	15,9	19,4	21,2	23,0	31,8
AR-081806AL-HT	EFXE-081806AL-HT	8,9	13,3	17,8	20,0	24,5	26,7	28,9	40,0
AR-082505AL-HT	EFXE-082505AL-HT	10,9	16,4	21,9	24,7	30,1	32,9	35,6	49,4
AQ-101008AL-HT	EFXE-101008AL-HT	8,7	13,0	17,4	19,6	23,9	26,1	28,3	39,2
AR-101608AL-HT	EFXE-101608AL-HT	11,5	17,3	23,1	26,0	31,8	34,7	37,6	52,0
AR-102008AL-HT	EFXE-102008AL-HT	13,4	20,1	26,8	30,2	36,9	40,3	43,6	60,4
AQ-121208AL-HT	EFXE-121208AL-HT	10,8	16,2	21,6	24,3	29,7	32,4	35,1	48,6
AQ-121209AL-HT	EFXE-121209AL-HT	11,6	17,5	23,3	26,2	32,1	35,0	37,9	52,5
AR-122208AL-HT	EFXE-122208AL-HT	15,6	23,5	31,3	35,3	43,1	47,0	50,9	70,6
AR-122209AL-HT	EFXE-122209AL-HT	16,8	25,3	33,7	37,9	46,3	50,6	54,8	75,9
AR-123608AL-HT	EFXE-123608AL-HT	22,3	33,5	44,7	50,3	61,5	67,1	72,7	100,7
AQ-141409AL-HT	EFXE-141409AL-HT	13,7	20,6	27,5	31,0	37,9	41,3	44,8	62,0
AR-142009AL-HT	EFXE-142009AL-HT	17,1	25,7	34,2	38,5	47,1	51,4	55,7	77,1
AQ-161609AL-HT	EFXE-161609AL-HT	16,1	24,1	32,2	36,2	44,2	48,3	52,3	72,4
AR-162609AL-HT	EFXE-162609AL-HT	21,9	32,8	43,8	49,3	60,2	65,7	71,2	98,6
AR-163609AL-HT	EFXE-163609AL-HT	27,5	41,3	55,1	62,0	75,7	82,6	89,5	124,0
AR-165609AL-HT	EFXE-165609AL-HT	38,4	57,7	76,9	86,6	105,8	115,4	125,0	173,2
AQ-181810AL-HT	EFXE-181810AL-HT	19,7	29,6	39,5	44,4	54,3	59,2	64,2	88,8
AR-182810AL-HT	EFXE-182810AL-HT	26,1	39,1	52,2	58,7	71,8	78,3	84,8	117,5
AR-102311AL-HT	EFXE-102311AL-HT	18,2	27,3	36,5	41,0	50,1	54,7	59,3	82,1
AR-202311AL-HT	EFXE-202311AL-HT	26,1	39,1	52,2	58,7	71,7	78,3	84,8	117,4
AR-202318AL-HT	EFXE-202318AL-HT	35,9	53,9	71,8	80,8	98,8	107,8	116,8	161,7
AR-232811AL-HT	EFXE-232811AL-HT	31,6	47,5	63,3	71,3	87,1	95,0	103,0	142,6
AR-233311AL-HT	EFXE-233311AL-HT	35,3	52,9	70,6	79,4	97,0	105,9	114,7	158,8
AR-233318AL-HT	EFXE-233318AL-HT	47,5	71,3	95,1	107,0	130,8	142,7	154,6	214,1
AR-234011AL-HT	EFXE-234011AL-HT	40,2	60,4	80,5	90,6	110,7	120,8	130,9	181,2
AR-234023AL-HT	EFXE-234023AL-HT	62,2	93,3	124,5	140,0	171,2	186,7	202,3	280,1
AR-236011AL-HT	EFXE-236011AL-HT	54,1	81,2	108,3	121,9	148,9	162,5	176,0	243,8
AR-314011AL-HT	EFXE-314011AL-HT	48,6	72,9	97,2	109,3	133,6	145,8	157,9	218,7
AR-314014AL-HT	EFXE-314014AL-HT	54,9	82,4	109,9	123,7	151,2	164,9	178,7	247,4
AR-314018AL-HT	EFXE-314018AL-HT	63,8	95,7	127,6	143,5	175,4	191,4	207,3	287,1
AR-314023AL-HT	EFXE-314023AL-HT	73,5	110,3	147,1	165,5	202,3	220,7	239,1	331,0
AR-316011AL-HT	EFXE-316011AL-HT	64,0	96,0	128,1	144,1	176,1	192,1	208,1	288,2
AR-316018AL-HT	EFXE-316018AL-HT	82,7	124,1	165,5	186,2	227,6	248,3	268,9	372,4
AQ-606020AL-HT	EFXE-606020AL-HT	129,1	193,7	258,3	290,5	355,1	387,4	419,7	581,1

Enclosure types (aluminium)		Maximum power dissipation (W) – Tamb. up to **50**°C							
		INTERNAL TEMP.60°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)	INTERNAL TEMP.130°C (T4/T135°C)
AQ-080806AL-HT	EFXE-080806AL-HT	2,6	5,2	7,8	9,1	11,7	13,0	14,3	20,8
AR-081306AL-HT	EFXE-081306AL-HT	3,5	7,0	10,6	12,3	15,9	17,7	19,4	28,3
AR-081806AL-HT	EFXE-081806AL-HT	4,4	8,9	13,3	15,5	20,0	22,2	24,5	35,6
AR-082505AL-HT	EFXE-082505AL-HT	5,4	10,9	16,4	19,2	24,7	27,4	30,1	43,9
AQ-101008AL-HT	EFXE-101008AL-HT	4,3	8,7	13,0	15,2	19,6	21,7	23,9	34,8
AR-101608AL-HT	EFXE-101608AL-HT	5,7	11,5	17,3	20,2	26,0	28,9	31,8	46,2
AR-102008AL-HT	EFXE-102008AL-HT	6,7	13,4	20,1	23,5	30,2	33,5	36,9	53,7
AQ-121208AL-HT	EFXE-121208AL-HT	5,4	10,8	16,2	18,9	24,3	27,0	29,7	43,2
AQ-121209AL-HT	EFXE-121209AL-HT	5,8	11,6	17,5	20,4	26,2	29,2	32,1	46,7
AR-122208AL-HT	EFXE-122208AL-HT	7,8	15,6	23,5	27,4	35,3	39,2	43,1	62,7
AR-122209AL-HT	EFXE-122209AL-HT	8,4	16,8	25,3	29,5	37,9	42,1	46,3	67,4
AR-123608AL-HT	EFXE-123608AL-HT	11,1	22,3	33,5	39,1	50,3	55,9	61,5	89,5
AQ-141409AL-HT	EFXE-141409AL-HT	6,8	13,7	20,6	24,1	31,0	34,4	37,9	55,1
AR-142009AL-HT	EFXE-142009AL-HT	8,5	17,1	25,7	30,0	38,5	42,8	47,1	68,5
AQ-161609AL-HT	EFXE-161609AL-HT	8,0	16,1	24,1	28,1	36,2	40,2	44,2	64,4
AR-162609AL-HT	EFXE-162609AL-HT	10,9	21,9	32,8	38,3	49,3	54,8	60,2	87,6
AR-163609AL-HT	EFXE-163609AL-HT	13,7	27,5	41,3	48,2	62,0	68,9	75,7	110,2
AR-165609AL-HT	EFXE-165609AL-HT	19,2	38,4	57,7	67,3	86,6	96,2	105,8	153,9
AQ-181810AL-HT	EFXE-181810AL-HT	9,8	19,7	29,6	34,5	44,4	49,3	54,3	79,0
AR-182810AL-HT	EFXE-182810AL-HT	13,0	26,1	39,1	45,7	58,7	65,2	71,8	104,4
AR-102311AL-HT	EFXE-102311AL-HT	9,1	18,2	27,3	31,9	41,0	45,6	50,1	73,0
AR-202311AL-HT	EFXE-202311AL-HT	13,0	26,1	39,1	45,6	58,7	65,2	71,7	104,4
AR-202318AL-HT	EFXE-202318AL-HT	17,9	35,9	53,9	62,8	80,8	89,8	98,8	143,7
AR-232811AL-HT	EFXE-232811AL-HT	15,8	31,6	47,5	55,4	71,3	79,2	87,1	126,7
AR-233311AL-HT	EFXE-233311AL-HT	17,6	35,3	52,9	61,7	79,4	88,2	97,0	141,2
AR-233318AL-HT	EFXE-233318AL-HT	23,7	47,5	71,3	83,2	107,0	118,9	130,8	190,3
AR-234011AL-HT	EFXE-234011AL-HT	20,1	40,2	60,4	70,5	90,6	100,7	110,7	161,1
AR-234023AL-HT	EFXE-234023AL-HT	31,1	62,2	93,3	108,9	140,0	155,6	171,2	249,0
AR-236011AL-HT	EFXE-236011AL-HT	27,0	54,1	81,2	94,8	121,9	135,4	148,9	216,7
AR-314011AL-HT	EFXE-314011AL-HT	24,3	48,6	72,9	85,0	109,3	121,5	133,6	194,4
AR-314014AL-HT	EFXE-314014AL-HT	27,4	54,9	82,4	96,2	123,7	137,4	151,2	219,9
AR-314018AL-HT	EFXE-314018AL-HT	31,9	63,8	95,7	111,6	143,5	159,5	175,4	255,2
AR-314023AL-HT	EFXE-314023AL-HT	36,7	73,5	110,3	128,7	165,5	183,9	202,3	294,2
AR-316011AL-HT	EFXE-316011AL-HT	32,0	64,0	96,0	112,0	144,1	160,1	176,1	256,2
AR-316018AL-HT	EFXE-316018AL-HT	41,3	82,7	124,1	144,8	186,2	206,9	227,6	331,0
AQ-606020AL-HT	EFXE-606020AL-HT	64,5	129,1	193,7	226,0	290,5	322,8	355,1	516,6

Enclosure types (aluminium)		Maximum power dissipation (W) – Tamb. up to **55**°C							
		INTERNAL TEMP.65°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)	INTERNAL TEMP.130°C (T4/T135°C)
AQ-080806AL-HT	EFXE-080806AL-HT	2,6	3,9	6,5	7,8	10,4	11,7	13,0	19,5
AR-081306AL-HT	EFXE-081306AL-HT	3,5	5,3	8,8	10,6	14,1	15,9	17,7	26,5
AR-081806AL-HT	EFXE-081806AL-HT	4,4	6,6	11,1	13,3	17,8	20,0	22,2	33,4
AR-082505AL-HT	EFXE-082505AL-HT	5,4	8,2	13,7	16,4	21,9	24,7	27,4	41,1
AQ-101008AL-HT	EFXE-101008AL-HT	4,3	6,5	10,8	13,0	17,4	19,6	21,7	32,6
AR-101608AL-HT	EFXE-101608AL-HT	5,7	8,6	14,4	17,3	23,1	26,0	28,9	43,3
AR-102008AL-HT	EFXE-102008AL-HT	6,7	10,0	16,7	20,1	26,8	30,2	33,5	50,3
AQ-121208AL-HT	EFXE-121208AL-HT	5,4	8,1	13,5	16,2	21,6	24,3	27,0	40,5
AQ-121209AL-HT	EFXE-121209AL-HT	5,8	8,7	14,6	17,5	23,3	26,2	29,2	43,8
AR-122208AL-HT	EFXE-122208AL-HT	7,8	11,7	19,6	23,5	31,3	35,3	39,2	58,8
AR-122209AL-HT	EFXE-122209AL-HT	8,4	12,6	21,0	25,3	33,7	37,9	42,1	63,2
AR-123608AL-HT	EFXE-123608AL-HT	11,1	16,7	27,9	33,5	44,7	50,3	55,9	83,9
AQ-141409AL-HT	EFXE-141409AL-HT	6,8	10,3	17,2	20,6	27,5	31,0	34,4	51,7
AR-142009AL-HT	EFXE-142009AL-HT	8,5	12,8	21,4	25,7	34,2	38,5	42,8	64,3
AQ-161609AL-HT	EFXE-161609AL-HT	8,0	12,0	20,1	24,1	32,2	36,2	40,2	60,4
AR-162609AL-HT	EFXE-162609AL-HT	10,9	16,4	27,4	32,8	43,8	49,3	54,8	82,2
AR-163609AL-HT	EFXE-163609AL-HT	13,7	20,6	34,4	41,3	55,1	62,0	68,9	103,3
AR-165609AL-HT	EFXE-165609AL-HT	19,2	28,8	48,1	57,7	76,9	86,6	96,2	144,3
AQ-181810AL-HT	EFXE-181810AL-HT	9,8	14,8	24,6	29,6	39,5	44,4	49,3	74,0
AR-182810AL-HT	EFXE-182810AL-HT	13,0	19,5	32,6	39,1	52,2	58,7	65,2	97,9
AR-102311AL-HT	EFXE-102311AL-HT	9,1	13,6	22,8	27,3	36,5	41,0	45,6	68,4
AR-202311AL-HT	EFXE-202311AL-HT	13,0	19,5	32,6	39,1	52,2	58,7	65,2	97,9
AR-202318AL-HT	EFXE-202318AL-HT	17,9	26,9	44,9	53,9	71,8	80,8	89,8	134,7
AR-232811AL-HT	EFXE-232811AL-HT	15,8	23,7	39,6	47,5	63,3	71,3	79,2	118,8
AR-233311AL-HT	EFXE-233311AL-HT	17,6	26,4	44,1	52,9	70,6	79,4	88,2	132,3
AR-233318AL-HT	EFXE-233318AL-HT	23,7	35,6	59,4	71,3	95,1	107,0	118,9	178,4
AR-234011AL-HT	EFXE-234011AL-HT	20,1	30,2	50,3	60,4	80,5	90,6	100,7	151,0
AR-234023AL-HT	EFXE-234023AL-HT	31,1	46,6	77,8	93,3	124,5	140,0	155,6	233,4
AR-236011AL-HT	EFXE-236011AL-HT	27,0	40,6	67,7	81,2	108,3	121,9	135,4	203,1
AR-314011AL-HT	EFXE-314011AL-HT	24,3	36,4	60,7	72,9	97,2	109,3	121,5	182,3
AR-314014AL-HT	EFXE-314014AL-HT	27,4	41,2	68,7	82,4	109,9	123,7	137,4	206,2
AR-314018AL-HT	EFXE-314018AL-HT	31,9	47,8	79,7	95,7	127,6	143,5	159,5	239,2
AR-314023AL-HT	EFXE-314023AL-HT	36,7	55,1	91,9	110,3	147,1	165,5	183,9	275,8
AR-316011AL-HT	EFXE-316011AL-HT	32,0	48,0	80,0	96,0	128,1	144,1	160,1	240,1
AR-316018AL-HT	EFXE-316018AL-HT	41,3	62,0	103,4	124,1	165,5	186,2	206,9	310,3
AQ-606020AL-HT	EFXE-606020AL-HT	64,5	96,8	161,4	193,7	258,3	290,5	322,8	484,3

Enclosure types (aluminium)		Maximum power dissipation (W) – Tamb. up to **60**°C						
		INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)	INTERNAL TEMP.130°C (T4/T135°C)
AQ-080806AL-HT	EFXE-080806AL-HT	2,6	5,2	6,5	9,1	10,4	11,7	18,2
AR-081306AL-HT	EFXE-081306AL-HT	3,5	7,0	8,8	12,3	14,1	15,9	24,7
AR-081806AL-HT	EFXE-081806AL-HT	4,4	8,9	11,1	15,5	17,8	20,0	31,1
AR-082505AL-HT	EFXE-082505AL-HT	5,4	10,9	13,7	19,2	21,9	24,7	38,4
AQ-101008AL-HT	EFXE-101008AL-HT	4,3	8,7	10,8	15,2	17,4	19,6	30,4
AR-101608AL-HT	EFXE-101608AL-HT	5,7	11,5	14,4	20,2	23,1	26,0	40,5
AR-102008AL-HT	EFXE-102008AL-HT	6,7	13,4	16,7	23,5	26,8	30,2	47,0
AQ-121208AL-HT	EFXE-121208AL-HT	5,4	10,8	13,5	18,9	21,6	24,3	37,8
AQ-121209AL-HT	EFXE-121209AL-HT	5,8	11,6	14,6	20,4	23,3	26,2	40,8
AR-122208AL-HT	EFXE-122208AL-HT	7,8	15,6	19,6	27,4	31,3	35,3	54,9
AR-122209AL-HT	EFXE-122209AL-HT	8,4	16,8	21,0	29,5	33,7	37,9	59,0
AR-123608AL-HT	EFXE-123608AL-HT	11,1	22,3	27,9	39,1	44,7	50,3	78,3
AQ-141409AL-HT	EFXE-141409AL-HT	6,8	13,7	17,2	24,1	27,5	31,0	48,2
AR-142009AL-HT	EFXE-142009AL-HT	8,5	17,1	21,4	30,0	34,2	38,5	60,0
AQ-161609AL-HT	EFXE-161609AL-HT	8,0	16,1	20,1	28,1	32,2	36,2	56,3
AR-162609AL-HT	EFXE-162609AL-HT	10,9	21,9	27,4	38,3	43,8	49,3	76,7
AR-163609AL-HT	EFXE-163609AL-HT	13,7	27,5	34,4	48,2	55,1	62,0	96,4
AR-165609AL-HT	EFXE-165609AL-HT	19,2	38,4	48,1	67,3	76,9	86,6	134,7
AQ-181810AL-HT	EFXE-181810AL-HT	9,8	19,7	24,6	34,5	39,5	44,4	69,1
AR-182810AL-HT	EFXE-182810AL-HT	13,0	26,1	32,6	45,7	52,2	58,7	91,4
AR-102311AL-HT	EFXE-102311AL-HT	9,1	18,2	22,8	31,9	36,5	41,0	63,8
AR-202311AL-HT	EFXE-202311AL-HT	13,0	26,1	32,6	45,6	52,2	58,7	91,3
AR-202318AL-HT	EFXE-202318AL-HT	17,9	35,9	44,9	62,8	71,8	80,8	125,7
AR-232811AL-HT	EFXE-232811AL-HT	15,8	31,6	39,6	55,4	63,3	71,3	110,9
AR-233311AL-HT	EFXE-233311AL-HT	17,6	35,3	44,1	61,7	70,6	79,4	123,5
AR-233318AL-HT	EFXE-233318AL-HT	23,7	47,5	59,4	83,2	95,1	107,0	166,5
AR-234011AL-HT	EFXE-234011AL-HT	20,1	40,2	50,3	70,5	80,5	90,6	141,0
AR-234023AL-HT	EFXE-234023AL-HT	31,1	62,2	77,8	108,9	124,5	140,0	217,9
AR-236011AL-HT	EFXE-236011AL-HT	27,0	54,1	67,7	94,8	108,3	121,9	189,6
AR-314011AL-HT	EFXE-314011AL-HT	24,3	48,6	60,7	85,0	97,2	109,3	170,1
AR-314014AL-HT	EFXE-314014AL-HT	27,4	54,9	68,7	96,2	109,9	123,7	192,4
AR-314018AL-HT	EFXE-314018AL-HT	31,9	63,8	79,7	111,6	127,6	143,5	223,3
AR-314023AL-HT	EFXE-314023AL-HT	36,7	73,5	91,9	128,7	147,1	165,5	257,4
AR-316011AL-HT	EFXE-316011AL-HT	32,0	64,0	80,0	112,0	128,1	144,1	224,1
AR-316018AL-HT	EFXE-316018AL-HT	41,3	82,7	103,4	144,8	165,5	186,2	289,6
AQ-606020AL-HT	EFXE-606020AL-HT	64,5	129,1	161,4	226,0	258,3	290,5	452,0

Enclosure types (aluminium)		Maximum power dissipation (W) Tamb. up to **95**°C		
		INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)	INTERNAL TEMP.130°C (T4/T135°C)
AQ-080806AL-HT	EFXE-080806AL-HT	1,3	2,6	9,1
AR-081306AL-HT	EFXE-081306AL-HT	1,7	3,5	12,3
AR-081806AL-HT	EFXE-081806AL-HT	2,2	4,4	15,5
AR-082505AL-HT	EFXE-082505AL-HT	2,7	5,4	19,2
AQ-101008AL-HT	EFXE-101008AL-HT	2,1	4,3	15,2
AR-101608AL-HT	EFXE-101608AL-HT	2,8	5,7	20,2
AR-102008AL-HT	EFXE-102008AL-HT	3,3	6,7	23,5
AQ-121208AL-HT	EFXE-121208AL-HT	2,7	5,4	18,9
AQ-121209AL-HT	EFXE-121209AL-HT	2,9	5,8	20,4
AR-122208AL-HT	EFXE-122208AL-HT	3,9	7,8	27,4
AR-122209AL-HT	EFXE-122209AL-HT	4,2	8,4	29,5
AR-123608AL-HT	EFXE-123608AL-HT	5,5	11,1	39,1
AQ-141409AL-HT	EFXE-141409AL-HT	3,4	6,8	24,1
AR-142009AL-HT	EFXE-142009AL-HT	4,2	8,5	30,0
AQ-161609AL-HT	EFXE-161609AL-HT	4,0	8,0	28,1
AR-162609AL-HT	EFXE-162609AL-HT	5,4	10,9	38,3
AR-163609AL-HT	EFXE-163609AL-HT	6,8	13,7	48,2
AR-165609AL-HT	EFXE-165609AL-HT	9,6	19,2	67,3
AQ-181810AL-HT	EFXE-181810AL-HT	4,9	9,8	34,5
AR-182810AL-HT	EFXE-182810AL-HT	6,5	13,0	45,7
AR-102311AL-HT	EFXE-102311AL-HT	4,5	9,1	31,9
AR-202311AL-HT	EFXE-202311AL-HT	6,5	13,0	45,6
AR-202318AL-HT	EFXE-202318AL-HT	8,9	17,9	62,8
AR-232811AL-HT	EFXE-232811AL-HT	7,9	15,8	55,4
AR-233311AL-HT	EFXE-233311AL-HT	8,8	17,6	61,7
AR-233318AL-HT	EFXE-233318AL-HT	11,8	23,7	83,2
AR-234011AL-HT	EFXE-234011AL-HT	10,0	20,1	70,5
AR-234023AL-HT	EFXE-234023AL-HT	15,5	31,1	108,9
AR-236011AL-HT	EFXE-236011AL-HT	13,5	27,0	94,8
AR-314011AL-HT	EFXE-314011AL-HT	12,1	24,3	85,0
AR-314014AL-HT	EFXE-314014AL-HT	13,7	27,4	96,2
AR-314018AL-HT	EFXE-314018AL-HT	15,9	31,9	111,6
AR-314023AL-HT	EFXE-314023AL-HT	18,3	36,7	128,7
AR-316011AL-HT	EFXE-316011AL-HT	16,0	32,0	112,0
AR-316018AL-HT	EFXE-316018AL-HT	20,6	41,3	144,8
AQ-606020AL-HT	EFXE-606020AL-HT	32,2	64,5	226,0

Power dissipation – Glass fiber reinforced polyester resin enclosures

Enclosure types (polyester)		Maximum power dissipation (W) – Tamb. up to **40**°C						
		INTERNAL TEMP.60°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
AQ-080806P	EFE-080806	3,4	5,2	6,9	7,8	9,5	10,4	11,3
AQ-080808P	EFE-080808	4,5	6,8	9,1	10,2	12,5	13,6	14,7
AR-081106P	EFE-081106	4,2	6,4	8,5	9,6	11,7	12,8	13,8
AR-081606P	EFE-081606	5,7	8,6	11,5	13,0	15,9	17,3	18,8
AR-081906P	EFE-081906	6,4	9,6	12,8	14,4	17,6	19,2	20,8
AQ-121209P	EFE-121209	7,9	11,9	15,9	17,9	21,9	23,9	25,9
AR-122209P	EFE-122209	10,8	16,2	21,6	24,3	29,7	32,4	35,1
AQ-161609P	EFE-161609	10,3	15,5	20,7	23,3	28,5	31,1	33,7
AR-162609P	EFE-162609	13,4	20,1	26,8	30,1	36,8	40,2	43,5
AR-163609P	EFE-163609	16,2	24,3	32,4	36,4	44,5	48,6	52,6
AQ-252612P	EFE-252612	18,8	28,2	37,6	42,3	51,7	56,4	61,1
AQ-252616P	EFE-252616	21,7	32,6	43,5	49,0	59,9	65,3	70,8
AR-254012P	EFE-254012	23,9	35,9	47,9	53,9	65,9	71,8	77,8
AR-254016P	EFE-254016	27,4	41,2	54,9	61,8	75,6	82,4	89,3
AR-256012P	EFE-256012	29,0	43,5	58,0	65,3	79,8	87,1	94,3
AQ-414012P	EFE-414012	29,1	43,6	58,2	65,5	80,0	87,3	94,6
AQ-414016P	EFE-414016	32,9	49,4	65,9	74,1	90,6	98,8	107,0

Enclosure types (polyester)		Maximum power dissipation (W) – Tamb. up to **50**°C						
		INTERNAL TEMP.60°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
AQ-080806P	EFE-080806	1,7	3,4	5,2	6,0	7,8	8,7	9,5
AQ-080808P	EFE-080808	2,2	4,5	6,8	7,9	10,2	11,3	12,5
AR-081106P	EFE-081106	2,1	4,2	6,4	7,4	9,6	10,6	11,7
AR-081606P	EFE-081606	2,8	5,7	8,6	10,1	13,0	14,4	15,9
AR-081906P	EFE-081906	3,2	6,4	9,6	11,2	14,4	16,0	17,6
AQ-121209P	EFE-121209	3,9	7,9	11,9	13,9	17,9	19,9	21,9
AR-122209P	EFE-122209	5,4	10,8	16,2	18,9	24,3	27,0	29,7
AQ-161609P	EFE-161609	5,1	10,3	15,5	18,1	23,3	25,9	28,5
AR-162609P	EFE-162609	6,7	13,4	20,1	23,4	30,1	33,5	36,8
AR-163609P	EFE-163609	8,1	16,2	24,3	28,3	36,4	40,5	44,5
AQ-252612P	EFE-252612	9,4	18,8	28,2	32,9	42,3	47,0	51,7
AQ-252616P	EFE-252616	10,8	21,7	32,6	38,1	49,0	54,4	59,9
AR-254012P	EFE-254012	11,9	23,9	35,9	41,9	53,9	59,9	65,9
AR-254016P	EFE-254016	13,7	27,4	41,2	48,1	61,8	68,7	75,6
AR-256012P	EFE-256012	14,5	29,0	43,5	50,8	65,3	72,6	79,8
AQ-414012P	EFE-414012	14,5	29,1	43,6	50,9	65,5	72,7	80,0
AQ-414016P	EFE-414016	16,4	32,9	49,4	57,6	74,1	82,3	90,6

Enclosure types (polyester)		Maximum power dissipation (W) – Tamb. up to **55**°C						
		INTERNAL TEMP.65°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
AQ-080806P	EFE-080806	1,7	2,6	4,3	5,2	6,9	7,8	8,7
AQ-080808P	EFE-080808	2,2	3,4	5,6	6,8	9,1	10,2	11,3
AR-081106P	EFE-081106	2,1	3,2	5,3	6,4	8,5	9,6	10,6
AR-081606P	EFE-081606	2,8	4,3	7,2	8,6	11,5	13,0	14,4
AR-081906P	EFE-081906	3,2	4,8	8,0	9,6	12,8	14,4	16,0
AQ-121209P	EFE-121209	3,9	5,9	9,9	11,9	15,9	17,9	19,9
AR-122209P	EFE-122209	5,4	8,1	13,5	16,2	21,6	24,3	27,0
AQ-161609P	EFE-161609	5,1	7,7	12,9	15,5	20,7	23,3	25,9
AR-162609P	EFE-162609	6,7	10,0	16,7	20,1	26,8	30,1	33,5
AR-163609P	EFE-163609	8,1	12,1	20,2	24,3	32,4	36,4	40,5
AQ-252612P	EFE-252612	9,4	14,1	23,5	28,2	37,6	42,3	47,0
AQ-252616P	EFE-252616	10,8	16,3	27,2	32,6	43,5	49,0	54,4
AR-254012P	EFE-254012	11,9	17,9	29,9	35,9	47,9	53,9	59,9
AR-254016P	EFE-254016	13,7	20,6	34,3	41,2	54,9	61,8	68,7
AR-256012P	EFE-256012	14,5	21,7	36,3	43,5	58,0	65,3	72,6
AQ-414012P	EFE-414012	14,5	21,8	36,3	43,6	58,2	65,5	72,7
AQ-414016P	EFE-414016	16,4	24,7	41,1	49,4	65,9	74,1	82,3

Enclosure types (polyester)		Maximum power dissipation (W) – Tamb. up to **60**°C					
		INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
AQ-080806P	EFE-080806	1,7	3,4	4,3	6,0	6,9	7,8
AQ-080808P	EFE-080808	2,2	4,5	5,6	7,9	9,1	10,2
AR-081106P	EFE-081106	2,1	4,2	5,3	7,4	8,5	9,6
AR-081606P	EFE-081606	2,8	5,7	7,2	10,1	11,5	13,0
AR-081906P	EFE-081906	3,2	6,4	8,0	11,2	12,8	14,4
AQ-121209P	EFE-121209	3,9	7,9	9,9	13,9	15,9	17,9
AR-122209P	EFE-122209	5,4	10,8	13,5	18,9	21,6	24,3
AQ-161609P	EFE-161609	5,1	10,3	12,9	18,1	20,7	23,3
AR-162609P	EFE-162609	6,7	13,4	16,7	23,4	26,8	30,1
AR-163609P	EFE-163609	8,1	16,2	20,2	28,3	32,4	36,4
AQ-252612P	EFE-252612	9,4	18,8	23,5	32,9	37,6	42,3
AQ-252616P	EFE-252616	10,8	21,7	27,2	38,1	43,5	49,0
AR-254012P	EFE-254012	11,9	23,9	29,9	41,9	47,9	53,9
AR-254016P	EFE-254016	13,7	27,4	34,3	48,1	54,9	61,8
AR-256012P	EFE-256012	14,5	29,0	36,3	50,8	58,0	65,3
AQ-414012P	EFE-414012	14,5	29,1	36,3	50,9	58,2	65,5
AQ-414016P	EFE-414016	16,4	32,9	41,1	57,6	65,9	74,1

Enclosure types (polyester)		Maximum power dissipation (W) – Tamb. up to **95**°C	
		INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
AQ-080806P	EFE-080806	0,8	1,7
AQ-080808P	EFE-080808	1,1	2,2
AR-081106P	EFE-081106	1,0	2,1
AR-081606P	EFE-081606	1,4	2,8
AR-081906P	EFE-081906	1,6	3,2
AQ-121209P	EFE-121209	1,9	3,9
AR-122209P	EFE-122209	2,7	5,4
AQ-161609P	EFE-161609	2,5	5,1
AR-162609P	EFE-162609	3,3	6,7
AR-163609P	EFE-163609	4,0	8,1
AQ-252612P	EFE-252612	4,7	9,4
AQ-252616P	EFE-252616	5,4	10,8
AR-254012P	EFE-254012	5,9	11,9
AR-254016P	EFE-254016	6,8	13,7
AR-256012P	EFE-256012	7,2	14,5
AQ-414012P	EFE-414012	7,2	14,5
AQ-414016P	EFE-414016	8,2	16,4

Power dissipation – Aluminium alloy enclosures

Enclosure types (aluminium)		Maximum power dissipation (W) – Tamb. up to **40**°C						
		INTERNAL TEMP.60°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
AQ-080806AL	EFXE-080806AL	5,2	7,8	10,4	11,7	14,3	15,6	16,9
AR-081306AL	EFXE-081306AL	7,0	10,6	14,1	15,9	19,4	21,2	23,0
AR-081806AL	EFXE-081806AL	8,9	13,3	17,8	20,0	24,5	26,7	28,9
AR-081808AL	EFXE-081808AL	11,0	16,5	22,1	24,8	30,4	33,1	35,9
AR-082505AL	EFXE-082505AL	10,7	16,1	21,4	24,1	29,5	32,2	34,8
AR-082508AL	EFXE-082508AL	14,2	21,4	28,5	32,1	39,2	42,8	46,4
AQ-101008AL	EFXE-101008AL	8,7	13,0	17,4	19,6	23,9	26,1	28,3
AR-101508AL	EFXE-101508AL	11,1	16,6	22,2	24,9	30,5	33,3	36,0
AR-101608AL	EFXE-101608AL	11,5	17,3	23,1	26,0	31,8	34,7	37,6
AR-102008AL	EFXE-102008AL	13,4	20,1	26,8	30,2	36,9	40,3	43,6
AQ-121208AL	EFXE-121208AL	10,8	16,2	21,6	24,3	29,7	32,4	35,1
AR-122209AL	EFXE-122209AL	16,8	25,3	33,7	37,9	46,3	50,6	54,8
AQ-141409AL	EFXE-141409AL	13,7	20,6	27,5	31,0	37,9	41,3	44,8
AR-142009AL	EFXE-142009AL	17,1	25,7	34,2	38,5	47,1	51,4	55,7
AQ-161609AL	EFXE-161609AL	17,2	25,8	34,4	38,7	47,3	51,6	55,9
AR-162410AL	EFXE-162410AL	22,1	33,1	44,2	49,7	60,8	66,3	71,8
AR-162609AL	EFXE-162609AL	21,9	32,8	43,8	49,3	60,2	65,7	71,2
AQ-181810AL	EFXE-181810AL	19,7	29,6	39,5	44,4	54,3	59,2	64,2
AR-182810AL	EFXE-182810AL	26,1	39,1	52,2	58,7	71,8	78,3	84,8
AR-202311AL	EFXE-202311AL	25,8	38,7	51,6	58,0	71,0	77,4	83,9
AR-202318AL	EFXE-202318AL	35,5	53,3	71,1	80,0	97,8	106,7	115,6
AR-232811AL	EFXE-232811AL	31,6	47,5	63,3	71,3	87,1	95,0	103,0
AR-233312AL	EFXE-233312AL	37,0	55,6	74,1	83,4	101,9	111,2	120,5
AR-233318AL	EFXE-233318AL	47,5	71,3	95,1	107,0	130,8	142,7	154,6

Enclosure types (aluminium)		Maximum power dissipation (W) – Tamb. up to **50**°C						
		INTERNAL TEMP.60°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
AQ-080806AL	EFXE-080806AL	2,6	5,2	7,8	9,1	11,7	13,0	14,3
AR-081306AL	EFXE-081306AL	3,5	7,0	10,6	12,3	15,9	17,7	19,4
AR-081806AL	EFXE-081806AL	4,4	8,9	13,3	15,5	20,0	22,2	24,5
AR-081808AL	EFXE-081808AL	5,5	11,0	16,5	19,3	24,8	27,6	30,4
AR-082505AL	EFXE-082505AL	5,3	10,7	16,1	18,7	24,1	26,8	29,5
AR-082508AL	EFXE-082508AL	7,1	14,2	21,4	24,9	32,1	35,7	39,2
AQ-101008AL	EFXE-101008AL	4,3	8,7	13,0	15,2	19,6	21,7	23,9
AR-101508AL	EFXE-101508AL	5,5	11,1	16,6	19,4	24,9	27,7	30,5
AR-101608AL	EFXE-101608AL	5,7	11,5	17,3	20,2	26,0	28,9	31,8
AR-102008AL	EFXE-102008AL	6,7	13,4	20,1	23,5	30,2	33,5	36,9
AQ-121208AL	EFXE-121208AL	5,4	10,8	16,2	18,9	24,3	27,0	29,7
AR-122209AL	EFXE-122209AL	8,4	16,8	25,3	29,5	37,9	42,1	46,3
AQ-141409AL	EFXE-141409AL	6,8	13,7	20,6	24,1	31,0	34,4	37,9
AR-142009AL	EFXE-142009AL	8,5	17,1	25,7	30,0	38,5	42,8	47,1
AQ-161609AL	EFXE-161609AL	8,6	17,2	25,8	30,1	38,7	43,0	47,3
AR-162410AL	EFXE-162410AL	11,0	22,1	33,1	38,7	49,7	55,3	60,8
AR-162609AL	EFXE-162609AL	10,9	21,9	32,8	38,3	49,3	54,8	60,2
AQ-181810AL	EFXE-181810AL	9,8	19,7	29,6	34,5	44,4	49,3	54,3
AR-182810AL	EFXE-182810AL	13,0	26,1	39,1	45,7	58,7	65,2	71,8
AR-202311AL	EFXE-202311AL	12,9	25,8	38,7	45,1	58,0	64,5	71,0
AR-202318AL	EFXE-202318AL	17,7	35,5	53,3	62,2	80,0	88,9	97,8
AR-232811AL	EFXE-232811AL	15,8	31,6	47,5	55,4	71,3	79,2	87,1
AR-233312AL	EFXE-233312AL	18,5	37,0	55,6	64,8	83,4	92,7	101,9
AR-233318AL	EFXE-233318AL	23,7	47,5	71,3	83,2	107,0	118,9	130,8

Enclosure types (aluminium)		Maximum power dissipation (W) – Tamb. up to **55**°C						
		INTERNAL TEMP.65°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
AQ-080806AL	EFXE-080806AL	2,6	3,9	6,5	7,8	10,4	11,7	13,0
AR-081306AL	EFXE-081306AL	3,5	5,3	8,8	10,6	14,1	15,9	17,7
AR-081806AL	EFXE-081806AL	4,4	6,6	11,1	13,3	17,8	20,0	22,2
AR-081808AL	EFXE-081808AL	5,5	8,2	13,8	16,5	22,1	24,8	27,6
AR-082505AL	EFXE-082505AL	5,3	8,0	13,4	16,1	21,4	24,1	26,8
AR-082508AL	EFXE-082508AL	7,1	10,7	17,8	21,4	28,5	32,1	35,7
AQ-101008AL	EFXE-101008AL	4,3	6,5	10,8	13,0	17,4	19,6	21,7
AR-101508AL	EFXE-101508AL	5,5	8,3	13,8	16,6	22,2	24,9	27,7
AR-101608AL	EFXE-101608AL	5,7	8,6	14,4	17,3	23,1	26,0	28,9
AR-102008AL	EFXE-102008AL	6,7	10,0	16,7	20,1	26,8	30,2	33,5
AQ-121208AL	EFXE-121208AL	5,4	8,1	13,5	16,2	21,6	24,3	27,0
AR-122209AL	EFXE-122209AL	8,4	12,6	21,0	25,3	33,7	37,9	42,1
AQ-141409AL	EFXE-141409AL	6,8	10,3	17,2	20,6	27,5	31,0	34,4
AR-142009AL	EFXE-142009AL	8,5	12,8	21,4	25,7	34,2	38,5	42,8
AQ-161609AL	EFXE-161609AL	8,6	12,9	21,5	25,8	34,4	38,7	43,0
AR-162410AL	EFXE-162410AL	11,0	16,5	27,6	33,1	44,2	49,7	55,3
AR-162609AL	EFXE-162609AL	10,9	16,4	27,4	32,8	43,8	49,3	54,8
AQ-181810AL	EFXE-181810AL	9,8	14,8	24,6	29,6	39,5	44,4	49,3
AR-182810AL	EFXE-182810AL	13,0	19,5	32,6	39,1	52,2	58,7	65,2
AR-202311AL	EFXE-202311AL	12,9	19,3	32,2	38,7	51,6	58,0	64,5
AR-202318AL	EFXE-202318AL	17,7	26,6	44,4	53,3	71,1	80,0	88,9
AR-232811AL	EFXE-232811AL	15,8	23,7	39,6	47,5	63,3	71,3	79,2
AR-233312AL	EFXE-233312AL	18,5	27,8	46,3	55,6	74,1	83,4	92,7
AR-233318AL	EFXE-233318AL	23,7	35,6	59,4	71,3	95,1	107,0	118,9

Enclosure types (aluminium)		Maximum power dissipation (W) – Tamb. up to **60**°C					
		INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
AQ-080806AL	EFXE-080806AL	2,6	5,2	6,5	9,1	10,4	11,7
AR-081306AL	EFXE-081306AL	3,5	7,0	8,8	12,3	14,1	15,9
AR-081806AL	EFXE-081806AL	4,4	8,9	11,1	15,5	17,8	20,0
AR-081808AL	EFXE-081808AL	5,5	11,0	13,8	19,3	22,1	24,8
AR-082505AL	EFXE-082505AL	5,3	10,7	13,4	18,7	21,4	24,1
AR-082508AL	EFXE-082508AL	7,1	14,2	17,8	24,9	28,5	32,1
AQ-101008AL	EFXE-101008AL	4,3	8,7	10,8	15,2	17,4	19,6
AR-101508AL	EFXE-101508AL	5,5	11,1	13,8	19,4	22,2	24,9
AR-101608AL	EFXE-101608AL	5,7	11,5	14,4	20,2	23,1	26,0
AR-102008AL	EFXE-102008AL	6,7	13,4	16,7	23,5	26,8	30,2
AQ-121208AL	EFXE-121208AL	5,4	10,8	13,5	18,9	21,6	24,3
AR-122209AL	EFXE-122209AL	8,4	16,8	21,0	29,5	33,7	37,9
AQ-141409AL	EFXE-141409AL	6,8	13,7	17,2	24,1	27,5	31,0
AR-142009AL	EFXE-142009AL	8,5	17,1	21,4	30,0	34,2	38,5
AQ-161609AL	EFXE-161609AL	8,6	17,2	21,5	30,1	34,4	38,7
AR-162410AL	EFXE-162410AL	11,0	22,1	27,6	38,7	44,2	49,7
AR-162609AL	EFXE-162609AL	10,9	21,9	27,4	38,3	43,8	49,3
AQ-181810AL	EFXE-181810AL	9,8	19,7	24,6	34,5	39,5	44,4
AR-182810AL	EFXE-182810AL	13,0	26,1	32,6	45,7	52,2	58,7
AR-202311AL	EFXE-202311AL	12,9	25,8	32,2	45,1	51,6	58,0
AR-202318AL	EFXE-202318AL	17,7	35,5	44,4	62,2	71,1	80,0
AR-232811AL	EFXE-232811AL	15,8	31,6	39,6	55,4	63,3	71,3
AR-233312AL	EFXE-233312AL	18,5	37,0	46,3	64,8	74,1	83,4
AR-233318AL	EFXE-233318AL	23,7	47,5	59,4	83,2	95,1	107,0

Enclosure types (aluminium)		Maximum power dissipation (W) – Tamb. up to **95**°C	
		INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
AQ-080806AL	EFXE-080806AL	1,3	2,6
AR-081306AL	EFXE-081306AL	1,7	3,5
AR-081806AL	EFXE-081806AL	2,2	4,4
AR-081808AL	EFXE-081808AL	2,7	5,5
AR-082505AL	EFXE-082505AL	2,6	5,3
AR-082508AL	EFXE-082508AL	3,5	7,1
AQ-101008AL	EFXE-101008AL	2,1	4,3
AR-101508AL	EFXE-101508AL	2,7	5,5
AR-101608AL	EFXE-101608AL	2,8	5,7
AR-102008AL	EFXE-102008AL	3,3	6,7
AQ-121208AL	EFXE-121208AL	2,7	5,4
AR-122209AL	EFXE-122209AL	4,2	8,4
AQ-141409AL	EFXE-141409AL	3,4	6,8
AR-142009AL	EFXE-142009AL	4,2	8,5
AQ-161609AL	EFXE-161609AL	4,3	8,6
AR-162410AL	EFXE-162410AL	5,5	11,0
AR-162609AL	EFXE-162609AL	5,4	10,9
AQ-181810AL	EFXE-181810AL	4,9	9,8
AR-182810AL	EFXE-182810AL	6,5	13,0
AR-202311AL	EFXE-202311AL	6,4	12,9
AR-202318AL	EFXE-202318AL	8,8	17,7
AR-232811AL	EFXE-232811AL	7,9	15,8
AR-233312AL	EFXE-233312AL	9,2	18,5
AR-233318AL	EFXE-233318AL	11,8	23,7

Power dissipation – Stainless steel enclosures SB series

Enclosure types (stainless steel)		Maximum power dissipation (W) – Tamb. up to **40**°C						
		INTERNAL TEMP.60°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
SB-101210	EFXE-101210SB	5,5	8,3	11,1	12,5	15,3	16,7	18,1
SB-151510	EFXE-151510SB	8,0	12,0	16,0	18,0	22,0	24,0	26,1
SB-142013	EFXE-142013SB	10,4	15,7	20,9	23,5	28,8	31,4	34,0
SB-202010	EFXE-202010SB	10,7	16,1	21,4	24,1	29,5	32,2	34,8
SB-202016	EFXE-202016SB	13,9	20,8	27,8	31,3	38,3	41,7	45,2
SB-202713	EFXE-202713SB	14,4	21,6	28,9	32,5	39,7	43,3	46,9
SB-272713	EFXE-272713SB	16,7	25,1	33,5	37,7	46,0	50,2	54,4
SB-203016	EFXE-203016SB	17,1	25,7	34,3	38,6	47,2	51,4	55,7
SB-273513	EFXE-273513SB	19,2	28,9	38,5	43,3	53,0	57,8	62,6
SB-282816	EFXE-282816SB	19,3	29,0	38,7	43,6	53,3	58,1	63,0
SB-204016	EFXE-204016SB	20,2	30,3	40,4	45,5	55,6	60,6	65,7
SB-353516	EFXE-353516SB	24,4	36,6	48,8	54,9	67,1	73,2	79,3
SB-282827	EFXE-282827SB	26,2	39,3	52,5	59,0	72,2	78,7	85,3
SB-355016	EFXE-355016SB	29,7	44,5	59,4	66,8	81,7	89,1	96,6
SB-383816	EFXE-383816SB	26,6	39,9	53,2	59,8	73,1	79,8	86,5
SB-384516	EFXE-384516SB	29,1	43,7	58,3	65,6	80,2	87,5	94,8
SB-385716	EFXE-385716SB	33,4	50,1	66,8	75,2	91,9	100,3	108,7
SB-505016	EFXE-505016SB	35,8	53,8	71,7	80,7	98,6	107,6	116,6
SB-383827	EFXE-383827SB	35,1	52,7	70,2	79,0	96,6	105,4	114,2
SB-575716	EFXE-575716SB	41,5	62,3	83,1	93,5	114,3	124,7	135,1
SB-577620	EFXE-577620SB	53,9	80,9	107,9	121,3	148,3	161,8	175,3
SB-575730	EFXE-575730SB	55,8	83,7	111,6	125,6	153,5	167,5	181,4
SB-769520	EFXE-769520SB	72,2	108,3	144,4	162,4	198,5	216,6	234,6
SB-1258040	EFXE-1258040SB	72,2	108,3	144,4	162,4	198,5	216,6	234,6

Enclosure types (Stainless steel)		Maximum power dissipation (W) – Tamb. up to **50**°C						
		INTERNAL TEMP.60°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
SB-101210	EFXE-101210SB	2,7	5,5	8,3	9,7	12,5	13,9	15,3
SB-151510	EFXE-151510SB	4,0	8,0	12,0	14,0	18,0	20,0	22,0
SB-142013	EFXE-142013SB	5,2	10,4	15,7	18,3	23,5	26,2	28,8
SB-202010	EFXE-202010SB	5,3	10,7	16,1	18,7	24,1	26,8	29,5
SB-202016	EFXE-202016SB	6,9	13,9	20,8	24,3	31,3	34,8	38,3
SB-202713	EFXE-202713SB	7,2	14,4	21,6	25,2	32,5	36,1	39,7
SB-272713	EFXE-272713SB	8,3	16,7	25,1	29,3	37,7	41,8	46,0
SB-203016	EFXE-203016SB	8,5	17,1	25,7	30,0	38,6	42,9	47,2
SB-273513	EFXE-273513SB	9,6	19,2	28,9	33,7	43,3	48,2	53,0
SB-282816	EFXE-282816SB	9,6	19,3	29,0	33,9	43,6	48,4	53,3
SB-204016	EFXE-204016SB	10,1	20,2	30,3	35,4	45,5	50,5	55,6
SB-353516	EFXE-353516SB	12,2	24,4	36,6	42,7	54,9	61,0	67,1
SB-282827	EFXE-282827SB	13,1	26,2	39,3	45,9	59,0	65,6	72,2
SB-355016	EFXE-355016SB	14,8	29,7	44,5	52,0	66,8	74,3	81,7
SB-383816	EFXE-383816SB	13,3	26,6	39,9	46,5	59,8	66,5	73,1
SB-384516	EFXE-384516SB	14,5	29,1	43,7	51,0	65,6	72,9	80,2
SB-385716	EFXE-385716SB	16,7	33,4	50,1	58,5	75,2	83,6	91,9
SB-505016	EFXE-505016SB	17,9	35,8	53,8	62,7	80,7	89,7	98,6
SB-383827	EFXE-383827SB	17,5	35,1	52,7	61,4	79,0	87,8	96,6
SB-575716	EFXE-575716SB	20,7	41,5	62,3	72,7	93,5	103,9	114,3
SB-577620	EFXE-577620SB	26,9	53,9	80,9	94,4	121,3	134,8	148,3
SB-575730	EFXE-575730SB	27,9	55,8	83,7	97,7	125,6	139,5	153,5
SB-769520	EFXE-769520SB	36,1	72,2	108,3	126,3	162,4	180,5	198,5
SB-1258040	EFXE-1258040SB	36,1	72,2	108,3	126,3	162,4	180,5	198,5

Enclosure types (Stainless steel)		Maximum power dissipation (W) – Tamb. up to **55**°C						
		INTERNAL TEMP.65°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
SB-101210	EFXE-101210SB	2,7	4,1	6,9	8,3	11,1	12,5	13,9
SB-151510	EFXE-151510SB	4,0	6,0	10,0	12,0	16,0	18,0	20,0
SB-142013	EFXE-142013SB	5,2	7,8	13,1	15,7	20,9	23,5	26,2
SB-202010	EFXE-202010SB	5,3	8,0	13,4	16,1	21,4	24,1	26,8
SB-202016	EFXE-202016SB	6,9	10,4	17,4	20,8	27,8	31,3	34,8
SB-202713	EFXE-202713SB	7,2	10,8	18,0	21,6	28,9	32,5	36,1
SB-272713	EFXE-272713SB	8,3	12,5	20,9	25,1	33,5	37,7	41,8
SB-203016	EFXE-203016SB	8,5	12,8	21,4	25,7	34,3	38,6	42,9
SB-273513	EFXE-273513SB	9,6	14,4	24,1	28,9	38,5	43,3	48,2
SB-282816	EFXE-282816SB	9,6	14,5	24,2	29,0	38,7	43,6	48,4
SB-204016	EFXE-204016SB	10,1	15,1	25,2	30,3	40,4	45,5	50,5
SB-353516	EFXE-353516SB	12,2	18,3	30,5	36,6	48,8	54,9	61,0
SB-282827	EFXE-282827SB	13,1	19,6	32,8	39,3	52,5	59,0	65,6
SB-355016	EFXE-355016SB	14,8	22,2	37,1	44,5	59,4	66,8	74,3
SB-383816	EFXE-383816SB	13,3	19,9	33,2	39,9	53,2	59,8	66,5
SB-384516	EFXE-384516SB	14,5	21,8	36,4	43,7	58,3	65,6	72,9
SB-385716	EFXE-385716SB	16,7	25,0	41,8	50,1	66,8	75,2	83,6
SB-505016	EFXE-505016SB	17,9	26,9	44,8	53,8	71,7	80,7	89,7
SB-383827	EFXE-383827SB	17,5	26,3	43,9	52,7	70,2	79,0	87,8
SB-575716	EFXE-575716SB	20,7	31,1	51,9	62,3	83,1	93,5	103,9
SB-577620	EFXE-577620SB	26,9	40,4	67,4	80,9	107,9	121,3	134,8
SB-575730	EFXE-575730SB	27,9	41,8	69,7	83,7	111,6	125,6	139,5
SB-769520	EFXE-769520SB	36,1	54,1	90,2	108,3	144,4	162,4	180,5
SB-1258040	EFXE-1258040SB	36,1	54,1	90,2	108,3	144,4	162,4	180,5

Enclosure types (Stainless steel)		Maximum power dissipation (W) – Tamb. up to **60**°C					
		INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
SB-101210	EFXE-101210SB	2,7	5,5	6,9	9,7	11,1	12,5
SB-151510	EFXE-151510SB	4,0	8,0	10,0	14,0	16,0	18,0
SB-142013	EFXE-142013SB	5,2	10,4	13,1	18,3	20,9	23,5
SB-202010	EFXE-202010SB	5,3	10,7	13,4	18,7	21,4	24,1
SB-202016	EFXE-202016SB	6,9	13,9	17,4	24,3	27,8	31,3
SB-202713	EFXE-202713SB	7,2	14,4	18,0	25,2	28,9	32,5
SB-272713	EFXE-272713SB	8,3	16,7	20,9	29,3	33,5	37,7
SB-203016	EFXE-203016SB	8,5	17,1	21,4	30,0	34,3	38,6
SB-273513	EFXE-273513SB	9,6	19,2	24,1	33,7	38,5	43,3
SB-282816	EFXE-282816SB	9,6	19,3	24,2	33,9	38,7	43,6
SB-204016	EFXE-204016SB	10,1	20,2	25,2	35,4	40,4	45,5
SB-353516	EFXE-353516SB	12,2	24,4	30,5	42,7	48,8	54,9
SB-282827	EFXE-282827SB	13,1	26,2	32,8	45,9	52,5	59,0
SB-355016	EFXE-355016SB	14,8	29,7	37,1	52,0	59,4	66,8
SB-383816	EFXE-383816SB	13,3	26,6	33,2	46,5	53,2	59,8
SB-384516	EFXE-384516SB	14,5	29,1	36,4	51,0	58,3	65,6
SB-385716	EFXE-385716SB	16,7	33,4	41,8	58,5	66,8	75,2
SB-505016	EFXE-505016SB	17,9	35,8	44,8	62,7	71,7	80,7
SB-383827	EFXE-383827SB	17,5	35,1	43,9	61,4	70,2	79,0
SB-575716	EFXE-575716SB	20,7	41,5	51,9	72,7	83,1	93,5
SB-577620	EFXE-577620SB	26,9	53,9	67,4	94,4	107,9	121,3
SB-575730	EFXE-575730SB	27,9	55,8	69,7	97,7	111,6	125,6
SB-769520	EFXE-769520SB	36,1	72,2	90,2	126,3	144,4	162,4
SB-1258040	EFXE-1258040SB	36,1	72,2	90,2	126,3	144,4	162,4

Enclosure types (Stainless steel)		Maximum power dissipation (W) – Tamb. up to **95**°C	
		INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
SB-101210	EFXE-101210SB	1,3	2,7
SB-151510	EFXE-151510SB	2,0	4,0
SB-142013	EFXE-142013SB	2,6	5,2
SB-202010	EFXE-202010SB	2,6	5,3
SB-202016	EFXE-202016SB	3,4	6,9
SB-202713	EFXE-202713SB	3,6	7,2
SB-272713	EFXE-272713SB	4,1	8,3
SB-203016	EFXE-203016SB	4,2	8,5
SB-273513	EFXE-273513SB	4,8	9,6
SB-282816	EFXE-282816SB	4,8	9,6
SB-204016	EFXE-204016SB	5,0	10,1
SB-353516	EFXE-353516SB	6,1	12,2
SB-282827	EFXE-282827SB	6,5	13,1
SB-355016	EFXE-355016SB	7,4	14,8
SB-383816	EFXE-383816SB	6,6	13,3
SB-384516	EFXE-384516SB	7,2	14,5
SB-385716	EFXE-385716SB	8,3	16,7
SB-505016	EFXE-505016SB	8,9	17,9
SB-383827	EFXE-383827SB	8,7	17,5
SB-575716	EFXE-575716SB	10,3	20,7
SB-577620	EFXE-577620SB	13,4	26,9
SB-575730	EFXE-575730SB	13,9	27,9
SB-769520	EFXE-769520SB	18,0	36,1
SB-1258040	EFXE-1258040SB	18,0	36,1

Power dissipation – Stainless steel enclosures ST series

Enclosure types (Stainless steel)		Maximum power dissipation (W) – Tamb. up to **40**°C						
		INTERNAL TEMP.60°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
ST-101210	EFXE-101210ST	5,5	8,3	11,1	12,5	15,3	16,7	18,1
ST-151510	EFXE-151510ST	8,0	12,0	16,0	18,0	22,0	24,0	26,1
ST-142013	EFXE-142013ST	10,4	15,7	20,9	23,5	28,8	31,4	34,0
ST-202010	EFXE-202010ST	10,7	16,1	21,4	24,1	29,5	32,2	34,8
ST-202016	EFXE-202016ST	13,9	20,8	27,8	31,3	38,3	41,7	45,2
ST-202713	EFXE-202713ST	14,4	21,6	28,9	32,5	39,7	43,3	46,9
ST-272713	EFXE-272713ST	16,7	25,1	33,5	37,7	46,0	50,2	54,4
ST-203016	EFXE-203016ST	17,1	25,7	34,3	38,6	47,2	51,4	55,7
ST-273513	EFXE-273513ST	19,2	28,9	38,5	43,3	53,0	57,8	62,6
ST-282816	EFXE-282816ST	19,3	29,0	38,7	43,6	53,3	58,1	63,0
ST-204016	EFXE-204016ST	20,2	30,3	40,4	45,5	55,6	60,6	65,7
ST-353516	EFXE-353516ST	24,4	36,6	48,8	54,9	67,1	73,2	79,3
ST-282827	EFXE-282827ST	26,2	39,3	52,5	59,0	72,2	78,7	85,3
ST-355016	EFXE-355016ST	29,7	44,5	59,4	66,8	81,7	89,1	96,6
ST-383816	EFXE-383816ST	26,6	39,9	53,2	59,8	73,1	79,8	86,5
ST-384516	EFXE-384516ST	29,1	43,7	58,3	65,6	80,2	87,5	94,8
ST-385716	EFXE-385716ST	33,4	50,1	66,8	75,2	91,9	100,3	108,7
ST-505016	EFXE-505016ST	35,8	53,8	71,7	80,7	98,6	107,6	116,6
ST-383827	EFXE-383827ST	35,1	52,7	70,2	79,0	96,6	105,4	114,2
ST-575716	EFXE-575716ST	41,5	62,3	83,1	93,5	114,3	124,7	135,1
ST-577620	EFXE-577620ST	53,9	80,9	107,9	121,3	148,3	161,8	175,3
ST-575730	EFXE-575730ST	55,8	83,7	111,6	125,6	153,5	167,5	181,4
ST-769520	EFXE-769520ST	72,2	108,3	144,4	162,4	198,5	216,6	234,6
ST-1258040	EFXE-1258040ST	72,2	108,3	144,4	162,4	198,5	216,6	234,6

Enclosure types (Stainless steel)		Maximum power dissipation (W) – Tamb. up to **50**°C						
		INTERNAL TEMP.60°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
ST-101210	EFXE-101210ST	2,7	5,5	8,3	9,7	12,5	13,9	15,3
ST-151510	EFXE-151510ST	4,0	8,0	12,0	14,0	18,0	20,0	22,0
ST-142013	EFXE-142013ST	5,2	10,4	15,7	18,3	23,5	26,2	28,8
ST-202010	EFXE-202010ST	5,3	10,7	16,1	18,7	24,1	26,8	29,5
ST-202016	EFXE-202016ST	6,9	13,9	20,8	24,3	31,3	34,8	38,3
ST-202713	EFXE-202713ST	7,2	14,4	21,6	25,2	32,5	36,1	39,7
ST-272713	EFXE-272713ST	8,3	16,7	25,1	29,3	37,7	41,8	46,0
ST-203016	EFXE-203016ST	8,5	17,1	25,7	30,0	38,6	42,9	47,2
ST-273513	EFXE-273513ST	9,6	19,2	28,9	33,7	43,3	48,2	53,0
ST-282816	EFXE-282816ST	9,6	19,3	29,0	33,9	43,6	48,4	53,3
ST-204016	EFXE-204016ST	10,1	20,2	30,3	35,4	45,5	50,5	55,6
ST-353516	EFXE-353516ST	12,2	24,4	36,6	42,7	54,9	61,0	67,1
ST-282827	EFXE-282827ST	13,1	26,2	39,3	45,9	59,0	65,6	72,2
ST-355016	EFXE-355016ST	14,8	29,7	44,5	52,0	66,8	74,3	81,7
ST-383816	EFXE-383816ST	13,3	26,6	39,9	46,5	59,8	66,5	73,1
ST-384516	EFXE-384516ST	14,5	29,1	43,7	51,0	65,6	72,9	80,2
ST-385716	EFXE-385716ST	16,7	33,4	50,1	58,5	75,2	83,6	91,9
ST-505016	EFXE-505016ST	17,9	35,8	53,8	62,7	80,7	89,7	98,6
ST-383827	EFXE-383827ST	17,5	35,1	52,7	61,4	79,0	87,8	96,6
ST-575716	EFXE-575716ST	20,7	41,5	62,3	72,7	93,5	103,9	114,3
ST-577620	EFXE-577620ST	26,9	53,9	80,9	94,4	121,3	134,8	148,3
ST-575730	EFXE-575730ST	27,9	55,8	83,7	97,7	125,6	139,5	153,5
ST-769520	EFXE-769520ST	36,1	72,2	108,3	126,3	162,4	180,5	198,5
ST-1258040	EFXE-1258040ST	36,1	72,2	108,3	126,3	162,4	180,5	198,5

Enclosure types (Stainless steel)		Maximum power dissipation (W) – Tamb. up to **55**°C						
		INTERNAL TEMP.65°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
ST-101210	EFXE-101210ST	2,7	4,1	6,9	8,3	11,1	12,5	13,9
ST-151510	EFXE-151510ST	4,0	6,0	10,0	12,0	16,0	18,0	20,0
ST-142013	EFXE-142013ST	5,2	7,8	13,1	15,7	20,9	23,5	26,2
ST-202010	EFXE-202010ST	5,3	8,0	13,4	16,1	21,4	24,1	26,8
ST-202016	EFXE-202016ST	6,9	10,4	17,4	20,8	27,8	31,3	34,8
ST-202713	EFXE-202713ST	7,2	10,8	18,0	21,6	28,9	32,5	36,1
ST-272713	EFXE-272713ST	8,3	12,5	20,9	25,1	33,5	37,7	41,8
ST-203016	EFXE-203016ST	8,5	12,8	21,4	25,7	34,3	38,6	42,9
ST-273513	EFXE-273513ST	9,6	14,4	24,1	28,9	38,5	43,3	48,2
ST-282816	EFXE-282816ST	9,6	14,5	24,2	29,0	38,7	43,6	48,4
ST-204016	EFXE-204016ST	10,1	15,1	25,2	30,3	40,4	45,5	50,5
ST-353516	EFXE-353516ST	12,2	18,3	30,5	36,6	48,8	54,9	61,0
ST-282827	EFXE-282827ST	13,1	19,6	32,8	39,3	52,5	59,0	65,6
ST-355016	EFXE-355016ST	14,8	22,2	37,1	44,5	59,4	66,8	74,3
ST-383816	EFXE-383816ST	13,3	19,9	33,2	39,9	53,2	59,8	66,5
ST-384516	EFXE-384516ST	14,5	21,8	36,4	43,7	58,3	65,6	72,9
ST-385716	EFXE-385716ST	16,7	25,0	41,8	50,1	66,8	75,2	83,6
ST-505016	EFXE-505016ST	17,9	26,9	44,8	53,8	71,7	80,7	89,7
ST-383827	EFXE-383827ST	17,5	26,3	43,9	52,7	70,2	79,0	87,8
ST-575716	EFXE-575716ST	20,7	31,1	51,9	62,3	83,1	93,5	103,9
ST-577620	EFXE-577620ST	26,9	40,4	67,4	80,9	107,9	121,3	134,8
ST-575730	EFXE-575730ST	27,9	41,8	69,7	83,7	111,6	125,6	139,5
ST-769520	EFXE-769520ST	36,1	54,1	90,2	108,3	144,4	162,4	180,5
ST-1258040	EFXE-1258040ST	36,1	54,1	90,2	108,3	144,4	162,4	180,5

Enclosure types (Stainless steel)		Maximum power dissipation (W) – Tamb. up to **60**°C					
		INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
ST-101210	EFXE-101210ST	2,7	5,5	6,9	9,7	11,1	12,5
ST-151510	EFXE-151510ST	4,0	8,0	10,0	14,0	16,0	18,0
ST-142013	EFXE-142013ST	5,2	10,4	13,1	18,3	20,9	23,5
ST-202010	EFXE-202010ST	5,3	10,7	13,4	18,7	21,4	24,1
ST-202016	EFXE-202016ST	6,9	13,9	17,4	24,3	27,8	31,3
ST-202713	EFXE-202713ST	7,2	14,4	18,0	25,2	28,9	32,5
ST-272713	EFXE-272713ST	8,3	16,7	20,9	29,3	33,5	37,7
ST-203016	EFXE-203016ST	8,5	17,1	21,4	30,0	34,3	38,6
ST-273513	EFXE-273513ST	9,6	19,2	24,1	33,7	38,5	43,3
ST-282816	EFXE-282816ST	9,6	19,3	24,2	33,9	38,7	43,6
ST-204016	EFXE-204016ST	10,1	20,2	25,2	35,4	40,4	45,5
ST-353516	EFXE-353516ST	12,2	24,4	30,5	42,7	48,8	54,9
ST-282827	EFXE-282827ST	13,1	26,2	32,8	45,9	52,5	59,0
ST-355016	EFXE-355016ST	14,8	29,7	37,1	52,0	59,4	66,8
ST-383816	EFXE-383816ST	13,3	26,6	33,2	46,5	53,2	59,8
ST-384516	EFXE-384516ST	14,5	29,1	36,4	51,0	58,3	65,6
ST-385716	EFXE-385716ST	16,7	33,4	41,8	58,5	66,8	75,2
ST-505016	EFXE-505016ST	17,9	35,8	44,8	62,7	71,7	80,7
ST-383827	EFXE-383827ST	17,5	35,1	43,9	61,4	70,2	79,0
ST-575716	EFXE-575716ST	20,7	41,5	51,9	72,7	83,1	93,5
ST-577620	EFXE-577620ST	26,9	53,9	67,4	94,4	107,9	121,3
ST-575730	EFXE-575730ST	27,9	55,8	69,7	97,7	111,6	125,6
ST-769520	EFXE-769520ST	36,1	72,2	90,2	126,3	144,4	162,4
ST-1258040	EFXE-1258040ST	36,1	72,2	90,2	126,3	144,4	162,4

Enclosure types (Stainless steel)		Maximum power dissipation (W) – Tamb. up to **95**°C	
		INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
ST-101210	EFXE-101210ST	1,3	2,7
ST-151510	EFXE-151510ST	2,0	4,0
ST-142013	EFXE-142013ST	2,6	5,2
ST-202010	EFXE-202010ST	2,6	5,3
ST-202016	EFXE-202016ST	3,4	6,9
ST-202713	EFXE-202713ST	3,6	7,2
ST-272713	EFXE-272713ST	4,1	8,3
ST-203016	EFXE-203016ST	4,2	8,5
ST-273513	EFXE-273513ST	4,8	9,6
ST-282816	EFXE-282816ST	4,8	9,6
ST-204016	EFXE-204016ST	5,0	10,1
ST-353516	EFXE-353516ST	6,1	12,2
ST-282827	EFXE-282827ST	6,5	13,1
ST-355016	EFXE-355016ST	7,4	14,8
ST-383816	EFXE-383816ST	6,6	13,3
ST-384516	EFXE-384516ST	7,2	14,5
ST-385716	EFXE-385716ST	8,3	16,7
ST-505016	EFXE-505016ST	8,9	17,9
ST-383827	EFXE-383827ST	8,7	17,5
ST-575716	EFXE-575716ST	10,3	20,7
ST-577620	EFXE-577620ST	13,4	26,9
ST-575730	EFXE-575730ST	13,9	27,9
ST-769520	EFXE-769520ST	18,0	36,1
ST-1258040	EFXE-1258040ST	18,0	36,1

Maximum Power Dissipation calculation

The values specified in the tables as per clause 2.1.1 may be modified within the maximum admitted Tamb and maximum admitted internal temperature as follows.

$$Pdiss\ (W) = \frac{Tmax - Tamb}{Rth}$$

$Rth = A \times (\text{enclosure surface in } mm^2 \text{ except enclosure bottom})^B$

Legend:
Rth – Thermal resistance [K/W].
Tmax – Maximum allowed temperature inside enclosure.
Tamb – Ambient temperature of enclosure
A and B - coefficients determined for each series of enclosure. Exact values are given in manufacturer's documentation.

Warning labels:

WARNING – DO NOT OPEN WHEN ENERGIZED (*)
(*) Not mandatory for apparatus with protection type Ex ia Ga and Ex ib Gb.

WARNING – POTENTIAL ELECTROSTATIC CHARGING HAZARD – SEE INSTRUCTIONS

To be added when the enclosures or parts of them have a surface resistance more than 10^9 Ω or 10^{11} Ω according to IEC 60079-0 Clause 7.4.2 a), as applicable, and as per following cases:

- are equipped with transparent parts made of polycarbonate.
- for category II 2 G / EPL Gb Gas group IIC: are painted and the paint layer thickness is > 0.2mm.
- for category II 2 G / EPL Gb Gas group IIB: are painted and the paint layer thickness is > 2mm.
- for category II 2 D / EPL Db: are painted and the paint layer thickness is > 2mm.
- for category II 2 G / EPL Gb Gas group IIC: not conductive individual materials (labels), applied on painted enclosures, have exposed (chargeable area) > 2000mm^2 or, not conductive individual materials (labels), applied on unpainted (conductive earthed surface) enclosures, have exposed (chargeable area) > 8000mm^2.
- for category II 2 G /EPL Gb Gas group IIB: not conductive individual materials (labels), applied on painted enclosures, have exposed (chargeable area) > 10000mm^2 or, not conductive individual materials (labels), applied on unpainted (conductive earthed surface) enclosures, have exposed (chargeable area) > 40000mm^2.

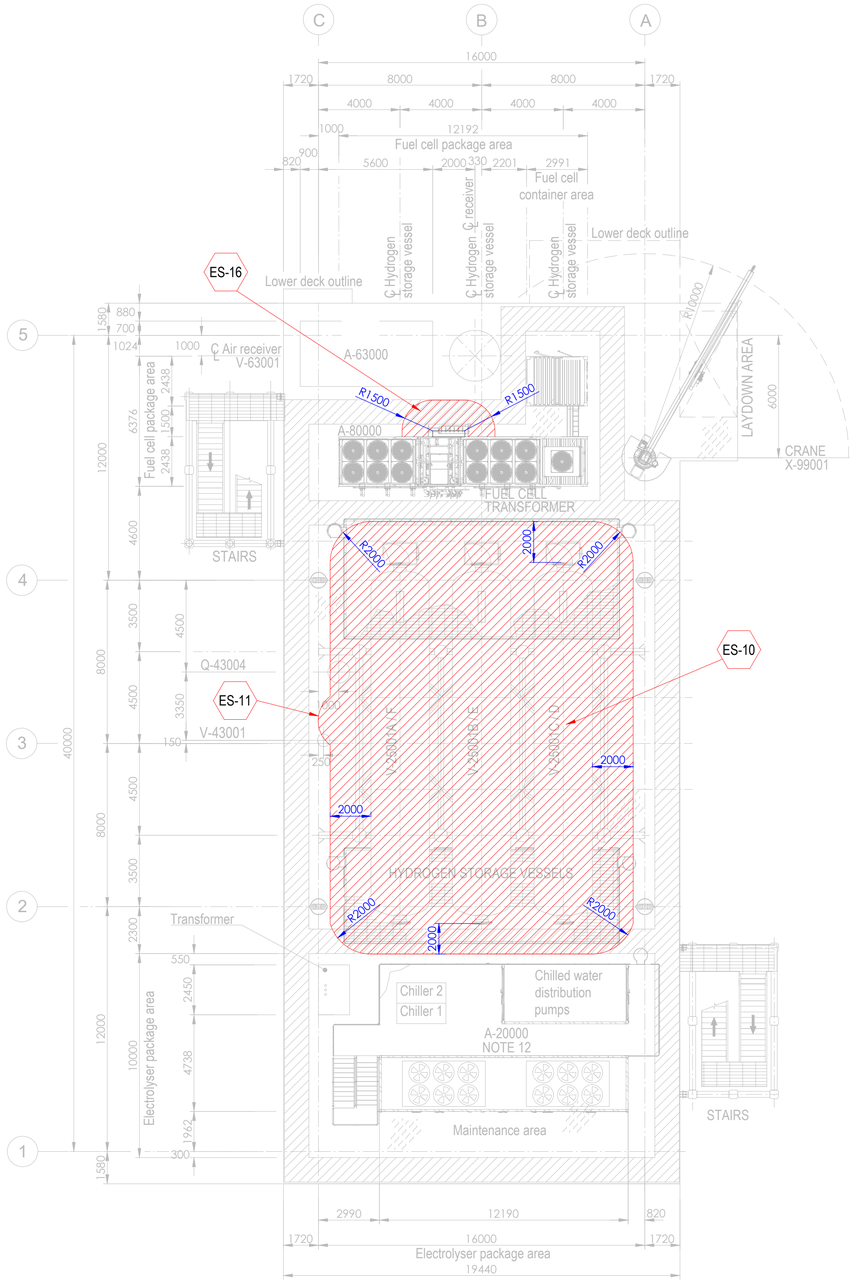
OPEN THE VALVE ONLY WHEN THE APPARATUS IS DE-ENERGIZED AND ONLY WHEN AN EXPLOSIVE DUST ATMOSPHERE IS NOT PRESENT
To be added on Ex tb apparatus equipped with the drain / venting device ECR3.

Other warnings depend on the components actually mounted, according to the component manufacturer's documentation.

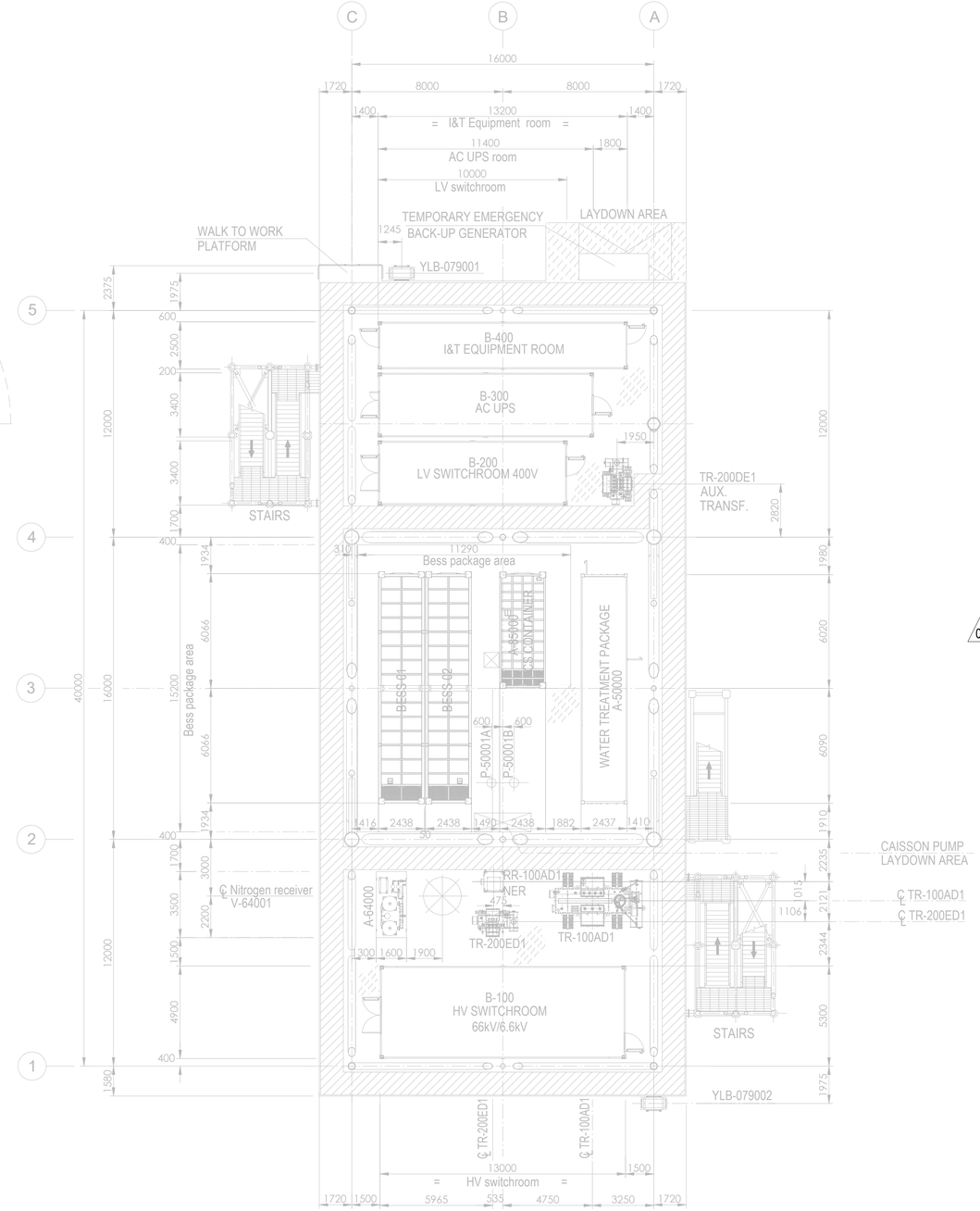
The tables below state the maximum power dissipation values (W) related to the internal temperature (Tint) and ambient temperature (Tamb).

DRAWING NO. 123A90-DDL-SAF-DL-30022

REV. 02



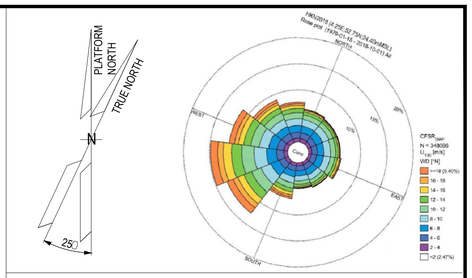
PLAN ON UPPER DECK
EL+30.310 T.O.S.



PLAN ON LOWER DECK
EL+23.310 T.O.S.

Tag No.	Equipment Tag	Description	Material	Ventilation Type
01	P-50001 A/B	SEA WATER LIFT PUMPS	SEA WATER	NATURAL (OPEN AREA)
02	Q-43004	HYDROGEN VENT	HYDROGEN	NATURAL (OPEN AREA)
03	V-43001	HYDROGEN VENT KO DRUM	HYDROGEN	NATURAL (OPEN AREA)
04	V-25001 (A/B/C/D/E/F)	HYDROGEN STORAGE VESSELS	HYDROGEN	NATURAL (OPEN AREA)
05	V-63001	AIR RECEIVER	INSTRUMENT AIR	NATURAL (OPEN AREA)
06	A-20000	ELECTROLYSER PACKAGE		
07	A-63000	INSTRUMENT AIR PACKAGE		
08	A-80000	FUEL CELL PACKAGE		
09	A-85000	BESS PACKAGE		
10	YLB-079001/2	LIFE RAFTS		
11	A-50000	WATER TREATMENT PACKAGE		

Tag No.	Equipment Tag	Description	Material	Ventilation Type
12	A-64000	NITROGEN SYSTEM		
13	B-100	HV SWITCHROOM 66kV/6.6kV		
14	B-200	LV SWITCHROOM 400V		
15	B-300	AC UPS EQUIPMENT ROOM		
16	B-400	I&T EQUIPMENT ROOM		
17	TR-100AD1	TRANSFORMER MAIN 66kV/6.6kV		
18	RR-100AD1-NER	NEUTRAL EARTHING RESISTOR		
19	TR-200DE1	TRANSFORMER AUX. 6.6kV/0.4kV		
20	TR-200ED1	SOLAR TRANSFORMER PV FARM EQUIPMENT		
21	X-99001	CRANE		
22	V-64001	NITROGEN RECEIVER		



NOTES

1. ALL DIMENSIONS IN mm U.N.O.
2. ALL ELEVATIONS IN METERS.
3. PLATFORM NORTH DIRECTION IS N 25°W.
4. VENT TOP SHALL BE REACHEABLE FOR MAINTENANCE PURPOSE.
5. THE BESS IS CONSIDERED SAFE AREA EXCEPT EXTRACTORES FROM BATTERIES , CURRENTLY NOT SHOWN IN DRAWINGS, SINCE INFORMATION FROM VENDOR IS NOT YET AVAILABLE.[ES17].
6. THE LOCATION OF EMISSION SOURCES ON THE LAYOUT ARE ONLY INDICATIVE. EMISSION SOURCES CONSIDERED ARE PRESENT WITHIN THE EXTENSION OF HAZARDOUS CLASSIFIED AREAS SHOWN ON THE LAYOUT. THIS IS BECAUSE VALVES AND FLANGES,WHICH ARE CONSIDERED POTENTIAL SOURCES OF RELEASE POINTS FOR FLAMMABLE GAS ARE NOT SHOWN ON CURRENT LAYOUT PROVIDED. THE SAME APPLIES TO THE EMISSION SOURCES FOR CPI'S ITEM.
7. IDENTIFIED EMISSION SOURCES DETAIL.

02
8. FOR DETAILS RELATED TO ELECTROLYSER PACKAGE INTERNAL ENCLOSURES REFER TO DRAWING 224J10-DDL-PP-DA-00001 REV 0.
9. FOR DETAILS RELATED TO FUELL CELL PACKAGE INTERNAL ENCLOSURES REFER TO DRAWING K559-2254-CWIWP4202202-B01-001 REV 009".
10. THE N.6 HYDROGEN STORAGE VESSELS ARE NOT CLASSIFIED INTERNALLY SINCE THEY ARE DESIGNED TO CONTAIN HYDROGEN OR NITROGEN FOR THE ENTIRE DURATION OF THE 2 YEARS OF OPERATION.

EMISSION SOURCE No.	IDENTIFIED AREAS
ES10	HYDROGEN STORAGE VESSLES
ES11	HYDROGEN VENT KO DRUM
ES16	FUEL CELL

LEGEND

ZONE 0 — ZONE 1

ZONE 2 — ES EMISSION SOURCES

123A90-DDL-PP-DS-70071	PLOT PLAN - BELOW LOWER DECK
123A90-DDL-PP-DS-70072	PLOT PLAN - ELEVATION LOOKING NORTH & EAST

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	15/01/25	MMA	CCA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	27/08/24	MMA	CCA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	08/02/24	MMA	CCA	DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND

ROSETTI MARINO

TITLE :
BASE LOAD POWER HUB (BLPH)
HAZARDOUS AREA CLASSIFICATION
LOWER & UPPER DECK

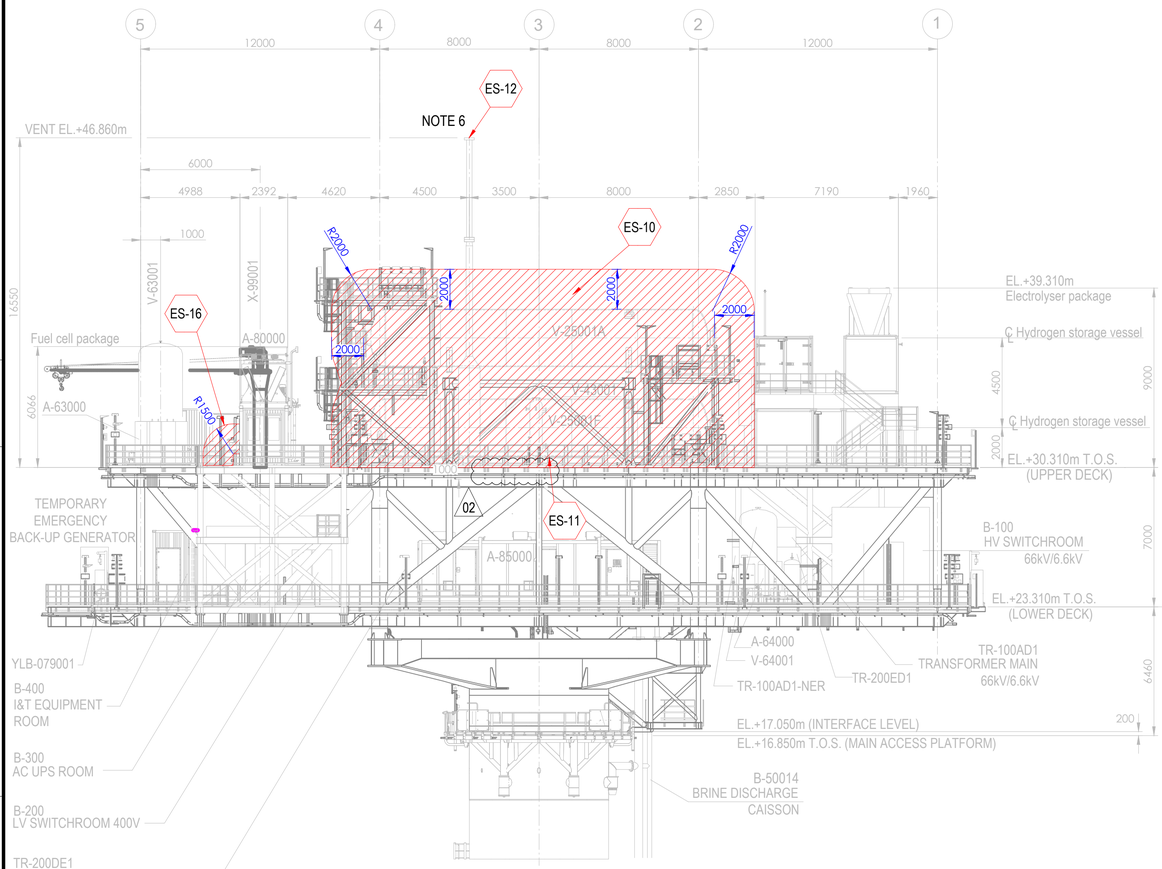
CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK			SCALE 1:150
DRAWN M. MAGNI	CHECKED C. CARACCIOLO	APPROVED D. LO STERZO	DATE 03/07/24

	DRAWING NO.	SHEET	REV.
A1	123A90-DDL-SAF-DL-30022	001	02

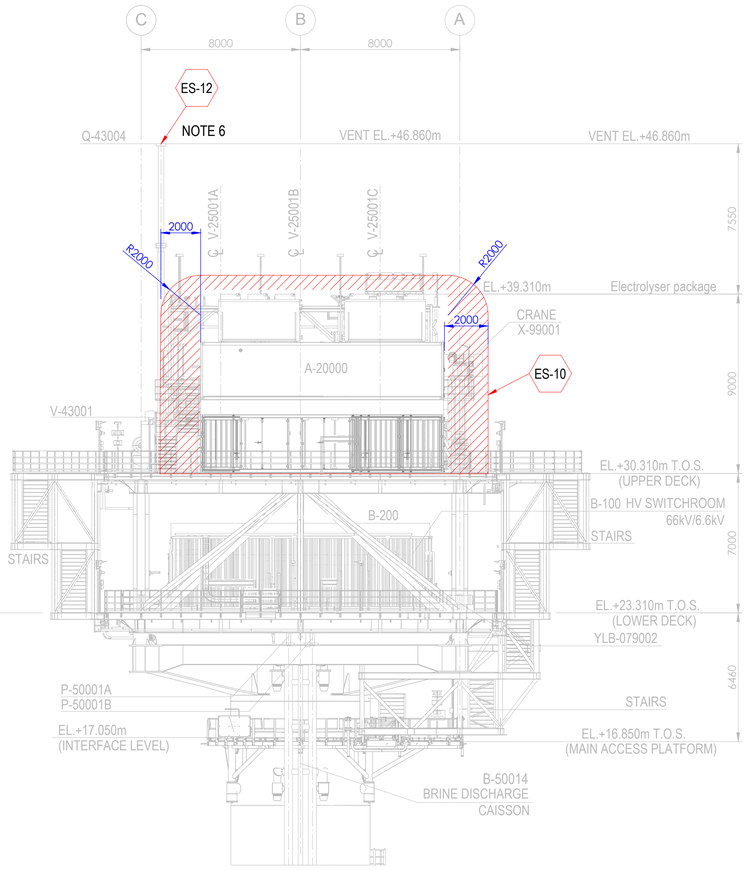
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DRAWING NO. 123A90-DDL-SAF-DL-30024

REV. 02

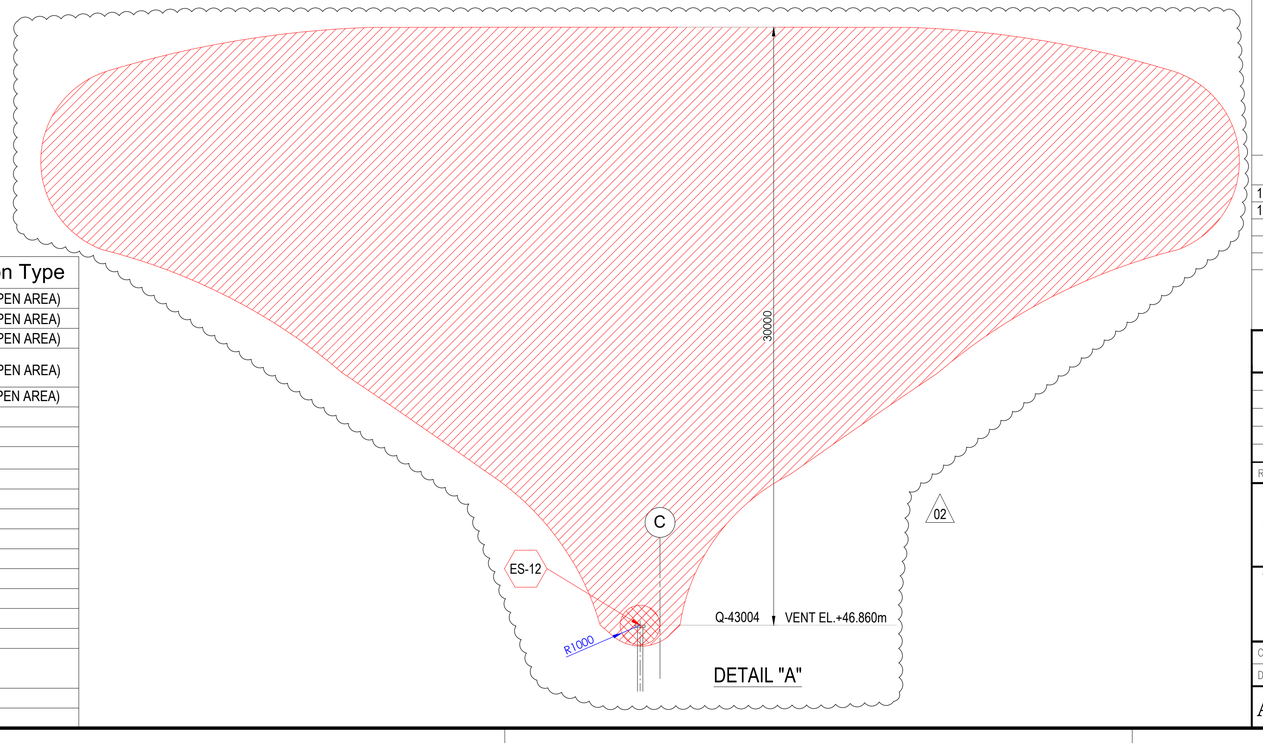


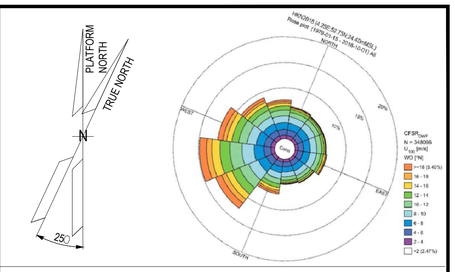
ELEVATION LOOKING EAST



ELEVATION LOOKING NORTH

Tag No.	Equipment Tag	Description	Material	Ventilation Type
01	P-50001 A/B	SEA WATER LIFT PUMPS	SEA WATER	NATURAL (OPEN AREA)
02	Q-43004	HYDROGEN VENT	HYDROGEN	NATURAL (OPEN AREA)
03	V-43001	HYDROGEN VENT KO DRUM	HYDROGEN	NATURAL (OPEN AREA)
04	V-25001 (A/B/C/D/E/F)	HYDROGEN STORAGE VESSELS	HYDROGEN	NATURAL (OPEN AREA)
05	V-63001	INSTRUMENT AIR RECEIVER	INSTRUMENT AIR	NATURAL (OPEN AREA)
06	A-20000	ELECTROLYSER PACKAGE		
07	A-63000	INSTRUMENT AIR PACKAGE		
08	A-80000	FUEL CELL PACKAGE		
09	A-85000	BESS PACKAGE		
10	YLB-079001/2	LIFE RAFTS		
11	B-100	HV SWITCHROOM 66kV/6.6kV		
12	B-200	LV SWITCHROOM 400V		
13	B-300	AC UPS EQUIPMENT ROOM		
14	B-400	I&T EQUIPMENT ROOM		
15	TR-100AD1	TRANSFORMER MAIN 66kV/6.6kV		
16	TR-100AD1-NER	NEUTRAL EARTHING RESISTOR		
17	TR-200DE1	TRANSFORMER AUX. 6.6kV/0.4kV		
18	TR-200ED1	SOLAR TRANSFORMER PV FARM EQUIPMENT		
19	X-99001	CRANE		
20	V-64001	NITROGEN RECEIVER		





NOTES

1. ALL DIMENSIONS IN mm U.N.O
2. ALL ELEVATIONS IN METERS.
3. PLATFORM NORTH DIRECTION IS N 25°W.
4. VENT TOP SHALL BE REACHEABLE FOR MAINTENANCE PURPOSE.
5. THE BESS IS CONSIDERED SAFE AREA EXCEPT EXTRACTORES FROM BATTERIES , CURRENTLY NOT SHOWN IN DRAWINGS, SINCE INFORMATION FROM VENDOR IS NOT YET AVAILABLE.[ES17]
6. FOR ES12 PLUME, PLEASE REFER TO THE DETAIL "A" BELOW. (02)
7. THE LOCATION OF EMISSION SOURCES ON THE LAYOUT ARE ONLY INDICATIVE. EMISSION SOURCES CONSIDERED ARE PRESENT WITHIN THE EXTENSION OF HAZARDOUS CLASSIFIED AREAS SHOWN ON THE LAYOUT. THIS IS BECAUSE VALVES AND FLANGES,WHICH ARE CONSIDERED POTENTIAL SOURCES OF RELEASE POINTS FOR FLAMMABLE GAS ARE NOT SHOWN ON CURRENT LAYOUT PROVIDED. THE SAME APPLIES TO THE EMISSION SOURCES FOR CPI'S ITEM.
8. IDENTIFIED EMISSION SOURCES DETAIL

EMISSION SOURCE No.	IDENTIFIED AREAS
ES10	HYDROGEN STORAGE VESSLES
ES11	HYDROGEN VENT KO DRUM
ES12	HYDROGEN VENT
ES16	FUEL CELL

LEGEND

ZONE 0 — ZONE 1

ZONE 2 — ES EMISSION SOURCES

REFERENCE DOCUMENTS

123A90-DDL-PP-DS-70070	PLOT PLAN - LOWER & UPPER DECK
123A90-DDL-PP-DS-70071	PLOT PLAN - BELOW LOWER DECK

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	15/01/24	MMA	CCA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	27/08/24	MMA	CCA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	08/02/24	MMA	CCA	DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND

ROSETTI MARINO

TITLE :
BASE LOAD POWER HUB (BLPH)
HAZARDOUS AREA CLASSIFICATION
ELEVATION LOOKING NORTH & EAST

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK			SCALE 1:150
DRAWN M. MAGNI	CHECKED C. CARACCIOLO	APPROVED D. LO STERZO	DATE 03/07/24

A1 | DRAWING NO. 123A90-DDL-SAF-DL-30024 | SHEET 001 | REV. 02

File Name : 123A90-DDL-SAF-DL-30024 Rev.02

ITEM	Tag	EJB-200N1-02-L1-11 : JB - NORMAL LIGHTING		Dwg	123A90-DDL-EL-DL-20118
	S/Sys	83-40 : Normal Lighting Upper Deck		Module	UD
TASK	code	C10001631	Location: Onshore Activities	User	Rosetti Marino Quality Control
FORM	Process	MC	Activity: CCK / Discipline: ATEX / Form: CJX01		Hazardous Area Equipment Detailed Inspection

Schedule Ref. #				**Area Code**					
Area Class Drawing	123A90-DDL-SAF-DL-30022			**Serial No.**		24P00297990030			
Manufacturer	TECHNOR ITALSMEA			**Model**		AQ-252612P			
Cert No.	FIDI 21 ATEX 0090X-FIDI 21 0015 X			**Equipment Ambient Temp.**		-20 to + 40 °C			
Area Classification	Hazardous	**Zone**	2	**Gas group**	II C	**Temp class**	T1		
Equipment Protection Type	Ex eb	**EPL**	Gb	**Gas group**	II C	**Temp class**	T6	**IP Rating**	IP66

Detailed Note:

1) Inspection shall only be performed by competent personnel

2) All fields are to be completed. Any non-applicable field shall state “NA”. Comments are required for ‘Failure’ column ONLY.

3) An Inspection Sheet should be completed for EACH individual item of Equipment.

	General Equipment	Detailed	OK/NA/PL	Comments
1	Equipment is appropriate to the EPL / Zone requirements of the area	x	OK	
2	Equipment group is correct	x	OK	
3	Equipment temperature class is correct	x	OK	
4	Degree of IP protection of equipment is appropriate for the level of protection	x	OK	
5	Equipment circuit identification is correct	x	OK	
6	Equipment circuit identification is available	x	OK	
7	Enclosure glass parts and glass-to-metal sealing gaskets and / or compounds are satisfactory	x	NA	
8	There is no damage or unauthorized modifications	x	OK	
9	There is no evidence of unauthorized modifications	x	OK	
10	Bolts, cable entry devices (direct and indirect) & blanking elements are of the correct type, are complete & tight		OK	
	Physical check	x	OK	
11	Threaded covers on enclosures are of the correct type, are tight and secured		NA	
	Physical check	x	NA	
12	Joint surfaces are clean and undamaged and gaskets, if any, are satisfactory and positioned correctly	x	OK	
13	Condition of enclosure gaskets is satisfactory	x	OK	
14	There is no evidence or ingress of water or dust in the enclosure in accordance with the IP rating	x	OK	
15	Electrical connections are tight	x	OK	
16	Bridging links do not reduce creepage / clearance and are allowed	x	OK	
17	Unused terminals are tightened	x	OK	
18	Encapsulated components are undamaged	x	NA	
19	Flameproof components are undamaged	x	NA	
20	Fluorescent lamps are not indicating EOL effects (only for Ex “e” – Ex “n” – Ex “t”)	x	NA	
21	HID lamps are not indicating EOL effects	x	NA	
22	Lamp type, rating, pin configuration and position are correct	x	NA	
23	Breathing and drainage devices are satisfactory	x	PL	
24	Type of cable is appropriate	x	OK	
25	There is no obvious damage to the cables	x	OK	
26	Cable glands are the correct type and installed correctly	x	Note	See PL C30002208
27	Sealing of trunking, ducts, pipes and or conduits is satisfactory	x	NA	
28	Stopping boxes and cable boxes are corrected filled	x	OK	

ITEM	Tag	EJB-200N1-02-L1-11	: JB - NORMAL LIGHTING			Dwg	123A90-DDL-EL-DL-20118
	S/Sys	83-40	: Normal Lighting Upper Deck			Module	UD
TASK	code	C10001631		Location	Onshore Activities	User	Rosetti Marino Quality Control
FORM	Process	MC	Activity CCK	Discipline	ATEX	Form	CJX01 Hazardous Area Equipment Detailed Inspection

29	Integrity of conduit system and interface with mixed system maintained	x	NA	
30	Earthing connections, including any supplementary earthing bonding connections are satisfactory (for example connections are tight and conductors are of sufficient cross-section		OK	
	Physical check	x	OK	
31	Automated electric protective devices operate within permitted limits	x	NA	
32	Special conditions (if applicable) have been complied with.	x	OK	
33	All cable cores are uniquely labeled	x	Note	See PL C30001496, C30001499 & C30002207
34	Cable cores not in use are correctly terminated	x	OK	See PL C30001496, C30001499 & C30002207
35	Equipment is adequately protected against corrosion, weather, vibration and other adverse factors	x	OK	
36	No undue accumulation of dust and dirt	x	OK	
37	All equipment housings are clean and dry	x	OK	
38	All moving parts are free and have no mechanical damage	x	OK	
	Applicable for Installation of Heating Systems			
39	Temperature sensors function according to manufacturer's documents (only applicable for Ex-d e Ex-e)	x	NA	
40	Safety cut off devices function according to manufacturer's documents (only applicable for Ex-d e Ex-e)	x	NA	
41	The setting of the safety cut off is sealed (only applicable for Ex-d e Ex-e)	x	NA	
42	Reset of a heating system safety cut off possible with tool only(only applicable for Ex-d e Ex-e)	x	NA	
43	Auto-reset is not possible (only applicable for Ex-d e Ex-e)	x	NA	
44	Reset of a safety cut off under fault conditions is prevented (only applicable for Ex-d e Ex-e)	x	NA	
45	Safety cut off independent from control system (only applicable for Ex-d e Ex-e)	x	NA	
46	Level switch is installed and correctly set, if required (only applicable for Ex-d e Ex-e)	x	NA	
47	Flow switch is installed and correctly set, if required (only applicable for Ex-d e Ex-e)	x	NA	
	Extra Ex d checks			
48	Obstructions adjacent to flame proof flanged joints are in accordance with IEC 60079-14	x	NA	
49	Ex d conduits seals are fitted to all conduits and satisfactorily sealed	x	NA	
50	Cable glands are of the correct type and installed correctly	x	NA	
51	Adaptors, reducers, stop ends, etc. are all certified Ex d	x	NA	
52	Flame path are clean and undamaged	x	NA	
53	Flange gap dimensions are within tolerances	x	NA	
54	Motor fans have sufficient clearance to the enclosure and/or covers, cooling systems are undamaged, motor foundations have no indentations or cracks	x	NA	
55	The ventilation airflow is not impeded	x	NA	
56	Insulation resistance (IR) of the motor windings is satisfactory	x	NA	
57	Fault loop impedance (TN systems) or earthing resistance (IT systems) is satisfactory	x	NA	
58	Variable voltage/frequency installation complies with documentation	x	NA	
	Extra Ex e checks			
59	All Equipment is Ex e certified (including components within enclosure)	x	PL	
60	Power conductors are not bunched together causing possible hot spots	x	OK	
61	Motor fans have sufficient clearance to the enclosure and/or covers, cooling systems are undamaged, motor foundations have no indentations or cracks	x	NA	
62	Insulation resistance (IR) of the motor windings is satisfactory	x	NA	
63	Fault loop impedance (TN systems) or earthing resistance (IT systems) is satisfactory	x	NA	
64	The ventilation airflow is not impeded	x	NA	
65	Motor protection devices operate within the permitted tE or tA time limits.	x	NA	
66	Variable voltage/frequency installation complies with documentation	x	NA	

ROSETTI MARINO PROVERLIS CROSSWIND

ITEM	Tag	EJB-200N1-02-L1-11	: JB - NORMAL LIGHTING		Dwg	123A90-DDL-EL-DL-20118	
	S/Sys	83-40	: Normal Lighting Upper Deck		Module	UD	
TASK	code	C10001631	Location	Onshore Activities	User	Rosetti Marino Quality Control	
FORM	Process	MC	Activity CCK	Discipline ATEX	Form	CJX01	Hazardous Area Equipment Detailed Inspection

Extra Ex n (nR, nL) checks				
67	All Terminals are Ex n certified (if required on certificate)	x	NA	
68	Hermetically sealed and enclosed break devices are undamaged	x	NA	
69	Restricted breathing properties satisfactory (conduct vacuum test)	x	NA	
70	Test port, if fitted, is functional (type “nR” only)	x	NA	
71	Breathing operation is satisfactory (type “nR” only)	x	NA	
72	Motor fans have sufficient clearance to the enclosure and/or covers, cooling systems are	x	NA	
73	The ventilation airflow is not impeded	x	NA	
74	Insulation resistance (IR) of the motor windings is satisfactory	x	NA	
75	Motor protection devices operate within the permitted tE or tA time limits.	x	NA	
76	Variable voltage/frequency installation complies with documentation	x	NA	
Extra Ex p checks				
77	Pressurization gas is correct type	x	NA	
78	Actual pressure is within maximum and minimum settings for equipment	x	NA	
79	Timers set as per certification documentation	x	NA	
80	Alarms and trip functions operate correctly as per certification documentation	x	NA	
81	Fault loop impedance (TN systems) or earthing resistance (IT systems) is satisfactory	x	NA	
82	Automatic electrical protective devices operate within permitted limits	x	NA	
83	Automatic electrical protective devices are set correctly	x	NA	
84	Protective gas inlet temperature is below maximum specified	x	NA	
85	Ducts, pipes and enclosures are in good condition	x	NA	
86	Protective gas is substantially free from contaminants	x	NA	
87	Protective gas pressure and/or flow is adequate	x	NA	
88	Pressure and/or flow indicators, alarms and interlocks function correctly	x	NA	
89	Conditions of spark and particle barriers of ducts for exhausting the gas in hazardous area are satisfactory	x	NA	
90	Specific conditions of use (if applicable) are complied with		NA	
Extra Ex i (Intrinsically Safe – IS) checks				
91	Equipment has adequate circuit identification for ‘IS’ Installation	x	NA	
92	Cables are installed in accordance with the documentation	x	NA	
93	Segregation is maintained between IS and non-IS Circuits	x	NA	
94	Cable screens are isolated at one end (field side)	x	NA	
95	Cable screens are earthed in accordance with the documentation	x	NA	
96	Safety barrier units, relays and other energy limiting devices are of the approved type, installed in	x	NA	
97	Equipment installed is the one specified in the documentation	x	NA	
98	Ambient temperature range of the apparatus is correct for the installation	x	NA	
99	Service temperature range of the apparatus is correct for the installation	x	NA	
100	Installation is clearly labelled	x	NA	
101	Printed circuit boards are clean and undamaged	x	NA	
102	The maximum voltage Um of the associated apparatus is not exceeded	x	NA	
103	Point-to-point connections are all correct	x	NA	
104	Earth continuity is satisfactory (e.g. connections are tight, conductors are of sufficient cross-section)	x	NA	
105	Earth connections maintain the integrity of the type of protection	x	NA	
106	Intrinsically safe circuit earthing is satisfactory	x	NA	
107	Insulation resistance is satisfactory	x	NA	
108	Short-circuit protection of the power supply is in accordance with the documentation	x		

	BARRIER:	**Manufacturer:**	NA	**Model:**	NA		
		Authority:	NA	**Cert No:**	NA	**Type:**	NA

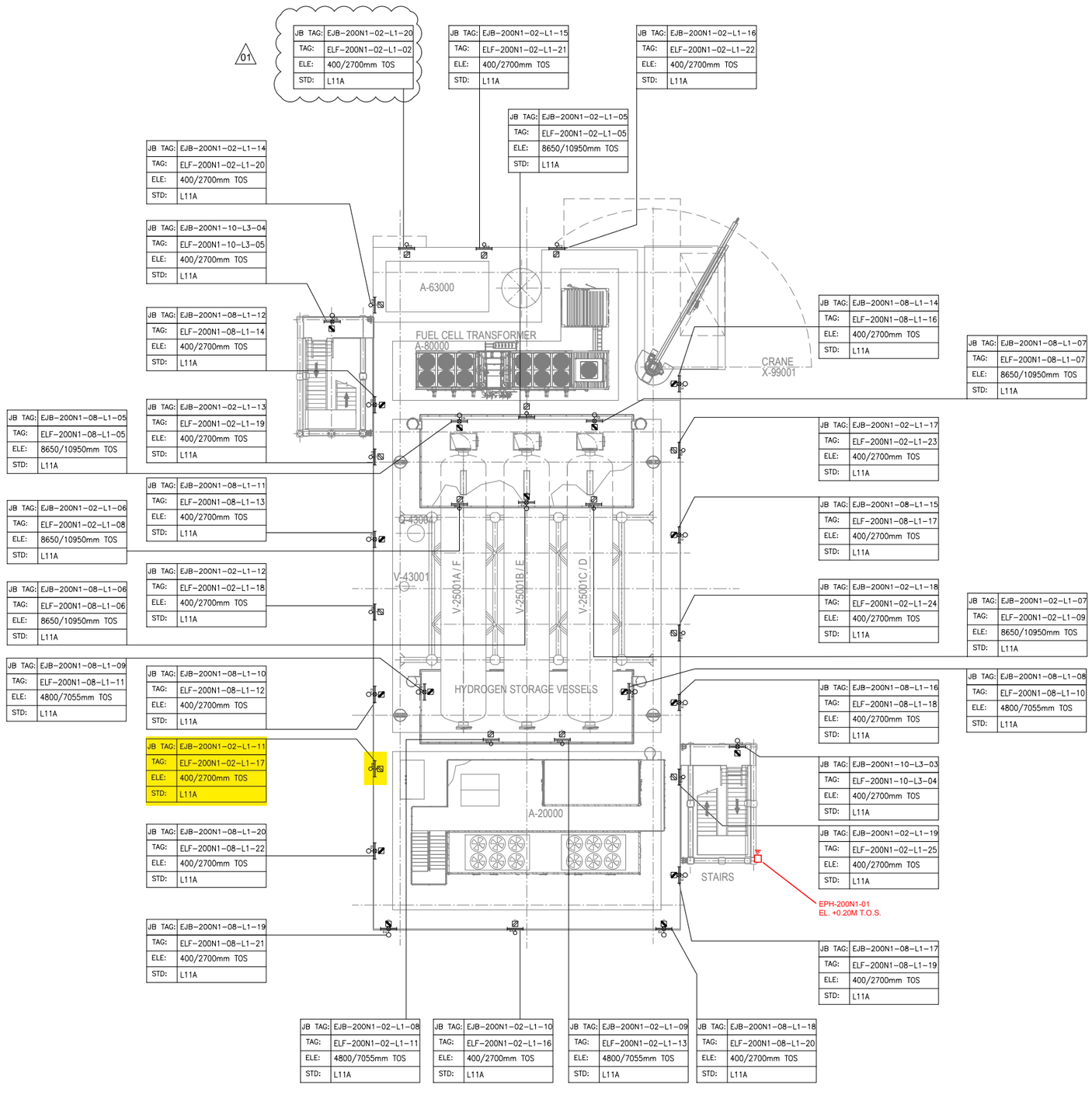
Remarks: Initial inspection should be detailed and carried out before equipment is brought into service as per IEC 60079-17

Please mark only one box as appropriate	
●	**Passed - Complete**
	Failed

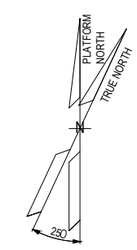
Page 3/3	Performed by	☐ WITNESS ☐ REVIEW	☐ WITNESS ☐ REVIEW
Company	ICS IMPIANTI	RM(ROSETTI MARINO)	
Name	Francesco Zucca	Luca Mussi	
Date	2024-12-28	2024-12-31	
Signature	PROVERLIS Digitaly signed by Francesco Zucca 2024-12-28T07:33:53.622Z	PROVERLIS Digitaly signed by Luca Mussi 2024-12-31T13:32:24.855Z	

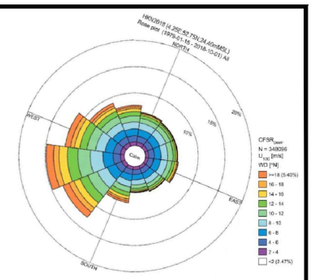
DRAWING NO. 123A90-DDL-EL-DL-20118

REV. 01



PLAN ON UPPER DECK
EL+30.310 T.O.S.





NOTES

1. ALL DIMENSIONS AND ELEVATIONS ARE GIVEN IN mm UNLESS OTHERWISE NOTED.
2. ELEVATIONS REFER TO T.O.S.
3. ELEVATION OF THE LAMPS ARE REFFERED TO THE BOTTOM OF THE LAMP.
4. FOR THE ELEVATION OF JB, REFER TO THE TYPICAL INSTALLATION.

LEGEND

- EMERGENCY LIGHTING JB
- 60W LED EMERGENCY LUMINARIES
- 60W LED EMERGENCY LUMINARIES FIXTURE POLE MOUNTED
- NORMAL LIGHTING JB
- 45W LED NORMAL LUMINARIES
- 45W LED NORMAL LUMINARIES FIXTURE POLE MOUNTED
- WELDING SOCKET WITH INTEGRATED JB
- SMALL POWER SOCKET WITH INTEGRATED JB
- TWILIGHT RELAY SENSOR

JB TAG:	JB-TAG
TAG:	TAG
ELE:	ELEVATION
STD:	STANDARD

VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DL-20118**

REV.:	DATE:	SIGNATURE:
1_B	22/10/24	G.Randi

ROSETTI MARINO SpA

REFERENCE DOCUMENTS

123A90-DDL-PP-DL-70070	PLOT PLAN - LOWER & UPPER DECK
123A90-DDL-EL-DL-20100	ELECTRICAL EQUIPMENT LAYOUT - TOP DECK
123A90-DDL-EL-DD-20091	ELECTRICAL TYPICAL INSTALLATION DETAILS - LIGHTING SYSTEM
123A90-DDL-EL-DD-20092	ELECTRICAL TYPICAL INSTALLATION DETAILS - POWER SYSTEM & CABLE INSTALLATION
123A90-DDL-EL-RE-20153	LIGHTING CALCULATION STUDY REPORT

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	02/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	28/05/24	ASR	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND | ROSETTI MARINO

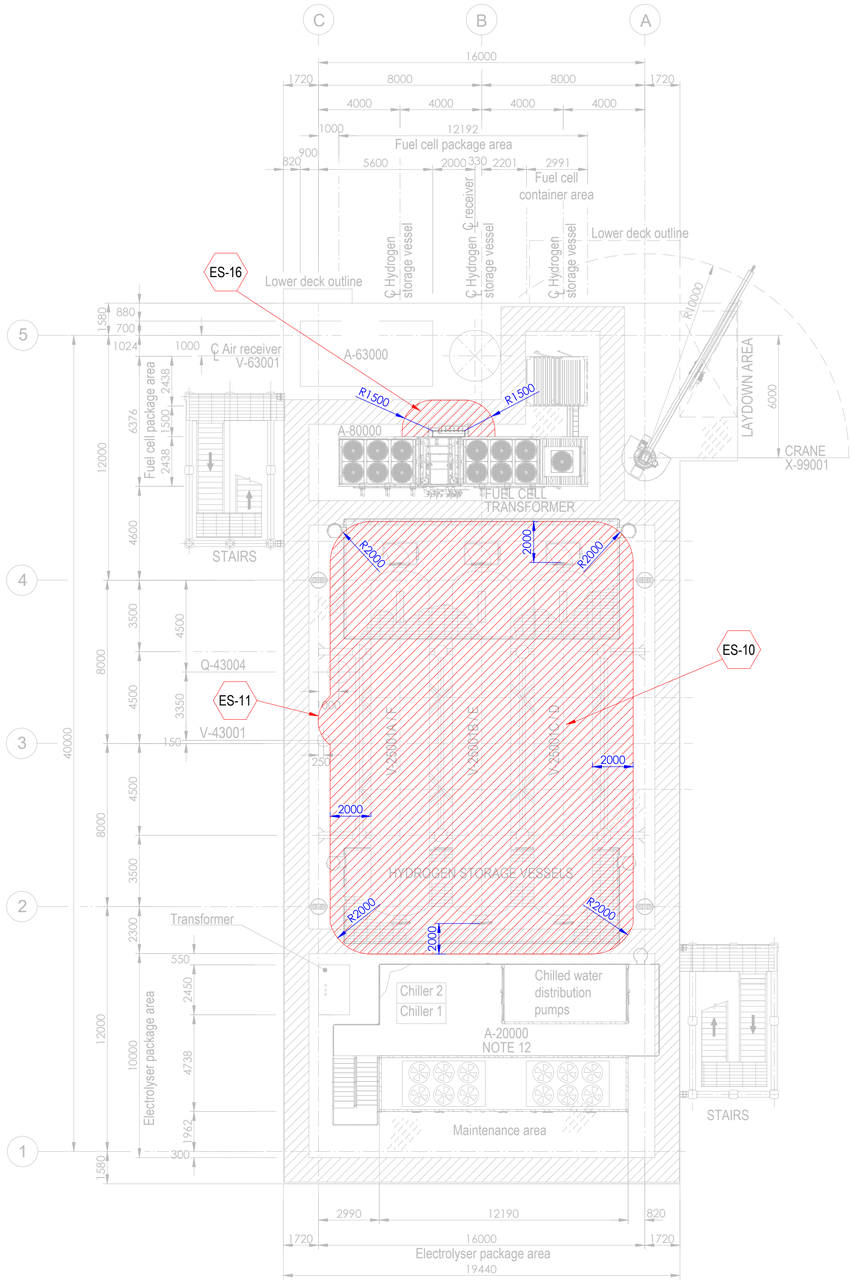
TITLE : BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET LAYOUT – TOP DECK

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK			SCALE 1:150
DRAWN ASR	CHECKED FMA/AMA	APPROVED FPA/DLO	DATE 01/08/24
A1	DRAWING NO. 123A90-DDL-EL-DL-20118	SHEET 1of2	REV. 01

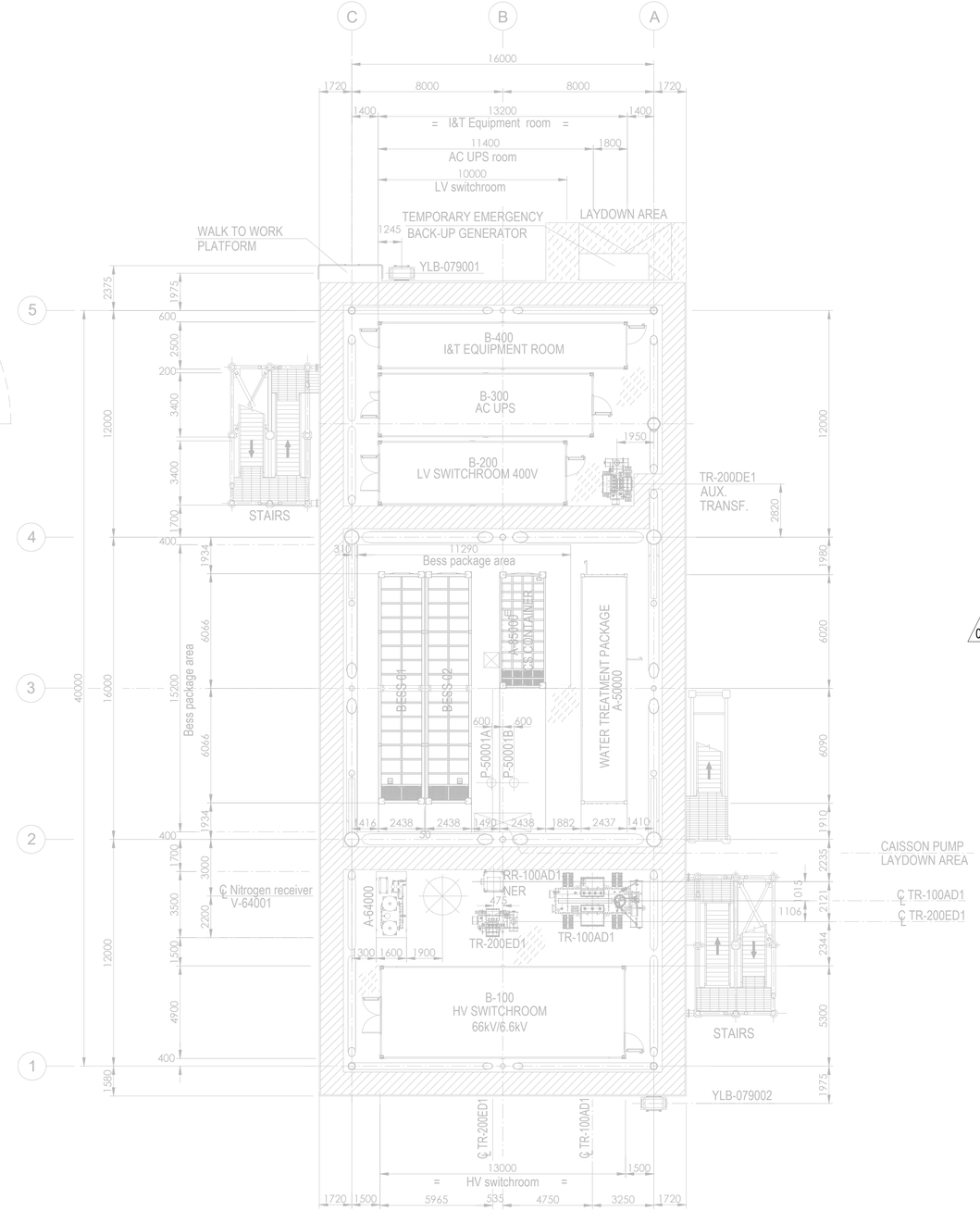
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DRAWING NO. 123A90-DDL-SAF-DL-30022

REV. 02



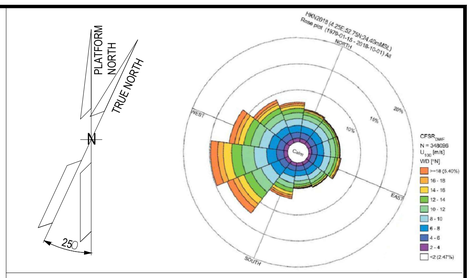
PLAN ON UPPER DECK
EL+30.310 T.O.S.



PLAN ON LOWER DECK
EL+23.310 T.O.S.

Tag No.	Equipment Tag	Description	Material	Ventilation Type
01	P-50001 A/B	SEA WATER LIFT PUMPS	SEA WATER	NATURAL (OPEN AREA)
02	Q-43004	HYDROGEN VENT	HYDROGEN	NATURAL (OPEN AREA)
03	V-43001	HYDROGEN VENT KO DRUM	HYDROGEN	NATURAL (OPEN AREA)
04	V-25001 (A/B/C/D/E/F)	HYDROGEN STORAGE VESSELS	HYDROGEN	NATURAL (OPEN AREA)
05	V-63001	AIR RECEIVER	INSTRUMENT AIR	NATURAL (OPEN AREA)
06	A-20000	ELECTROLYSER PACKAGE		
07	A-63000	INSTRUMENT AIR PACKAGE		
08	A-80000	FUEL CELL PACKAGE		
09	A-85000	BESS PACKAGE		
10	YLB-079001/2	LIFE RAFTS		
11	A-50000	WATER TREATMENT PACKAGE		

Tag No.	Equipment Tag	Description	Material	Ventilation Type
12	A-64000	NITROGEN SYSTEM		
13	B-100	HV SWITCHROOM 66kV/6.6kV		
14	B-200	LV SWITCHROOM 400V		
15	B-300	AC UPS EQUIPMENT ROOM		
16	B-400	I&T EQUIPMENT ROOM		
17	TR-100AD1	TRANSFORMER MAIN 66kV/6.6kV		
18	RR-100AD1-NER	NEUTRAL EARTHING RESISTOR		
19	TR-200DE1	TRANSFORMER AUX. 6.6kV/0.4kV		
20	TR-200ED1	SOLAR TRANSFORMER PV FARM EQUIPMENT		
21	X-99001	CRANE		
22	V-64001	NITROGEN RECEIVER		



NOTES

1. ALL DIMENSIONS IN mm U.N.O.
2. ALL ELEVATIONS IN METERS.
3. PLATFORM NORTH DIRECTION IS N 25°W.
4. VENT TOP SHALL BE REACHEABLE FOR MAINTENANCE PURPOSE.
5. THE BESS IS CONSIDERED SAFE AREA EXCEPT EXTRACTORES FROM BATTERIES , CURRENTLY NOT SHOWN IN DRAWINGS, SINCE INFORMATION FROM VENDOR IS NOT YET AVAILABLE.[ES17].
6. THE LOCATION OF EMISSION SOURCES ON THE LAYOUT ARE ONLY INDICATIVE. EMISSION SOURCES CONSIDERED ARE PRESENT WITHIN THE EXTENSION OF HAZARDOUS CLASSIFIED AREAS SHOWN ON THE LAYOUT. THIS IS BECAUSE VALVES AND FLANGES,WHICH ARE CONSIDERED POTENTIAL SOURCES OF RELEASE POINTS FOR FLAMMABLE GAS ARE NOT SHOWN ON CURRENT LAYOUT PROVIDED. THE SAME APPLIES TO THE EMISSION SOURCES FOR CPI'S ITEM.
7. IDENTIFIED EMISSION SOURCES DETAIL.

02
8. FOR DETAILS RELATED TO ELECTROLYSER PACKAGE INTERNAL ENCLOSURES REFER TO DRAWING 224J10-DDL-PP-DA-00001 REV 0.
9. FOR DETAILS RELATED TO FUELL CELL PACKAGE INTERNAL ENCLOSURES REFER TO DRAWING K559-2254-CWIWP4202202-B01-001 REV 009".
10. THE N.6 HYDROGEN STORAGE VESSELS ARE NOT CLASSIFIED INTERNALLY SINCE THEY ARE DESIGNED TO CONTAIN HYDROGEN OR NITROGEN FOR THE ENTIRE DURATION OF THE 2 YEARS OF OPERATION.

EMISSION SOURCE No.	IDENTIFIED AREAS
ES10	HYDROGEN STORAGE VESSLES
ES11	HYDROGEN VENT KO DRUM
ES16	FUEL CELL

LEGEND

ZONE 0 — ZONE 1

ZONE 2 — ES EMISSION SOURCES

123A90-DDL-PP-DS-70071	PLOT PLAN - BELOW LOWER DECK
123A90-DDL-PP-DS-70072	PLOT PLAN - ELEVATION LOOKING NORTH & EAST

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	15/01/25	MMA	CCA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	27/08/24	MMA	CCA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	08/02/24	MMA	CCA	DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND

ROSETTI MARINO

TITLE :
BASE LOAD POWER HUB (BLPH)
HAZARDOUS AREA CLASSIFICATION
LOWER & UPPER DECK

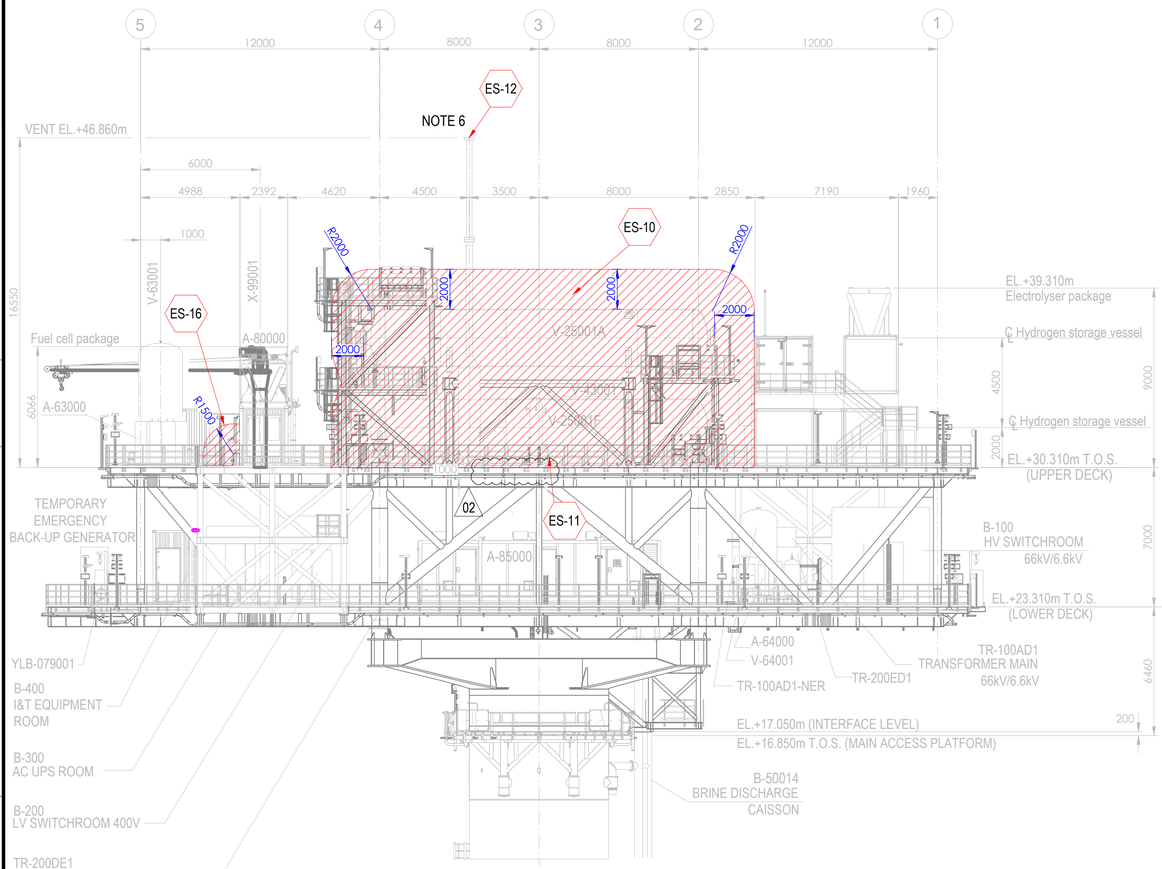
CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK			SCALE 1:150
DRAWN M. MAGNI	CHECKED C. CARACCIOLO	APPROVED D. LO STERZO	DATE 03/07/24

	DRAWING NO.	SHEET	REV.
A1	123A90-DDL-SAF-DL-30022	001	02

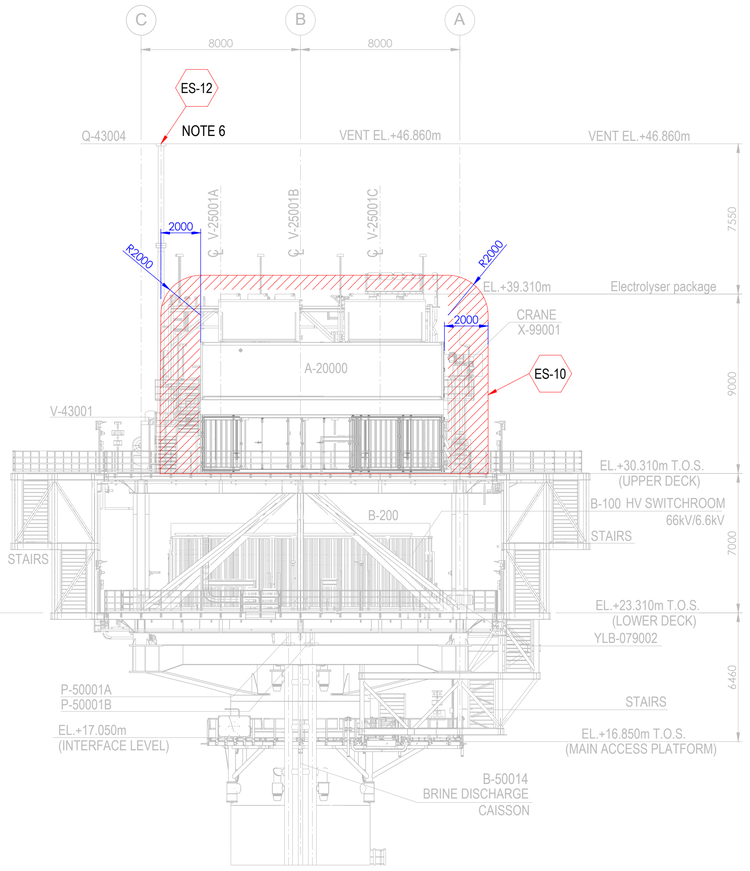
File Name : 123A90-DDL-SAF-DL-30022 Rev.02

DRAWING NO. 123A90-DDL-SAF-DL-30024

REV. 02

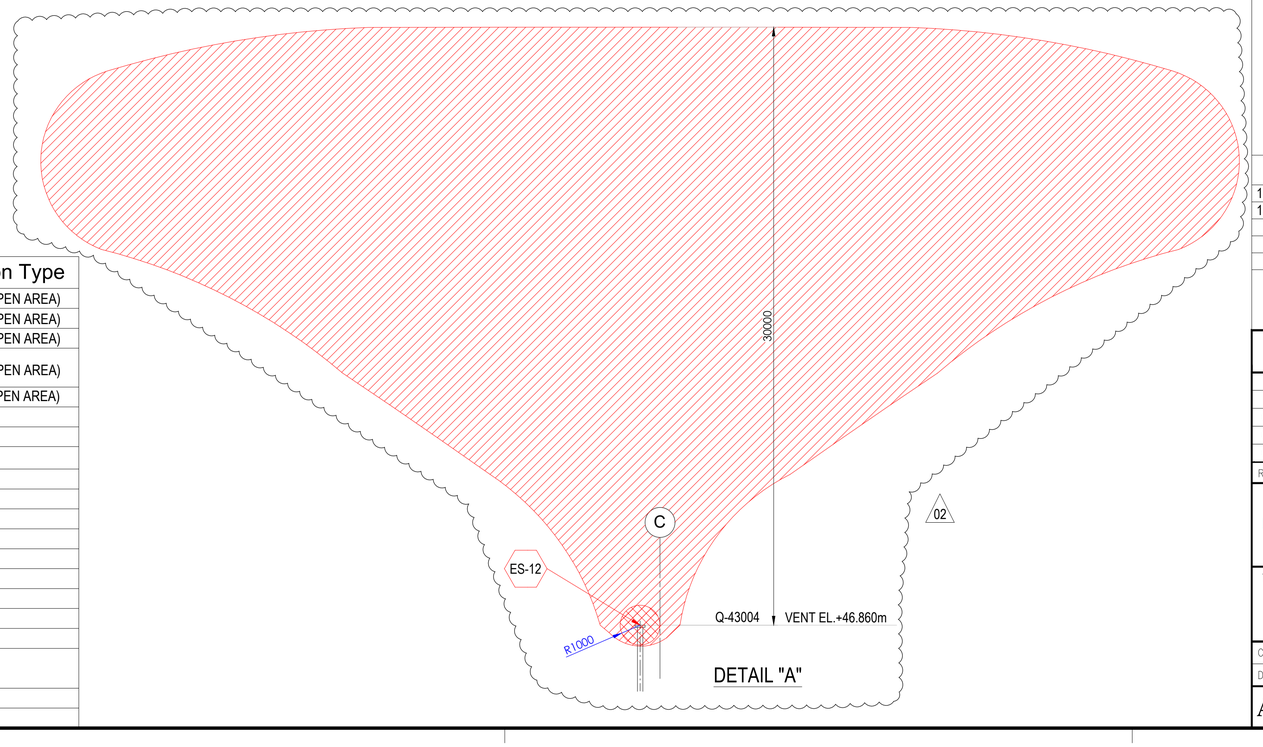


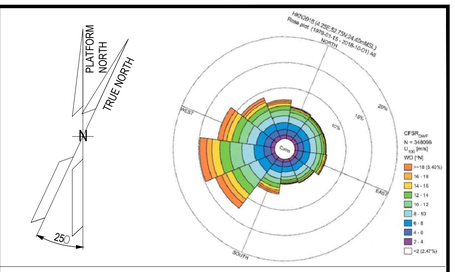
ELEVATION LOOKING EAST



ELEVATION LOOKING NORTH

Tag No.	Equipment Tag	Description	Material	Ventilation Type
01	P-50001 A/B	SEA WATER LIFT PUMPS	SEA WATER	NATURAL (OPEN AREA)
02	Q-43004	HYDROGEN VENT	HYDROGEN	NATURAL (OPEN AREA)
03	V-43001	HYDROGEN VENT KO DRUM	HYDROGEN	NATURAL (OPEN AREA)
04	V-25001 (A/B/C/D/E/F)	HYDROGEN STORAGE VESSELS	HYDROGEN	NATURAL (OPEN AREA)
05	V-63001	INSTRUMENT AIR RECEIVER	INSTRUMENT AIR	NATURAL (OPEN AREA)
06	A-20000	ELECTROLYSER PACKAGE		
07	A-63000	INSTRUMENT AIR PACKAGE		
08	A-80000	FUEL CELL PACKAGE		
09	A-85000	BESS PACKAGE		
10	YLB-079001/2	LIFE RAFTS		
11	B-100	HV SWITCHROOM 66kV/6.6kV		
12	B-200	LV SWITCHROOM 400V		
13	B-300	AC UPS EQUIPMENT ROOM		
14	B-400	I&T EQUIPMENT ROOM		
15	TR-100AD1	TRANSFORMER MAIN 66kV/6.6kV		
16	TR-100AD1-NER	NEUTRAL EARTHING RESISTOR		
17	TR-200DE1	TRANSFORMER AUX. 6.6kV/0.4kV		
18	TR-200ED1	SOLAR TRANSFORMER PV FARM EQUIPMENT		
19	X-99001	CRANE		
20	V-64001	NITROGEN RECEIVER		





NOTES

1. ALL DIMENSIONS IN mm U.N.O
2. ALL ELEVATIONS IN METERS.
3. PLATFORM NORTH DIRECTION IS N 25°W.
4. VENT TOP SHALL BE REACHEABLE FOR MAINTENANCE PURPOSE.
5. THE BESS IS CONSIDERED SAFE AREA EXCEPT EXTRACTORES FROM BATTERIES , CURRENTLY NOT SHOWN IN DRAWINGS, SINCE INFORMATION FROM VENDOR IS NOT YET AVAILABLE.[ES17]
6. FOR ES12 PLUME, PLEASE REFER TO THE DETAIL "A" BELOW. (02)
7. THE LOCATION OF EMISSION SOURCES ON THE LAYOUT ARE ONLY INDICATIVE. EMISSION SOURCES CONSIDERED ARE PRESENT WITHIN THE EXTENSION OF HAZARDOUS CLASSIFIED AREAS SHOWN ON THE LAYOUT. THIS IS BECAUSE VALVES AND FLANGES,WHICH ARE CONSIDERED POTENTIAL SOURCES OF RELEASE POINTS FOR FLAMMABLE GAS ARE NOT SHOWN ON CURRENT LAYOUT PROVIDED. THE SAME APPLIES TO THE EMISSION SOURCES FOR CPI'S ITEM.
8. IDENTIFIED EMISSION SOURCES DETAIL

EMISSION SOURCE No.	IDENTIFIED AREAS
ES10	HYDROGEN STORAGE VESSLES
ES11	HYDROGEN VENT KO DRUM
ES12	HYDROGEN VENT
ES16	FUEL CELL

LEGEND

ZONE 0 — ZONE 1

ZONE 2 — ES EMISSION SOURCES

REFERENCE DOCUMENTS

123A90-DDL-PP-DS-70070	PLOT PLAN - LOWER & UPPER DECK
123A90-DDL-PP-DS-70071	PLOT PLAN - BELOW LOWER DECK

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	15/01/24	MMA	CCA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	27/08/24	MMA	CCA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	08/02/24	MMA	CCA	DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND

ROSETTI MARINO

TITLE :
BASE LOAD POWER HUB (BLPH)
HAZARDOUS AREA CLASSIFICATION
ELEVATION LOOKING NORTH & EAST

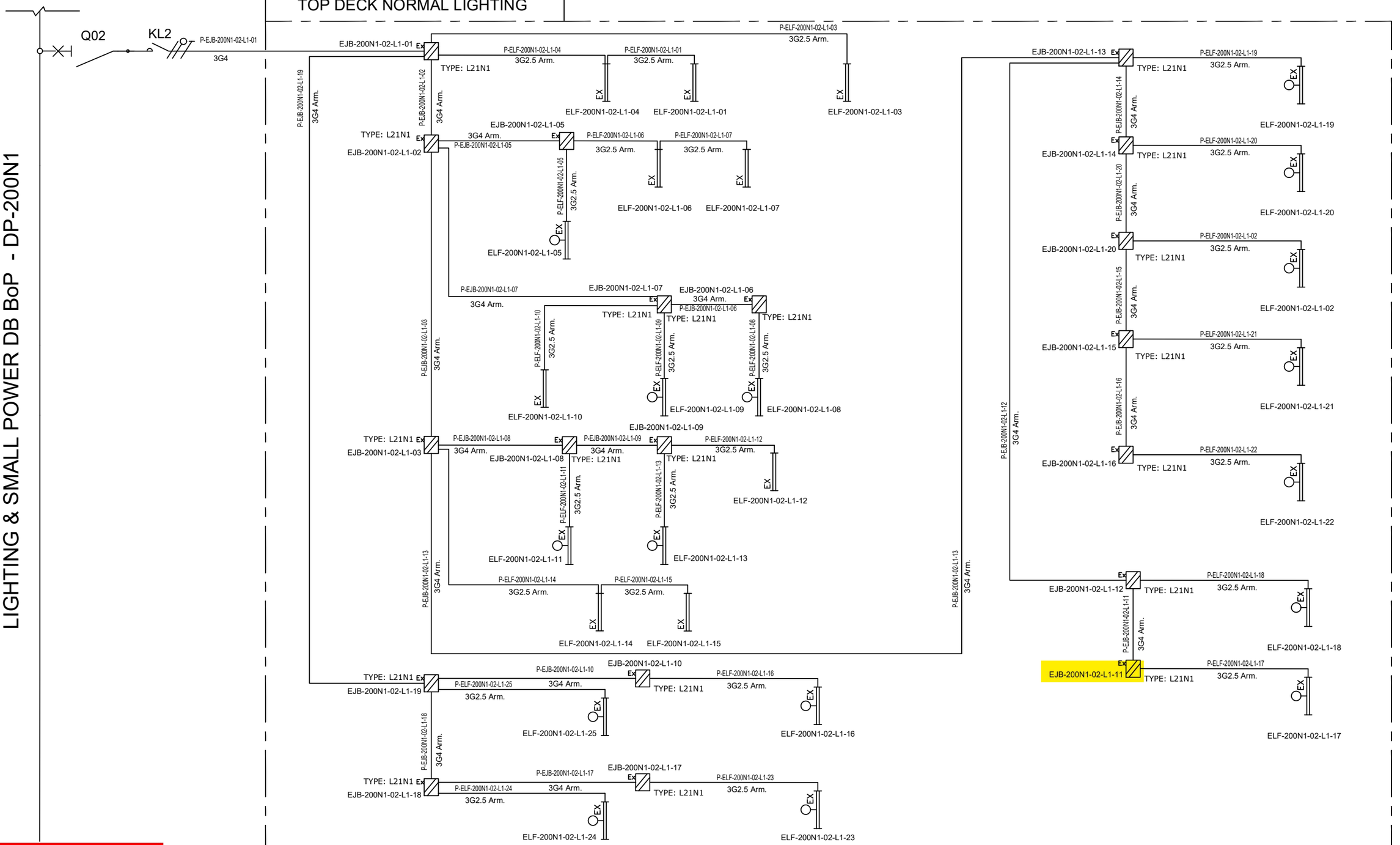
CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK			SCALE 1:150
DRAWN M. MAGNI	CHECKED C. CARACCIOLO	APPROVED D. LO STERZO	DATE 03/07/24

A1 | DRAWING NO. 123A90-DDL-SAF-DL-30024 | SHEET 001 | REV. 02

File Name : 123A90-DDL-SAF-DL-30024 Rev.02

LIGHTING & SMALL POWER DB BoP - DP-200N1

TOP DECK NORMAL LIGHTING



VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DG-20125**

REV.:	DATE:	SIGNATURE:
2_C	20/12/24	V.Ramponi

ROSETTI MARINO SpA

CROSSWIND

ROSETTI MARINO

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	08/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	01/07/24	ASR	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

TITLE : BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET CIRCUIT DIAGRAM
TOP DECK–NORMAL LIGHTING

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE : NTS

A3

DRAWING NO. 123A90–DDL–EL–DG–20125

SHEET 010

REV. 01

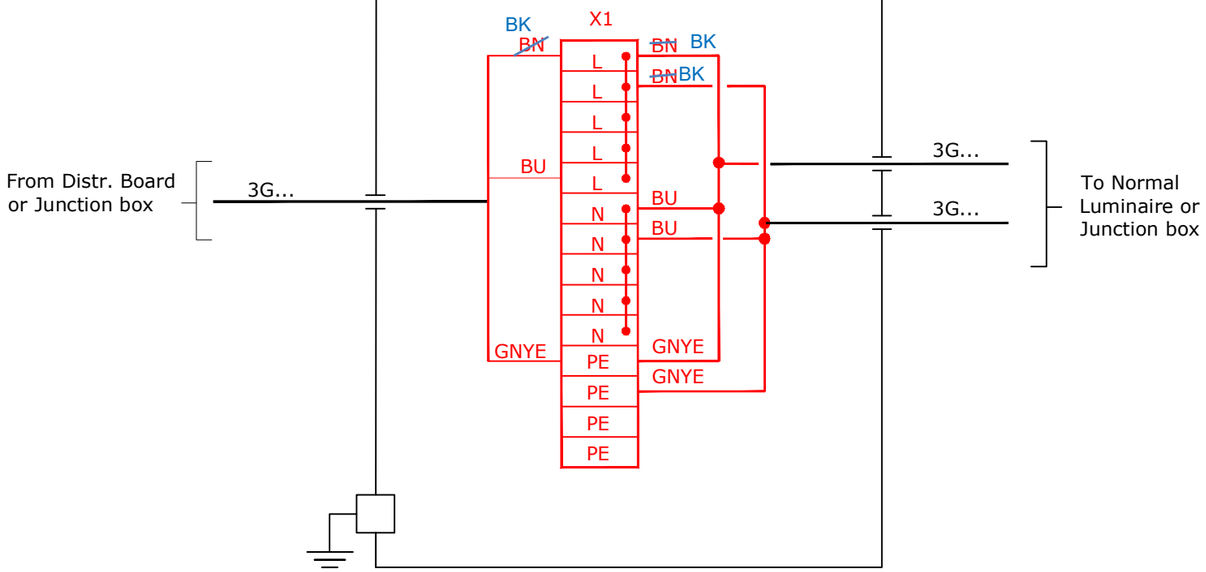
F.to UNI A3: 420mmx297mm

File Name : 123A90–DDL–EL–DG–20125

TYPE : L21N1 & L21N2

ITEM: NORMAL LIGHTING JUNCTION BOX

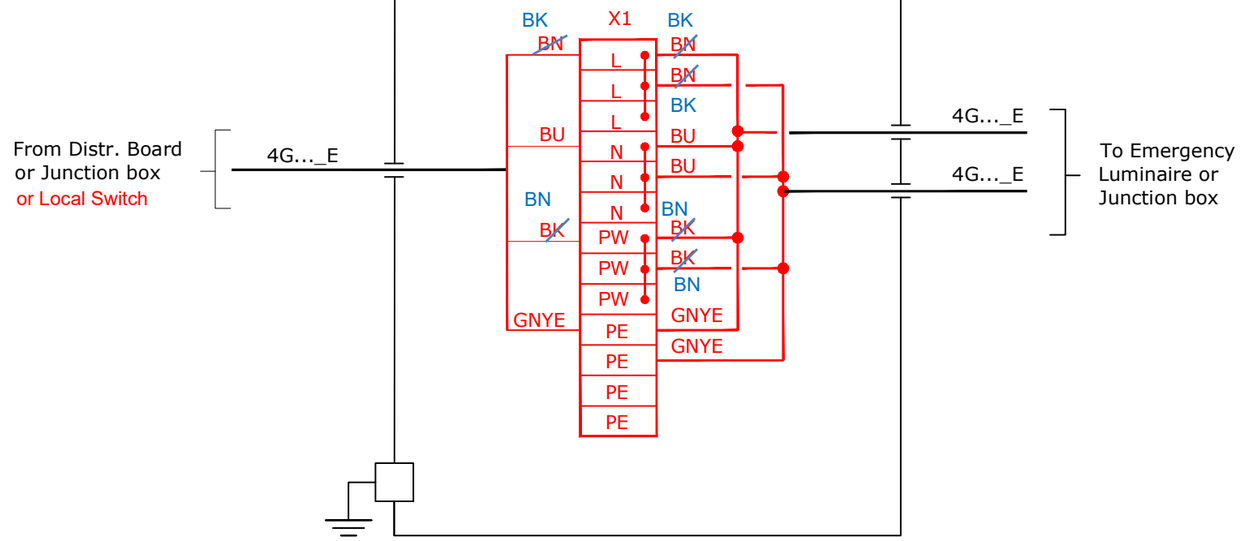
TAG : Typical



TYPE : L21E1 & L21E2

ITEM: EMERGENCY LIGHTING JUNCTION BOX

TAG : Typical



VALID FOR CONSTRUCTION

FDL DWG: **123A90-FDL-EL-DG-20125**

REV.:	DATE:	SIGNATURE:
2_C	20/12/24	V.Ramponi

ROSETTI MARINO SpA

CROSSWIND

ROSETTI MARINO

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	08/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)

TITLE : BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET CIRCUIT DIAGRAM
TYPICAL JB INTERCONNECTING DIAGRAM

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE : NTS

A3

DRAWING NO. 123A90-DDL-EL-DG-20125

SHEET 016

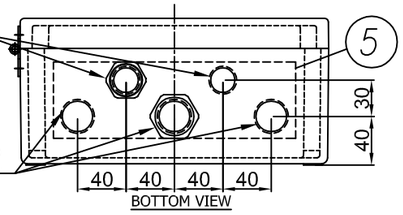
REV. 01

File Name : 123A90-DDL-EL-DG-20125

F.to UNI A3: 420mmx297mm

10 4 N°2 PASSING HOLES Ø20.2
C/W N°1 BNK PLUG M20 +
N°1 DUSTPROOF PVC PLUG

3 3 N°3 PASSING HOLES Ø25.2
C/W N°1 BNK PLUG M25 +
N°2 DUSTPROOF PVC PLUG



BOTTOM VIEW

8 I2400722-B015I00029809

TECHNOR ITALSMEA
A COMPANY OF MARECHAL ELECTRIC
Via Italia 33 - 20060 Cassano (MI) ITALY

CE 0080 Ex II 2G II 2D
FIDI 21ATEX 0090X
IECEx FIDI 21.0015X
Year of construction:

MADE IN ITALY

TYPE: AQ-252612P
230VAC 50Hz 20A
Max Dis. P. 6W

Ex eb IIC T6 Gb
Ex tb IIIC T85°C Db
IP66
T.amb. -20/+40°C
Serial Nr.

WARNINGS : DO NOT OPEN WHEN ENERGIZED

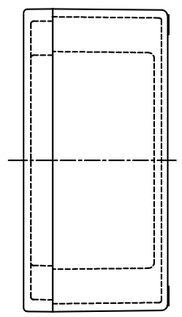
A002MAX

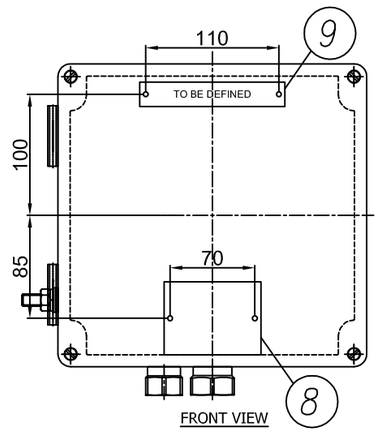
9 PLATE DETAIL



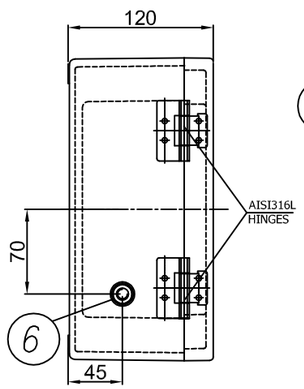
MATERIAL: LAMINATED PLASTIC
BACKGROUND: WHITE
LETTERS: BLACK

7 JB for Normal Lighting have terminals bridge: L-L-L-L-L, N-N-N-N-N, PE-PE-PE-PE-PE - JB for Emergency Lighting have terminals bridge: L-L-L, N-N-N, PW-PW-PW, PE-PE-PE-PE-PE

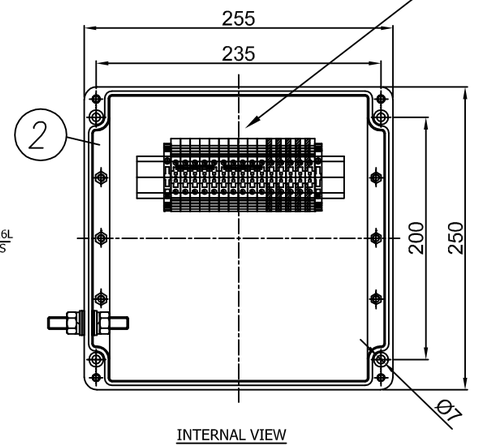

RIGHT VIEW



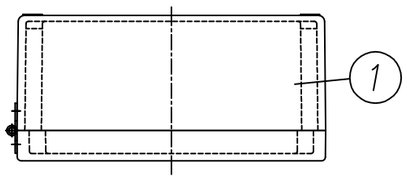
FRONT VIEW



LEFT VIEW



INTERNAL VIEW



TOP VIEW

ITEM	DESCRIPTION	Pcs Q.TY	NOTE/MAT.	CODE	MANUFACTURER
11	DUSTPROOF PVC PLUG Ø25	2	–	.	TECHNOR ITALSMEA
10	DUSTPROOF PVC PLUG Ø20	1	–	.	TECHNOR ITALSMEA
9	LAMINATED PLASTIC TAG 120X20	1	–	.	TECHNOR ITALSMEA
8	AISI316L CERTIFICATE PLATE 80X60	1	–	.	TECHNOR ITALSMEA
7	BEIGE TERMINAL BLOCK SIZE 6 SQMM EARTH TERMINAL BLOCK SIZE 6 SQMM	105	WDU–6 WPE–6	.	WEIDMULLER
6	AISI316L INT/EXT EARTH BOLT M10	1	BTP–10	.	TECHNOR ITALSMEA
5	BRASS CONTINUITY PLATE THK. 0.8 MM	1	–	.	TECHNOR ITALSMEA
4	NICKEL PLATED BRASS PLUG M20	1	T20	.	TECHNOR ITALSMEA
3	NICKEL PLATED BRASS PLUG M25	1	T25	.	TECHNOR ITALSMEA
2	INTERNAL MOUNTING PLATE	1	PS–2526	.	TECHNOR ITALSMEA
1	GRP ENCLOSURE	1	AQ–252612P	.	TECHNOR ITALSMEA

-UNPAINTED (BLACK NATURAL)
Q.TY 92, ITEM 20: 2JBXXGPEE, ELEJB02

Explosion Proof
Electrical Equipment
Materiali Elettrici Antideflagranti

TECHNOR ITALSMEA
A COMPANY OF MARECHAL ELECTRIC

CROSSWIND

ROSETTI MARINO

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
04	26/11/24	FB	OB	OB	ACCEPTED FOR CONSTRUCTION (AFC)
03	25/10/24	FB	OB	OB	ACCEPTED FOR CONSTRUCTION (AFC)
02	12/09/24	FB	OB	OB	ACCEPTED FOR CONSTRUCTION (AFC)
01	03/09/24	FB	OB	OB	ACCEPTED FOR CONSTRUCTION (AFC)
00	30/07/24	FB	OB	OB	ISSUE FOR REVIEW (IFR)

TITLE : BASE LOAD POWER HUB (BLPH)

Junction Box for Normal & Emergency Lighting

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE : NTS

A3

DRAWING NO. 1724001481-EL-DA-00003

SHEET 004

REV. 04

F.to UNI A3: 420mmx297mm

File Name : 1724001481-EL-DA-00003 Rev. 01

ENCLOSURE N°	TAG LIST	NORMAL LIGHTNING	EMERGENCY LIGHTNING
1	EJB-200N1-03-L2-04	X	
2	EJB-200N1-03-L2-03	X	
3	EJB-200N1-03-L2-01	X	
4	EJB-200N1-03-L2-02	X	
5	EJB-200N1-03-L2-12	X	
6	EJB-200N1-03-L2-11	X	
7	EJB-200N1-03-L2-10	X	
8	EJB-200N1-03-L2-09	X	
9	EJB-200N1-03-L2-08	X	
10	EJB-200N1-03-L2-07	X	
11	EJB-200N1-03-L2-06	X	
12	EJB-200N1-03-L2-05	X	
13	EJB-200N1-03-L2-14	X	
14	EJB-200N1-03-L2-13		X
15	EJB-200N1-09-L2-17		X
16	EJB-200N1-09-L2-01		X
17	EJB-200N1-09-L2-04		X
18	SPARE (TO BE PROVIDED BLANK)		X
19	EJB-200N1-09-L2-02		X
20	EJB-200N1-09-L2-15		X
21	EJB-200N1-09-L2-14		X
22	EJB-200N1-09-L2-13		X
23	EJB-200N1-09-L2-12		X
24	EJB-200N1-09-L2-11		X
25	EJB-200N1-09-L2-10		X
26	EJB-200N1-09-L2-09		X
27	EJB-200N1-09-L2-08		X
28	EJB-200N1-09-L2-07		X
29	EJB-200N1-09-L2-06		X
30	EJB-200N1-09-L2-05		X
31	EJB-200N1-09-L2-16	X	
32	EJB-200N1-04-L3-01	X	
33	EJB-200N1-04-L3-02	X	
34	EJB-200N1-10-L3-05		X
35	EJB-200N1-10-L3-06		X
36	EJB-200N1-10-L3-07		X
37	EJB-200N1-10-L3-08		X
38	EJB-200N1-10-L3-09		X
39	EJB-200N1-10-L3-02		X
40	EJB-200N1-10-L3-01		X
41	EJB-200N1-10-L3-03		X
42	EJB-200N1-10-L3-04		X
43	EJB-200N1-02-L1-03	X	
44	EJB-200N1-02-L1-02	X	
45	EJB-200N1-02-L1-01	X	
46	SPARE (TO BE PROVIDED BLANK)	X	
47	EJB-200N1-02-L1-10	X	
48	EJB-200N1-02-L1-19	X	
49	EJB-200N1-02-L1-18	X	

ENCLOSURE N°	TAG LIST	NORMAL LIGHTNING	EMERGENCY LIGHTNING
50	EJB-200N1-02-L1-17	X	
51	EJB-200N1-02-L1-16	X	
52	EJB-200N1-02-L1-15	X	
53	EJB-200N1-02-L1-14	X	
54	EJB-200N1-02-L1-13	X	
55	EJB-200N1-02-L1-12	X	
56	EJB-200N1-02-L1-11	X	
57	EJB-200N1-02-L1-06	X	
58	EJB-200N1-02-L1-05	X	
59	EJB-200N1-02-L1-07	X	
60	EJB-200N1-02-L1-08	X	
61	EJB-200N1-02-L1-09	X	
62	EJB-200N1-08-L1-03		X
63	SPARE (TO BE PROVIDED BLANK)		X
64	EJB-200N1-08-L1-01		X
65	EJB-200N1-08-L1-04		X
66	EJB-200N1-08-L1-19		X
67	EJB-200N1-08-L1-18		X
68	EJB-200N1-08-L1-17		X
69	EJB-200N1-08-L1-16		X
70	EJB-200N1-08-L1-15		X
71	EJB-200N1-08-L1-14		X
72	~~EJB-200N1-08-L1-13~~ EJB-200N1-02-L1-20	X	
73	EJB-200N1-08-L1-12		X
74	EJB-200N1-08-L1-11		X
75	EJB-200N1-08-L1-10		X
76	EJB-200N1-08-L1-20		X
77	EJB-200N1-08-L1-05		X
78	EJB-200N1-08-L1-06		X
79	EJB-200N1-08-L1-07		X
80	EJB-200N1-08-L1-09		X
81	EJB-200N1-08-L1-08		X
82	EJB-200F2-01	X	
83	EJB-200F2-02	X	
84	SPARE (TO BE PROVIDED BLANK)	X	
85	SPARE (TO BE PROVIDED BLANK)	X	
86	SPARE (TO BE PROVIDED BLANK)	X	
87	SPARE (TO BE PROVIDED BLANK)	X	
88	SPARE (TO BE PROVIDED BLANK)	X	
89	SPARE (TO BE PROVIDED BLANK)		X
90	SPARE (TO BE PROVIDED BLANK)		X
91	SPARE (TO BE PROVIDED BLANK)		X
92	SPARE (TO BE PROVIDED BLANK)		X

Q.TY 92, ITEM 20: 2JBXXGPEE, ELEJB02

Explosion Proof
Electrical Equipment
Materiali Elettrici Antideflagranti

TECHNOR ITALSMEA
A COMPANY OF MARECHAL ELECTRIC

CROSSWIND

ROSETTI MARINO

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
04	26/11/24	FB	OB	OB	ACCEPTED FOR CONSTRUCTION (AFC)
03	25/10/24	FB	OB	OB	ACCEPTED FOR CONSTRUCTION (AFC)
02	12/09/24	FB	OB	OB	ACCEPTED FOR CONSTRUCTION (AFC)
01	03/09/24	FB	OB	OB	ACCEPTED FOR CONSTRUCTION (AFC)
00	30/07/24	FB	OB	OB	ISSUE FOR REVIEW (IFR)

TITLE : BASE LOAD POWER HUB (BLPH)

Junction Box for Normal & Emergency Lighting–Tag List

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE : NTS

A3

DRAWING NO. 1724001481-EL-DA-00003

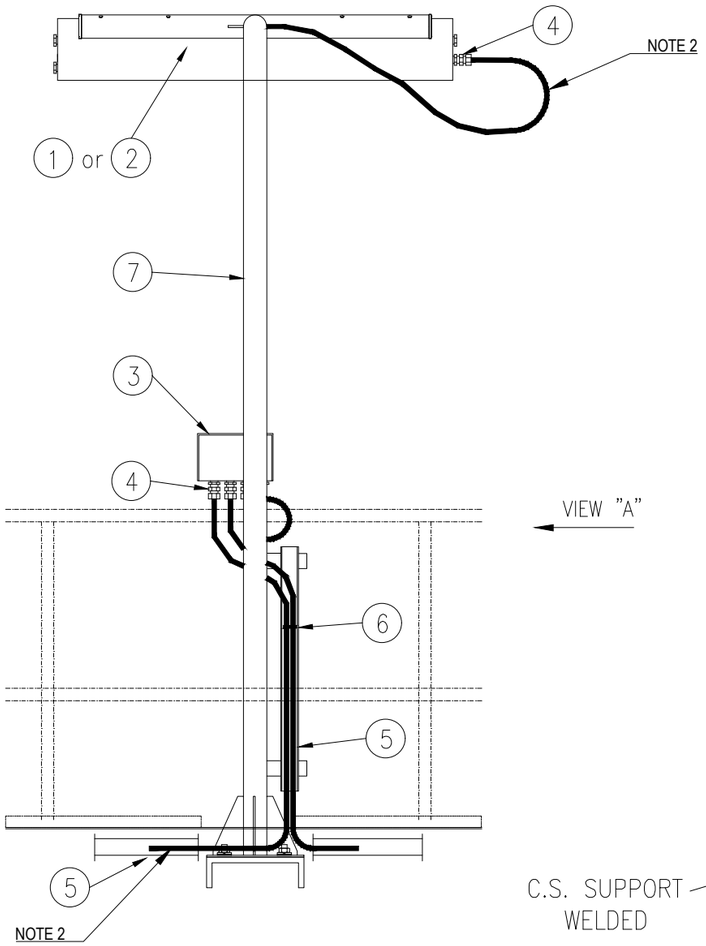
SHEET 005

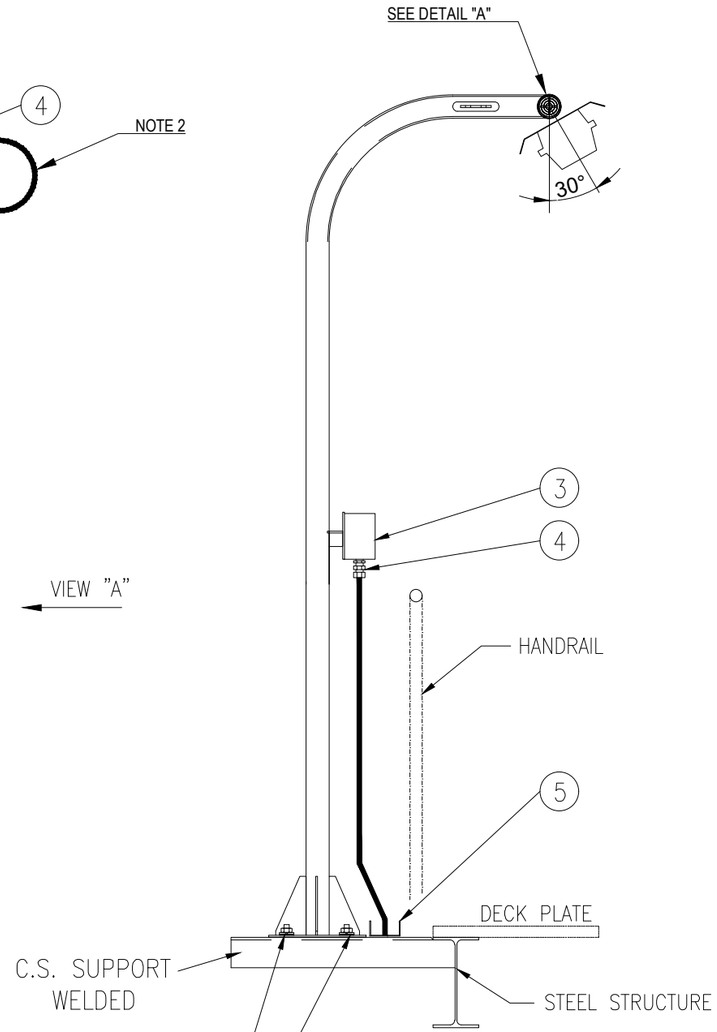
REV. 04

F.to UNI A3: 420mmx297mm

File Name : 1724001481-EL-DA-00003 Rev. 01

L11A

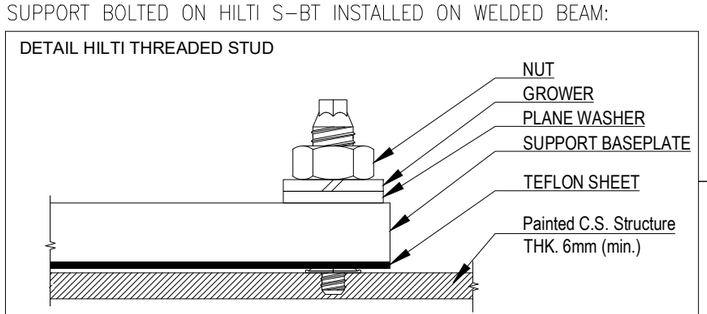




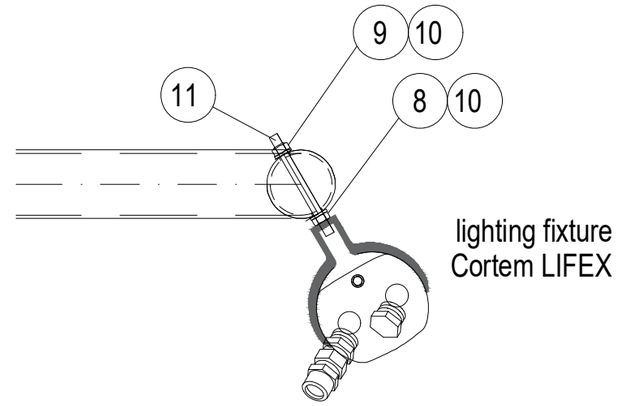
VIEW "A"

VIEW "A"

SUPPORT BOLTED ON HILTI S-BT INSTALLED ON WELDED BEAM:



POS.	DESCRIPTION	MATERIAL	SIZE	Q.TY	NOTE
1	42W LED LUMINARIES	ALUMINIUM ALLOY		1	
2	45W LED LUMINARIES C/W BATTERY	ALUMINIUM ALLOY		1	
3	JUNCTION BOX (Ex)	GRP		1	NOTE 1
4	CABLE GLAND ~~C/W EARTH TAG,~~ WASHERS, LOCKNUT AND WEATHERPROOF WASHERS	BRASS NICKEL PLATED		AS REQ.	
5	CABLE TRAY	AISI 316L			
6	STAINLESS STEEL NYLON COATED CABLE TIE	SS NYLON COATED			
7	POLE SUPPORT FOR LAMP	AISI 316L	2"		
8	NUT	AISI 316L	M8		
9	SELF.LOCKING NUT	AISI 316L	M8		
10	LARGE PLANE WASHER (24mm DIAM.)	AISI 316L	M8		
11	THREADED ROD M8x100	AISI 316L	M8		



DETAIL "A"

VALID FOR CONSTRUCTION

REV.:	DATE:	SIGNATURE:
2_B	12/12/24	C.Pilato

ROSETTI MARINO SpA

NOTES:

1) FOR LAMPS IN HAZARDOUS AREA, USE ARMOURED CABLE, DOUBLE SEAL CABLE GLAND AND EX JUNCTION BOX.

2) ALWAYS ENSURE CABLE LENGTH IS >3m

02

CROSSWIND

ROSETTI MARINO

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	30/09/24	GRA	AMA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	04/07/24	NLK	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	21/11/23	SPS	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL TYPICAL INSTALLATION DETAILS-LIGHTING SYSTEM
LIGHTING FIXTURE MOUNTED ON POLE

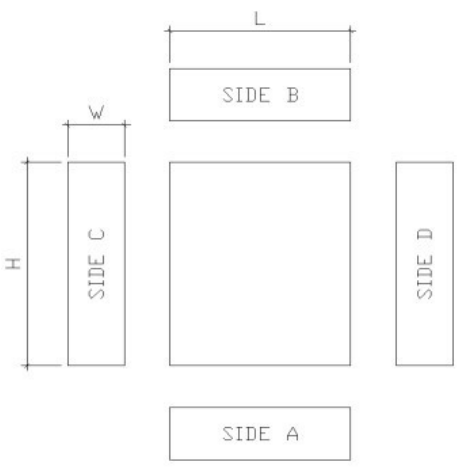
CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK | SCALE : NTS

A3 | DRAWING NO. 123A90-DDL-EL-DD-20091 | SHEET 014 | REV. 02

F.to UNI A3: 420mmx297mm

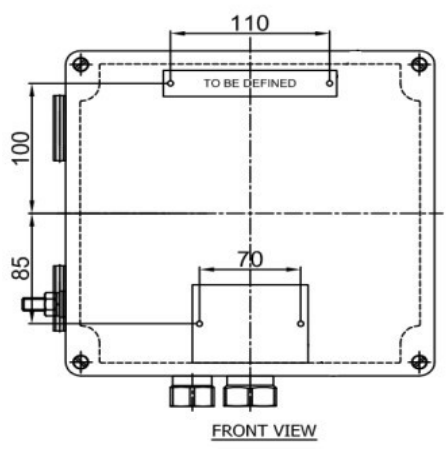
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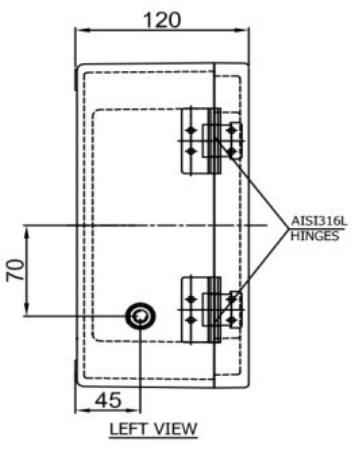
Row	Data Sheet for Control Stations, Junction Boxes and Sockets				Rev.
1	Junction Box for Normal & Emergency Lighting (Exdb)				
2	Item	Required	Manufacturer Proposal	Comments	
3	Model Number	by Vendor	AQ-252612P		01
4	Serial Number	by Vendor	B011041010004		01
5	Quantity	43+5(spare)		(39+9 spare)	01
6	Appkication	Lighting pole JB/Lighting JB			00
7	**Installation area**				
8	Indoor/Outdoor	Outdoor			00
9	Safe Area/Hazardous Area	Hazardous area			00
10	Zone 1/Zone 2	Zone-1			00
11	Temp. Class	Zone 1 Gas Group IIC (or) IIB + H2, T1	Ex eb IIC, T6 Gb		01
12	**Electrical input data**				
13	Voltage	230 V ac	230 V ac		01
14	Number of Phases	1ph + N + PE			00
15	**Material**				
16	Body	GRP	GRP		01
17	Execution	Ex eb	Ex eb		00
18	Protection Degree	IP56	IP 66		01
19	**Accessories**				
20	Hinged Cover	Required	AISI316L Hinges		01
21	Gasket	Required			00
22	Removable Gland Plates	Required	Brass Continuity plate 0.8mm thick		01
23	Internal Mounting Plate	Thickness 3mm threaded		connected to Internal ground bar	00
24	Internal Ground Bar	Required		connected to earth stud	00
25	Earth Stud	Required			00
26	Drainage Valve	Required			00
27	Pad lockable Cover	Required			00
28	Identification Label	Trafolite/ Stainless Steel	Laminated Plastic	for all label	01
29	**Side 'A'**				
30	Hubs Qty.	5	5		01
31	Size	No.3 M25, No.2 M20	No.3 Ø 25.2 mm, No.2 Ø 20.2 mm		01
32	Thread	ISO-M			00
33	Plug	No. 1 M20, No.1 M25	No. 1 Ø 20.2 mm, No.1 Ø 25.2 mm	nickel-plated brass	01
34	**Side 'B'**				
35	Hubs Qty.	Not Required			00
36	Size	NA			00
37	Thread	NA			00
38	**Side 'C'**				
39	Hubs Qty.	Not Required			00
40	Size	NA			00
41	Thread	NA			00
42	**Side 'D'**				
43	Hubs Qty.	Not Required			00
44	Size	NA			00
45	Thread	NA			00
46	**Terminals**				
47	Size [mm^2]	Suitable for 6 Sq.mm & 2.5 Sq.mm Cable	M25 & M20	suitable with wire-end ferrules DIN 46228	01
48	Qty.	n°5 for Ph // n°5 for N // n°5 for PE	n°5 for Ph // n°5 for N // n°5 for PE	Ex - jumpered	01
49	**Bonding Cable (yellow/Green)**				
50	Size [mm^2]	by vendor		6 mm^2	01
51	Qty.	Min. 0.15m			00
52	**Dimension**				
53	Height 'H' [mm]	by vendor	120 mm		01
54	Width 'W' [mm]	by vendor	250 mm		01
55	Length 'L' [mm]	by vendor	255 mm		01
56	Weight [Kg]	by vendor	2.65 Kg		01
57	JB Code (*)	Remarks			
58					



NOTES:

(*) Filled by Vendor





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Tag Number	Tag Description	Location	P.O.	Vendor	Manufacturer	Serial Number	Model Type Catalogue Number	Installation Zone	ATEX Certificate Number	Reference Document	ATEX Certification Marking	Notes / Comments	Skid / Package	Electrical Equip.	Barrier Calculation Ref.	Special Conditions of Safe Use Applicable	3D Location
CB-200F4B	AC UPS F&G - Battery Isolator-B	CONTAINER B-300 (LOWER DECK)	1724000372	3W Power	Cortem Spa		EJBC	Zone 1	EPT 20 ATEX 4075X	1724000372-EL-DG-00011	II 2GDEx db IIC T6 Gb Ex tb IIIC T 85°C Db	-	N/A	True	N/A	False	
EAT-200N1-01	Trace Heating - Remote Ambient Thermostat	LOWER DECK	1724001647	nVent	nVent	1244-022663	ETS-05-A2-E-A	Zone 1	Baseefa 13ATEX0137	1724001647-EL-DD-00004	II 2(1)G Ex eb ia mb [ia Ga] IIC T5 Gb - 40ºC ≤ Ta ≤ +60ºC II 2D Ex tb IIIC T100ºC Db	-	N/A	True	N/A	False	
EHT-1001-A	Self-regulating heat cable	LOWER DECK	1724001647	nVent	nVent	469145-000	3BTV2-CT	Zone 1	SGS20ATEX0048X	1724001647-EL-DD-00004	II 2 GD Ex 60079-30-1 eb IIC T6 Gb	-	N/A	True	N/A	True	
EHT-1002-A	Self-regulating heat cable	LOWER DECK	1724001647	nVent	nVent	469145-000	3BTV2-CT	Zone 1	SGS20ATEX0048X	1724001647-EL-DD-00004	II 2 GD Ex 60079-30-1 eb IIC T6 Gb	-	N/A	True	N/A	True	
EHT-1003-A	Self-regulating heat cable	LOWER DECK	1724001647	nVent	nVent	469145-000	3BTV2-CT	Zone 1	SGS20ATEX0048X	1724001647-EL-DD-00004	II 2 GD Ex 60079-30-1 eb IIC T6 Gb	-	N/A	True	N/A	True	
EHT-1004-A	Self-regulating heat cable	UPPER DECK	1724001647	nVent	nVent	469145-000	3BTV2-CT	Zone 1	SGS20ATEX0048X	1724001647-EL-DD-00004	II 2 GD Ex 60079-30-1 eb IIC T6 Gb	-	N/A	True	N/A	True	
EHT-1004-B	Self-regulating heat cable	UPPER DECK	1724001647	nVent	nVent	469145-000	3BTV2-CT	Zone 1	SGS20ATEX0048X	1724001647-EL-DD-00004	II 2 GD Ex 60079-30-1 eb IIC T6 Gb	-	N/A	True	N/A	True	
EHT-1005-A	Self-regulating heat cable	UPPER DECK	1724001647	nVent	nVent	469145-000	3BTV2-CT	Zone 1	SGS20ATEX0048X	1724001647-EL-DD-00004	II 2 GD Ex 60079-30-1 eb IIC T6 Gb	-	N/A	True	N/A	True	
EHT-1006-A	Self-regulating heat cable	UPPER DECK	1724001647	nVent	nVent	469145-000	3BTV2-CT	Zone 1	SGS20ATEX0048X	1724001647-EL-DD-00004	II 2 GD Ex 60079-30-1 eb IIC T6 Gb	-	N/A	True	N/A	True	
EHT-1007-A	Self-regulating heat cable	LOWER DECK	1724001647	nVent	nVent	469145-000	3BTV2-CT	Zone 1	SGS20ATEX0048X	1724001647-EL-DD-00004	II 2 GD Ex 60079-30-1 eb IIC T6 Gb	-	N/A	True	N/A	True	
EHT-2002-A	Self-regulating heat cable	UPPER DECK	1724001647	nVent	nVent	469145-000	3BTV2-CT	Zone 1	SGS20ATEX0048X	1724001647-EL-DD-00004	II 2 GD Ex 60079-30-1 eb IIC T6 Gb	-	N/A	True	N/A	True	
EJB-200F2-01	Top Obstruction Lights Junction Box	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990082	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	HAZARDOUS-AREA_8 HAZARDOUS-AREA_3
EJB-200F2-02	Intermediate obstruction lights junction box	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990083	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	HAZARDOUS-AREA_4
EJB-200N1-02-L1-01	Normal Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990045	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-02-L1-02	Normal Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990044	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-02-L1-03	Normal Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990043	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	HAZARDOUS-AREA_3
EJB-200N1-02-L1-05	Normal Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990058	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-02-L1-06	Normal Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990057	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-02-L1-07	Normal Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990059	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
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EJB-200N1-02-L1-09	Normal Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990061	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-02-L1-10	Normal Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990047	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-02-L1-11	Normal Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990056	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-02-L1-12	Normal Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990055	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-02-L1-13	Normal Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990054	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-02-L1-14	Normal Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990053	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-02-L1-15	Normal Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990052	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
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EJB-200N1-02-L1-17	Normal Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990050	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-02-L1-18	Normal Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990049	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-02-L1-19	Normal Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990048	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-02-L1-20	Normal Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990072	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-03-L2-01	Normal Lighting JB	LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990003	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-03-L2-02	Normal Lighting JB	LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990004	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-03-L2-03	Normal Lighting JB	LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990002	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-03-L2-04	Normal Lighting JB	LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990001	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-03-L2-05	Normal Lighting JB	LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990012	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-03-L2-06	Normal Lighting JB	LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990011	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-03-L2-07	Normal Lighting JB	LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990010	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-03-L2-08	Normal Lighting JB	LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990009	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-03-L2-09	Normal Lighting JB	LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990008	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-03-L2-10	Normal Lighting JB	LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990007	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-03-L2-11	Normal Lighting JB	LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990006	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-03-L2-12	Normal Lighting JB	LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990005	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-03-L2-13	Normal Lighting JB	LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990014	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-03-L2-14	Normal Lighting JB	LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990013	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-04-L3-01	Stair Normal Lighting JB	LOWER DECK STAIRS	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990032	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-04-L3-02	Stair Normal Lighting JB	LOWER DECK STAIRS	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990033	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-08-L1-01	Emergency Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990064	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-08-L1-03	Emergency Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990062	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	HAZARDOUS-AREA_3
EJB-200N1-08-L1-04	Emergency Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990065	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-08-L1-05	Emergency Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990077	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-08-L1-06	Emergency Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990078	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	

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[1] # EU – TYPE EXAMINATION CERTIFICATE

[2] Equipment or Protective Systems Intended for use in Potentially Explosive Atmospheres Directive 2014/34/EU.

[3] EU-Type Examination Certificate Number: **FIDI 21 ATEX 0090X** Issue: **1**

[4] Product: **Junction boxes, local control stations and local control panels**

Type: **AQ-***P / AQ-***AL / AR-***P / AR-***AL**
AQ-*P-HT / AQ-***AL-HT / AR-***P-HT / AR-***AL-HT**
SB-* / ST-***
EFE-* / EFXE-*** AL / EFXE-***SB / EFXE-***ST**
EFE-*-HT / EFXE-***AL-HT**

[5] Manufacturer: **Technor Italsmea S.p.A.**

[6] Address: **Via Italia 33, 20060 Gessate (MI), Italy**

[7] This product and any acceptable variation thereto is specified in the schedule to this certificate and documents therein referred to.

[8] FIDITAS Ltd., Notified Body number 2829 in accordance with Article 17 of Directive 2014/34/EU of the European Parliament and of the Council, dated 26 February 2014, certifies that this product has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of products intended for use in potentially explosive atmospheres given in Annex II of the Directive.

The examination and test results are recorded in confidential Report No: **FIDI 21 CR 075**

[9] Compliance with the Essential Health and Safety Requirements has been assured by compliance with:

EN IEC 60079-0:2018	**EN 60079-1:2014**	**EN IEC 60079-7:2015 / A1:2018**
EN 60079-11:2012	**EN 60079-18:2015/A1:2017**	**EN 60079-31:2014**

except in respect of those requirements listed at item 18 of the Schedule.

[10] If the sign 'X' is placed after the certificate number, it indicates that the product is subject to Specific Conditions of Use specified in the schedule to this certificate.

[11] This EU-Type Examination Certificate relates only to the design, examination and test of the specified product in accordance with Annex III. Further requirements of the Directive apply to the manufacturing process and supply of this products. These are not covered by this certificate.

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[12] The marking of the product shall include the following:



II 1 G	**Ex ia IIC/IIB T6...T4 Ga**(2) or
II 2(1) G or **II 2(2) G**	**Ex db eb ia/ib mb [**(3)**] IIC/IIB T6...T4 Gb**(1) or
II 2 G	**Ex eb IIC/IIB T6...T4 Gb**(1) or
II 2 D	**Ex tb IIIC T85°C...T135°C Db**

(1) Others type of protection additional to 'eb' depending to the components actually mounted.

(2) In case of enclosures containing 'eb' terminals and/or 'ia Ga' already certified components (with compatible marking) only.

(3) Associated equipment protection depending on the components actually mounted (see lists): e.g. [ia/ib/ia Ga/ia IIIC Da] and/or [ia IIIC Da] or [ia/ib/ia Ga/ia IIIC Da] and/or [ia/ib/ia Ga] [ia IIIC Da]

Our ref.: 21.CRT.400

Date: 23. 12.2021.

Fiditas d.o.o. ZAGREB

FIDITAS Ltd.
Certification department
Approved:

Marino Kelava, M.E.Eng.

Fiditas Ltd. Karlovačka cesta 197, 10250 Zagreb-Lučko, Croatia
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[13] **SCHEDULE**

[14] **EU - TYPE EXAMINATION CERTIFICATE No.:** **FIDI 21 ATEX 0090X**

[15] **Description of product**

Junction boxes, local control stations and local control panels are made of 'eb' and 'tb' enclosures in stainless steel, aluminium alloy or glass fiber reinforced polyester resin, of various dimensions, which shall house 'eb' and/or 'ia/ib' terminals and/or Ex components or Ex equipment made in different type of Ex protection. All Ex terminals, Ex components and Ex equipment are covered by their own ATEX certificates.

The terminals and components are be used according to data available in related component certificates, in relevant temperature range, voltage and current limitations. The terminals must be fitted in accordance with EN IEC 60079-0 and EN IEC 60079-7 with regards to creepage and clearance distances, and according to related safety instructions.

The cover is fixed to the body with screw, between body and cover a gasket guarantee the protection degree IP66 (IP66/67 depending on models). The cover of stainless-steel enclosure can be also fixed the body with looking devices, between body and cover a gasket guarantee the protection degree IP66. The IP degree of junction boxes, local control stations and local control panels depend on the components actually mounted. The walls and the bottom of the boxes can be drilled and taped with maximum size and maximum number of holes as specified in the manufacturer documents.

The cable glands or plugs, with separate ATEX certificate, made in type of protection 'eb' and/or 'tb' with appropriate IP protection are mounted according to related manufacturer's installation instructions. Each enclosure is provided with internal earthing certified terminal or earthing screw or bolt. Metal enclosures are provided by external earthing screw or bolt. Metal and polyester enclosures can be provided by passing through earthing terminals.

All enclosures can be provided by:
- Externally installed accessories as specified in manufacturer documents,
- Drain breath device type ECR3, included in this certificate,
- Internal/external earthing plate.

Model identification

Junction boxes

A(1)-(2) (3) (4) (5) (6)	(1) –	**Q**: Square size **R**: Rectangular size
	(2) (3) (4)	dimension, in cm
	(5)	Material **P**: Glass fiber reinforced polyester resin **AL**: Aluminium Alloy
	(6)	None: up to internal temperature of 105°C **HT**: up to internal temperature of 130°C
SB- (2) (3) (4)	(2) (3) (4)	dimension, in cm
ST- (2) (3) (4)	(2) (3) (4)	dimension, in cm

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Panel boards

EFE- (2) (3) (4) (6)	(2) (3) (4)	dimension, in cm
	(6)	None: up to internal temperature of 105°C **HT**: up to internal temperature of 130°C
EFXE- (2) (3) (4) (5) (6)	(2) (3) (4)	dimension, in cm
		Material
	(5)	**SB** or **ST**: stainless steel **AL**: Aluminium Alloy
	(6)	None: up to internal temperature of 105°C **HT**: up to internal temperature of 130°C

Technical data:

Electrical data:	According to Ex component to actually installed
Ambient temperature:	-50°C ÷ +95°C Other possible ranges are with: - min temperature: -50°C to -20 °C - max temperature of +40 °C to +95 °C
Mechanical protection:	IP66/IP67 depending on models IP66 without swing handle element IP55 with swing handle element

Temperature class and/or maximum surface temperature of any junction box or control panel depend on ambient temperature and internal power dissipation. The values that must be observed are given in relevant tables in this certificate.

For commercial reasons model name listed in the tables below can be modified as follows: first (2) and second (3) pair of digits can be reversed.

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Model sizes

Polyester High Temperature		Aluminium High Temperature	
AQ-080806P-HT	EFE-080806-HT	AQ-080806AL-HT	EFXE-080806AL-HT
AQ-080808P-HT	EFE-080808-HT	AR-081306AL-HT	EFXE-081306AL-HT
AR-081106P-HT	EFE-081106-HT	AR-081806AL-HT	EFXE-081806AL-HT
AR-081108P-HT	EFE-081108-HT	AR-082505AL-HT	EFXE-082505AL-HT
AR-081606P-HT	EFE-081606-HT	AQ-101008AL-HT	EFXE-101008AL-HT
AR-081608P-HT	EFE-081608-HT	AR-101608AL-HT	EFXE-101608AL-HT
AR-081906P-HT	EFE-081906-HT	AR-102008AL-HT	EFXE-102008AL-HT
AR-081908P-HT	EFE-081908-HT	AQ-121208AL-HT	EFXE-121208AL-HT
AR-082306P-HT	EFE-082306-HT	AQ-121209AL-HT	EFXE-121209AL-HT
AR-082308P-HT	EFE-082308-HT	AR-122208AL-HT	EFXE-122208AL-HT
AQ-121209P-HT	EFE-121209-HT	AR-122209AL-HT	EFXE-122209AL-HT
AR-122209P-HT	EFE-122209-HT	AR-123608AL-HT	EFXE-123608AL-HT
AQ-161609P-HT	EFE-161609-HT	AQ-141409AL-HT	EFXE-141409AL-HT
AR-162609P-HT	EFE-162609-HT	AR-142009AL-HT	EFXE-142009AL-HT
AR-163609P-HT	EFE-163609-HT	AQ-161609AL-HT	EFXE-161609AL-HT
AR-165609P-HT	EFE-165609-HT	AR-162609AL-HT	EFXE-162609AL-HT
AQ-202017P-HT	EFE-202017-HT	AR-163609AL-HT	EFXE-163609AL-HT
AR-203017P-HT	EFE-203017-HT	AR-165609AL-HT	EFXE-165609AL-HT
AQ-252612P-HT	EFE-252612-HT	AQ-181810AL-HT	EFXE-181810AL-HT
AQ-252616P-HT	EFE-252616-HT	AR-182810AL-HT	EFXE-182810AL-HT
AR-254012P-HT	EFE-254012-HT	AR-102311AL-HT	EFXE-102311AL-HT
AR-254016P-HT	EFE-254016-HT	AR-202311AL-HT	EFXE-202311AL-HT
AR-256012P-HT	EFE-256012-HT	AR-202318AL-HT	EFXE-202318AL-HT
AR-304020P-HT	EFE-304020-HT	AR-232811AL-HT	EFXE-232811AL-HT
AQ-363609P-HT	EFE-363609-HT	AR-233311AL-HT	EFXE-233311AL-HT
AR-406025P-HT	EFE-406025-HT	AR-233318AL-HT	EFXE-233318AL-HT
AQ-414012P-HT	EFE-414012-HT	AR-234011AL-HT	EFXE-234011AL-HT
AQ-414020P-HT	EFE-414020-HT	AR-234023AL-HT	EFXE-234023AL-HT
		AR-236011AL-HT	EFXE-236011AL-HT
		AR-314011AL-HT	EFXE-314011AL-HT
		AR-314014AL-HT	EFXE-314014AL-HT
		AR-314018AL-HT	EFXE-314018AL-HT
		AR-314023AL-HT	EFXE-314023AL-HT
		AR-316011AL-HT	EFXE-316011AL-HT
		AR-316018AL-HT	EFXE-316018AL-HT
		AQ-606020AL-HT	EFXE-606020AL-HT

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Polyester		Aluminium		Stainless steel	
AQ-080806P	EFE-080806	AQ-080806AL	EFXE-080806AL	SB-101210	EFXE-101210SB
AQ-080808P	EFE-080808	AR-081306AL	EFXE-081306AL	SB-151510	EFXE-151510SB
AR-081106P	EFE-081106	AR-081806AL	EFXE-081806AL	SB-142013	EFXE-142013SB
AR-081606P	EFE-081606	AR-081808AL	EFXE-081808AL	SB-202010	EFXE-202010SB
AR-081906P	EFE-081906	AR-082505AL	EFXE-082505AL	SB-202016	EFXE-202016SB
AQ-121209P	EFE-121209	AR-082508AL	EFXE-082508AL	SB-202713	EFXE-202713SB
AR-122209P	EFE-122209	AQ-101008AL	EFXE-101008AL	SB-272713	EFXE-272713SB
AQ-161609P	EFE-161609	AR-101508AL	EFXE-101508AL	SB-203016	EFXE-203016SB
AR-162609P	EFE-162609	AR-101608AL	EFXE-101608AL	SB-273513	EFXE-273513SB
AR-163609P	EFE-163609	AR-102008AL	EFXE-102008AL	SB-282816	EFXE-282816SB
AQ-252612P	EFE-252612	AQ-121208AL	EFXE-121208AL	SB-204016	EFXE-204016SB
AQ-252616P	EFE-252616	AR-122209AL	EFXE-122209AL	SB-353516	EFXE-353516SB
AR-254012P	EFE-254012	AQ-141409AL	EFXE-141409AL	SB-282827	EFXE-282827SB
AR-254016P	EFE-254016	AR-142009AL	EFXE-142009AL	SB-355016	EFXE-355016SB
AR-256012P	EFE-256012	AQ-161609AL	EFXE-161609AL	SB-383816	EFXE-383816SB
AQ-414012P	EFE-414012	AR-162410AL	EFXE-162410AL	SB-384516	EFXE-384516SB
		AR-162609AL	EFXE-162609AL	SB-385716	EFXE-385716SB
		AQ-181810AL	EFXE-181810AL	SB-505016	EFXE-505016SB
		AR-182810AL	EFXE-182810AL	SB-383827	EFXE-383827SB
		AR-202311AL	EFXE-202311AL	SB-575716	EFXE-575716SB
		AR-202318AL	EFXE-202318AL	SB-577620	EFXE-577620SB
		AR-232811AL	EFXE-232811AL	SB-575730	EFXE-575730SB
		AR-233312AL	EFXE-233312AL	SB-769520	EFXE-769520SB
		AR-233318AL	EFXE-233318AL	SB-1258040	EFXE-1258040SB

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Enclosure types (Stainless steel)	
ST-101210	EFXE-101210ST
ST-151510	EFXE-151510ST
ST-142013	EFXE-142013ST
ST-202010	EFXE-202010ST
ST-202016	EFXE-202016ST
ST-202713	EFXE-202713ST
ST-272713	EFXE-272713ST
ST-203016	EFXE-203016ST
ST-273513	EFXE-273513ST
ST-282816	EFXE-282816ST
ST-204016	EFXE-204016ST
ST-353516	EFXE-353516ST
ST-282827	EFXE-282827ST
ST-355016	EFXE-355016ST
ST-383816	EFXE-383816ST
ST-384516	EFXE-384516ST
ST-385716	EFXE-385716ST
ST-505016	EFXE-505016ST
ST-383827	EFXE-383827ST
ST-575716	EFXE-575716ST
ST-577620	EFXE-577620ST
ST-575730	EFXE-575730ST
ST-769520	EFXE-769520ST
ST-1258040	EFXE-1258040ST

Note 2 For stainless steel enclosures: dimensions (2) and (3) can be decreased or increased up to 20%, dimensions (4) can be increased up to 500 mm. Model name changes consequently.

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Power dissipation – HT glass fiber reinforced polyester resin enclosures

Enclosure types (polyester)		Maximum power dissipation (W) – Tamb. up to **40**°C							
		INTERNAL TEMP.60°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)	INTERNAL TEMP.127°C (T4/T135°C)
AQ-080806P-HT	EFE-080806-HT	3,5	5,2	7,0	7,8	9,6	10,4	11,3	15,2
AQ-080808P-HT	EFE-080808-HT	4,6	6,8	9,1	10,2	12,5	13,7	14,8	19,8
AR-081106P-HT	EFE-081106-HT	4,3	6,4	8,5	9,6	11,8	12,8	13,9	18,6
AR-081108P-HT	EFE-081108-HT	5,6	8,4	11,2	12,6	15,3	16,7	18,1	24,2
AR-081606P-HT	EFE-081606-HT	5,8	8,7	11,6	13,0	15,9	17,4	18,8	25.2
AR-081608P-HT	EFE-081608-HT	6,8	10,2	13,7	15,4	18,8	20,5	22,2	29,7
AR-081906P-HT	EFE-081906-HT	6,4	9,6	12,8	14,4	17,6	19,2	20,8	27,8
AR-081908P-HT	EFE-081908-HT	7,5	11,3	15,1	17,0	20,7	22,6	24,5	32,7
AR-082306P-HT	EFE-082306-HT	7,2	10,8	14,4	16,2	19,8	21,6	23,4	31,3
AR-082308P-HT	EFE-082308-HT	8,5	12,7	16,9	19,0	23,3	25,4	27,5	36,7
AQ-121209P-HT	EFE-121209-HT	8,0	12,0	15,9	17,9	21,9	23,9	25,9	34,7
AR-122209P-HT	EFE-122209-HT	10,8	16,2	21,6	24,3	29,7	32,4	35,1	47,0
AQ-161609P-HT	EFE-161609-HT	10,4	15,6	20,8	23,4	28,6	31,2	33,8	45,2
AR-162609P-HT	EFE-162609-HT	13,4	20,1	26,8	30,2	36,9	40,2	43,6	58,3
AR-163609P-HT	EFE-163609-HT	16,2	24,3	32,4	36,5	44,6	48,6	52,7	70,5
AR-165609P-HT	EFE-165609-HT	21,4	32,0	42,7	48,1	58,7	64,1	69,4	92,9
AQ-202017P-HT	EFE-202017-HT	18,0	26,9	35,9	40,4	49,4	53,9	58,4	78,1
AR-203017P-HT	EFE-203017-HT	20,9	31,3	41,7	47,0	57,4	62,6	67,8	90,8
AQ-252612P-HT	EFE-252612-HT	18,8	28,2	37,6	42,4	51,8	56,5	61,2	81,9
AQ-252616P-HT	EFE-252616-HT	20,8	31,1	41,5	46,7	57,1	62,3	67,5	90,3
AR-254012P-HT	EFE-254012-HT	22,8	34,2	45,7	51,4	62,8	68,5	74,2	99,3
AR-254016P-HT	EFE-254016-HT	26,2	39,3	52,4	58,9	72,0	78,6	85,1	113,9
AR-256012P-HT	EFE-256012-HT	29,0	43,6	58,1	65,3	79,9	87,1	94,4	126,3
AR-304020P-HT	EFE-304020-HT	32,3	48,5	64,7	72,7	88,9	97,0	105,1	140,7
AQ-363609P-HT	EFE-363609-HT	23,0	34,6	46,1	51,8	63,4	69,1	74,9	100,2
AR-406025P-HT	EFE-406025-HT	50,3	75,5	100,7	113,3	138,4	151,0	163,6	218,9
AQ-414012P-HT	EFE-414012-HT	29,1	43,7	58,2	65,5	80,1	87,3	94,6	126,6
AQ-414020P-HT	EFE-414020-HT	36,6	55,0	73,3	82,4	100,8	109,9	119,1	159,4

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Enclosure types (polyester)		Maximum power dissipation (W) – Tamb. up to **50**°C							
		INTERNAL TEMP.60°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)	INTERNAL TEMP.127°C (T4/T135°C)
AQ-080806P-HT	EFE-080806-HT	1,7	3,5	5,2	6,1	7,8	8,7	9,6	13,4
AQ-080808P-HT	EFE-080808-HT	2,3	4,6	6,8	8,0	10,2	11,4	12,5	17,5
AR-081106P-HT	EFE-081106-HT	2,1	4,3	6,4	7,5	9,6	10,7	11,8	16,5
AR-081108P-HT	EFE-081108-HT	2,8	5,6	8,4	9,8	12,6	13,9	15,3	21.5
AR-081606P-HT	EFE-081606-HT	2,9	5,8	8,7	10,1	13,0	14,5	15,9	22,3
AR-081608P-HT	EFE-081608-HT	3,4	6,8	10,2	11,9	15,4	17,1	18,8	26,3
AR-081906P-HT	EFE-081906-HT	3,2	6,4	9,6	11,2	14,4	16,0	17,6	24,6
AR-081908P-HT	EFE-081908-HT	3,8	7,5	11,3	13,2	17,0	18,8	20,7	29,0
AR-082306P-HT	EFE-082306-HT	3,6	7,2	10,8	12,6	16,2	18,0	19,8	27,7
AR-082308P-HT	EFE-082308-HT	4,2	8,5	12,7	14,8	19,0	21,1	23,3	32,5
AQ-121209P-HT	EFE-121209-HT	4,0	8,0	12,0	14,0	17,9	19,9	21,9	30,7
AR-122209P-HT	EFE-122209-HT	5,4	10,8	16,2	18,9	24,3	27,0	29,7	41,6
AQ-161609P-HT	EFE-161609-HT	5,2	10,4	15,6	18,2	23,4	26,0	28,6	40,0
AR-162609P-HT	EFE-162609-HT	6,7	13,4	20,1	23,5	30,2	33,5	36,9	51,6
AR-163609P-HT	EFE-163609-HT	8,1	16,2	24,3	28,4	36,5	40,5	44,6	62,3
AR-165609P-HT	EFE-165609-HT	10,7	21,4	32,0	37,4	48,1	53,4	58,7	82,2
AQ-202017P-HT	EFE-202017-HT	9,0	18,0	26,9	31,4	40,4	44,9	49,4	69,1
AR-203017P-HT	EFE-203017-HT	10,4	20,9	31,3	36,5	47,0	52,2	57,4	80,4
AQ-252612P-HT	EFE-252612-HT	9,4	18,8	28,2	32,9	42,4	47,1	51,8	72,5
AQ-252616P-HT	EFE-252616-HT	10,4	20,8	31,1	36,3	46,7	51,9	57,1	79,9
AR-254012P-HT	EFE-254012-HT	11,4	22,8	34,2	39,9	51,4	57,1	62,8	87,9
AR-254016P-HT	EFE-254016-HT	13,1	26,2	39,3	45,8	58,9	65,5	72,0	100,8
AR-256012P-HT	EFE-256012-HT	14,5	29,0	43,6	50,8	65,3	72,6	79,9	111,8
AR-304020P-HT	EFE-304020-HT	16,2	32,3	48,5	56,6	72,7	80,8	88,9	124,4
AQ-363609P-HT	EFE-363609-HT	11,5	23,0	34,6	40,3	51,8	57,6	63,4	88,7
AR-406025P-HT	EFE-406025-HT	25,2	50,3	75,5	88,1	113,3	125,8	138,4	193,8
AQ-414012P-HT	EFE-414012-HT	14,6	29,1	43,7	51,0	65,5	72,8	80,1	112,1
AQ-414020P-HT	EFE-414020-HT	18,3	36,6	55,0	64,1	82,4	91,6	100,8	141,1

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Enclosure types (polyester)		Maximum power dissipation (W) – Tamb. up to **55**°C							
		INTERNAL TEMP.65°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)	INTERNAL TEMP.127°C (T4/T135°C)
AQ-080806P-HT	EFE-080806-HT	1,7	2,6	4,4	5,2	7,0	7,8	8,7	12,5
AQ-080808P-HT	EFE-080808-HT	2,3	3,4	5,7	6,8	9,1	10,2	11,4	16,2
AR-081106P-HT	EFE-081106-HT	2,1	3,2	5,3	6,4	8,5	9,6	10,7	15,2
AR-081108P-HT	EFE-081108-HT	2,8	4,2	7,0	8,4	11,2	12,6	13,9	19,8
AR-081606P-HT	EFE-081606-HT	2,9	4,3	7,2	8,7	11,6	13,0	14,5	20,6
AR-081608P-HT	EFE-081608-HT	3,4	5,1	8,5	10,2	13,7	15,4	17,1	24,3
AR-081906P-HT	EFE-081906-HT	3,2	4,8	8,0	9,6	12,8	14,4	16,0	22,8
AR-081908P-HT	EFE-081908-HT	3,8	5,7	9,4	11,3	15,1	17,0	18,8	26,8
AR-082306P-HT	EFE-082306-HT	3,6	5,4	9,0	10,8	14,4	16,2	18,0	25,6
AR-082308P-HT	EFE-082308-HT	4,2	6,3	10,6	12,7	16,9	19,0	21,1	30,0
AQ-121209P-HT	EFE-121209-HT	4,0	6,0	10,0	12,0	15,9	17,9	19,9	28,3
AR-122209P-HT	EFE-122209-HT	5,4	8,1	13,5	16,2	21,6	24,3	27,0	38,3
AQ-161609P-HT	EFE-161609-HT	5,2	7,8	13,0	15,6	20,8	23,4	26,0	36,9
AR-162609P-HT	EFE-162609-HT	6,7	10,1	16,8	20,1	26,8	30,2	33,5	47,6
AR-163609P-HT	EFE-163609-HT	8,1	12,2	20,3	24,3	32,4	36,5	40,5	57,5
AR-165609P-HT	EFE-165609-HT	10,7	16,0	26,7	32,0	42,7	48,1	53,4	75,8
AQ-202017P-HT	EFE-202017-HT	9,0	13,5	22,4	26,9	35,9	40,4	44,9	63,7
AR-203017P-HT	EFE-203017-HT	10,4	15,7	26,1	31,3	41,7	47,0	52,2	74,0
AQ-252612P-HT	EFE-252612-HT	9,4	14,1	23,5	28,2	37,6	42,4	47,1	66,8
AQ-252616P-HT	EFE-252616-HT	10,4	15,6	26,0	31,1	41,5	46,7	51,9	73,7
AR-254012P-HT	EFE-254012-HT	11,4	17,1	28,5	34,2	45,7	51,4	57,1	81,0
AR-254016P-HT	EFE-254016-HT	13,1	19,6	32,7	39,3	52,4	58,9	65,5	92,9
AR-256012P-HT	EFE-256012-HT	14,5	21,8	36,3	43,6	58,1	65,3	72,6	103,0
AR-304020P-HT	EFE-304020-HT	16,2	24,2	40,4	48,5	64,7	72,7	80,8	114,7
AQ-363609P-HT	EFE-363609-HT	11,5	17,3	28,8	34,6	46,1	51,8	57,6	81,8
AR-406025P-HT	EFE-406025-HT	25,2	37,8	62,9	75,5	100,7	113,3	125,8	178,6
AQ-414012P-HT	EFE-414012-HT	14,6	21,8	36,4	43,7	58,2	65,5	72,8	103,0
AQ-414020P-HT	EFE-414020-HT	18,3	27,5	45,8	55,0	73,3	82,4	91,6	130,0

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Enclosure types (polyester)		Maximum power dissipation (W) – Tamb. up to **60**°C						
		INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)	INTERNAL TEMP.127°C (T4/T135°C)
AQ-080806P-HT	EFE-080806-HT	1,7	3,5	4,4	6,1	7,0	7,8	11,7
AQ-080808P-HT	EFE-080808-HT	2,3	4,6	5,7	8,0	9,1	10,2	15,2
AR-081106P-HT	EFE-081106-HT	2,1	4,3	5,3	7,5	8,5	9,6	14,3
AR-081108P-HT	EFE-081108-HT	2,8	5,6	7,0	9,8	11,2	12,6	18,7
AR-081606P-HT	EFE-081606-HT	2,9	5,8	7,2	10,1	11,6	13,0	19,4
AR-081608P-HT	EFE-081608-HT	3,4	6,8	8,5	11,9	13,7	15,4	22,9
AR-081906P-HT	EFE-081906-HT	3,2	6,4	8,0	11,2	12,8	14,4	21,4
AR-081908P-HT	EFE-081908-HT	3,8	7,5	9,4	13,2	15,1	17,0	25,3
AR-082306P-HT	EFE-082306-HT	3,6	7,2	9,0	12,6	14,4	16,2	24,1
AR-082308P-HT	EFE-082308-HT	4,2	8,5	10,6	14,8	16,9	19,0	28,3
AQ-121209P-HT	EFE-121209-HT	4,0	8,0	10,0	14,0	15,9	17,9	26,7
AR-122209P-HT	EFE-122209-HT	5,4	10,8	13,5	18,9	21,6	24,3	36,2
AQ-161609P-HT	EFE-161609-HT	5,2	10,4	13,0	18,2	20,8	23,4	34,8
AR-162609P-HT	EFE-162609-HT	6,7	13,4	16,8	23,5	26,8	30,2	44,9
AR-163609P-HT	EFE-163609-HT	8,1	16,2	20,3	28,4	32,4	36,5	54,2
AR-165609P-HT	EFE-165609-HT	10,7	21,4	26,7	37,4	42,7	48,1	71,5
AQ-202017P-HT	EFE-202017-HT	9,0	18,0	22,4	31,4	35,9	40,4	60,1
AR-203017P-HT	EFE-203017-HT	10,4	20,9	26,1	36,5	41,7	47,0	69,9
AQ-252612P-HT	EFE-252612-HT	9,4	18,8	23,5	32,9	37,6	42,4	63,0
AQ-252616P-HT	EFE-252616-HT	10,4	20,8	26,0	36,3	41,5	46,7	69,5
AR-254012P-HT	EFE-254012-HT	11,4	22,8	28,5	39,9	45,7	51,4	76,5
AR-254016P-HT	EFE-254016-HT	13,1	26,2	32,7	45,8	52,4	58,9	87,7
AR-256012P-HT	EFE-256012-HT	14,5	29,0	36,3	50,8	58,1	65,3	97,2
AR-304020P-HT	EFE-304020-HT	16,2	32,3	40,4	56,6	64,7	72,7	108,3
AQ-363609P-HT	EFE-363609-HT	11,5	23,0	28,8	40,3	46,1	51,8	77,1
AR-406025P-HT	EFE-406025-HT	25,2	50,3	62,9	88,1	100,7	113,3	168,7
AQ-414012P-HT	EFE-414012-HT	14,6	29,1	36,4	51,0	58,2	65,5	97,5
AQ-414020P-HT	EFE-414020-HT	18,3	36,6	45,8	64,1	73,3	82,4	122,7

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Enclosure types (polyester)		Maximum power dissipation (W) Tamb. up to **95**°C		
		INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)	INTERNAL TEMP.127°C (T4/T135°C)
AQ-080806P-HT	EFE-080806-HT	0,9	1,7	5,6
AQ-080808P-HT	EFE-080808-HT	1,1	2,3	7,3
AR-081106P-HT	EFE-081106-HT	1,1	2,1	6,5
AR-081108P-HT	EFE-081108-HT	1,4	2,8	9,0
AR-081606P-HT	EFE-081606-HT	1,4	2,9	9,2
AR-081608P-HT	EFE-081608-HT	1,7	3,4	10,9
AR-081906P-HT	EFE-081906-HT	1,6	3,2	10,2
AR-081908P-HT	EFE-081908-HT	1,9	3,8	12,1
AR-082306P-HT	EFE-082306-HT	1,8	3,6	11,5
AR-082308P-HT	EFE-082308-HT	2,1	4,2	13,5
AQ-121209P-HT	EFE-121209-HT	2,0	4,0	12,8
AR-122209P-HT	EFE-122209-HT	2,7	5,4	17,3
AQ-161609P-HT	EFE-161609-HT	2,6	5,2	16,6
AR-162609P-HT	EFE-162609-HT	3,4	6,7	21,5
AR-163609P-HT	EFE-163609-HT	4,1	8,1	26,0
AR-165609P-HT	EFE-165609-HT	5,3	10,7	34,2
AQ-202017P-HT	EFE-202017-HT	4,5	9,0	28,7
AR-203017P-HT	EFE-203017-HT	5,2	10,4	33,4
AQ-252612P-HT	EFE-252612-HT	4,7	9,4	30,1
AQ-252616P-HT	EFE-252616-HT	5,2	10,4	33,2
AR-254012P-HT	EFE-254012-HT	5,7	11,4	36,5
AR-254016P-HT	EFE-254016-HT	6,5	13,1	41,9
AR-256012P-HT	EFE-256012-HT	7,3	14,5	46,4
AR-304020P-HT	EFE-304020-HT	8,1	16,2	51,8
AQ-363609P-HT	EFE-363609-HT	5,8	11,5	36,8
AR-406025P-HT	EFE-406025-HT	12,6	25,2	80,6
AQ-414012P-HT	EFE-414012-HT	7,3	14,6	46,6
AQ-414020P-HT	EFE-414020-HT	9,2	18,3	58,6

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Power dissipation – HT aluminum alloy enclosures

Enclosure types (aluminium)		Maximum power dissipation (W) – Tamb. up to **40**°C							
		INTERNAL TEMP.60°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)	INTERNAL TEMP.130°C (T4/T135°C)
AQ-080806AL-HT	EFXE-080806AL-HT	5,2	7,8	10,4	11,7	14,3	15,6	16,9	23,4
AR-081306AL-HT	EFXE-081306AL-HT	7,0	10,6	14,1	15,9	19,4	21,2	23,0	31,8
AR-081806AL-HT	EFXE-081806AL-HT	8,9	13,3	17,8	20,0	24,5	26,7	28,9	40,0
AR-082505AL-HT	EFXE-082505AL-HT	10,9	16,4	21,9	24,7	30,1	32,9	35,6	49,4
AQ-101008AL-HT	EFXE-101008AL-HT	8,7	13,0	17,4	19,6	23,9	26,1	28,3	39,2
AR-101608AL-HT	EFXE-101608AL-HT	11,5	17,3	23,1	26,0	31,8	34,7	37,6	52,0
AR-102008AL-HT	EFXE-102008AL-HT	13,4	20,1	26,8	30,2	36,9	40,3	43,6	60,4
AQ-121208AL-HT	EFXE-121208AL-HT	10,8	16,2	21,6	24,3	29,7	32,4	35,1	48,6
AQ-121209AL-HT	EFXE-121209AL-HT	11,6	17,5	23,3	26,2	32,1	35,0	37,9	52,5
AR-122208AL-HT	EFXE-122208AL-HT	15,6	23,5	31,3	35,3	43,1	47,0	50,9	70,6
AR-122209AL-HT	EFXE-122209AL-HT	16,8	25,3	33,7	37,9	46,3	50,6	54,8	75,9
AR-123608AL-HT	EFXE-123608AL-HT	22,3	33,5	44,7	50,3	61,5	67,1	72,7	100,7
AQ-141409AL-HT	EFXE-141409AL-HT	13,7	20,6	27,5	31,0	37,9	41,3	44,8	62,0
AR-142009AL-HT	EFXE-142009AL-HT	17,1	25,7	34,2	38,5	47,1	51,4	55,7	77,1
AQ-161609AL-HT	EFXE-161609AL-HT	16,1	24,1	32,2	36,2	44,2	48,3	52,3	72,4
AR-162609AL-HT	EFXE-162609AL-HT	21,9	32,8	43,8	49,3	60,2	65,7	71,2	98,6
AR-163609AL-HT	EFXE-163609AL-HT	27,5	41,3	55,1	62,0	75,7	82,6	89,5	124,0
AR-165609AL-HT	EFXE-165609AL-HT	38,4	57,7	76,9	86,6	105,8	115,4	125,0	173,2
AQ-181810AL-HT	EFXE-181810AL-HT	19,7	29,6	39,5	44,4	54,3	59,2	64,2	88,8
AR-182810AL-HT	EFXE-182810AL-HT	26,1	39,1	52,2	58,7	71,8	78,3	84,8	117,5
AR-102311AL-HT	EFXE-102311AL-HT	18,2	27,3	36,5	41,0	50,1	54,7	59,3	82,1
AR-202311AL-HT	EFXE-202311AL-HT	26,1	39,1	52,2	58,7	71,7	78,3	84,8	117,4
AR-202318AL-HT	EFXE-202318AL-HT	35,9	53,9	71,8	80,8	98,8	107,8	116,8	161,7
AR-232811AL-HT	EFXE-232811AL-HT	31,6	47,5	63,3	71,3	87,1	95,0	103,0	142,6
AR-233311AL-HT	EFXE-233311AL-HT	35,3	52,9	70,6	79,4	97,0	105,9	114,7	158,8
AR-233318AL-HT	EFXE-233318AL-HT	47,5	71,3	95,1	107,0	130,8	142,7	154,6	214,1
AR-234011AL-HT	EFXE-234011AL-HT	40,2	60,4	80,5	90,6	110,7	120,8	130,9	181,2
AR-234023AL-HT	EFXE-234023AL-HT	62,2	93,3	124,5	140,0	171,2	186,7	202,3	280,1
AR-236011AL-HT	EFXE-236011AL-HT	54,1	81,2	108,3	121,9	148,9	162,5	176,0	243,8
AR-314011AL-HT	EFXE-314011AL-HT	48,6	72,9	97,2	109,3	133,6	145,8	157,9	218,7
AR-314014AL-HT	EFXE-314014AL-HT	54,9	82,4	109,9	123,7	151,2	164,9	178,7	247,4
AR-314018AL-HT	EFXE-314018AL-HT	63,8	95,7	127,6	143,5	175,4	191,4	207,3	287,1
AR-314023AL-HT	EFXE-314023AL-HT	73,5	110,3	147,1	165,5	202,3	220,7	239,1	331,0
AR-316011AL-HT	EFXE-316011AL-HT	64,0	96,0	128,1	144,1	176,1	192,1	208,1	288,2
AR-316018AL-HT	EFXE-316018AL-HT	82,7	124,1	165,5	186,2	227,6	248,3	268,9	372,4
AQ-606020AL-HT	EFXE-606020AL-HT	129,1	193,7	258,3	290,5	355,1	387,4	419,7	581,1

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Enclosure types (aluminium)		Maximum power dissipation (W) – Tamb. up to **50**°C							
		INTERNAL TEMP.60°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)	INTERNAL TEMP.130°C (T4/T135°C)
AQ-080806AL-HT	EFXE-080806AL-HT	2,6	5,2	7,8	9,1	11,7	13,0	14,3	20,8
AR-081306AL-HT	EFXE-081306AL-HT	3,5	7,0	10,6	12,3	15,9	17,7	19,4	28,3
AR-081806AL-HT	EFXE-081806AL-HT	4,4	8,9	13,3	15,5	20,0	22,2	24,5	35,6
AR-082505AL-HT	EFXE-082505AL-HT	5,4	10,9	16,4	19,2	24,7	27,4	30,1	43,9
AQ-101008AL-HT	EFXE-101008AL-HT	4,3	8,7	13,0	15,2	19,6	21,7	23,9	34,8
AR-101608AL-HT	EFXE-101608AL-HT	5,7	11,5	17,3	20,2	26,0	28,9	31,8	46,2
AR-102008AL-HT	EFXE-102008AL-HT	6,7	13,4	20,1	23,5	30,2	33,5	36,9	53,7
AQ-121208AL-HT	EFXE-121208AL-HT	5,4	10,8	16,2	18,9	24,3	27,0	29,7	43,2
AQ-121209AL-HT	EFXE-121209AL-HT	5,8	11,6	17,5	20,4	26,2	29,2	32,1	46,7
AR-122208AL-HT	EFXE-122208AL-HT	7,8	15,6	23,5	27,4	35,3	39,2	43,1	62,7
AR-122209AL-HT	EFXE-122209AL-HT	8,4	16,8	25,3	29,5	37,9	42,1	46,3	67,4
AR-123608AL-HT	EFXE-123608AL-HT	11,1	22,3	33,5	39,1	50,3	55,9	61,5	89,5
AQ-141409AL-HT	EFXE-141409AL-HT	6,8	13,7	20,6	24,1	31,0	34,4	37,9	55,1
AR-142009AL-HT	EFXE-142009AL-HT	8,5	17,1	25,7	30,0	38,5	42,8	47,1	68,5
AQ-161609AL-HT	EFXE-161609AL-HT	8,0	16,1	24,1	28,1	36,2	40,2	44,2	64,4
AR-162609AL-HT	EFXE-162609AL-HT	10,9	21,9	32,8	38,3	49,3	54,8	60,2	87,6
AR-163609AL-HT	EFXE-163609AL-HT	13,7	27,5	41,3	48,2	62,0	68,9	75,7	110,2
AR-165609AL-HT	EFXE-165609AL-HT	19,2	38,4	57,7	67,3	86,6	96,2	105,8	153,9
AQ-181810AL-HT	EFXE-181810AL-HT	9,8	19,7	29,6	34,5	44,4	49,3	54,3	79,0
AR-182810AL-HT	EFXE-182810AL-HT	13,0	26,1	39,1	45,7	58,7	65,2	71,8	104,4
AR-102311AL-HT	EFXE-102311AL-HT	9,1	18,2	27,3	31,9	41,0	45,6	50,1	73,0
AR-202311AL-HT	EFXE-202311AL-HT	13,0	26,1	39,1	45,6	58,7	65,2	71,7	104,4
AR-202318AL-HT	EFXE-202318AL-HT	17,9	35,9	53,9	62,8	80,8	89,8	98,8	143,7
AR-232811AL-HT	EFXE-232811AL-HT	15,8	31,6	47,5	55,4	71,3	79,2	87,1	126,7
AR-233311AL-HT	EFXE-233311AL-HT	17,6	35,3	52,9	61,7	79,4	88,2	97,0	141,2
AR-233318AL-HT	EFXE-233318AL-HT	23,7	47,5	71,3	83,2	107,0	118,9	130,8	190,3
AR-234011AL-HT	EFXE-234011AL-HT	20,1	40,2	60,4	70,5	90,6	100,7	110,7	161,1
AR-234023AL-HT	EFXE-234023AL-HT	31,1	62,2	93,3	108,9	140,0	155,6	171,2	249,0
AR-236011AL-HT	EFXE-236011AL-HT	27,0	54,1	81,2	94,8	121,9	135,4	148,9	216,7
AR-314011AL-HT	EFXE-314011AL-HT	24,3	48,6	72,9	85,0	109,3	121,5	133,6	194,4
AR-314014AL-HT	EFXE-314014AL-HT	27,4	54,9	82,4	96,2	123,7	137,4	151,2	219,9
AR-314018AL-HT	EFXE-314018AL-HT	31,9	63,8	95,7	111,6	143,5	159,5	175,4	255,2
AR-314023AL-HT	EFXE-314023AL-HT	36,7	73,5	110,3	128,7	165,5	183,9	202,3	294,2
AR-316011AL-HT	EFXE-316011AL-HT	32,0	64,0	96,0	112,0	144,1	160,1	176,1	256,2
AR-316018AL-HT	EFXE-316018AL-HT	41,3	82,7	124,1	144,8	186,2	206,9	227,6	331,0
AQ-606020AL-HT	EFXE-606020AL-HT	64,5	129,1	193,7	226,0	290,5	322,8	355,1	516,6

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Enclosure types (aluminium)		Maximum power dissipation (W) – Tamb. up to **55**°C							
		INTERNAL TEMP.65°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)	INTERNAL TEMP.130°C (T4/T135°C)
AQ-080806AL-HT	EFXE-080806AL-HT	2,6	3,9	6,5	7,8	10,4	11,7	13,0	19,5
AR-081306AL-HT	EFXE-081306AL-HT	3,5	5,3	8,8	10,6	14,1	15,9	17,7	26,5
AR-081806AL-HT	EFXE-081806AL-HT	4,4	6,6	11,1	13,3	17,8	20,0	22,2	33,4
AR-082505AL-HT	EFXE-082505AL-HT	5,4	8,2	13,7	16,4	21,9	24,7	27,4	41,1
AQ-101008AL-HT	EFXE-101008AL-HT	4,3	6,5	10,8	13,0	17,4	19,6	21,7	32,6
AR-101608AL-HT	EFXE-101608AL-HT	5,7	8,6	14,4	17,3	23,1	26,0	28,9	43,3
AR-102008AL-HT	EFXE-102008AL-HT	6,7	10,0	16,7	20,1	26,8	30,2	33,5	50,3
AQ-121208AL-HT	EFXE-121208AL-HT	5,4	8,1	13,5	16,2	21,6	24,3	27,0	40,5
AQ-121209AL-HT	EFXE-121209AL-HT	5,8	8,7	14,6	17,5	23,3	26,2	29,2	43,8
AR-122208AL-HT	EFXE-122208AL-HT	7,8	11,7	19,6	23,5	31,3	35,3	39,2	58,8
AR-122209AL-HT	EFXE-122209AL-HT	8,4	12,6	21,0	25,3	33,7	37,9	42,1	63,2
AR-123608AL-HT	EFXE-123608AL-HT	11,1	16,7	27,9	33,5	44,7	50,3	55,9	83,9
AQ-141409AL-HT	EFXE-141409AL-HT	6,8	10,3	17,2	20,6	27,5	31,0	34,4	51,7
AR-142009AL-HT	EFXE-142009AL-HT	8,5	12,8	21,4	25,7	34,2	38,5	42,8	64,3
AQ-161609AL-HT	EFXE-161609AL-HT	8,0	12,0	20,1	24,1	32,2	36,2	40,2	60,4
AR-162609AL-HT	EFXE-162609AL-HT	10,9	16,4	27,4	32,8	43,8	49,3	54,8	82,2
AR-163609AL-HT	EFXE-163609AL-HT	13,7	20,6	34,4	41,3	55,1	62,0	68,9	103,3
AR-165609AL-HT	EFXE-165609AL-HT	19,2	28,8	48,1	57,7	76,9	86,6	96,2	144,3
AQ-181810AL-HT	EFXE-181810AL-HT	9,8	14,8	24,6	29,6	39,5	44,4	49,3	74,0
AR-182810AL-HT	EFXE-182810AL-HT	13,0	19,5	32,6	39,1	52,2	58,7	65,2	97,9
AR-102311AL-HT	EFXE-102311AL-HT	9,1	13,6	22,8	27,3	36,5	41,0	45,6	68,4
AR-202311AL-HT	EFXE-202311AL-HT	13,0	19,5	32,6	39,1	52,2	58,7	65,2	97,9
AR-202318AL-HT	EFXE-202318AL-HT	17,9	26,9	44,9	53,9	71,8	80,8	89,8	134,7
AR-232811AL-HT	EFXE-232811AL-HT	15,8	23,7	39,6	47,5	63,3	71,3	79,2	118,8
AR-233311AL-HT	EFXE-233311AL-HT	17,6	26,4	44,1	52,9	70,6	79,4	88,2	132,3
AR-233318AL-HT	EFXE-233318AL-HT	23,7	35,6	59,4	71,3	95,1	107,0	118,9	178,4
AR-234011AL-HT	EFXE-234011AL-HT	20,1	30,2	50,3	60,4	80,5	90,6	100,7	151,0
AR-234023AL-HT	EFXE-234023AL-HT	31,1	46,6	77,8	93,3	124,5	140,0	155,6	233,4
AR-236011AL-HT	EFXE-236011AL-HT	27,0	40,6	67,7	81,2	108,3	121,9	135,4	203,1
AR-314011AL-HT	EFXE-314011AL-HT	24,3	36,4	60,7	72,9	97,2	109,3	121,5	182,3
AR-314014AL-HT	EFXE-314014AL-HT	27,4	41,2	68,7	82,4	109,9	123,7	137,4	206,2
AR-314018AL-HT	EFXE-314018AL-HT	31,9	47,8	79,7	95,7	127,6	143,5	159,5	239,2
AR-314023AL-HT	EFXE-314023AL-HT	36,7	55,1	91,9	110,3	147,1	165,5	183,9	275,8
AR-316011AL-HT	EFXE-316011AL-HT	32,0	48,0	80,0	96,0	128,1	144,1	160,1	240,1
AR-316018AL-HT	EFXE-316018AL-HT	41,3	62,0	103,4	124,1	165,5	186,2	206,9	310,3
AQ-606020AL-HT	EFXE-606020AL-HT	64,5	96,8	161,4	193,7	258,3	290,5	322,8	484,3

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Enclosure types (aluminium)		Maximum power dissipation (W) – Tamb. up to **60**°C						
		INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)	INTERNAL TEMP.130°C (T4/T135°C)
AQ-080806AL-HT	EFXE-080806AL-HT	2,6	5,2	6,5	9,1	10,4	11,7	18,2
AR-081306AL-HT	EFXE-081306AL-HT	3,5	7,0	8,8	12,3	14,1	15,9	24,7
AR-081806AL-HT	EFXE-081806AL-HT	4,4	8,9	11,1	15,5	17,8	20,0	31,1
AR-082505AL-HT	EFXE-082505AL-HT	5,4	10,9	13,7	19,2	21,9	24,7	38,4
AQ-101008AL-HT	EFXE-101008AL-HT	4,3	8,7	10,8	15,2	17,4	19,6	30,4
AR-101608AL-HT	EFXE-101608AL-HT	5,7	11,5	14,4	20,2	23,1	26,0	40,5
AR-102008AL-HT	EFXE-102008AL-HT	6,7	13,4	16,7	23,5	26,8	30,2	47,0
AQ-121208AL-HT	EFXE-121208AL-HT	5,4	10,8	13,5	18,9	21,6	24,3	37,8
AQ-121209AL-HT	EFXE-121209AL-HT	5,8	11,6	14,6	20,4	23,3	26,2	40,8
AR-122208AL-HT	EFXE-122208AL-HT	7,8	15,6	19,6	27,4	31,3	35,3	54,9
AR-122209AL-HT	EFXE-122209AL-HT	8,4	16,8	21,0	29,5	33,7	37,9	59,0
AR-123608AL-HT	EFXE-123608AL-HT	11,1	22,3	27,9	39,1	44,7	50,3	78,3
AQ-141409AL-HT	EFXE-141409AL-HT	6,8	13,7	17,2	24,1	27,5	31,0	48,2
AR-142009AL-HT	EFXE-142009AL-HT	8,5	17,1	21,4	30,0	34,2	38,5	60,0
AQ-161609AL-HT	EFXE-161609AL-HT	8,0	16,1	20,1	28,1	32,2	36,2	56,3
AR-162609AL-HT	EFXE-162609AL-HT	10,9	21,9	27,4	38,3	43,8	49,3	76,7
AR-163609AL-HT	EFXE-163609AL-HT	13,7	27,5	34,4	48,2	55,1	62,0	96,4
AR-165609AL-HT	EFXE-165609AL-HT	19,2	38,4	48,1	67,3	76,9	86,6	134,7
AQ-181810AL-HT	EFXE-181810AL-HT	9,8	19,7	24,6	34,5	39,5	44,4	69,1
AR-182810AL-HT	EFXE-182810AL-HT	13,0	26,1	32,6	45,7	52,2	58,7	91,4
AR-102311AL-HT	EFXE-102311AL-HT	9,1	18,2	22,8	31,9	36,5	41,0	63,8
AR-202311AL-HT	EFXE-202311AL-HT	13,0	26,1	32,6	45,6	52,2	58,7	91,3
AR-202318AL-HT	EFXE-202318AL-HT	17,9	35,9	44,9	62,8	71,8	80,8	125,7
AR-232811AL-HT	EFXE-232811AL-HT	15,8	31,6	39,6	55,4	63,3	71,3	110,9
AR-233311AL-HT	EFXE-233311AL-HT	17,6	35,3	44,1	61,7	70,6	79,4	123,5
AR-233318AL-HT	EFXE-233318AL-HT	23,7	47,5	59,4	83,2	95,1	107,0	166,5
AR-234011AL-HT	EFXE-234011AL-HT	20,1	40,2	50,3	70,5	80,5	90,6	141,0
AR-234023AL-HT	EFXE-234023AL-HT	31,1	62,2	77,8	108,9	124,5	140,0	217,9
AR-236011AL-HT	EFXE-236011AL-HT	27,0	54,1	67,7	94,8	108,3	121,9	189,6
AR-314011AL-HT	EFXE-314011AL-HT	24,3	48,6	60,7	85,0	97,2	109,3	170,1
AR-314014AL-HT	EFXE-314014AL-HT	27,4	54,9	68,7	96,2	109,9	123,7	192,4
AR-314018AL-HT	EFXE-314018AL-HT	31,9	63,8	79,7	111,6	127,6	143,5	223,3
AR-314023AL-HT	EFXE-314023AL-HT	36,7	73,5	91,9	128,7	147,1	165,5	257,4
AR-316011AL-HT	EFXE-316011AL-HT	32,0	64,0	80,0	112,0	128,1	144,1	224,1
AR-316018AL-HT	EFXE-316018AL-HT	41,3	82,7	103,4	144,8	165,5	186,2	289,6
AQ-606020AL-HT	EFXE-606020AL-HT	64,5	129,1	161,4	226,0	258,3	290,5	452,0

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Enclosure types (aluminium)		Maximum power dissipation (W) Tamb. up to **95**°C		
		INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)	INTERNAL TEMP.130°C (T4/T135°C)
AQ-080806AL-HT	EFXE-080806AL-HT	1,3	2,6	9,1
AR-081306AL-HT	EFXE-081306AL-HT	1,7	3,5	12,3
AR-081806AL-HT	EFXE-081806AL-HT	2,2	4,4	15,5
AR-082505AL-HT	EFXE-082505AL-HT	2,7	5,4	19,2
AQ-101008AL-HT	EFXE-101008AL-HT	2,1	4,3	15,2
AR-101608AL-HT	EFXE-101608AL-HT	2,8	5,7	20,2
AR-102008AL-HT	EFXE-102008AL-HT	3,3	6,7	23,5
AQ-121208AL-HT	EFXE-121208AL-HT	2,7	5,4	18,9
AQ-121209AL-HT	EFXE-121209AL-HT	2,9	5,8	20,4
AR-122208AL-HT	EFXE-122208AL-HT	3,9	7,8	27,4
AR-122209AL-HT	EFXE-122209AL-HT	4,2	8,4	29,5
AR-123608AL-HT	EFXE-123608AL-HT	5,5	11,1	39,1
AQ-141409AL-HT	EFXE-141409AL-HT	3,4	6,8	24,1
AR-142009AL-HT	EFXE-142009AL-HT	4,2	8,5	30,0
AQ-161609AL-HT	EFXE-161609AL-HT	4,0	8,0	28,1
AR-162609AL-HT	EFXE-162609AL-HT	5,4	10,9	38,3
AR-163609AL-HT	EFXE-163609AL-HT	6,8	13,7	48,2
AR-165609AL-HT	EFXE-165609AL-HT	9,6	19,2	67,3
AQ-181810AL-HT	EFXE-181810AL-HT	4,9	9,8	34,5
AR-182810AL-HT	EFXE-182810AL-HT	6,5	13,0	45,7
AR-102311AL-HT	EFXE-102311AL-HT	4,5	9,1	31,9
AR-202311AL-HT	EFXE-202311AL-HT	6,5	13,0	45,6
AR-202318AL-HT	EFXE-202318AL-HT	8,9	17,9	62,8
AR-232811AL-HT	EFXE-232811AL-HT	7,9	15,8	55,4
AR-233311AL-HT	EFXE-233311AL-HT	8,8	17,6	61,7
AR-233318AL-HT	EFXE-233318AL-HT	11,8	23,7	83,2
AR-234011AL-HT	EFXE-234011AL-HT	10,0	20,1	70,5
AR-234023AL-HT	EFXE-234023AL-HT	15,5	31,1	108,9
AR-236011AL-HT	EFXE-236011AL-HT	13,5	27,0	94,8
AR-314011AL-HT	EFXE-314011AL-HT	12,1	24,3	85,0
AR-314014AL-HT	EFXE-314014AL-HT	13,7	27,4	96,2
AR-314018AL-HT	EFXE-314018AL-HT	15,9	31,9	111,6
AR-314023AL-HT	EFXE-314023AL-HT	18,3	36,7	128,7
AR-316011AL-HT	EFXE-316011AL-HT	16,0	32,0	112,0
AR-316018AL-HT	EFXE-316018AL-HT	20,6	41,3	144,8
AQ-606020AL-HT	EFXE-606020AL-HT	32,2	64,5	226,0

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Power dissipation – Glass fiber reinforced polyester resin enclosures

Enclosure types (polyester)		Maximum power dissipation (W) – Tamb. up to **40**°C						
		INTERNAL TEMP.60°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
AQ-080806P	EFE-080806	3,4	5,2	6,9	7,8	9,5	10,4	11,3
AQ-080808P	EFE-080808	4,5	6,8	9,1	10,2	12,5	13,6	14,7
AR-081106P	EFE-081106	4,2	6,4	8,5	9,6	11,7	12,8	13,8
AR-081606P	EFE-081606	5,7	8,6	11,5	13,0	15,9	17,3	18,8
AR-081906P	EFE-081906	6,4	9,6	12,8	14,4	17,6	19,2	20,8
AQ-121209P	EFE-121209	7,9	11,9	15,9	17,9	21,9	23,9	25,9
AR-122209P	EFE-122209	10,8	16,2	21,6	24,3	29,7	32,4	35,1
AQ-161609P	EFE-161609	10,3	15,5	20,7	23,3	28,5	31,1	33,7
AR-162609P	EFE-162609	13,4	20,1	26,8	30,1	36,8	40,2	43,5
AR-163609P	EFE-163609	16,2	24,3	32,4	36,4	44,5	48,6	52,6
AQ-252612P	EFE-252612	18,8	28,2	37,6	42,3	51,7	56,4	61,1
AQ-252616P	EFE-252616	21,7	32,6	43,5	49,0	59,9	65,3	70,8
AR-254012P	EFE-254012	23,9	35,9	47,9	53,9	65,9	71,8	77,8
AR-254016P	EFE-254016	27,4	41,2	54,9	61,8	75,6	82,4	89,3
AR-256012P	EFE-256012	29,0	43,5	58,0	65,3	79,8	87,1	94,3
AQ-414012P	EFE-414012	29,1	43,6	58,2	65,5	80,0	87,3	94,6
AQ-414016P	EFE-414016	32,9	49,4	65,9	74,1	90,6	98,8	107,0

Enclosure types (polyester)		Maximum power dissipation (W) – Tamb. up to **50**°C						
		INTERNAL TEMP.60°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
AQ-080806P	EFE-080806	1,7	3,4	5,2	6,0	7,8	8,7	9,5
AQ-080808P	EFE-080808	2,2	4,5	6,8	7,9	10,2	11,3	12,5
AR-081106P	EFE-081106	2,1	4,2	6,4	7,4	9,6	10,6	11,7
AR-081606P	EFE-081606	2,8	5,7	8,6	10,1	13,0	14,4	15,9
AR-081906P	EFE-081906	3,2	6,4	9,6	11,2	14,4	16,0	17,6
AQ-121209P	EFE-121209	3,9	7,9	11,9	13,9	17,9	19,9	21,9
AR-122209P	EFE-122209	5,4	10,8	16,2	18,9	24,3	27,0	29,7
AQ-161609P	EFE-161609	5,1	10,3	15,5	18,1	23,3	25,9	28,5
AR-162609P	EFE-162609	6,7	13,4	20,1	23,4	30,1	33,5	36,8
AR-163609P	EFE-163609	8,1	16,2	24,3	28,3	36,4	40,5	44,5
AQ-252612P	EFE-252612	9,4	18,8	28,2	32,9	42,3	47,0	51,7
AQ-252616P	EFE-252616	10,8	21,7	32,6	38,1	49,0	54,4	59,9
AR-254012P	EFE-254012	11,9	23,9	35,9	41,9	53,9	59,9	65,9
AR-254016P	EFE-254016	13,7	27,4	41,2	48,1	61,8	68,7	75,6
AR-256012P	EFE-256012	14,5	29,0	43,5	50,8	65,3	72,6	79,8
AQ-414012P	EFE-414012	14,5	29,1	43,6	50,9	65,5	72,7	80,0
AQ-414016P	EFE-414016	16,4	32,9	49,4	57,6	74,1	82,3	90,6

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Enclosure types (polyester)		Maximum power dissipation (W) – Tamb. up to **55**°C						
		INTERNAL TEMP.65°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
AQ-080806P	EFE-080806	1,7	2,6	4,3	5,2	6,9	7,8	8,7
AQ-080808P	EFE-080808	2,2	3,4	5,6	6,8	9,1	10,2	11,3
AR-081106P	EFE-081106	2,1	3,2	5,3	6,4	8,5	9,6	10,6
AR-081606P	EFE-081606	2,8	4,3	7,2	8,6	11,5	13,0	14,4
AR-081906P	EFE-081906	3,2	4,8	8,0	9,6	12,8	14,4	16,0
AQ-121209P	EFE-121209	3,9	5,9	9,9	11,9	15,9	17,9	19,9
AR-122209P	EFE-122209	5,4	8,1	13,5	16,2	21,6	24,3	27,0
AQ-161609P	EFE-161609	5,1	7,7	12,9	15,5	20,7	23,3	25,9
AR-162609P	EFE-162609	6,7	10,0	16,7	20,1	26,8	30,1	33,5
AR-163609P	EFE-163609	8,1	12,1	20,2	24,3	32,4	36,4	40,5
AQ-252612P	EFE-252612	9,4	14,1	23,5	28,2	37,6	42,3	47,0
AQ-252616P	EFE-252616	10,8	16,3	27,2	32,6	43,5	49,0	54,4
AR-254012P	EFE-254012	11,9	17,9	29,9	35,9	47,9	53,9	59,9
AR-254016P	EFE-254016	13,7	20,6	34,3	41,2	54,9	61,8	68,7
AR-256012P	EFE-256012	14,5	21,7	36,3	43,5	58,0	65,3	72,6
AQ-414012P	EFE-414012	14,5	21,8	36,3	43,6	58,2	65,5	72,7
AQ-414016P	EFE-414016	16,4	24,7	41,1	49,4	65,9	74,1	82,3

Enclosure types (polyester)		Maximum power dissipation (W) – Tamb. up to **60**°C					
		INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
AQ-080806P	EFE-080806	1,7	3,4	4,3	6,0	6,9	7,8
AQ-080808P	EFE-080808	2,2	4,5	5,6	7,9	9,1	10,2
AR-081106P	EFE-081106	2,1	4,2	5,3	7,4	8,5	9,6
AR-081606P	EFE-081606	2,8	5,7	7,2	10,1	11,5	13,0
AR-081906P	EFE-081906	3,2	6,4	8,0	11,2	12,8	14,4
AQ-121209P	EFE-121209	3,9	7,9	9,9	13,9	15,9	17,9
AR-122209P	EFE-122209	5,4	10,8	13,5	18,9	21,6	24,3
AQ-161609P	EFE-161609	5,1	10,3	12,9	18,1	20,7	23,3
AR-162609P	EFE-162609	6,7	13,4	16,7	23,4	26,8	30,1
AR-163609P	EFE-163609	8,1	16,2	20,2	28,3	32,4	36,4
AQ-252612P	EFE-252612	9,4	18,8	23,5	32,9	37,6	42,3
AQ-252616P	EFE-252616	10,8	21,7	27,2	38,1	43,5	49,0
AR-254012P	EFE-254012	11,9	23,9	29,9	41,9	47,9	53,9
AR-254016P	EFE-254016	13,7	27,4	34,3	48,1	54,9	61,8
AR-256012P	EFE-256012	14,5	29,0	36,3	50,8	58,0	65,3
AQ-414012P	EFE-414012	14,5	29,1	36,3	50,9	58,2	65,5
AQ-414016P	EFE-414016	16,4	32,9	41,1	57,6	65,9	74,1

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Enclosure types (polyester)		Maximum power dissipation (W) – Tamb. up to **95**°C	
		INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
AQ-080806P	EFE-080806	0,8	1,7
AQ-080808P	EFE-080808	1,1	2,2
AR-081106P	EFE-081106	1,0	2,1
AR-081606P	EFE-081606	1,4	2,8
AR-081906P	EFE-081906	1,6	3,2
AQ-121209P	EFE-121209	1,9	3,9
AR-122209P	EFE-122209	2,7	5,4
AQ-161609P	EFE-161609	2,5	5,1
AR-162609P	EFE-162609	3,3	6,7
AR-163609P	EFE-163609	4,0	8,1
AQ-252612P	EFE-252612	4,7	9,4
AQ-252616P	EFE-252616	5,4	10,8
AR-254012P	EFE-254012	5,9	11,9
AR-254016P	EFE-254016	6,8	13,7
AR-256012P	EFE-256012	7,2	14,5
AQ-414012P	EFE-414012	7,2	14,5
AQ-414016P	EFE-414016	8,2	16,4

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Power dissipation – Aluminum alloy enclosures

Enclosure types (aluminium)		Maximum power dissipation (W) – Tamb. up to **40**°C						
		INTERNAL TEMP.60°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
AQ-080806AL	EFXE-080806AL	5,2	7,8	10,4	11,7	14,3	15,6	16,9
AR-081306AL	EFXE-081306AL	7,0	10,6	14,1	15,9	19,4	21,2	23,0
AR-081806AL	EFXE-081806AL	8,9	13,3	17,8	20,0	24,5	26,7	28,9
AR-081808AL	EFXE-081808AL	11,0	16,5	22,1	24,8	30,4	33,1	35,9
AR-082505AL	EFXE-082505AL	10,7	16,1	21,4	24,1	29,5	32,2	34,8
AR-082508AL	EFXE-082508AL	14,2	21,4	28,5	32,1	39,2	42,8	46,4
AQ-101008AL	EFXE-101008AL	8,7	13,0	17,4	19,6	23,9	26,1	28,3
AR-101508AL	EFXE-101508AL	11,1	16,6	22,2	24,9	30,5	33,3	36,0
AR-101608AL	EFXE-101608AL	11,5	17,3	23,1	26,0	31,8	34,7	37,6
AR-102008AL	EFXE-102008AL	13,4	20,1	26,8	30,2	36,9	40,3	43,6
AQ-121208AL	EFXE-121208AL	10,8	16,2	21,6	24,3	29,7	32,4	35,1
AR-122209AL	EFXE-122209AL	16,8	25,3	33,7	37,9	46,3	50,6	54,8
AQ-141409AL	EFXE-141409AL	13,7	20,6	27,5	31,0	37,9	41,3	44,8
AR-142009AL	EFXE-142009AL	17,1	25,7	34,2	38,5	47,1	51,4	55,7
AQ-161609AL	EFXE-161609AL	17,2	25,8	34,4	38,7	47,3	51,6	55,9
AR-162410AL	EFXE-162410AL	22,1	33,1	44,2	49,7	60,8	66,3	71,8
AR-162609AL	EFXE-162609AL	21,9	32,8	43,8	49,3	60,2	65,7	71,2
AQ-181810AL	EFXE-181810AL	19,7	29,6	39,5	44,4	54,3	59,2	64,2
AR-182810AL	EFXE-182810AL	26,1	39,1	52,2	58,7	71,8	78,3	84,8
AR-202311AL	EFXE-202311AL	25,8	38,7	51,6	58,0	71,0	77,4	83,9
AR-202318AL	EFXE-202318AL	35,5	53,3	71,1	80,0	97,8	106,7	115,6
AR-232811AL	EFXE-232811AL	31,6	47,5	63,3	71,3	87,1	95,0	103,0
AR-233312AL	EFXE-233312AL	37,0	55,6	74,1	83,4	101,9	111,2	120,5
AR-233318AL	EFXE-233318AL	47,5	71,3	95,1	107,0	130,8	142,7	154,6

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Enclosure types (aluminium)		Maximum power dissipation (W) – Tamb. up to **50**°C						
		INTERNAL TEMP.60°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
AQ-080806AL	EFXE-080806AL	2,6	5,2	7,8	9,1	11,7	13,0	14,3
AR-081306AL	EFXE-081306AL	3,5	7,0	10,6	12,3	15,9	17,7	19,4
AR-081806AL	EFXE-081806AL	4,4	8,9	13,3	15,5	20,0	22,2	24,5
AR-081808AL	EFXE-081808AL	5,5	11,0	16,5	19,3	24,8	27,6	30,4
AR-082505AL	EFXE-082505AL	5,3	10,7	16,1	18,7	24,1	26,8	29,5
AR-082508AL	EFXE-082508AL	7,1	14,2	21,4	24,9	32,1	35,7	39,2
AQ-101008AL	EFXE-101008AL	4,3	8,7	13,0	15,2	19,6	21,7	23,9
AR-101508AL	EFXE-101508AL	5,5	11,1	16,6	19,4	24,9	27,7	30,5
AR-101608AL	EFXE-101608AL	5,7	11,5	17,3	20,2	26,0	28,9	31,8
AR-102008AL	EFXE-102008AL	6,7	13,4	20,1	23,5	30,2	33,5	36,9
AQ-121208AL	EFXE-121208AL	5,4	10,8	16,2	18,9	24,3	27,0	29,7
AR-122209AL	EFXE-122209AL	8,4	16,8	25,3	29,5	37,9	42,1	46,3
AQ-141409AL	EFXE-141409AL	6,8	13,7	20,6	24,1	31,0	34,4	37,9
AR-142009AL	EFXE-142009AL	8,5	17,1	25,7	30,0	38,5	42,8	47,1
AQ-161609AL	EFXE-161609AL	8,6	17,2	25,8	30,1	38,7	43,0	47,3
AR-162410AL	EFXE-162410AL	11,0	22,1	33,1	38,7	49,7	55,3	60,8
AR-162609AL	EFXE-162609AL	10,9	21,9	32,8	38,3	49,3	54,8	60,2
AQ-181810AL	EFXE-181810AL	9,8	19,7	29,6	34,5	44,4	49,3	54,3
AR-182810AL	EFXE-182810AL	13,0	26,1	39,1	45,7	58,7	65,2	71,8
AR-202311AL	EFXE-202311AL	12,9	25,8	38,7	45,1	58,0	64,5	71,0
AR-202318AL	EFXE-202318AL	17,7	35,5	53,3	62,2	80,0	88,9	97,8
AR-232811AL	EFXE-232811AL	15,8	31,6	47,5	55,4	71,3	79,2	87,1
AR-233312AL	EFXE-233312AL	18,5	37,0	55,6	64,8	83,4	92,7	101,9
AR-233318AL	EFXE-233318AL	23,7	47,5	71,3	83,2	107,0	118,9	130,8

Enclosure types (aluminium)		Maximum power dissipation (W) – Tamb. up to **55**°C						
		INTERNAL TEMP.65°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
AQ-080806AL	EFXE-080806AL	2,6	3,9	6,5	7,8	10,4	11,7	13,0
AR-081306AL	EFXE-081306AL	3,5	5,3	8,8	10,6	14,1	15,9	17,7
AR-081806AL	EFXE-081806AL	4,4	6,6	11,1	13,3	17,8	20,0	22,2
AR-081808AL	EFXE-081808AL	5,5	8,2	13,8	16,5	22,1	24,8	27,6
AR-082505AL	EFXE-082505AL	5,3	8,0	13,4	16,1	21,4	24,1	26,8
AR-082508AL	EFXE-082508AL	7,1	10,7	17,8	21,4	28,5	32,1	35,7
AQ-101008AL	EFXE-101008AL	4,3	6,5	10,8	13,0	17,4	19,6	21,7
AR-101508AL	EFXE-101508AL	5,5	8,3	13,8	16,6	22,2	24,9	27,7
AR-101608AL	EFXE-101608AL	5,7	8,6	14,4	17,3	23,1	26,0	28,9
AR-102008AL	EFXE-102008AL	6,7	10,0	16,7	20,1	26,8	30,2	33,5
AQ-121208AL	EFXE-121208AL	5,4	8,1	13,5	16,2	21,6	24,3	27,0
AR-122209AL	EFXE-122209AL	8,4	12,6	21,0	25,3	33,7	37,9	42,1
AQ-141409AL	EFXE-141409AL	6,8	10,3	17,2	20,6	27,5	31,0	34,4
AR-142009AL	EFXE-142009AL	8,5	12,8	21,4	25,7	34,2	38,5	42,8
AQ-161609AL	EFXE-161609AL	8,6	12,9	21,5	25,8	34,4	38,7	43,0
AR-162410AL	EFXE-162410AL	11,0	16,5	27,6	33,1	44,2	49,7	55,3
AR-162609AL	EFXE-162609AL	10,9	16,4	27,4	32,8	43,8	49,3	54,8
AQ-181810AL	EFXE-181810AL	9,8	14,8	24,6	29,6	39,5	44,4	49,3
AR-182810AL	EFXE-182810AL	13,0	19,5	32,6	39,1	52,2	58,7	65,2
AR-202311AL	EFXE-202311AL	12,9	19,3	32,2	38,7	51,6	58,0	64,5
AR-202318AL	EFXE-202318AL	17,7	26,6	44,4	53,3	71,1	80,0	88,9
AR-232811AL	EFXE-232811AL	15,8	23,7	39,6	47,5	63,3	71,3	79,2
AR-233312AL	EFXE-233312AL	18,5	27,8	46,3	55,6	74,1	83,4	92,7
AR-233318AL	EFXE-233318AL	23,7	35,6	59,4	71,3	95,1	107,0	118,9

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Enclosure types (aluminium)		Maximum power dissipation (W) – Tamb. up to **60**°C					
		INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
AQ-080806AL	EFXE-080806AL	2,6	5,2	6,5	9,1	10,4	11,7
AR-081306AL	EFXE-081306AL	3,5	7,0	8,8	12,3	14,1	15,9
AR-081806AL	EFXE-081806AL	4,4	8,9	11,1	15,5	17,8	20,0
AR-081808AL	EFXE-081808AL	5,5	11,0	13,8	19,3	22,1	24,8
AR-082505AL	EFXE-082505AL	5,3	10,7	13,4	18,7	21,4	24,1
AR-082508AL	EFXE-082508AL	7,1	14,2	17,8	24,9	28,5	32,1
AQ-101008AL	EFXE-101008AL	4,3	8,7	10,8	15,2	17,4	19,6
AR-101508AL	EFXE-101508AL	5,5	11,1	13,8	19,4	22,2	24,9
AR-101608AL	EFXE-101608AL	5,7	11,5	14,4	20,2	23,1	26,0
AR-102008AL	EFXE-102008AL	6,7	13,4	16,7	23,5	26,8	30,2
AQ-121208AL	EFXE-121208AL	5,4	10,8	13,5	18,9	21,6	24,3
AR-122209AL	EFXE-122209AL	8,4	16,8	21,0	29,5	33,7	37,9
AQ-141409AL	EFXE-141409AL	6,8	13,7	17,2	24,1	27,5	31,0
AR-142009AL	EFXE-142009AL	8,5	17,1	21,4	30,0	34,2	38,5
AQ-161609AL	EFXE-161609AL	8,6	17,2	21,5	30,1	34,4	38,7
AR-162410AL	EFXE-162410AL	11,0	22,1	27,6	38,7	44,2	49,7
AR-162609AL	EFXE-162609AL	10,9	21,9	27,4	38,3	43,8	49,3
AQ-181810AL	EFXE-181810AL	9,8	19,7	24,6	34,5	39,5	44,4
AR-182810AL	EFXE-182810AL	13,0	26,1	32,6	45,7	52,2	58,7
AR-202311AL	EFXE-202311AL	12,9	25,8	32,2	45,1	51,6	58,0
AR-202318AL	EFXE-202318AL	17,7	35,5	44,4	62,2	71,1	80,0
AR-232811AL	EFXE-232811AL	15,8	31,6	39,6	55,4	63,3	71,3
AR-233312AL	EFXE-233312AL	18,5	37,0	46,3	64,8	74,1	83,4
AR-233318AL	EFXE-233318AL	23,7	47,5	59,4	83,2	95,1	107,0

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Enclosure types (aluminium)		Maximum power dissipation (W) – Tamb. up to **95**°C	
		INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
AQ-080806AL	EFXE-080806AL	1,3	2,6
AR-081306AL	EFXE-081306AL	1,7	3,5
AR-081806AL	EFXE-081806AL	2,2	4,4
AR-081808AL	EFXE-081808AL	2,7	5,5
AR-082505AL	EFXE-082505AL	2,6	5,3
AR-082508AL	EFXE-082508AL	3,5	7,1
AQ-101008AL	EFXE-101008AL	2,1	4,3
AR-101508AL	EFXE-101508AL	2,7	5,5
AR-101608AL	EFXE-101608AL	2,8	5,7
AR-102008AL	EFXE-102008AL	3,3	6,7
AQ-121208AL	EFXE-121208AL	2,7	5,4
AR-122209AL	EFXE-122209AL	4,2	8,4
AQ-141409AL	EFXE-141409AL	3,4	6,8
AR-142009AL	EFXE-142009AL	4,2	8,5
AQ-161609AL	EFXE-161609AL	4,3	8,6
AR-162410AL	EFXE-162410AL	5,5	11,0
AR-162609AL	EFXE-162609AL	5,4	10,9
AQ-181810AL	EFXE-181810AL	4,9	9,8
AR-182810AL	EFXE-182810AL	6,5	13,0
AR-202311AL	EFXE-202311AL	6,4	12,9
AR-202318AL	EFXE-202318AL	8,8	17,7
AR-232811AL	EFXE-232811AL	7,9	15,8
AR-233312AL	EFXE-233312AL	9,2	18,5
AR-233318AL	EFXE-233318AL	11,8	23,7

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Power dissipation – Stainless steel enclosures SB series

Enclosure types (stainless steel)		Maximum power dissipation (W) – Tamb. up to **40**°C						
		INTERNAL TEMP.60°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
SB-101210	EFXE-101210SB	5,5	8,3	11,1	12,5	15,3	16,7	18,1
SB-151510	EFXE-151510SB	8,0	12,0	16,0	18,0	22,0	24,0	26,1
SB-142013	EFXE-142013SB	10,4	15,7	20,9	23,5	28,8	31,4	34,0
SB-202010	EFXE-202010SB	10,7	16,1	21,4	24,1	29,5	32,2	34,8
SB-202016	EFXE-202016SB	13,9	20,8	27,8	31,3	38,3	41,7	45,2
SB-202713	EFXE-202713SB	14,4	21,6	28,9	32,5	39,7	43,3	46,9
SB-272713	EFXE-272713SB	16,7	25,1	33,5	37,7	46,0	50,2	54,4
SB-203016	EFXE-203016SB	17,1	25,7	34,3	38,6	47,2	51,4	55,7
SB-273513	EFXE-273513SB	19,2	28,9	38,5	43,3	53,0	57,8	62,6
SB-282816	EFXE-282816SB	19,3	29,0	38,7	43,6	53,3	58,1	63,0
SB-204016	EFXE-204016SB	20,2	30,3	40,4	45,5	55,6	60,6	65,7
SB-353516	EFXE-353516SB	24,4	36,6	48,8	54,9	67,1	73,2	79,3
SB-282827	EFXE-282827SB	26,2	39,3	52,5	59,0	72,2	78,7	85,3
SB-355016	EFXE-355016SB	29,7	44,5	59,4	66,8	81,7	89,1	96,6
SB-383816	EFXE-383816SB	26,6	39,9	53,2	59,8	73,1	79,8	86,5
SB-384516	EFXE-384516SB	29,1	43,7	58,3	65,6	80,2	87,5	94,8
SB-385716	EFXE-385716SB	33,4	50,1	66,8	75,2	91,9	100,3	108,7
SB-505016	EFXE-505016SB	35,8	53,8	71,7	80,7	98,6	107,6	116,6
SB-383827	EFXE-383827SB	35,1	52,7	70,2	79,0	96,6	105,4	114,2
SB-575716	EFXE-575716SB	41,5	62,3	83,1	93,5	114,3	124,7	135,1
SB-577620	EFXE-577620SB	53,9	80,9	107,9	121,3	148,3	161,8	175,3
SB-575730	EFXE-575730SB	55,8	83,7	111,6	125,6	153,5	167,5	181,4
SB-769520	EFXE-769520SB	72,2	108,3	144,4	162,4	198,5	216,6	234,6
SB-1258040	EFXE-1258040SB	72,2	108,3	144,4	162,4	198,5	216,6	234,6

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Enclosure types (Stainless steel)		Maximum power dissipation (W) – Tamb. up to **50**°C						
		INTERNAL TEMP.60°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
SB-101210	EFXE-101210SB	2,7	5,5	8,3	9,7	12,5	13,9	15,3
SB-151510	EFXE-151510SB	4,0	8,0	12,0	14,0	18,0	20,0	22,0
SB-142013	EFXE-142013SB	5,2	10,4	15,7	18,3	23,5	26,2	28,8
SB-202010	EFXE-202010SB	5,3	10,7	16,1	18,7	24,1	26,8	29,5
SB-202016	EFXE-202016SB	6,9	13,9	20,8	24,3	31,3	34,8	38,3
SB-202713	EFXE-202713SB	7,2	14,4	21,6	25,2	32,5	36,1	39,7
SB-272713	EFXE-272713SB	8,3	16,7	25,1	29,3	37,7	41,8	46,0
SB-203016	EFXE-203016SB	8,5	17,1	25,7	30,0	38,6	42,9	47,2
SB-273513	EFXE-273513SB	9,6	19,2	28,9	33,7	43,3	48,2	53,0
SB-282816	EFXE-282816SB	9,6	19,3	29,0	33,9	43,6	48,4	53,3
SB-204016	EFXE-204016SB	10,1	20,2	30,3	35,4	45,5	50,5	55,6
SB-353516	EFXE-353516SB	12,2	24,4	36,6	42,7	54,9	61,0	67,1
SB-282827	EFXE-282827SB	13,1	26,2	39,3	45,9	59,0	65,6	72,2
SB-355016	EFXE-355016SB	14,8	29,7	44,5	52,0	66,8	74,3	81,7
SB-383816	EFXE-383816SB	13,3	26,6	39,9	46,5	59,8	66,5	73,1
SB-384516	EFXE-384516SB	14,5	29,1	43,7	51,0	65,6	72,9	80,2
SB-385716	EFXE-385716SB	16,7	33,4	50,1	58,5	75,2	83,6	91,9
SB-505016	EFXE-505016SB	17,9	35,8	53,8	62,7	80,7	89,7	98,6
SB-383827	EFXE-383827SB	17,5	35,1	52,7	61,4	79,0	87,8	96,6
SB-575716	EFXE-575716SB	20,7	41,5	62,3	72,7	93,5	103,9	114,3
SB-577620	EFXE-577620SB	26,9	53,9	80,9	94,4	121,3	134,8	148,3
SB-575730	EFXE-575730SB	27,9	55,8	83,7	97,7	125,6	139,5	153,5
SB-769520	EFXE-769520SB	36,1	72,2	108,3	126,3	162,4	180,5	198,5
SB-1258040	EFXE-1258040SB	36,1	72,2	108,3	126,3	162,4	180,5	198,5

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Enclosure types (Stainless steel)		Maximum power dissipation (W) – Tamb. up to **55**°C						
		INTERNAL TEMP.65°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
SB-101210	EFXE-101210SB	2,7	4,1	6,9	8,3	11,1	12,5	13,9
SB-151510	EFXE-151510SB	4,0	6,0	10,0	12,0	16,0	18,0	20,0
SB-142013	EFXE-142013SB	5,2	7,8	13,1	15,7	20,9	23,5	26,2
SB-202010	EFXE-202010SB	5,3	8,0	13,4	16,1	21,4	24,1	26,8
SB-202016	EFXE-202016SB	6,9	10,4	17,4	20,8	27,8	31,3	34,8
SB-202713	EFXE-202713SB	7,2	10,8	18,0	21,6	28,9	32,5	36,1
SB-272713	EFXE-272713SB	8,3	12,5	20,9	25,1	33,5	37,7	41,8
SB-203016	EFXE-203016SB	8,5	12,8	21,4	25,7	34,3	38,6	42,9
SB-273513	EFXE-273513SB	9,6	14,4	24,1	28,9	38,5	43,3	48,2
SB-282816	EFXE-282816SB	9,6	14,5	24,2	29,0	38,7	43,6	48,4
SB-204016	EFXE-204016SB	10,1	15,1	25,2	30,3	40,4	45,5	50,5
SB-353516	EFXE-353516SB	12,2	18,3	30,5	36,6	48,8	54,9	61,0
SB-282827	EFXE-282827SB	13,1	19,6	32,8	39,3	52,5	59,0	65,6
SB-355016	EFXE-355016SB	14,8	22,2	37,1	44,5	59,4	66,8	74,3
SB-383816	EFXE-383816SB	13,3	19,9	33,2	39,9	53,2	59,8	66,5
SB-384516	EFXE-384516SB	14,5	21,8	36,4	43,7	58,3	65,6	72,9
SB-385716	EFXE-385716SB	16,7	25,0	41,8	50,1	66,8	75,2	83,6
SB-505016	EFXE-505016SB	17,9	26,9	44,8	53,8	71,7	80,7	89,7
SB-383827	EFXE-383827SB	17,5	26,3	43,9	52,7	70,2	79,0	87,8
SB-575716	EFXE-575716SB	20,7	31,1	51,9	62,3	83,1	93,5	103,9
SB-577620	EFXE-577620SB	26,9	40,4	67,4	80,9	107,9	121,3	134,8
SB-575730	EFXE-575730SB	27,9	41,8	69,7	83,7	111,6	125,6	139,5
SB-769520	EFXE-769520SB	36,1	54,1	90,2	108,3	144,4	162,4	180,5
SB-1258040	EFXE-1258040SB	36,1	54,1	90,2	108,3	144,4	162,4	180,5

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Enclosure types (Stainless steel)		Maximum power dissipation (W) – Tamb. up to **60**°C					
		INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
SB-101210	EFXE-101210SB	2,7	5,5	6,9	9,7	11,1	12,5
SB-151510	EFXE-151510SB	4,0	8,0	10,0	14,0	16,0	18,0
SB-142013	EFXE-142013SB	5,2	10,4	13,1	18,3	20,9	23,5
SB-202010	EFXE-202010SB	5,3	10,7	13,4	18,7	21,4	24,1
SB-202016	EFXE-202016SB	6,9	13,9	17,4	24,3	27,8	31,3
SB-202713	EFXE-202713SB	7,2	14,4	18,0	25,2	28,9	32,5
SB-272713	EFXE-272713SB	8,3	16,7	20,9	29,3	33,5	37,7
SB-203016	EFXE-203016SB	8,5	17,1	21,4	30,0	34,3	38,6
SB-273513	EFXE-273513SB	9,6	19,2	24,1	33,7	38,5	43,3
SB-282816	EFXE-282816SB	9,6	19,3	24,2	33,9	38,7	43,6
SB-204016	EFXE-204016SB	10,1	20,2	25,2	35,4	40,4	45,5
SB-353516	EFXE-353516SB	12,2	24,4	30,5	42,7	48,8	54,9
SB-282827	EFXE-282827SB	13,1	26,2	32,8	45,9	52,5	59,0
SB-355016	EFXE-355016SB	14,8	29,7	37,1	52,0	59,4	66,8
SB-383816	EFXE-383816SB	13,3	26,6	33,2	46,5	53,2	59,8
SB-384516	EFXE-384516SB	14,5	29,1	36,4	51,0	58,3	65,6
SB-385716	EFXE-385716SB	16,7	33,4	41,8	58,5	66,8	75,2
SB-505016	EFXE-505016SB	17,9	35,8	44,8	62,7	71,7	80,7
SB-383827	EFXE-383827SB	17,5	35,1	43,9	61,4	70,2	79,0
SB-575716	EFXE-575716SB	20,7	41,5	51,9	72,7	83,1	93,5
SB-577620	EFXE-577620SB	26,9	53,9	67,4	94,4	107,9	121,3
SB-575730	EFXE-575730SB	27,9	55,8	69,7	97,7	111,6	125,6
SB-769520	EFXE-769520SB	36,1	72,2	90,2	126,3	144,4	162,4
SB-1258040	EFXE-1258040SB	36,1	72,2	90,2	126,3	144,4	162,4

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Enclosure types (Stainless steel)		Maximum power dissipation (W) – Tamb. up to **95**°C	
		INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
SB-101210	EFXE-101210SB	1,3	2,7
SB-151510	EFXE-151510SB	2,0	4,0
SB-142013	EFXE-142013SB	2,6	5,2
SB-202010	EFXE-202010SB	2,6	5,3
SB-202016	EFXE-202016SB	3,4	6,9
SB-202713	EFXE-202713SB	3,6	7,2
SB-272713	EFXE-272713SB	4,1	8,3
SB-203016	EFXE-203016SB	4,2	8,5
SB-273513	EFXE-273513SB	4,8	9,6
SB-282816	EFXE-282816SB	4,8	9,6
SB-204016	EFXE-204016SB	5,0	10,1
SB-353516	EFXE-353516SB	6,1	12,2
SB-282827	EFXE-282827SB	6,5	13,1
SB-355016	EFXE-355016SB	7,4	14,8
SB-383816	EFXE-383816SB	6,6	13,3
SB-384516	EFXE-384516SB	7,2	14,5
SB-385716	EFXE-385716SB	8,3	16,7
SB-505016	EFXE-505016SB	8,9	17,9
SB-383827	EFXE-383827SB	8,7	17,5
SB-575716	EFXE-575716SB	10,3	20,7
SB-577620	EFXE-577620SB	13,4	26,9
SB-575730	EFXE-575730SB	13,9	27,9
SB-769520	EFXE-769520SB	18,0	36,1
SB-1258040	EFXE-1258040SB	18,0	36,1

Power dissipation – Stainless steel enclosures ST series

Enclosure types (Stainless steel)		Maximum power dissipation (W) – Tamb. up to **40**°C						
		INTERNAL TEMP.60°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
ST-101210	EFXE-101210ST	5,5	8,3	11,1	12,5	15,3	16,7	18,1
ST-151510	EFXE-151510ST	8,0	12,0	16,0	18,0	22,0	24,0	26,1
ST-142013	EFXE-142013ST	10,4	15,7	20,9	23,5	28,8	31,4	34,0
ST-202010	EFXE-202010ST	10,7	16,1	21,4	24,1	29,5	32,2	34,8
ST-202016	EFXE-202016ST	13,9	20,8	27,8	31,3	38,3	41,7	45,2
ST-202713	EFXE-202713ST	14,4	21,6	28,9	32,5	39,7	43,3	46,9
ST-272713	EFXE-272713ST	16,7	25,1	33,5	37,7	46,0	50,2	54,4
ST-203016	EFXE-203016ST	17,1	25,7	34,3	38,6	47,2	51,4	55,7
ST-273513	EFXE-273513ST	19,2	28,9	38,5	43,3	53,0	57,8	62,6
ST-282816	EFXE-282816ST	19,3	29,0	38,7	43,6	53,3	58,1	63,0
ST-204016	EFXE-204016ST	20,2	30,3	40,4	45,5	55,6	60,6	65,7
ST-353516	EFXE-353516ST	24,4	36,6	48,8	54,9	67,1	73,2	79,3
ST-282827	EFXE-282827ST	26,2	39,3	52,5	59,0	72,2	78,7	85,3
ST-355016	EFXE-355016ST	29,7	44,5	59,4	66,8	81,7	89,1	96,6
ST-383816	EFXE-383816ST	26,6	39,9	53,2	59,8	73,1	79,8	86,5
ST-384516	EFXE-384516ST	29,1	43,7	58,3	65,6	80,2	87,5	94,8
ST-385716	EFXE-385716ST	33,4	50,1	66,8	75,2	91,9	100,3	108,7
ST-505016	EFXE-505016ST	35,8	53,8	71,7	80,7	98,6	107,6	116,6
ST-383827	EFXE-383827ST	35,1	52,7	70,2	79,0	96,6	105,4	114,2
ST-575716	EFXE-575716ST	41,5	62,3	83,1	93,5	114,3	124,7	135,1
ST-577620	EFXE-577620ST	53,9	80,9	107,9	121,3	148,3	161,8	175,3
ST-575730	EFXE-575730ST	55,8	83,7	111,6	125,6	153,5	167,5	181,4
ST-769520	EFXE-769520ST	72,2	108,3	144,4	162,4	198,5	216,6	234,6
ST-1258040	EFXE-1258040ST	72,2	108,3	144,4	162,4	198,5	216,6	234,6

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Enclosure types (Stainless steel)		Maximum power dissipation (W) – Tamb. up to **50**°C						
		INTERNAL TEMP.60°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
ST-101210	EFXE-101210ST	2,7	5,5	8,3	9,7	12,5	13,9	15,3
ST-151510	EFXE-151510ST	4,0	8,0	12,0	14,0	18,0	20,0	22,0
ST-142013	EFXE-142013ST	5,2	10,4	15,7	18,3	23,5	26,2	28,8
ST-202010	EFXE-202010ST	5,3	10,7	16,1	18,7	24,1	26,8	29,5
ST-202016	EFXE-202016ST	6,9	13,9	20,8	24,3	31,3	34,8	38,3
ST-202713	EFXE-202713ST	7,2	14,4	21,6	25,2	32,5	36,1	39,7
ST-272713	EFXE-272713ST	8,3	16,7	25,1	29,3	37,7	41,8	46,0
ST-203016	EFXE-203016ST	8,5	17,1	25,7	30,0	38,6	42,9	47,2
ST-273513	EFXE-273513ST	9,6	19,2	28,9	33,7	43,3	48,2	53,0
ST-282816	EFXE-282816ST	9,6	19,3	29,0	33,9	43,6	48,4	53,3
ST-204016	EFXE-204016ST	10,1	20,2	30,3	35,4	45,5	50,5	55,6
ST-353516	EFXE-353516ST	12,2	24,4	36,6	42,7	54,9	61,0	67,1
ST-282827	EFXE-282827ST	13,1	26,2	39,3	45,9	59,0	65,6	72,2
ST-355016	EFXE-355016ST	14,8	29,7	44,5	52,0	66,8	74,3	81,7
ST-383816	EFXE-383816ST	13,3	26,6	39,9	46,5	59,8	66,5	73,1
ST-384516	EFXE-384516ST	14,5	29,1	43,7	51,0	65,6	72,9	80,2
ST-385716	EFXE-385716ST	16,7	33,4	50,1	58,5	75,2	83,6	91,9
ST-505016	EFXE-505016ST	17,9	35,8	53,8	62,7	80,7	89,7	98,6
ST-383827	EFXE-383827ST	17,5	35,1	52,7	61,4	79,0	87,8	96,6
ST-575716	EFXE-575716ST	20,7	41,5	62,3	72,7	93,5	103,9	114,3
ST-577620	EFXE-577620ST	26,9	53,9	80,9	94,4	121,3	134,8	148,3
ST-575730	EFXE-575730ST	27,9	55,8	83,7	97,7	125,6	139,5	153,5
ST-769520	EFXE-769520ST	36,1	72,2	108,3	126,3	162,4	180,5	198,5
ST-1258040	EFXE-1258040ST	36,1	72,2	108,3	126,3	162,4	180,5	198,5

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Enclosure types (Stainless steel)		Maximum power dissipation (W) – Tamb. up to **55**°C						
		INTERNAL TEMP.65°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
ST-101210	EFXE-101210ST	2,7	4,1	6,9	8,3	11,1	12,5	13,9
ST-151510	EFXE-151510ST	4,0	6,0	10,0	12,0	16,0	18,0	20,0
ST-142013	EFXE-142013ST	5,2	7,8	13,1	15,7	20,9	23,5	26,2
ST-202010	EFXE-202010ST	5,3	8,0	13,4	16,1	21,4	24,1	26,8
ST-202016	EFXE-202016ST	6,9	10,4	17,4	20,8	27,8	31,3	34,8
ST-202713	EFXE-202713ST	7,2	10,8	18,0	21,6	28,9	32,5	36,1
ST-272713	EFXE-272713ST	8,3	12,5	20,9	25,1	33,5	37,7	41,8
ST-203016	EFXE-203016ST	8,5	12,8	21,4	25,7	34,3	38,6	42,9
ST-273513	EFXE-273513ST	9,6	14,4	24,1	28,9	38,5	43,3	48,2
ST-282816	EFXE-282816ST	9,6	14,5	24,2	29,0	38,7	43,6	48,4
ST-204016	EFXE-204016ST	10,1	15,1	25,2	30,3	40,4	45,5	50,5
ST-353516	EFXE-353516ST	12,2	18,3	30,5	36,6	48,8	54,9	61,0
ST-282827	EFXE-282827ST	13,1	19,6	32,8	39,3	52,5	59,0	65,6
ST-355016	EFXE-355016ST	14,8	22,2	37,1	44,5	59,4	66,8	74,3
ST-383816	EFXE-383816ST	13,3	19,9	33,2	39,9	53,2	59,8	66,5
ST-384516	EFXE-384516ST	14,5	21,8	36,4	43,7	58,3	65,6	72,9
ST-385716	EFXE-385716ST	16,7	25,0	41,8	50,1	66,8	75,2	83,6
ST-505016	EFXE-505016ST	17,9	26,9	44,8	53,8	71,7	80,7	89,7
ST-383827	EFXE-383827ST	17,5	26,3	43,9	52,7	70,2	79,0	87,8
ST-575716	EFXE-575716ST	20,7	31,1	51,9	62,3	83,1	93,5	103,9
ST-577620	EFXE-577620ST	26,9	40,4	67,4	80,9	107,9	121,3	134,8
ST-575730	EFXE-575730ST	27,9	41,8	69,7	83,7	111,6	125,6	139,5
ST-769520	EFXE-769520ST	36,1	54,1	90,2	108,3	144,4	162,4	180,5
ST-1258040	EFXE-1258040ST	36,1	54,1	90,2	108,3	144,4	162,4	180,5

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Enclosure types (Stainless steel)		Maximum power dissipation (W) – Tamb. up to **60**°C					
		INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
ST-101210	EFXE-101210ST	2,7	5,5	6,9	9,7	11,1	12,5
ST-151510	EFXE-151510ST	4,0	8,0	10,0	14,0	16,0	18,0
ST-142013	EFXE-142013ST	5,2	10,4	13,1	18,3	20,9	23,5
ST-202010	EFXE-202010ST	5,3	10,7	13,4	18,7	21,4	24,1
ST-202016	EFXE-202016ST	6,9	13,9	17,4	24,3	27,8	31,3
ST-202713	EFXE-202713ST	7,2	14,4	18,0	25,2	28,9	32,5
ST-272713	EFXE-272713ST	8,3	16,7	20,9	29,3	33,5	37,7
ST-203016	EFXE-203016ST	8,5	17,1	21,4	30,0	34,3	38,6
ST-273513	EFXE-273513ST	9,6	19,2	24,1	33,7	38,5	43,3
ST-282816	EFXE-282816ST	9,6	19,3	24,2	33,9	38,7	43,6
ST-204016	EFXE-204016ST	10,1	20,2	25,2	35,4	40,4	45,5
ST-353516	EFXE-353516ST	12,2	24,4	30,5	42,7	48,8	54,9
ST-282827	EFXE-282827ST	13,1	26,2	32,8	45,9	52,5	59,0
ST-355016	EFXE-355016ST	14,8	29,7	37,1	52,0	59,4	66,8
ST-383816	EFXE-383816ST	13,3	26,6	33,2	46,5	53,2	59,8
ST-384516	EFXE-384516ST	14,5	29,1	36,4	51,0	58,3	65,6
ST-385716	EFXE-385716ST	16,7	33,4	41,8	58,5	66,8	75,2
ST-505016	EFXE-505016ST	17,9	35,8	44,8	62,7	71,7	80,7
ST-383827	EFXE-383827ST	17,5	35,1	43,9	61,4	70,2	79,0
ST-575716	EFXE-575716ST	20,7	41,5	51,9	72,7	83,1	93,5
ST-577620	EFXE-577620ST	26,9	53,9	67,4	94,4	107,9	121,3
ST-575730	EFXE-575730ST	27,9	55,8	69,7	97,7	111,6	125,6
ST-769520	EFXE-769520ST	36,1	72,2	90,2	126,3	144,4	162,4
ST-1258040	EFXE-1258040ST	36,1	72,2	90,2	126,3	144,4	162,4

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Enclosure types (Stainless steel)		Maximum power dissipation (W) – Tamb. up to **95**°C	
		INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
ST-101210	EFXE-101210ST	1,3	2,7
ST-151510	EFXE-151510ST	2,0	4,0
ST-142013	EFXE-142013ST	2,6	5,2
ST-202010	EFXE-202010ST	2,6	5,3
ST-202016	EFXE-202016ST	3,4	6,9
ST-202713	EFXE-202713ST	3,6	7,2
ST-272713	EFXE-272713ST	4,1	8,3
ST-203016	EFXE-203016ST	4,2	8,5
ST-273513	EFXE-273513ST	4,8	9,6
ST-282816	EFXE-282816ST	4,8	9,6
ST-204016	EFXE-204016ST	5,0	10,1
ST-353516	EFXE-353516ST	6,1	12,2
ST-282827	EFXE-282827ST	6,5	13,1
ST-355016	EFXE-355016ST	7,4	14,8
ST-383816	EFXE-383816ST	6,6	13,3
ST-384516	EFXE-384516ST	7,2	14,5
ST-385716	EFXE-385716ST	8,3	16,7
ST-505016	EFXE-505016ST	8,9	17,9
ST-383827	EFXE-383827ST	8,7	17,5
ST-575716	EFXE-575716ST	10,3	20,7
ST-577620	EFXE-577620ST	13,4	26,9
ST-575730	EFXE-575730ST	13,9	27,9
ST-769520	EFXE-769520ST	18,0	36,1
ST-1258040	EFXE-1258040ST	18,0	36,1

Maximum Power Dissipation calculation

The values specified in the tables as per clause 2.1.1 may be modified within the maximum admitted Tamb and maximum admitted internal temperature as follows.

$$Pdiss\ (W) = \frac{Tmax - Tamb}{Rth}$$

$Rth = A \times (\text{enclosure surface in } mm^2 \text{ except enclosure bottom})^B$

Legend:
Rth – Thermal resistance [K/W].
Tmax – Maximum allowed temperature inside enclosure.
Tamb – Ambient temperature of enclosure
A and B - coefficients determined for each series o enclosure. Exact values are given in manufacturer's documentation.

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[16] Confidential Report No. FIDI 21 CR 075

[16.1] Routine testing

Junction boxes, local control stations and local control panels fitted with wiring, shall be subject to a routine dielectric strength test according to the clause 7.1 of IEC 60079-7.

[17] Specific Conditions of Use

- Enclosures marked with warning label: "WARNING – POTENTIAL ELECTROSTATIC CHARGING HAZARD – SEE INSTRUCTIONS" must be cleaned only by damp cloth or antistatic products.
- Apparatus equipped with drain / venting valve Technor Italsmea model ECR3:
  - the valve cannot be open when an explosive dust atmosphere is present.
  - The valve can be open when an explosive gas atmosphere is present: when open, the equipment reaches the protection degree IP44.
  - When the valve is left in open position, it should be protected from light exposure.
- On the intrinsic safety terminals, the user must only connect devices with compatible intrinsic safety parameters according to EN 60079-14.

[18] Essential Health and Safety Requirements

Covered by the conformity with harmonized standards listed under item 9.

[19] Drawings and Documents

Title:	Drawing No.:	Rev. level:	Date:
Technical note	TN2111	0	17.11.2021
Instruction for use	TN2111 Annex A	0	08.11.2021
Apparatus list	TN2111 Annex B	0	17.11.2021
Drawings:			
Cable entries, plug, adaptors coupling systems	AC2111, sheet 1	0	10.11.2021
Example of operator arrangements for AQ-AR-EFE	AC2111, sheet 2	0	10.11.2021
Example of operator arrangements for SB-ST-EFEXE	AC2111, sheet 3	0	10.11.2021
Example terminals and earth bus bar	AC2111, sheet 4	0	10.11.2021
Drain / breath device type ECR3	AC2111, sheet 5	0	10.11.2021
Marking label SB..., ST..., AQ..., AR...	AC2111, sheet 6	0	10.11.2021
Marking label SB..., ST..., AQ..., AR...	AC2111, sheet 7	0	10.11.2021

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[1] **SUPPLEMENTARY EU – TYPE EXAMINATION CERTIFICATE**

[2] Equipment or Protective Systems Intended for use in Potentially Explosive Atmospheres Directive 2014/34/EU.

[3] Supplementary EU-Type Examination Certificate Number: **FIDI 21 ATEX 0090X/1**

[4] Product: **Junction boxes, local control stations and local control panels**

Type: **AQ-***P / AQ-***AL / AR-***P / AR-***AL**
AQ-*P-HT / AQ-***AL-HT / AR-***P-HT / AR-***AL-HT**
SB-* / ST-***
EFE-* / EFXE-*** AL/ EFXE-***SB / EFXE-***ST**
EFE-*-HT / EFXE-***AL-HT**

[5] Manufacturer: **Technor Italsmea S.p.A.**

[6] Address: **Via Italia 33, 20060 Gessate (MI), Italy**

[7] This supplementary certificate extends EU – Type Examination Certificate to apply to product designed and constructed in accordance with the specification set out in the Schedule of the said certificate but having any variations specified in the Schedule to this certificate and the documents therein referred to.

[8] FIDITAS Ltd., Notified Body number 2829 in accordance with Article 17 of Directive 2014/34/EU of the European Parliament and of the Council, dated 26 February 2014, certifies that this product has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of products intended for use in potentially explosive atmospheres given in Annex II of the Directive.

[9] The examination and test results are recorded in confidential Report No: **FIDI 23 CR 019**

[10] The marking of the product shall include the following:

II 1 G	**Ex ia IIC/IIB T6...T4 Ga**(2) or
II 2(1) G or **II 2(2) G**	**Ex db eb ia/ib mb [**(3)**] IIC/IIB T6...T4 Gb**(1) or
II 2 G	**Ex eb IIC/IIB T6...T4 Gb**(1) or
II 2 D	**Ex tb IIIC T85°C...T135°C Db**

(1) Others type of protection additional to 'eb' depending to the components actually mounted.

(2) In case of enclosures containing 'eb' terminals and/or 'ia Ga' already certified components (with compatible marking) only.

(3) Associated equipment protection depending on the components actually mounted (see lists): e.g. [ia/ib/ia Ga/ia IIIC Da] and/or [ia IIIC Da] or [ia/ib/ia Ga/ia IIIC Da] and/or [ia/ib/ia Ga] [ia IIIC Da]

FIDITAS Ltd.
Certification department
Approved:

Marino Kelava, M.E.Eng.

Our ref.: 23.CRT.071

Date: 19.04.2023

Fiditas d.o.o. ZAGREB

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[11] **SCHEDULE**

[12] **SUPPLEMENTARY EU - TYPE EXAMINATION CERTIFICATE No.: FIDI 21 ATEX 0090X /1**

[13] Description of the variation to the Product

New Ex products added:

- Surge voltage protection unit type: PLUGTRAB PT2 or PT4 – PHOENIX CONTACT; II 1G> Ex ia IIC T4...T6 Ga; KEMA 00 ATEX 1099X;
- SITRANS TH230/420, type: 7NG0317, 0310; 0410 TR320/TR420 7NG0327; 7NG0320; TYPE 7NG0420; Siemens AG; II 1G Ex ia IIC T6...T4 Ga; II 2(1)G Ex ib [ia Ga] IIC T6...T4 Gb; DEKRA 17 ATEX 0116X
- Enhanced Model 644 Temperature Transmitter, ROSEMOUNT INCORPORATED, II 1G Ex ia IIC T6...T4 Ga; DEKRA 21ATEX0003X,
- Temperature Transmitter type: 5434D; 5431D; 6431D; 5435D; 5437D; 5437D; 5437B; 6437D, II 1G Ex ia IIC T6...T4 Ga; II 2(1)G Ex ib [ia Ga] IIC T6...T4 Gb; DEKRA 16 ATEX 0047X,
- Controls Units and / or Junction Boxes Type: GUB..., TECHNOR ITALSMEA; II 2G Ex db (*) IIC T(*) Gb; INERIS 22 ATEX 0008X
- Cable Transit Device type: CF 8 Ex, CF 32 Ex, CF 16 Ex, C RS T...Ex, RS..B Ex, SF...Ex, SFX...B Ex, B...B Ex, R...B Ex and RO...B; ROXTEC INTERNATIONAL AB, II 2G Ex e IIC Gb, II 2D Ex tb IIC Db; NEMKO 12 ATEX 1278X
- Cable Transit Device type: HD 16 Ex, HD 24 Ex, HD 32 Ex and HDLC Ex, ROXTEC INTERNATIONAL AB, II 2G Ex eb IIC Gb, II 2D Ex tb IIIC Db, PRESAFE 15 ATEX 6419X
- Control stations and junction boxes type: CP..., TECHNOR ITALSMEA, II 2G Ex db IIC T6 or T5 or T4 Gb or II 2(1)G Ex db [ia Ga] IIC T6 Gb(***) or II 2(2)G Ex db [ib] IIC T6 Gb (***); INERIS 03 ATEX 0009X
- Industrial plug and socket type: DXN1, MARECHAL ELECTRIC, II 2G Ex db eb IIC T5 or T6; II 2D Ex tb IIIC T90°C/T70°C; LCIE 99 ATEX6027X
- Industrial plug and socket type: DXN3, MARECHAL ELECTRIC; II 2G Ex db eb IIC T5 or T6; II 2D Ex tb IIIC T90°C/T70°C; LCIE 05 ATEX 6149X
- Industrial plug and socket type: DXN6, MARECHAL ELECTRIC, II 2G Ex db eb IIC T5 or T6; II 2D Ex tb IIIC T90°C/T70°C; LCIE 05 ATEX 6150X
- Industrial plug and socket type: PXN12C, MARECHAL ELECTRIC, II 2G Ex eb IIC T*; II 2G Ex ia or ib IIC T*; II 2D Ex tb IIIC T* Db; LCIE 07 ATEX 6070X
- Industrial plug and socket type: DXN25C, MARECHAL ELECTRIC; II 2G Ex eb IIC T*; II 2G Ex ia or ib IIC T6; II2D Ex tb IIIC T*; LCIE 09ATEX3050X
- Industrial plug and socket type: DXN37C, MARECHAL ELECTRIC; II 2G Ex eb IIC T*; II 2G Ex ia or ib IIC T6; II2D Ex tb IIIC T*; LCIE 07ATEX6071X
- Industrial plug and socket type: SPeX, MARECHAL ELECTRIC, II 2G Ex eb IIC T*; II2D Ex tb IIIC T* Db; LCIE 07ATEX6073X
- Industrial plug and socket type: DXA1, MARECHAL ELECTRIC, II 2G Ex db eb IIC T* Gb; II 2D Ex tb IIC T*°C Db; LCIE 15ATEX 3033X
- Industrial plug and socket type: PNCX, MARECHAL ELECTRIC, II 2G Ex IIC T6 Gb; II 2D Ex tb IIIC T72°C Db; LCIE 16ATEX3001X
- Terminal type: WDU 240, WEIDMULLER, II 2G Ex eb IIC Gb; KEMA 01 ATEX 2186U.

Fiditas Ltd. Slavka Tomerlina 44, 10361 Zagreb-Sesvete, Croatia
Phone: +385 1 5578565; info@fiditas.com ; www.fiditas.com

[14] Confidential Report No. FIDI 23 CR 019

[14.1] Routine testing

No change to specified in the initial certificate.

[15] Specific Conditions of Use

Addditional to those specified the initial certificate:

- Manufacturer must obey relevant specific condition of use of Ex equipment and/or schedule of limitation of Ex components installed in/on the product and forward to the end user if relevant for the installation and use.

[16] Essential Health and Safety Requirements

Compliance with the Essential Health and Safety Requirements is not affected by this variation.

[17] Drawings and Documents

Title:	Drawing No.:	Rev. level:	Date:
Technical note	TN2111	1	20.01.2023
Instruction for use	TN2111 Annex A	1	20.01.2023
Apparatus list	TN2111 Annex B	1	20.01.2023

Fiditas Ltd. Slavka Tomerlina 44, 10361 Zagreb-Sesvete, Croatia
Phone: +385 1 5578565; info@fiditas.com ; www.fiditas.com

ITEM	Tag	EJB-200N1-02-L1-09 : JB - NORMAL LIGHTING		Dwg	123A90-DDL-EL-DL-20118
	S/Sys	83-40 : Normal Lighting Upper Deck		Module	UD
TASK	code	C10001632	Location: Onshore Activities	User	Rosetti Marino Quality Control
FORM	Process	MC	Activity: CCK / Discipline: ATEX / Form: CJX01		Hazardous Area Equipment Detailed Inspection

Schedule Ref. #				**Area Code**					
Area Class Drawing	123A90-DDL-SAF-DL-30022			**Serial No.**		24P00297990012			
Manufacturer	TECNOR ITALSMEA			**Model**		AQ-252612P			
Cert No.	21ATEX 0090X-FIDI 21 0015X			**Equipment Ambient Temp.**		-20 C° to +40 C°			
Area Classification	hazardous	**Zone**	2	**Gas group**	IIC	**Temp class**	T1		
Equipment Protection Type	Ex eb	**EPL**	Gb	**Gas group**	IIC	**Temp class**	T6	**IP Rating**	IP66

Detailed Note:

1) Inspection shall only be performed by competent personnel

2) All fields are to be completed. Any non-applicable field shall state “NA”. Comments are required for ‘Failure’ column ONLY.

3) An Inspection Sheet should be completed for EACH individual item of Equipment.

	General Equipment	Detailed	OK/NA/PL	Comments
1	Equipment is appropriate to the EPL / Zone requirements of the area	x	OK	
2	Equipment group is correct	x	OK	
3	Equipment temperature class is correct	x	OK	
4	Degree of IP protection of equipment is appropriate for the level of protection	x	OK	
5	Equipment circuit identification is correct	x	OK	
6	Equipment circuit identification is available	x	NA	
7	Enclosure glass parts and glass-to-metal sealing gaskets and / or compounds are satisfactory	x	OK	
8	There is no damage or unauthorized modifications	x	OK	
9	There is no evidence of unauthorized modifications	x	OK	
10	Bolts, cable entry devices (direct and indirect) & blanking elements are of the correct type, are complete & tight		OK	
	Physical check	x	OK	
11	Threaded covers on enclosures are of the correct type, are tight and secured		NA	
	Physical check	x	NA	
12	Joint surfaces are clean and undamaged and gaskets, if any, are satisfactory and positioned correctly	x	OK	
13	Condition of enclosure gaskets is satisfactory	x	OK	
14	There is no evidence or ingress of water or dust in the enclosure in accordance with the IP rating	x	OK	
15	Electrical connections are tight	x	OK	
16	Bridging links do not reduce creepage / clearance and are allowed	x	OK	
17	Unused terminals are tightened	x	OK	
18	Encapsulated components are undamaged	x	NA	
19	Flameproof components are undamaged	x	NA	
20	Fluorescent lamps are not indicating EOL effects (only for Ex “e” – Ex “n” – Ex “t”)	x	NA	
21	HID lamps are not indicating EOL effects	x	NA	
22	Lamp type, rating, pin configuration and position are correct	x	NA	
23	Breathing and drainage devices are satisfactory	x	OK	
24	Type of cable is appropriate	x	OK	
25	There is no obvious damage to the cables	x	OK	
26	Cable glands are the correct type and installed correctly	x	OK	
27	Sealing of trunking, ducts, pipes and or conduits is satisfactory	x	OK	
28	Stopping boxes and cable boxes are corrected filled	x	PL	

ITEM	Tag	EJB-200N1-02-L1-09	: JB - NORMAL LIGHTING			Dwg	123A90-DDL-EL-DL-20118
	S/Sys	83-40	: Normal Lighting Upper Deck			Module	UD
TASK	code	C10001632		Location	Onshore Activities	User	Rosetti Marino Quality Control
FORM	Process	MC	Activity CCK	Discipline	ATEX	Form	CJX01 Hazardous Area Equipment Detailed Inspection

29	Integrity of conduit system and interface with mixed system maintained	x	NA	
30	Earthing connections, including any supplementary earthing bonding connections are satisfactory (for example connections are tight and conductors are of sufficient cross-section		PL	
	Physical check	x	OK	
31	Automated electric protective devices operate within permitted limits	x	NA	
32	Special conditions (if applicable) have been complied with.	x	NA	
33	All cable cores are uniquely labeled	x	OK	
34	Cable cores not in use are correctly terminated	x	OK	
35	Equipment is adequately protected against corrosion, weather, vibration and other adverse factors	x	OK	
36	No undue accumulation of dust and dirt	x	OK	
37	All equipment housings are clean and dry	x	OK	
38	All moving parts are free and have no mechanical damage	x	OK	
	Applicable for Installation of Heating Systems			
39	Temperature sensors function according to manufacturer's documents (only applicable for Ex-d e Ex-e)	x	NA	
40	Safety cut off devices function according to manufacturer's documents (only applicable for Ex-d e Ex-e)	x	NA	
41	The setting of the safety cut off is sealed (only applicable for Ex-d e Ex-e)	x	NA	
42	Reset of a heating system safety cut off possible with tool only(only applicable for Ex-d e Ex-e)	x	NA	
43	Auto-reset is not possible (only applicable for Ex-d e Ex-e)	x	NA	
44	Reset of a safety cut off under fault conditions is prevented (only applicable for Ex-d e Ex-e)	x	NA	
45	Safety cut off independent from control system (only applicable for Ex-d e Ex-e)	x	NA	
46	Level switch is installed and correctly set, if required (only applicable for Ex-d e Ex-e)	x	NA	
47	Flow switch is installed and correctly set, if required (only applicable for Ex-d e Ex-e)	x	NA	
	Extra Ex d checks			
48	Obstructions adjacent to flame proof flanged joints are in accordance with IEC 60079-14	x	NA	
49	Ex d conduits seals are fitted to all conduits and satisfactorily sealed	x	NA	
50	Cable glands are of the correct type and installed correctly	x	NA	
51	Adaptors, reducers, stop ends, etc. are all certified Ex d	x	NA	
52	Flame path are clean and undamaged	x	NA	
53	Flange gap dimensions are within tolerances	x	NA	
54	Motor fans have sufficient clearance to the enclosure and/or covers, cooling systems are undamaged, motor foundations have no indentations or cracks	x	NA	
55	The ventilation airflow is not impeded	x	NA	
56	Insulation resistance (IR) of the motor windings is satisfactory	x	NA	
57	Fault loop impedance (TN systems) or earthing resistance (IT systems) is satisfactory	x	NA	
58	Variable voltage/frequency installation complies with documentation	x	NA	
	Extra Ex e checks			
59	All Equipment is Ex e certified (including components within enclosure)	x	OK	
60	Power conductors are not bunched together causing possible hot spots	x	PL	
61	Motor fans have sufficient clearance to the enclosure and/or covers, cooling systems are undamaged, motor foundations have no indentations or cracks	x	NA	
62	Insulation resistance (IR) of the motor windings is satisfactory	x	NA	
63	Fault loop impedance (TN systems) or earthing resistance (IT systems) is satisfactory	x	NA	
64	The ventilation airflow is not impeded	x	NA	
65	Motor protection devices operate within the permitted tE or tA time limits.	x	NA	
66	Variable voltage/frequency installation complies with documentation	x	NA	

ROSETTI MARINO PROVERLIS CROSSWIND

ITEM	Tag	EJB-200N1-02-L1-09	: JB - NORMAL LIGHTING		Dwg	123A90-DDL-EL-DL-20118	
	S/Sys	83-40	: Normal Lighting Upper Deck		Module	UD	
TASK	code	C10001632	Location	Onshore Activities	User	Rosetti Marino Quality Control	
FORM	Process	MC	Activity CCK	Discipline ATEX	Form	CJX01	Hazardous Area Equipment Detailed Inspection

Extra Ex n (nR, nL) checks				
67	All Terminals are Ex n certified (if required on certificate)	x	NA	
68	Hermetically sealed and enclosed break devices are undamaged	x	NA	
69	Restricted breathing properties satisfactory (conduct vacuum test)	x	NA	
70	Test port, if fitted, is functional (type “nR” only)	x	NA	
71	Breathing operation is satisfactory (type “nR” only)	x	NA	
72	Motor fans have sufficient clearance to the enclosure and/or covers, cooling systems are	x	NA	
73	The ventilation airflow is not impeded	x	NA	
74	Insulation resistance (IR) of the motor windings is satisfactory	x	NA	
75	Motor protection devices operate within the permitted tE or tA time limits.	x	NA	
76	Variable voltage/frequency installation complies with documentation	x	NA	
Extra Ex p checks				
77	Pressurization gas is correct type	x	NA	
78	Actual pressure is within maximum and minimum settings for equipment	x	NA	
79	Timers set as per certification documentation	x	NA	
80	Alarms and trip functions operate correctly as per certification documentation	x	NA	
81	Fault loop impedance (TN systems) or earthing resistance (IT systems) is satisfactory	x	NA	
82	Automatic electrical protective devices operate within permitted limits	x	NA	
83	Automatic electrical protective devices are set correctly	x	NA	
84	Protective gas inlet temperature is below maximum specified	x	NA	
85	Ducts, pipes and enclosures are in good condition	x	NA	
86	Protective gas is substantially free from contaminants	x	NA	
87	Protective gas pressure and/or flow is adequate	x	NA	
88	Pressure and/or flow indicators, alarms and interlocks function correctly	x	NA	
89	Conditions of spark and particle barriers of ducts for exhausting the gas in hazardous area are satisfactory	x	NA	
90	Specific conditions of use (if applicable) are complied with		NA	
Extra Ex i (Intrinsically Safe – IS) checks				
91	Equipment has adequate circuit identification for ‘IS’ Installation	x	NA	
92	Cables are installed in accordance with the documentation	x	NA	
93	Segregation is maintained between IS and non-IS Circuits	x	NA	
94	Cable screens are isolated at one end (field side)	x	NA	
95	Cable screens are earthed in accordance with the documentation	x	NA	
96	Safety barrier units, relays and other energy limiting devices are of the approved type, installed in	x	NA	
97	Equipment installed is the one specified in the documentation	x	NA	
98	Ambient temperature range of the apparatus is correct for the installation	x	NA	
99	Service temperature range of the apparatus is correct for the installation	x	NA	
100	Installation is clearly labelled	x	NA	
101	Printed circuit boards are clean and undamaged	x	NA	
102	The maximum voltage Um of the associated apparatus is not exceeded	x	NA	
103	Point-to-point connections are all correct	x	NA	
104	Earth continuity is satisfactory (e.g. connections are tight, conductors are of sufficient cross-section)	x	NA	
105	Earth connections maintain the integrity of the type of protection	x	NA	
106	Intrinsically safe circuit earthing is satisfactory	x	NA	
107	Insulation resistance is satisfactory	x	NA	
108	Short-circuit protection of the power supply is in accordance with the documentation	x	NA	

	BARRIER:	**Manufacturer:**	NA	**Model:**	NA		
		Authority:	NA	**Cert No:**	NA	**Type:**	NA

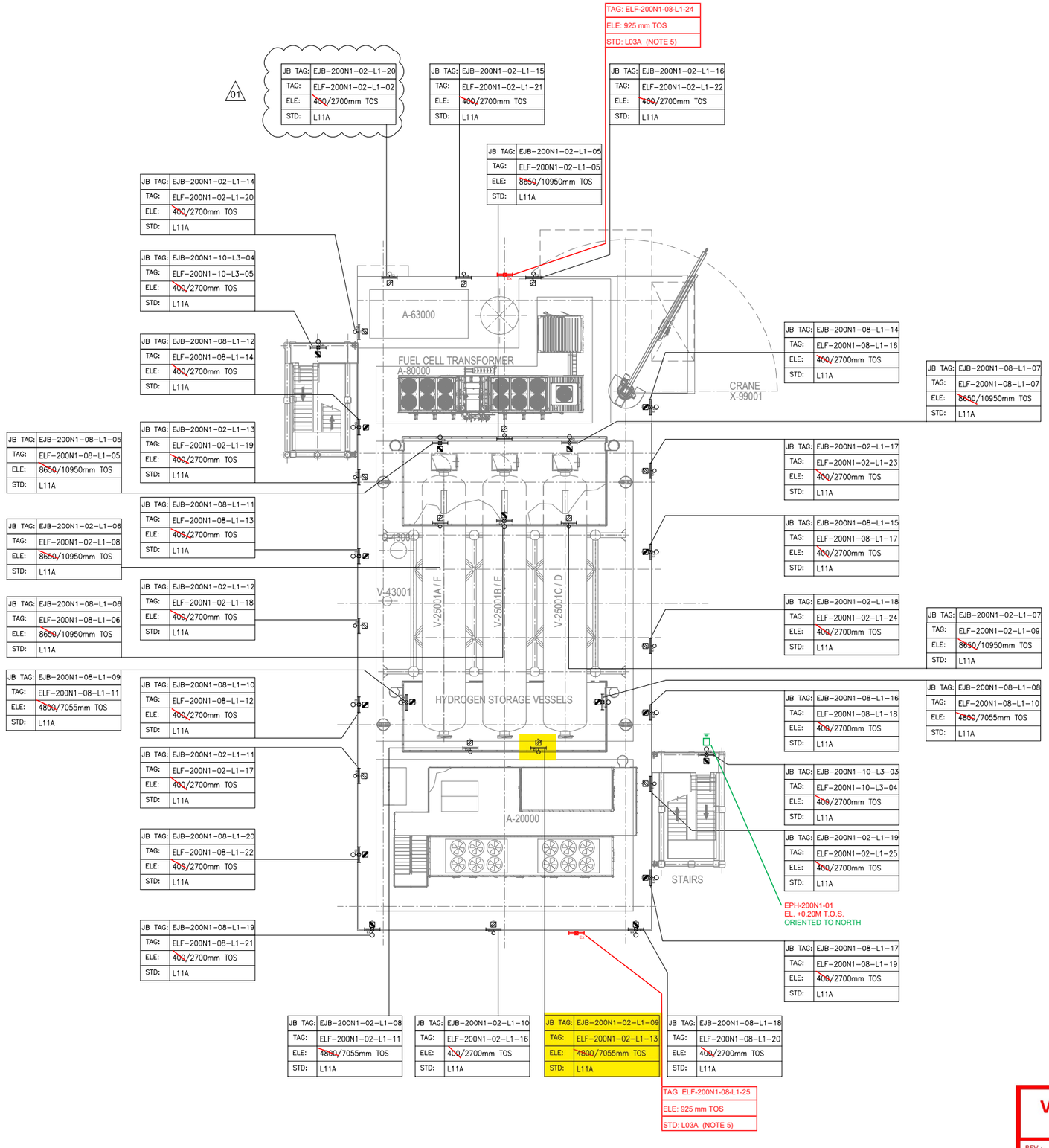
Remarks: Initial inspection should be detailed and carried out before equipment is brought into service as per IEC 60079-17

Please mark only one box as appropriate	
●	**Passed - Complete**
	Failed

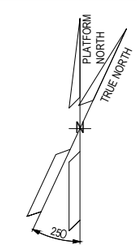
Page 3/3	Performed by	☐ WITNESS ☐ REVIEW	☐ WITNESS ☐ REVIEW
Company	ICS IMPIANTI	RM(ROSETTI MARINO)	
Name	Michele Tartaglia	Alessio Polo	
Date	2025-01-08	2025-01-18	
Signature	PROVERLIS Digitaly signed by Michele Tartaglia 2025-01-08T10:02:07.172Z	PROVERLIS Digitaly signed by Alessio Polo 2025-01-18T13:10:39.141Z	

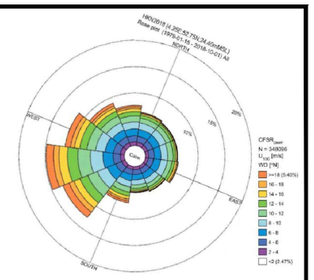
DRAWING NO. 123A90-DDL-EL-DL-20118

REV. 01



PLAN ON UPPER DECK
EL+30.310 T.O.S.





NOTES

1. ALL DIMENSIONS AND ELEVATIONS ARE GIVEN IN mm UNLESS OTHERWISE NOTED.
2. ELEVATIONS REFER TO T.O.S.
3. ELEVATION OF THE LAMPS ARE REFFERED TO THE BOTTOM OF THE LAMP.
4. FOR THE ELEVATION OF JB, REFER TO THE TYPICAL INSTALLATION.
5. FOR ELF-200N1-08-L1-24 AND ELF-200N1-08-L1-25 CONSTRUCTION DETAILS REFER TO DOC. 123A90-DDL-ST-DD-90076

LEGEND

- EMERGENCY LIGHTING JB
- 60W LED EMERGENCY LUMINARIES
- 60W LED EMERGENCY LUMINARIES FIXTURE POLE MOUNTED
- NORMAL LIGHTING JB
- 45W LED NORMAL LUMINARIES
- 45W LED NORMAL LUMINARIES FIXTURE POLE MOUNTED
- WELDING SOCKET WITH INTEGRATED JB
- SMALL POWER SOCKET WITH INTEGRATED JB
- TWILIGHT RELAY SENSOR

JB TAG:	JB-TAG
TAG:	TAG
ELE:	ELEVATION
STD:	STANDARD

REFERENCE DOCUMENTS

123A90-DDL-PP-DL-70070	PLOT PLAN - LOWER & UPPER DECK
123A90-DDL-EL-DL-20100	ELECTRICAL EQUIPMENT LAYOUT - TOP DECK
123A90-DDL-EL-DD-20091	ELECTRICAL TYPICAL INSTALLATION DETAILS - LIGHTING SYSTEM
123A90-DDL-EL-DD-20092	ELECTRICAL TYPICAL INSTALLATION DETAILS - POWER SYSTEM & CABLE INSTALLATION
123A90-DDL-EL-RE-20153	LIGHTING CALCULATION STUDY REPORT
123A90-DDL-ST-DD-90076	IDENTIFICATION PANELS ASSEMBLY AND DETAILS

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	02/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	28/05/24	ASR	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DL-20118**

REV.:	DATE:	SIGNATURE:
1_G	09/01/25	V.Ramponi

ROSETTI MARINO SpA

CROSSWIND

ROSETTI MARINO

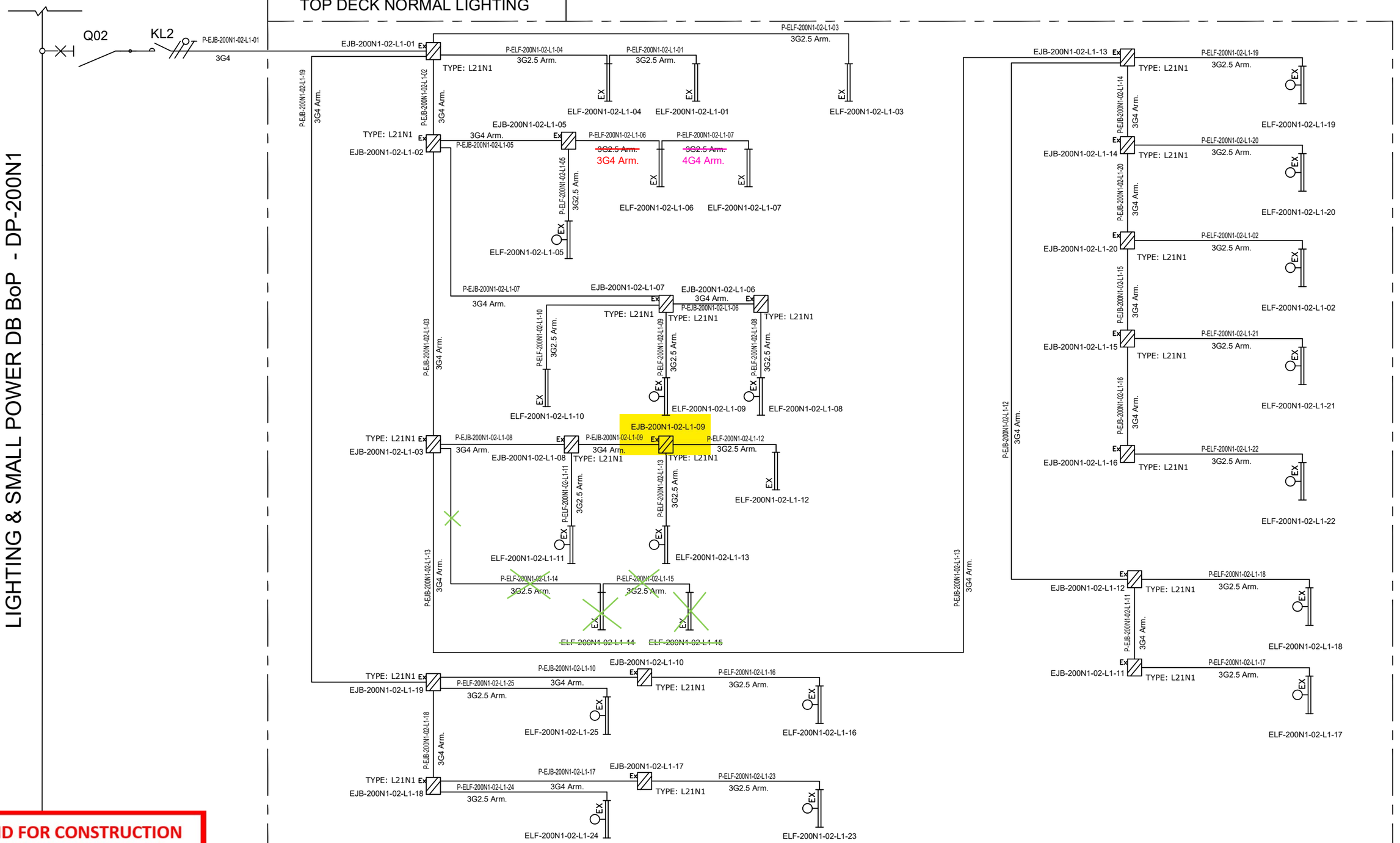
TITLE : BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET LAYOUT – TOP DECK

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK			SCALE 1:150
DRAWN ASR	CHECKED FMA/AMA	APPROVED FPA/DLO	DATE 01/08/24
A1	DRAWING NO. 123A90-DDL-EL-DL-20118	SHEET 1of2	REV. 01

File Name : 123A90-DDL-EL-DL-20118

LIGHTING & SMALL POWER DB BoP - DP-200N1

TOP DECK NORMAL LIGHTING



VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DG-20125**

REV.:	DATE:	SIGNATURE:
2_G	16/01/25	G.Randi

ROSETTI MARINO SpA

CROSSWIND

ROSETTI MARINO

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	08/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	01/07/24	ASR	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

TITLE : BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET CIRCUIT DIAGRAM
TOP DECK–NORMAL LIGHTING

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE : NTS

A3

DRAWING NO. 123A90–DDL–EL–DG–20125

SHEET 010

REV. 01

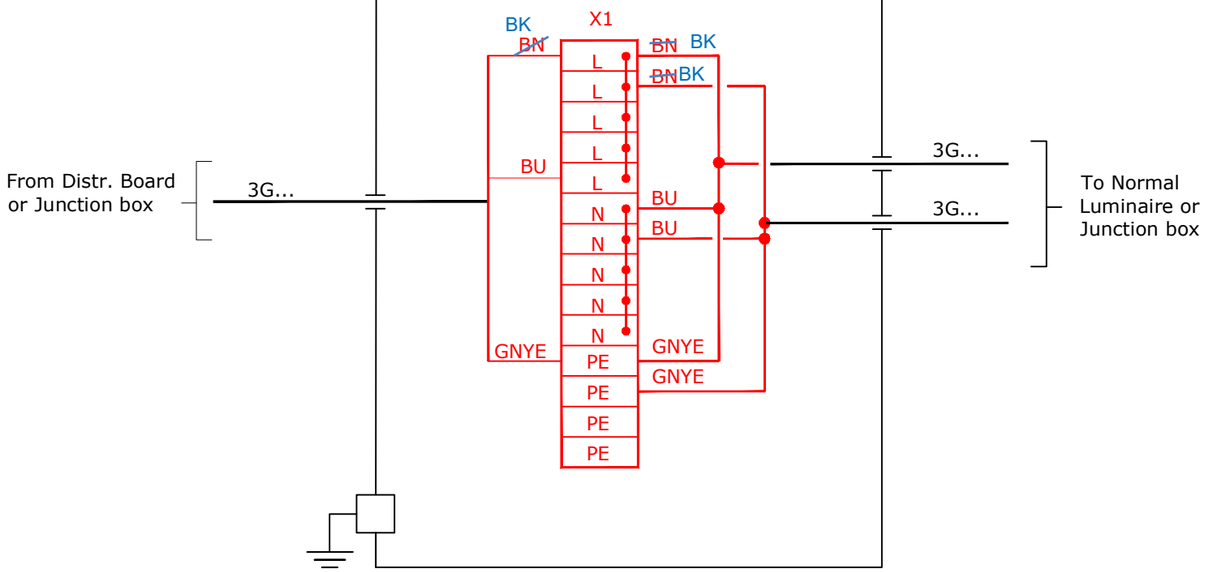
F.to UNI A3: 420mmx297mm

File Name : 123A90–DDL–EL–DG–20125

TYPE : L21N1 & L21N2

ITEM: NORMAL LIGHTING JUNCTION BOX

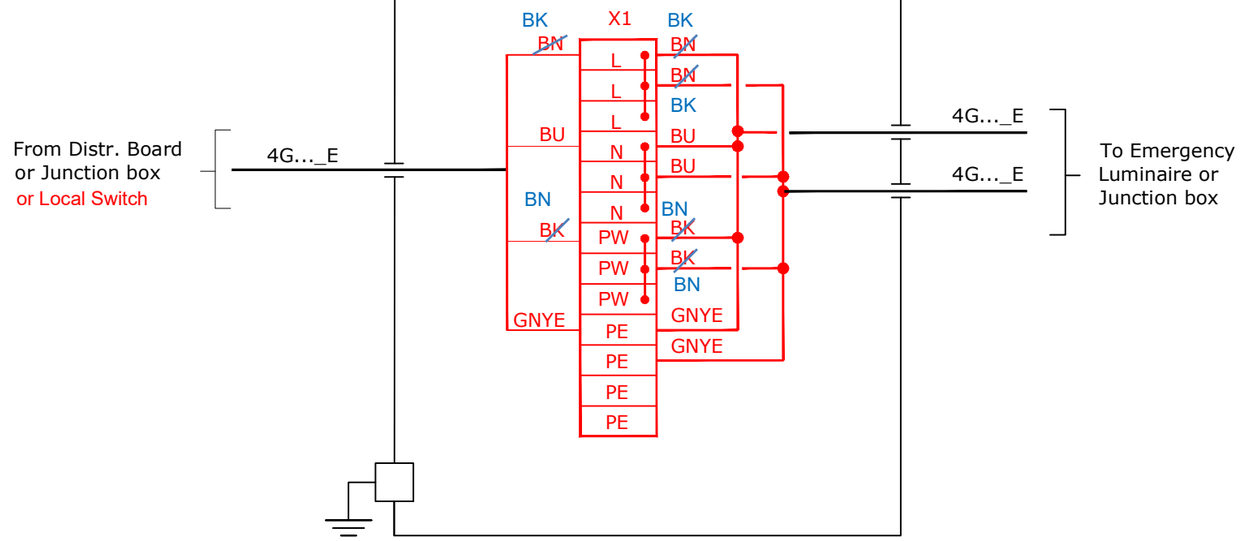
TAG : Typical



TYPE : L21E1 & L21E2

ITEM: EMERGENCY LIGHTING JUNCTION BOX

TAG : Typical



VALID FOR CONSTRUCTION

FDL DWG: **123A90-FDL-EL-DG-20125**

REV.:	DATE:	SIGNATURE:
2_G	16/01/25	G.Randi

ROSETTI MARINO SpA

CROSSWIND

ROSETTI MARINO

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	08/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)

TITLE : BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET CIRCUIT DIAGRAM
TYPICAL JB INTERCONNECTING DIAGRAM

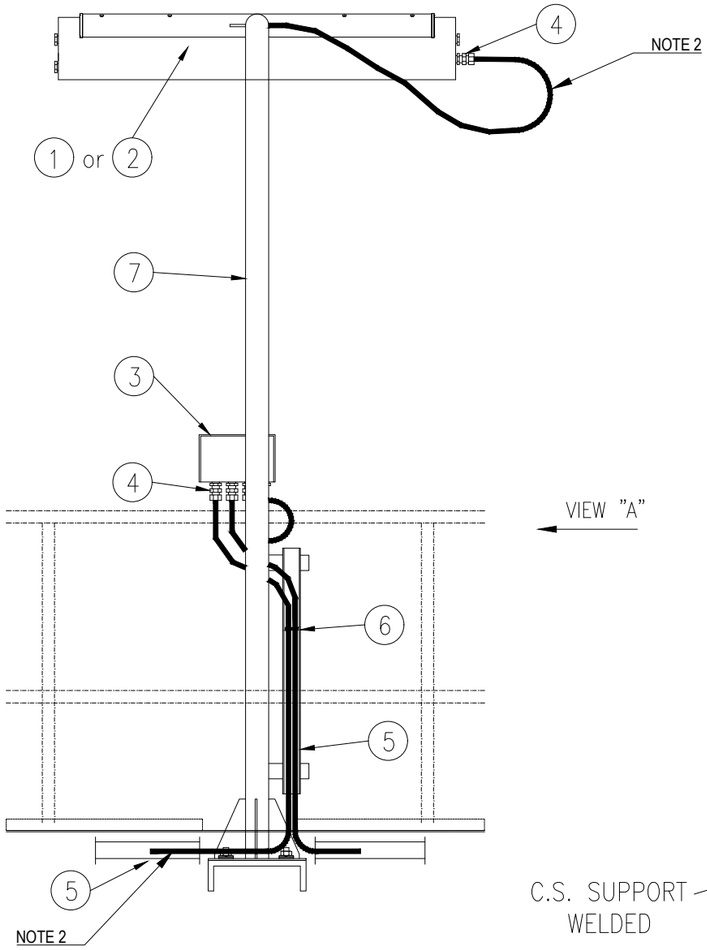
CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK | SCALE : NTS

A3	DRAWING NO.	SHEET	REV.
	123A90-DDL-EL-DG-20125	016	01

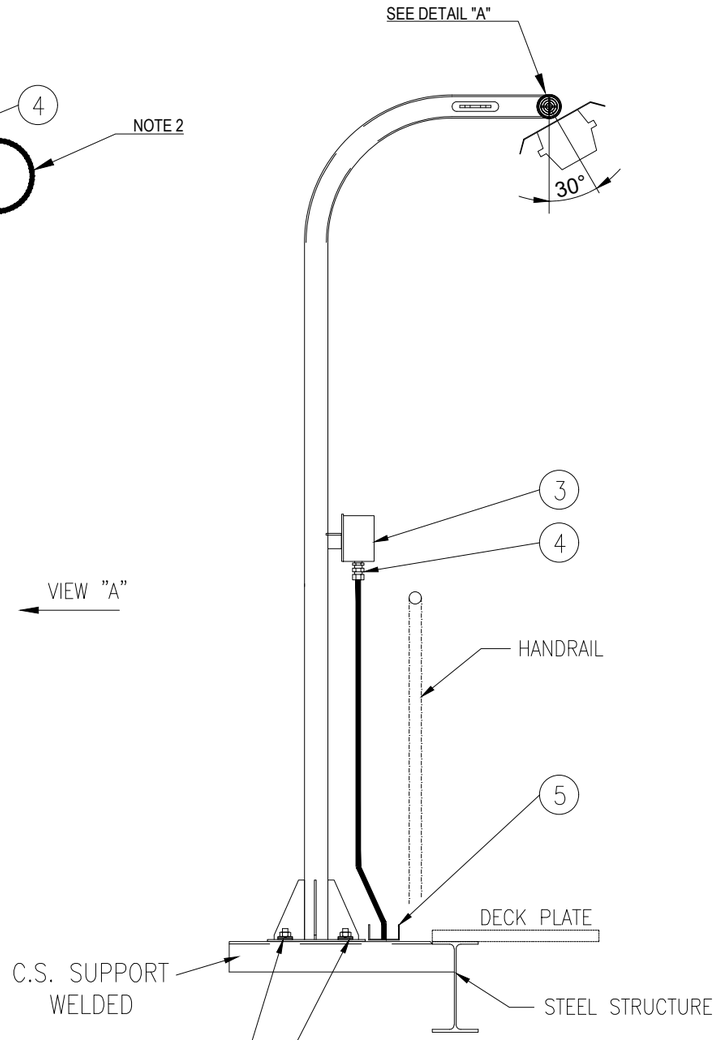
F.to UNI A3: 420mmx297mm

File Name : 123A90-DDL-EL-DG-20125

L11A

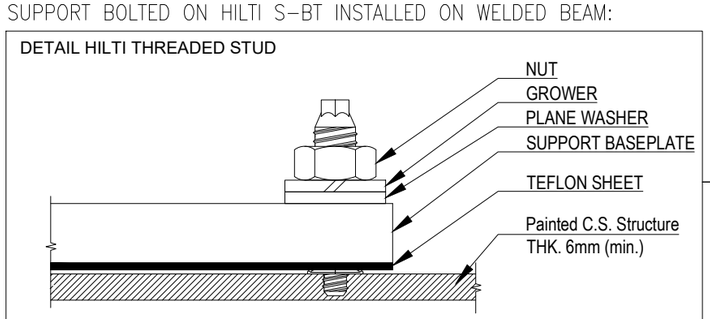


VIEW "A"

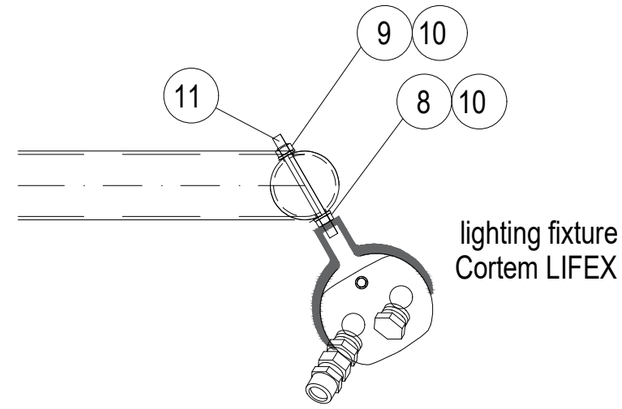


VIEW "A"

SUPPORT BOLTED ON HILTI S-BT INSTALLED ON WELDED BEAM:



POS.	DESCRIPTION	MATERIAL	SIZE	Q.TY	NOTE
1	42W LED LUMINARIES	ALUMINIUM ALLOY		1	
2	45W LED LUMINARIES C/W BATTERY	ALUMINIUM ALLOY		1	
3	JUNCTION BOX (Ex)	GRP		1	NOTE 1
4	CABLE GLAND C/W EARTH TAG, WASHERS, LOCKNUT AND WEATHERPROOF WASHERS	BRASS NICKEL PLATED		AS REQ.	
5	CABLE TRAY	AISI 316L			
6	STAINLESS STEEL NYLON COATED CABLE TIE	SS NYLON COATED			
7	POLE SUPPORT FOR LAMP	AISI 316L	2"		
8	NUT	AISI 316L	M8		
9	SELF.LOCKING NUT	AISI 316L	M8		
10	LARGE PLANE WASHER (24mm DIAM.)	AISI 316L	M8		
11	THREADED ROD M8x100	AISI 316L	M8		



DETAIL "A"

NOTES:

1) FOR LAMPS IN HAZARDOUS AREA, USE ARMOURED CABLE, DOUBLE SEAL CABLE GLAND AND EX JUNCTION BOX.

2) ALWAYS ENSURE CABLE LENGTH IS >3m

VALID FOR CONSTRUCTION

REV.:	DATE:	SIGNATURE:
2_B	12/12/24	C.Pilato

ROSETTI MARINO SpA

02

CROSSWIND

ROSETTI MARINO

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	30/09/24	GRA	AMA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	04/07/24	NLK	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	21/11/23	SPS	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL TYPICAL INSTALLATION DETAILS-LIGHTING SYSTEM
LIGHTING FIXTURE MOUNTED ON POLE

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK | SCALE : NTS

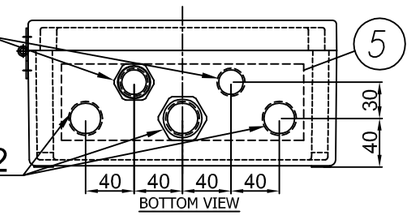
A3 | DRAWING NO. 123A90-DDL-EL-DD-20091 | SHEET 014 | REV. 02

F.to UNI A3: 420mmx297mm

File Name : 123A90-DDL-EL-DD-20091 REV.02.DWG

(10)(4) N°2 PASSING HOLES Ø20.2
C/W N°1 BNK PLUG M20 +
N°1 DUSTPROOF PVC PLUG

(3)(3) N°3 PASSING HOLES Ø25.2
C/W N°1 BNK PLUG M25 +
N°1 DUSTPROOF PVC PLUG



BOTTOM VIEW

(8) I2400722-B015I00029809

TECHNOR ITALSMEA
A COMPANY OF MARECHAL ELECTRIC
Via Italia 33 - 20060 Gessate (MI) ITALY

CE 0080 Ex II 2G II 2D
FIDI 21ATEX 0090X
IECEx FIDI 21.0015X
Year of construction:

MADE IN ITALY

TYPE: AQ-252612P
230VAC 50Hz 20A
Max Dis. P. 6W

Ex eb IIC T6 Gb
Ex tb IIIC T85°C Db
IP66
T.amb. -20/+40°C
Serial Nr.

WARNINGS : DO NOT OPEN WHEN ENERGIZED

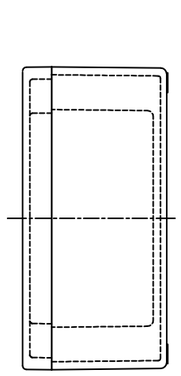
A002MAX

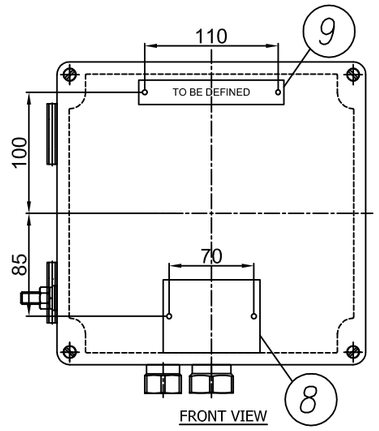
(9) PLATE DETAIL



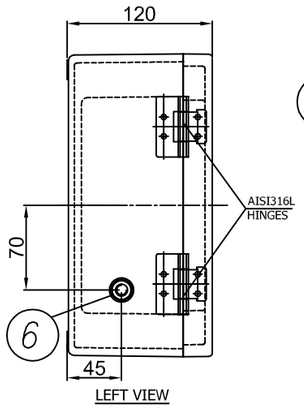
MATERIAL: LAMINATED PLASTIC
BACKGROUND: WHITE
LETTERS: BLACK

(7) Terminals numbered: NOTE 1

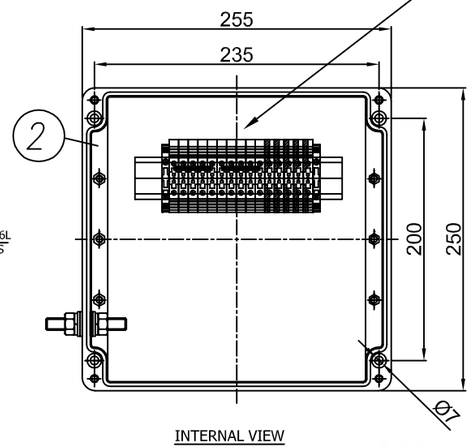

RIGHT VIEW



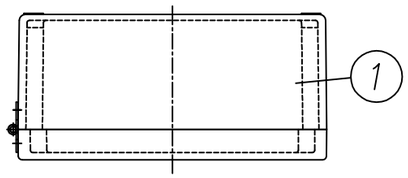
FRONT VIEW



LEFT VIEW



INTERNAL VIEW



TOP VIEW

NOTE1 :
- JB for Normal Lighting have terminals bridge: L-L-L-L-L, N-N-N-N-N, PE-PE-PE-PE-PE - JB for Emergency Lighting have terminals bridge: L-L-L, N-N-N, PW-PW-PW, PE-PE-PE-PE-PE

ITEM	DESCRIPTION	Pcs Q.TY	NOTE/MAT.	CODE	MANUFACTURER
11	DUSTPROOF PVC PLUG Ø25	2	–	.	TECHNOR ITALSMEA
10	DUSTPROOF PVC PLUG Ø20	1	–	.	TECHNOR ITALSMEA
9	LAMINATED PLASTIC TAG 120X20	1	–	.	TECHNOR ITALSMEA
8	AISI316L CERTIFICATE PLATE 80X60	1	–	.	TECHNOR ITALSMEA
7	BEIGE TERMINAL BLOCK SIZE 6 SQMM EARTH TERMINAL BLOCK SIZE 6 SQMM	10 5	WDU–6 WPE–6	.	WEIDMULLER
6	AISI316L INT/EXT EARTH BOLT M10	1	BTP–10	.	TECHNOR ITALSMEA
5	BRASS CONTINUITY PLATE THK. 0.8 MM	1	–	.	TECHNOR ITALSMEA
4	NICKEL PLATED BRASS PLUG M20	1	T20	.	TECHNOR ITALSMEA
3	NICKEL PLATED BRASS PLUG M25	1	T25	.	TECHNOR ITALSMEA
2	INTERNAL MOUNTING PLATE	1	PS–2526	.	TECHNOR ITALSMEA
1	GRP ENCLOSURE	1	AQ–252612P	.	TECHNOR ITALSMEA

-UNPAINTED (BLACK NATURAL)
Q.TY 92, ITEM 20: 2JBXXGPEE, ELEJB02

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
05	20/12/24	FB	OB	OB	ACCEPTED FOR CONSTRUCTION (AFC)
04	26/11/24	FB	OB	OB	ACCEPTED FOR CONSTRUCTION (AFC)
03	25/10/24	FB	OB	OB	ACCEPTED FOR CONSTRUCTION (AFC)
02	12/09/24	FB	OB	OB	ACCEPTED FOR CONSTRUCTION (AFC)
01	03/09/24	FB	OB	OB	ACCEPTED FOR CONSTRUCTION (AFC)
00	30/07/24	FB	OB	OB	ISSUE FOR REVIEW (IFR)

Explosion Proof
Electrical Equipment
Materiali Elettrici Antideflagranti
TECHNOR ITALSMEA
A COMPANY OF MARECHAL ELECTRIC

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)

Junction Box for Normal & Emergency Lighting

CONTRACT NO./TITLE CW–I–WP4–2023–05/HOLLANDSE KUST NOORD WIND PARK

SCALE : NTS

A3

DRAWING NO. 1724001481–EL–DA–00003

SHEET 004

REV. 05

F.to UNI A3: 420mmx297mm

File Name : 1724001481–EL–DA–00003 Rev. 01

ENCLOSURE N°	TAG LIST	NORMAL LIGHTING	EMERGENCY LIGHTING
1	EJB-200N1-03-L2-04	X	
2	EJB-200N1-03-L2-03	X	
3	EJB-200N1-03-L2-01	X	
4	EJB-200N1-03-L2-02	X	
5	EJB-200N1-03-L2-12	X	
6	EJB-200N1-03-L2-11	X	
7	EJB-200N1-03-L2-10	X	
8	EJB-200N1-03-L2-09	X	
9	EJB-200N1-03-L2-08	X	
10	EJB-200N1-03-L2-07	X	
11	EJB-200N1-03-L2-06	X	
12	EJB-200N1-03-L2-05	X	
13	EJB-200N1-03-L2-14	X	
14	EJB-200N1-03-L2-13		X
15	EJB-200N1-09-L2-17		X
16	EJB-200N1-09-L2-01		X
17	EJB-200N1-09-L2-04		X
18	SPARE (TO BE PROVIDED BLANK)		X
19	EJB-200N1-09-L2-02		X
20	EJB-200N1-09-L2-15		X
21	EJB-200N1-09-L2-14		X
22	EJB-200N1-09-L2-13		X
23	EJB-200N1-09-L2-12		X
24	EJB-200N1-09-L2-11		X
25	EJB-200N1-09-L2-10		X
26	EJB-200N1-09-L2-09		X
27	EJB-200N1-09-L2-08		X
28	EJB-200N1-09-L2-07		X
29	EJB-200N1-09-L2-06		X
30	EJB-200N1-09-L2-05		X
31	EJB-200N1-09-L2-16	X	
32	EJB-200N1-04-L3-01	X	
33	EJB-200N1-04-L3-02	X	
34	EJB-200N1-10-L3-05		X
35	EJB-200N1-10-L3-06		X
36	EJB-200N1-10-L3-07		X
37	EJB-200N1-10-L3-08		X
38	EJB-200N1-10-L3-09		X
39	EJB-200N1-10-L3-02		X
40	EJB-200N1-10-L3-01		X
41	EJB-200N1-10-L3-03		X
42	EJB-200N1-10-L3-04		X
43	EJB-200N1-02-L1-03	X	
44	EJB-200N1-02-L1-02	X	
45	EJB-200N1-02-L1-01	X	
46	SPARE (TO BE PROVIDED BLANK)	X	
47	EJB-200N1-02-L1-10	X	
48	EJB-200N1-02-L1-19	X	
49	EJB-200N1-02-L1-18	X	
50	EJB-200N1-02-L1-17	X	
51	EJB-200N1-02-L1-16	X	
52	EJB-200N1-02-L1-15	X	
53	EJB-200N1-02-L1-14	X	
54	EJB-200N1-02-L1-13	X	
55	EJB-200N1-02-L1-12	X	
56	EJB-200N1-02-L1-11	X	
57	EJB-200N1-02-L1-06	X	
58	EJB-200N1-02-L1-05	X	
59	EJB-200N1-02-L1-07	X	
60	EJB-200N1-02-L1-08	X	
61	EJB-200N1-02-L1-09	X	
62	EJB-200N1-08-L1-03		X
63	SPARE (TO BE PROVIDED BLANK)		X
64	EJB-200N1-08-L1-01		X
65	EJB-200N1-08-L1-04		X
66	EJB-200N1-08-L1-19		X
67	EJB-200N1-08-L1-18		X
68	EJB-200N1-08-L1-17		X
69	EJB-200N1-08-L1-16		X
70	EJB-200N1-08-L1-15		X
71	EJB-200N1-08-L1-14		X
72	EJB-200N1-02-L1-20	X	
73	EJB-200N1-08-L1-12		X
74	EJB-200N1-08-L1-11		X
75	EJB-200N1-08-L1-10		X
76	EJB-200N1-08-L1-20		X
77	EJB-200N1-08-L1-05		X
78	EJB-200N1-08-L1-06		X
79	EJB-200N1-08-L1-07		X
80	EJB-200N1-08-L1-09		X
81	EJB-200N1-08-L1-08		X
82	EJB-200F2-01	X	
83	EJB-200F2-02	X	
84	SPARE (TO BE PROVIDED BLANK)	X	
85	SPARE (TO BE PROVIDED BLANK)	X	
86	SPARE (TO BE PROVIDED BLANK)	X	
87	SPARE (TO BE PROVIDED BLANK)	X	
88	SPARE (TO BE PROVIDED BLANK)	X	
89	SPARE (TO BE PROVIDED BLANK)		X
90	SPARE (TO BE PROVIDED BLANK)		X
91	SPARE (TO BE PROVIDED BLANK)		X
92	SPARE (TO BE PROVIDED BLANK)		X

Q.TY 92, ITEM 20: 2JBXXGPEE, ELEJB02

Explosion Proof
Electrical Equipment
Materiali Elettrici Antideflagranti

TECHNOR ITALSMEA
A COMPANY OF MARECHAL ELECTRIC

CROSSWIND

ROSETTI MARINO

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
05	20/12/24	FB	OB	OB	ACCEPTED FOR CONSTRUCTION (AFC)
04	26/11/24	FB	OB	OB	ACCEPTED FOR CONSTRUCTION (AFC)
03	25/10/24	FB	OB	OB	ACCEPTED FOR CONSTRUCTION (AFC)
02	12/09/24	FB	OB	OB	ACCEPTED FOR CONSTRUCTION (AFC)
01	03/09/24	FB	OB	OB	ACCEPTED FOR CONSTRUCTION (AFC)
00	30/07/24	FB	OB	OB	ISSUE FOR REVIEW (IFR)

TITLE : BASE LOAD POWER HUB (BLPH)

Junction Box for Normal & Emergency Lighting–Tag List

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE : NTS

A3

DRAWING NO. 1724001481-EL-DA-00003

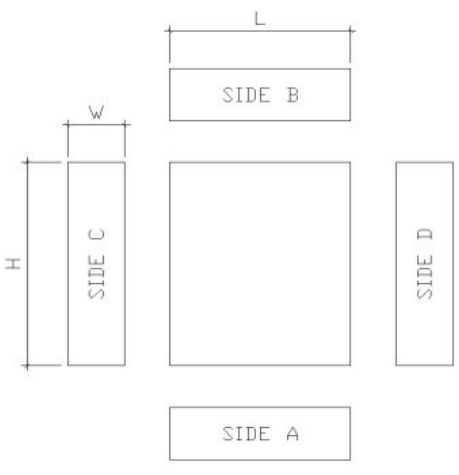
SHEET 005

REV. 05

F.to UNI A3: 420mmx297mm

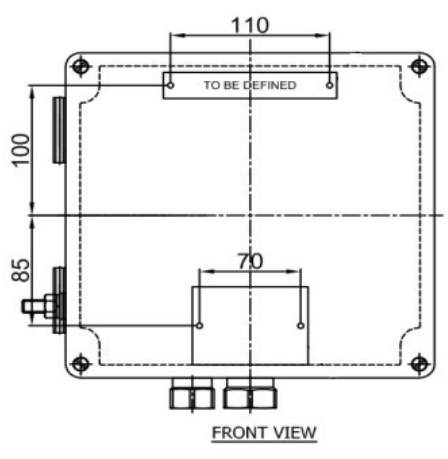
File Name : 1724001481-EL-DA-00003 Rev. 01

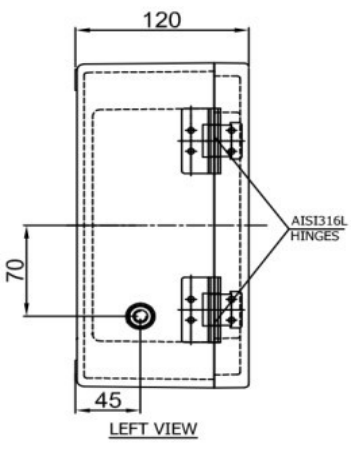
Row	Data Sheet for Control Stations, Junction Boxes and Sockets				Rev.
1	Junction Box for Normal & Emergency Lighting (Exdb)				
2	Item	Required	Manufacturer Proposal	Comments	
3	Model Number	by Vendor	AQ-252612P		01
4	Serial Number	by Vendor	B011041010004		01
5	Quantity	43+5(spare)		(39+9 spare)	01
6	Appkication	Lighting pole JB/Lighting JB			00
7	**Installation area**				
8	Indoor/Outdoor	Outdoor			00
9	Safe Area/Hazardous Area	Hazardous area			00
10	Zone 1/Zone 2	Zone-1			00
11	Temp. Class	Zone 1 Gas Group IIC (or) IIB + H2, T1	Ex eb IIC, T6 Gb		01
12	**Electrical input data**				
13	Voltage	230 V ac	230 V ac		01
14	Number of Phases	1ph + N + PE			00
15	**Material**				
16	Body	GRP	GRP		01
17	Execution	Ex eb	Ex eb		00
18	Protection Degree	IP56	IP 66		01
19	**Accessories**				
20	Hinged Cover	Required	AISI316L Hinges		01
21	Gasket	Required			00
22	Removable Gland Plates	Required	Brass Continuity plate 0.8mm thick		01
23	Internal Mounting Plate	Thickness 3mm threaded		connected to Internal ground bar	00
24	Internal Ground Bar	Required		connected to earth stud	00
25	Earth Stud	Required			00
26	Drainage Valve	Required			00
27	Pad lockable Cover	Required			00
28	Identification Label	Trafolite/ Stainless Steel	Laminated Plastic	for all label	01
29	**Side 'A'**				
30	Hubs Qty.	5	5		01
31	Size	No.3 M25, No.2 M20	No.3 Ø 25.2 mm, No.2 Ø 20.2 mm		01
32	Thread	ISO-M			00
33	Plug	No. 1 M20, No.1 M25	No. 1 Ø 20.2 mm, No.1 Ø 25.2 mm	nickel-plated brass	01
34	**Side 'B'**				
35	Hubs Qty.	Not Required			00
36	Size	NA			00
37	Thread	NA			00
38	**Side 'C'**				
39	Hubs Qty.	Not Required			00
40	Size	NA			00
41	Thread	NA			00
42	**Side 'D'**				
43	Hubs Qty.	Not Required			00
44	Size	NA			00
45	Thread	NA			00
46	**Terminals**				
47	Size [mm^2]	Suitable for 6 Sq.mm & 2.5 Sq.mm Cable	M25 & M20	suitable with wire-end ferrules DIN 46228	01
48	Qty.	n°5 for Ph // n°5 for N // n°5 for PE	n°5 for Ph // n°5 for N // n°5 for PE	Ex - jumpered	01
49	**Bonding Cable (yellow/Green)**				
50	Size [mm^2]	by vendor		6 mm^2	01
51	Qty.	Min. 0.15m			00
52	**Dimension**				
53	Height 'H' [mm]	by vendor	120 mm		01
54	Width 'W' [mm]	by vendor	250 mm		01
55	Length 'L' [mm]	by vendor	255 mm		01
56	Weight [Kg]	by vendor	2.65 Kg		01
57	JB Code (*)	Remarks			
58					



NOTES:

(*) Filled by Vendor





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Tag Number	Tag Description	Location	P.O.	Vendor	Manufacturer	Serial Number	Model Type Catalogue Number	Installation Zone	ATEX Certificate Number	Reference Document	ATEX Certification Marking	Notes / Comments	Skid / Package	Electrical Equip.	Barrier Calculation Ref.	Special Conditions of Safe Use Applicable	3D Location
CB-200F4B	AC UPS F&G - Battery Isolator-B	CONTAINER B-300 (LOWER DECK)	1724000372	3W Power	Cortem Spa		EJBC	Zone 1	EPT 20 ATEX 4075X	1724000372-EL-DG-00011	II 2GDEx db IIC T6 Gb Ex tb IIIC T 85°C Db	-	N/A	True	N/A	False	
EAT-200N1-01	Trace Heating - Remote Ambient Thermostat	LOWER DECK	1724001647	nVent	nVent	1244-022663	ETS-05-A2-E-A	Zone 1	Baseefa 13ATEX0137	1724001647-EL-DD-00004	II 2(1)G Ex eb ia mb [ia Ga] IIC T5 Gb - 40ºC ≤ Ta ≤ +60ºC II 2D Ex tb IIIC T100ºC Db	-	N/A	True	N/A	False	
EHT-1001-A	Self-regulating heat cable	LOWER DECK	1724001647	nVent	nVent	469145-000	3BTV2-CT	Zone 1	SGS20ATEX0048X	1724001647-EL-DD-00004	II 2 GD Ex 60079-30-1 eb IIC T6 Gb	-	N/A	True	N/A	True	
EHT-1002-A	Self-regulating heat cable	LOWER DECK	1724001647	nVent	nVent	469145-000	3BTV2-CT	Zone 1	SGS20ATEX0048X	1724001647-EL-DD-00004	II 2 GD Ex 60079-30-1 eb IIC T6 Gb	-	N/A	True	N/A	True	
EHT-1003-A	Self-regulating heat cable	LOWER DECK	1724001647	nVent	nVent	469145-000	3BTV2-CT	Zone 1	SGS20ATEX0048X	1724001647-EL-DD-00004	II 2 GD Ex 60079-30-1 eb IIC T6 Gb	-	N/A	True	N/A	True	
EHT-1004-A	Self-regulating heat cable	UPPER DECK	1724001647	nVent	nVent	469145-000	3BTV2-CT	Zone 1	SGS20ATEX0048X	1724001647-EL-DD-00004	II 2 GD Ex 60079-30-1 eb IIC T6 Gb	-	N/A	True	N/A	True	
EHT-1004-B	Self-regulating heat cable	UPPER DECK	1724001647	nVent	nVent	469145-000	3BTV2-CT	Zone 1	SGS20ATEX0048X	1724001647-EL-DD-00004	II 2 GD Ex 60079-30-1 eb IIC T6 Gb	-	N/A	True	N/A	True	
EHT-1005-A	Self-regulating heat cable	UPPER DECK	1724001647	nVent	nVent	469145-000	3BTV2-CT	Zone 1	SGS20ATEX0048X	1724001647-EL-DD-00004	II 2 GD Ex 60079-30-1 eb IIC T6 Gb	-	N/A	True	N/A	True	
EHT-1006-A	Self-regulating heat cable	UPPER DECK	1724001647	nVent	nVent	469145-000	3BTV2-CT	Zone 1	SGS20ATEX0048X	1724001647-EL-DD-00004	II 2 GD Ex 60079-30-1 eb IIC T6 Gb	-	N/A	True	N/A	True	
EHT-1007-A	Self-regulating heat cable	LOWER DECK	1724001647	nVent	nVent	469145-000	3BTV2-CT	Zone 1	SGS20ATEX0048X	1724001647-EL-DD-00004	II 2 GD Ex 60079-30-1 eb IIC T6 Gb	-	N/A	True	N/A	True	
EHT-2002-A	Self-regulating heat cable	UPPER DECK	1724001647	nVent	nVent	469145-000	3BTV2-CT	Zone 1	SGS20ATEX0048X	1724001647-EL-DD-00004	II 2 GD Ex 60079-30-1 eb IIC T6 Gb	-	N/A	True	N/A	True	
EJB-200F2-01	Top Obstruction Lights Junction Box	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990082	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	HAZARDOUS-AREA_8 HAZARDOUS-AREA_3
EJB-200F2-02	Intermediate obstruction lights junction box	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990083	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	HAZARDOUS-AREA_4
EJB-200N1-02-L1-01	Normal Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990045	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-02-L1-02	Normal Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990044	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-02-L1-03	Normal Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990043	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	HAZARDOUS-AREA_3
EJB-200N1-02-L1-05	Normal Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990058	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-02-L1-06	Normal Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990057	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-02-L1-07	Normal Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990059	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-02-L1-08	Normal Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990060	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-02-L1-09	Normal Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990061	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-02-L1-10	Normal Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990047	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-02-L1-11	Normal Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990056	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-02-L1-12	Normal Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990055	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-02-L1-13	Normal Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990054	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-02-L1-14	Normal Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990053	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-02-L1-15	Normal Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990052	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-02-L1-16	Normal Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990051	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-02-L1-17	Normal Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990050	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-02-L1-18	Normal Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990049	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-02-L1-19	Normal Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990048	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-02-L1-20	Normal Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990072	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-03-L2-01	Normal Lighting JB	LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990003	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-03-L2-02	Normal Lighting JB	LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990004	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-03-L2-03	Normal Lighting JB	LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990002	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-03-L2-04	Normal Lighting JB	LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990001	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-03-L2-05	Normal Lighting JB	LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990012	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-03-L2-06	Normal Lighting JB	LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990011	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-03-L2-07	Normal Lighting JB	LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990010	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-03-L2-08	Normal Lighting JB	LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990009	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-03-L2-09	Normal Lighting JB	LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990008	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-03-L2-10	Normal Lighting JB	LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990007	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-03-L2-11	Normal Lighting JB	LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990006	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-03-L2-12	Normal Lighting JB	LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990005	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-03-L2-13	Normal Lighting JB	LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990014	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-03-L2-14	Normal Lighting JB	LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990013	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-04-L3-01	Stair Normal Lighting JB	LOWER DECK STAIRS	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990032	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-04-L3-02	Stair Normal Lighting JB	LOWER DECK STAIRS	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990033	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-08-L1-01	Emergency Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990064	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-08-L1-03	Emergency Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990062	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	HAZARDOUS-AREA_3
EJB-200N1-08-L1-04	Emergency Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990065	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-08-L1-05	Emergency Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990077	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-08-L1-06	Emergency Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990078	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	

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[1] # EU – TYPE EXAMINATION CERTIFICATE

[2] Equipment or Protective Systems Intended for use in Potentially Explosive Atmospheres Directive 2014/34/EU.

[3] EU-Type Examination Certificate Number: **FIDI 21 ATEX 0090X** Issue: **1**

[4] Product: **Junction boxes, local control stations and local control panels**

Type: **AQ-***P / AQ-***AL / AR-***P / AR-***AL**
AQ-*P-HT / AQ-***AL-HT / AR-***P-HT / AR-***AL-HT**
SB-* / ST-***
EFE-* / EFXE-*** AL / EFXE-***SB / EFXE-***ST**
EFE-*-HT / EFXE-***AL-HT**

[5] Manufacturer: **Technor Italsmea S.p.A.**

[6] Address: **Via Italia 33, 20060 Gessate (MI), Italy**

[7] This product and any acceptable variation thereto is specified in the schedule to this certificate and documents therein referred to.

[8] FIDITAS Ltd., Notified Body number 2829 in accordance with Article 17 of Directive 2014/34/EU of the European Parliament and of the Council, dated 26 February 2014, certifies that this product has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of products intended for use in potentially explosive atmospheres given in Annex II of the Directive.

The examination and test results are recorded in confidential Report No: **FIDI 21 CR 075**

[9] Compliance with the Essential Health and Safety Requirements has been assured by compliance with:

EN IEC 60079-0:2018	**EN 60079-1:2014**	**EN IEC 60079-7:2015 / A1:2018**
EN 60079-11:2012	**EN 60079-18:2015/A1:2017**	**EN 60079-31:2014**

except in respect of those requirements listed at item 18 of the Schedule.

[10] If the sign 'X' is placed after the certificate number, it indicates that the product is subject to Specific Conditions of Use specified in the schedule to this certificate.

[11] This EU-Type Examination Certificate relates only to the design, examination and test of the specified product in accordance with Annex III. Further requirements of the Directive apply to the manufacturing process and supply of this products. These are not covered by this certificate.

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[12] The marking of the product shall include the following:



II 1 G	**Ex ia IIC/IIB T6...T4 Ga**(2) or
II 2(1) G or **II 2(2) G**	**Ex db eb ia/ib mb [**(3)**] IIC/IIB T6...T4 Gb**(1) or
II 2 G	**Ex eb IIC/IIB T6...T4 Gb**(1) or
II 2 D	**Ex tb IIIC T85°C...T135°C Db**

(1) Others type of protection additional to 'eb' depending to the components actually mounted.

(2) In case of enclosures containing 'eb' terminals and/or 'ia Ga' already certified components (with compatible marking) only.

(3) Associated equipment protection depending on the components actually mounted (see lists): e.g. [ia/ib/ia Ga/ia IIIC Da] and/or [ia IIIC Da] or [ia/ib/ia Ga/ia IIIC Da] and/or [ia/ib/ia Ga] [ia IIIC Da]

Our ref.: 21.CRT.400

Date: 23. 12.2021.

Fiditas d.o.o. ZAGREB

FIDITAS Ltd.
Certification department
Approved:

Marino Kelava, M.E.Eng.

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[13] **SCHEDULE**

[14] **EU - TYPE EXAMINATION CERTIFICATE No.:** **FIDI 21 ATEX 0090X**

[15] **Description of product**

Junction boxes, local control stations and local control panels are made of 'eb' and 'tb' enclosures in stainless steel, aluminium alloy or glass fiber reinforced polyester resin, of various dimensions, which shall house 'eb' and/or 'ia/ib' terminals and/or Ex components or Ex equipment made in different type of Ex protection. All Ex terminals, Ex components and Ex equipment are covered by their own ATEX certificates.

The terminals and components are be used according to data available in related component certificates, in relevant temperature range, voltage and current limitations. The terminals must be fitted in accordance with EN IEC 60079-0 and EN IEC 60079-7 with regards to creepage and clearance distances, and according to related safety instructions.

The cover is fixed to the body with screw, between body and cover a gasket guarantee the protection degree IP66 (IP66/67 depending on models). The cover of stainless-steel enclosure can be also fixed the body with looking devices, between body and cover a gasket guarantee the protection degree IP66. The IP degree of junction boxes, local control stations and local control panels depend on the components actually mounted. The walls and the bottom of the boxes can be drilled and taped with maximum size and maximum number of holes as specified in the manufacturer documents.

The cable glands or plugs, with separate ATEX certificate, made in type of protection 'eb' and/or 'tb' with appropriate IP protection are mounted according to related manufacturer's installation instructions. Each enclosure is provided with internal earthing certified terminal or earthing screw or bolt. Metal enclosures are provided by external earthing screw or bolt. Metal and polyester enclosures can be provided by passing through earthing terminals.

All enclosures can be provided by:
- Externally installed accessories as specified in manufacturer documents,
- Drain breath device type ECR3, included in this certificate,
- Internal/external earthing plate.

Model identification

Junction boxes

A(1)-(2) (3) (4) (5) (6)	(1) –	**Q**: Square size **R**: Rectangular size
	(2) (3) (4)	dimension, in cm
	(5)	Material **P**: Glass fiber reinforced polyester resin **AL**: Aluminium Alloy
	(6)	None: up to internal temperature of 105°C **HT**: up to internal temperature of 130°C
SB- (2) (3) (4)	(2) (3) (4)	dimension, in cm
ST- (2) (3) (4)	(2) (3) (4)	dimension, in cm

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Panel boards

EFE- (2) (3) (4) (6)	(2) (3) (4)	dimension, in cm
	(6)	None: up to internal temperature of 105°C **HT**: up to internal temperature of 130°C
EFXE- (2) (3) (4) (5) (6)	(2) (3) (4)	dimension, in cm
		Material
	(5)	**SB** or **ST**: stainless steel **AL**: Aluminium Alloy
	(6)	None: up to internal temperature of 105°C **HT**: up to internal temperature of 130°C

Technical data:

Electrical data:	According to Ex component to actually installed
Ambient temperature:	-50°C ÷ +95°C Other possible ranges are with: - min temperature: -50°C to -20 °C - max temperature of +40 °C to +95 °C
Mechanical protection:	IP66/IP67 depending on models IP66 without swing handle element IP55 with swing handle element

Temperature class and/or maximum surface temperature of any junction box or control panel depend on ambient temperature and internal power dissipation. The values that must be observed are given in relevant tables in this certificate.

For commercial reasons model name listed in the tables below can be modified as follows: first (2) and second (3) pair of digits can be reversed.

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Model sizes

Polyester High Temperature		Aluminium High Temperature	
AQ-080806P-HT	EFE-080806-HT	AQ-080806AL-HT	EFXE-080806AL-HT
AQ-080808P-HT	EFE-080808-HT	AR-081306AL-HT	EFXE-081306AL-HT
AR-081106P-HT	EFE-081106-HT	AR-081806AL-HT	EFXE-081806AL-HT
AR-081108P-HT	EFE-081108-HT	AR-082505AL-HT	EFXE-082505AL-HT
AR-081606P-HT	EFE-081606-HT	AQ-101008AL-HT	EFXE-101008AL-HT
AR-081608P-HT	EFE-081608-HT	AR-101608AL-HT	EFXE-101608AL-HT
AR-081906P-HT	EFE-081906-HT	AR-102008AL-HT	EFXE-102008AL-HT
AR-081908P-HT	EFE-081908-HT	AQ-121208AL-HT	EFXE-121208AL-HT
AR-082306P-HT	EFE-082306-HT	AQ-121209AL-HT	EFXE-121209AL-HT
AR-082308P-HT	EFE-082308-HT	AR-122208AL-HT	EFXE-122208AL-HT
AQ-121209P-HT	EFE-121209-HT	AR-122209AL-HT	EFXE-122209AL-HT
AR-122209P-HT	EFE-122209-HT	AR-123608AL-HT	EFXE-123608AL-HT
AQ-161609P-HT	EFE-161609-HT	AQ-141409AL-HT	EFXE-141409AL-HT
AR-162609P-HT	EFE-162609-HT	AR-142009AL-HT	EFXE-142009AL-HT
AR-163609P-HT	EFE-163609-HT	AQ-161609AL-HT	EFXE-161609AL-HT
AR-165609P-HT	EFE-165609-HT	AR-162609AL-HT	EFXE-162609AL-HT
AQ-202017P-HT	EFE-202017-HT	AR-163609AL-HT	EFXE-163609AL-HT
AR-203017P-HT	EFE-203017-HT	AR-165609AL-HT	EFXE-165609AL-HT
AQ-252612P-HT	EFE-252612-HT	AQ-181810AL-HT	EFXE-181810AL-HT
AQ-252616P-HT	EFE-252616-HT	AR-182810AL-HT	EFXE-182810AL-HT
AR-254012P-HT	EFE-254012-HT	AR-102311AL-HT	EFXE-102311AL-HT
AR-254016P-HT	EFE-254016-HT	AR-202311AL-HT	EFXE-202311AL-HT
AR-256012P-HT	EFE-256012-HT	AR-202318AL-HT	EFXE-202318AL-HT
AR-304020P-HT	EFE-304020-HT	AR-232811AL-HT	EFXE-232811AL-HT
AQ-363609P-HT	EFE-363609-HT	AR-233311AL-HT	EFXE-233311AL-HT
AR-406025P-HT	EFE-406025-HT	AR-233318AL-HT	EFXE-233318AL-HT
AQ-414012P-HT	EFE-414012-HT	AR-234011AL-HT	EFXE-234011AL-HT
AQ-414020P-HT	EFE-414020-HT	AR-234023AL-HT	EFXE-234023AL-HT
		AR-236011AL-HT	EFXE-236011AL-HT
		AR-314011AL-HT	EFXE-314011AL-HT
		AR-314014AL-HT	EFXE-314014AL-HT
		AR-314018AL-HT	EFXE-314018AL-HT
		AR-314023AL-HT	EFXE-314023AL-HT
		AR-316011AL-HT	EFXE-316011AL-HT
		AR-316018AL-HT	EFXE-316018AL-HT
		AQ-606020AL-HT	EFXE-606020AL-HT

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Polyester		Aluminium		Stainless steel	
AQ-080806P	EFE-080806	AQ-080806AL	EFXE-080806AL	SB-101210	EFXE-101210SB
AQ-080808P	EFE-080808	AR-081306AL	EFXE-081306AL	SB-151510	EFXE-151510SB
AR-081106P	EFE-081106	AR-081806AL	EFXE-081806AL	SB-142013	EFXE-142013SB
AR-081606P	EFE-081606	AR-081808AL	EFXE-081808AL	SB-202010	EFXE-202010SB
AR-081906P	EFE-081906	AR-082505AL	EFXE-082505AL	SB-202016	EFXE-202016SB
AQ-121209P	EFE-121209	AR-082508AL	EFXE-082508AL	SB-202713	EFXE-202713SB
AR-122209P	EFE-122209	AQ-101008AL	EFXE-101008AL	SB-272713	EFXE-272713SB
AQ-161609P	EFE-161609	AR-101508AL	EFXE-101508AL	SB-203016	EFXE-203016SB
AR-162609P	EFE-162609	AR-101608AL	EFXE-101608AL	SB-273513	EFXE-273513SB
AR-163609P	EFE-163609	AR-102008AL	EFXE-102008AL	SB-282816	EFXE-282816SB
AQ-252612P	EFE-252612	AQ-121208AL	EFXE-121208AL	SB-204016	EFXE-204016SB
AQ-252616P	EFE-252616	AR-122209AL	EFXE-122209AL	SB-353516	EFXE-353516SB
AR-254012P	EFE-254012	AQ-141409AL	EFXE-141409AL	SB-282827	EFXE-282827SB
AR-254016P	EFE-254016	AR-142009AL	EFXE-142009AL	SB-355016	EFXE-355016SB
AR-256012P	EFE-256012	AQ-161609AL	EFXE-161609AL	SB-383816	EFXE-383816SB
AQ-414012P	EFE-414012	AR-162410AL	EFXE-162410AL	SB-384516	EFXE-384516SB
		AR-162609AL	EFXE-162609AL	SB-385716	EFXE-385716SB
		AQ-181810AL	EFXE-181810AL	SB-505016	EFXE-505016SB
		AR-182810AL	EFXE-182810AL	SB-383827	EFXE-383827SB
		AR-202311AL	EFXE-202311AL	SB-575716	EFXE-575716SB
		AR-202318AL	EFXE-202318AL	SB-577620	EFXE-577620SB
		AR-232811AL	EFXE-232811AL	SB-575730	EFXE-575730SB
		AR-233312AL	EFXE-233312AL	SB-769520	EFXE-769520SB
		AR-233318AL	EFXE-233318AL	SB-1258040	EFXE-1258040SB

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Enclosure types (Stainless steel)	
ST-101210	EFXE-101210ST
ST-151510	EFXE-151510ST
ST-142013	EFXE-142013ST
ST-202010	EFXE-202010ST
ST-202016	EFXE-202016ST
ST-202713	EFXE-202713ST
ST-272713	EFXE-272713ST
ST-203016	EFXE-203016ST
ST-273513	EFXE-273513ST
ST-282816	EFXE-282816ST
ST-204016	EFXE-204016ST
ST-353516	EFXE-353516ST
ST-282827	EFXE-282827ST
ST-355016	EFXE-355016ST
ST-383816	EFXE-383816ST
ST-384516	EFXE-384516ST
ST-385716	EFXE-385716ST
ST-505016	EFXE-505016ST
ST-383827	EFXE-383827ST
ST-575716	EFXE-575716ST
ST-577620	EFXE-577620ST
ST-575730	EFXE-575730ST
ST-769520	EFXE-769520ST
ST-1258040	EFXE-1258040ST

Note 2 For stainless steel enclosures: dimensions (2) and (3) can be decreased or increased up to 20%, dimensions (4) can be increased up to 500 mm. Model name changes consequently.

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Power dissipation – HT glass fiber reinforced polyester resin enclosures

Enclosure types (polyester)		Maximum power dissipation (W) – Tamb. up to **40**°C							
		INTERNAL TEMP.60°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)	INTERNAL TEMP.127°C (T4/T135°C)
AQ-080806P-HT	EFE-080806-HT	3,5	5,2	7,0	7,8	9,6	10,4	11,3	15,2
AQ-080808P-HT	EFE-080808-HT	4,6	6,8	9,1	10,2	12,5	13,7	14,8	19,8
AR-081106P-HT	EFE-081106-HT	4,3	6,4	8,5	9,6	11,8	12,8	13,9	18,6
AR-081108P-HT	EFE-081108-HT	5,6	8,4	11,2	12,6	15,3	16,7	18,1	24,2
AR-081606P-HT	EFE-081606-HT	5,8	8,7	11,6	13,0	15,9	17,4	18,8	25.2
AR-081608P-HT	EFE-081608-HT	6,8	10,2	13,7	15,4	18,8	20,5	22,2	29,7
AR-081906P-HT	EFE-081906-HT	6,4	9,6	12,8	14,4	17,6	19,2	20,8	27,8
AR-081908P-HT	EFE-081908-HT	7,5	11,3	15,1	17,0	20,7	22,6	24,5	32,7
AR-082306P-HT	EFE-082306-HT	7,2	10,8	14,4	16,2	19,8	21,6	23,4	31,3
AR-082308P-HT	EFE-082308-HT	8,5	12,7	16,9	19,0	23,3	25,4	27,5	36,7
AQ-121209P-HT	EFE-121209-HT	8,0	12,0	15,9	17,9	21,9	23,9	25,9	34,7
AR-122209P-HT	EFE-122209-HT	10,8	16,2	21,6	24,3	29,7	32,4	35,1	47,0
AQ-161609P-HT	EFE-161609-HT	10,4	15,6	20,8	23,4	28,6	31,2	33,8	45,2
AR-162609P-HT	EFE-162609-HT	13,4	20,1	26,8	30,2	36,9	40,2	43,6	58,3
AR-163609P-HT	EFE-163609-HT	16,2	24,3	32,4	36,5	44,6	48,6	52,7	70,5
AR-165609P-HT	EFE-165609-HT	21,4	32,0	42,7	48,1	58,7	64,1	69,4	92,9
AQ-202017P-HT	EFE-202017-HT	18,0	26,9	35,9	40,4	49,4	53,9	58,4	78,1
AR-203017P-HT	EFE-203017-HT	20,9	31,3	41,7	47,0	57,4	62,6	67,8	90,8
AQ-252612P-HT	EFE-252612-HT	18,8	28,2	37,6	42,4	51,8	56,5	61,2	81,9
AQ-252616P-HT	EFE-252616-HT	20,8	31,1	41,5	46,7	57,1	62,3	67,5	90,3
AR-254012P-HT	EFE-254012-HT	22,8	34,2	45,7	51,4	62,8	68,5	74,2	99,3
AR-254016P-HT	EFE-254016-HT	26,2	39,3	52,4	58,9	72,0	78,6	85,1	113,9
AR-256012P-HT	EFE-256012-HT	29,0	43,6	58,1	65,3	79,9	87,1	94,4	126,3
AR-304020P-HT	EFE-304020-HT	32,3	48,5	64,7	72,7	88,9	97,0	105,1	140,7
AQ-363609P-HT	EFE-363609-HT	23,0	34,6	46,1	51,8	63,4	69,1	74,9	100,2
AR-406025P-HT	EFE-406025-HT	50,3	75,5	100,7	113,3	138,4	151,0	163,6	218,9
AQ-414012P-HT	EFE-414012-HT	29,1	43,7	58,2	65,5	80,1	87,3	94,6	126,6
AQ-414020P-HT	EFE-414020-HT	36,6	55,0	73,3	82,4	100,8	109,9	119,1	159,4

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Enclosure types (polyester)		Maximum power dissipation (W) – Tamb. up to **50**°C							
		INTERNAL TEMP.60°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)	INTERNAL TEMP.127°C (T4/T135°C)
AQ-080806P-HT	EFE-080806-HT	1,7	3,5	5,2	6,1	7,8	8,7	9,6	13,4
AQ-080808P-HT	EFE-080808-HT	2,3	4,6	6,8	8,0	10,2	11,4	12,5	17,5
AR-081106P-HT	EFE-081106-HT	2,1	4,3	6,4	7,5	9,6	10,7	11,8	16,5
AR-081108P-HT	EFE-081108-HT	2,8	5,6	8,4	9,8	12,6	13,9	15,3	21.5
AR-081606P-HT	EFE-081606-HT	2,9	5,8	8,7	10,1	13,0	14,5	15,9	22,3
AR-081608P-HT	EFE-081608-HT	3,4	6,8	10,2	11,9	15,4	17,1	18,8	26,3
AR-081906P-HT	EFE-081906-HT	3,2	6,4	9,6	11,2	14,4	16,0	17,6	24,6
AR-081908P-HT	EFE-081908-HT	3,8	7,5	11,3	13,2	17,0	18,8	20,7	29,0
AR-082306P-HT	EFE-082306-HT	3,6	7,2	10,8	12,6	16,2	18,0	19,8	27,7
AR-082308P-HT	EFE-082308-HT	4,2	8,5	12,7	14,8	19,0	21,1	23,3	32,5
AQ-121209P-HT	EFE-121209-HT	4,0	8,0	12,0	14,0	17,9	19,9	21,9	30,7
AR-122209P-HT	EFE-122209-HT	5,4	10,8	16,2	18,9	24,3	27,0	29,7	41,6
AQ-161609P-HT	EFE-161609-HT	5,2	10,4	15,6	18,2	23,4	26,0	28,6	40,0
AR-162609P-HT	EFE-162609-HT	6,7	13,4	20,1	23,5	30,2	33,5	36,9	51,6
AR-163609P-HT	EFE-163609-HT	8,1	16,2	24,3	28,4	36,5	40,5	44,6	62,3
AR-165609P-HT	EFE-165609-HT	10,7	21,4	32,0	37,4	48,1	53,4	58,7	82,2
AQ-202017P-HT	EFE-202017-HT	9,0	18,0	26,9	31,4	40,4	44,9	49,4	69,1
AR-203017P-HT	EFE-203017-HT	10,4	20,9	31,3	36,5	47,0	52,2	57,4	80,4
AQ-252612P-HT	EFE-252612-HT	9,4	18,8	28,2	32,9	42,4	47,1	51,8	72,5
AQ-252616P-HT	EFE-252616-HT	10,4	20,8	31,1	36,3	46,7	51,9	57,1	79,9
AR-254012P-HT	EFE-254012-HT	11,4	22,8	34,2	39,9	51,4	57,1	62,8	87,9
AR-254016P-HT	EFE-254016-HT	13,1	26,2	39,3	45,8	58,9	65,5	72,0	100,8
AR-256012P-HT	EFE-256012-HT	14,5	29,0	43,6	50,8	65,3	72,6	79,9	111,8
AR-304020P-HT	EFE-304020-HT	16,2	32,3	48,5	56,6	72,7	80,8	88,9	124,4
AQ-363609P-HT	EFE-363609-HT	11,5	23,0	34,6	40,3	51,8	57,6	63,4	88,7
AR-406025P-HT	EFE-406025-HT	25,2	50,3	75,5	88,1	113,3	125,8	138,4	193,8
AQ-414012P-HT	EFE-414012-HT	14,6	29,1	43,7	51,0	65,5	72,8	80,1	112,1
AQ-414020P-HT	EFE-414020-HT	18,3	36,6	55,0	64,1	82,4	91,6	100,8	141,1

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Enclosure types (polyester)		Maximum power dissipation (W) – Tamb. up to **55**°C							
		INTERNAL TEMP.65°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)	INTERNAL TEMP.127°C (T4/T135°C)
AQ-080806P-HT	EFE-080806-HT	1,7	2,6	4,4	5,2	7,0	7,8	8,7	12,5
AQ-080808P-HT	EFE-080808-HT	2,3	3,4	5,7	6,8	9,1	10,2	11,4	16,2
AR-081106P-HT	EFE-081106-HT	2,1	3,2	5,3	6,4	8,5	9,6	10,7	15,2
AR-081108P-HT	EFE-081108-HT	2,8	4,2	7,0	8,4	11,2	12,6	13,9	19,8
AR-081606P-HT	EFE-081606-HT	2,9	4,3	7,2	8,7	11,6	13,0	14,5	20,6
AR-081608P-HT	EFE-081608-HT	3,4	5,1	8,5	10,2	13,7	15,4	17,1	24,3
AR-081906P-HT	EFE-081906-HT	3,2	4,8	8,0	9,6	12,8	14,4	16,0	22,8
AR-081908P-HT	EFE-081908-HT	3,8	5,7	9,4	11,3	15,1	17,0	18,8	26,8
AR-082306P-HT	EFE-082306-HT	3,6	5,4	9,0	10,8	14,4	16,2	18,0	25,6
AR-082308P-HT	EFE-082308-HT	4,2	6,3	10,6	12,7	16,9	19,0	21,1	30,0
AQ-121209P-HT	EFE-121209-HT	4,0	6,0	10,0	12,0	15,9	17,9	19,9	28,3
AR-122209P-HT	EFE-122209-HT	5,4	8,1	13,5	16,2	21,6	24,3	27,0	38,3
AQ-161609P-HT	EFE-161609-HT	5,2	7,8	13,0	15,6	20,8	23,4	26,0	36,9
AR-162609P-HT	EFE-162609-HT	6,7	10,1	16,8	20,1	26,8	30,2	33,5	47,6
AR-163609P-HT	EFE-163609-HT	8,1	12,2	20,3	24,3	32,4	36,5	40,5	57,5
AR-165609P-HT	EFE-165609-HT	10,7	16,0	26,7	32,0	42,7	48,1	53,4	75,8
AQ-202017P-HT	EFE-202017-HT	9,0	13,5	22,4	26,9	35,9	40,4	44,9	63,7
AR-203017P-HT	EFE-203017-HT	10,4	15,7	26,1	31,3	41,7	47,0	52,2	74,0
AQ-252612P-HT	EFE-252612-HT	9,4	14,1	23,5	28,2	37,6	42,4	47,1	66,8
AQ-252616P-HT	EFE-252616-HT	10,4	15,6	26,0	31,1	41,5	46,7	51,9	73,7
AR-254012P-HT	EFE-254012-HT	11,4	17,1	28,5	34,2	45,7	51,4	57,1	81,0
AR-254016P-HT	EFE-254016-HT	13,1	19,6	32,7	39,3	52,4	58,9	65,5	92,9
AR-256012P-HT	EFE-256012-HT	14,5	21,8	36,3	43,6	58,1	65,3	72,6	103,0
AR-304020P-HT	EFE-304020-HT	16,2	24,2	40,4	48,5	64,7	72,7	80,8	114,7
AQ-363609P-HT	EFE-363609-HT	11,5	17,3	28,8	34,6	46,1	51,8	57,6	81,8
AR-406025P-HT	EFE-406025-HT	25,2	37,8	62,9	75,5	100,7	113,3	125,8	178,6
AQ-414012P-HT	EFE-414012-HT	14,6	21,8	36,4	43,7	58,2	65,5	72,8	103,0
AQ-414020P-HT	EFE-414020-HT	18,3	27,5	45,8	55,0	73,3	82,4	91,6	130,0

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Enclosure types (polyester)		Maximum power dissipation (W) – Tamb. up to **60**°C						
		INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)	INTERNAL TEMP.127°C (T4/T135°C)
AQ-080806P-HT	EFE-080806-HT	1,7	3,5	4,4	6,1	7,0	7,8	11,7
AQ-080808P-HT	EFE-080808-HT	2,3	4,6	5,7	8,0	9,1	10,2	15,2
AR-081106P-HT	EFE-081106-HT	2,1	4,3	5,3	7,5	8,5	9,6	14,3
AR-081108P-HT	EFE-081108-HT	2,8	5,6	7,0	9,8	11,2	12,6	18,7
AR-081606P-HT	EFE-081606-HT	2,9	5,8	7,2	10,1	11,6	13,0	19,4
AR-081608P-HT	EFE-081608-HT	3,4	6,8	8,5	11,9	13,7	15,4	22,9
AR-081906P-HT	EFE-081906-HT	3,2	6,4	8,0	11,2	12,8	14,4	21,4
AR-081908P-HT	EFE-081908-HT	3,8	7,5	9,4	13,2	15,1	17,0	25,3
AR-082306P-HT	EFE-082306-HT	3,6	7,2	9,0	12,6	14,4	16,2	24,1
AR-082308P-HT	EFE-082308-HT	4,2	8,5	10,6	14,8	16,9	19,0	28,3
AQ-121209P-HT	EFE-121209-HT	4,0	8,0	10,0	14,0	15,9	17,9	26,7
AR-122209P-HT	EFE-122209-HT	5,4	10,8	13,5	18,9	21,6	24,3	36,2
AQ-161609P-HT	EFE-161609-HT	5,2	10,4	13,0	18,2	20,8	23,4	34,8
AR-162609P-HT	EFE-162609-HT	6,7	13,4	16,8	23,5	26,8	30,2	44,9
AR-163609P-HT	EFE-163609-HT	8,1	16,2	20,3	28,4	32,4	36,5	54,2
AR-165609P-HT	EFE-165609-HT	10,7	21,4	26,7	37,4	42,7	48,1	71,5
AQ-202017P-HT	EFE-202017-HT	9,0	18,0	22,4	31,4	35,9	40,4	60,1
AR-203017P-HT	EFE-203017-HT	10,4	20,9	26,1	36,5	41,7	47,0	69,9
AQ-252612P-HT	EFE-252612-HT	9,4	18,8	23,5	32,9	37,6	42,4	63,0
AQ-252616P-HT	EFE-252616-HT	10,4	20,8	26,0	36,3	41,5	46,7	69,5
AR-254012P-HT	EFE-254012-HT	11,4	22,8	28,5	39,9	45,7	51,4	76,5
AR-254016P-HT	EFE-254016-HT	13,1	26,2	32,7	45,8	52,4	58,9	87,7
AR-256012P-HT	EFE-256012-HT	14,5	29,0	36,3	50,8	58,1	65,3	97,2
AR-304020P-HT	EFE-304020-HT	16,2	32,3	40,4	56,6	64,7	72,7	108,3
AQ-363609P-HT	EFE-363609-HT	11,5	23,0	28,8	40,3	46,1	51,8	77,1
AR-406025P-HT	EFE-406025-HT	25,2	50,3	62,9	88,1	100,7	113,3	168,7
AQ-414012P-HT	EFE-414012-HT	14,6	29,1	36,4	51,0	58,2	65,5	97,5
AQ-414020P-HT	EFE-414020-HT	18,3	36,6	45,8	64,1	73,3	82,4	122,7

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Enclosure types (polyester)		Maximum power dissipation (W) Tamb. up to **95**°C		
		INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)	INTERNAL TEMP.127°C (T4/T135°C)
AQ-080806P-HT	EFE-080806-HT	0,9	1,7	5,6
AQ-080808P-HT	EFE-080808-HT	1,1	2,3	7,3
AR-081106P-HT	EFE-081106-HT	1,1	2,1	6,5
AR-081108P-HT	EFE-081108-HT	1,4	2,8	9,0
AR-081606P-HT	EFE-081606-HT	1,4	2,9	9,2
AR-081608P-HT	EFE-081608-HT	1,7	3,4	10,9
AR-081906P-HT	EFE-081906-HT	1,6	3,2	10,2
AR-081908P-HT	EFE-081908-HT	1,9	3,8	12,1
AR-082306P-HT	EFE-082306-HT	1,8	3,6	11,5
AR-082308P-HT	EFE-082308-HT	2,1	4,2	13,5
AQ-121209P-HT	EFE-121209-HT	2,0	4,0	12,8
AR-122209P-HT	EFE-122209-HT	2,7	5,4	17,3
AQ-161609P-HT	EFE-161609-HT	2,6	5,2	16,6
AR-162609P-HT	EFE-162609-HT	3,4	6,7	21,5
AR-163609P-HT	EFE-163609-HT	4,1	8,1	26,0
AR-165609P-HT	EFE-165609-HT	5,3	10,7	34,2
AQ-202017P-HT	EFE-202017-HT	4,5	9,0	28,7
AR-203017P-HT	EFE-203017-HT	5,2	10,4	33,4
AQ-252612P-HT	EFE-252612-HT	4,7	9,4	30,1
AQ-252616P-HT	EFE-252616-HT	5,2	10,4	33,2
AR-254012P-HT	EFE-254012-HT	5,7	11,4	36,5
AR-254016P-HT	EFE-254016-HT	6,5	13,1	41,9
AR-256012P-HT	EFE-256012-HT	7,3	14,5	46,4
AR-304020P-HT	EFE-304020-HT	8,1	16,2	51,8
AQ-363609P-HT	EFE-363609-HT	5,8	11,5	36,8
AR-406025P-HT	EFE-406025-HT	12,6	25,2	80,6
AQ-414012P-HT	EFE-414012-HT	7,3	14,6	46,6
AQ-414020P-HT	EFE-414020-HT	9,2	18,3	58,6

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Power dissipation – HT aluminum alloy enclosures

Enclosure types (aluminium)		Maximum power dissipation (W) – Tamb. up to **40**°C							
		INTERNAL TEMP.60°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)	INTERNAL TEMP.130°C (T4/T135°C)
AQ-080806AL-HT	EFXE-080806AL-HT	5,2	7,8	10,4	11,7	14,3	15,6	16,9	23,4
AR-081306AL-HT	EFXE-081306AL-HT	7,0	10,6	14,1	15,9	19,4	21,2	23,0	31,8
AR-081806AL-HT	EFXE-081806AL-HT	8,9	13,3	17,8	20,0	24,5	26,7	28,9	40,0
AR-082505AL-HT	EFXE-082505AL-HT	10,9	16,4	21,9	24,7	30,1	32,9	35,6	49,4
AQ-101008AL-HT	EFXE-101008AL-HT	8,7	13,0	17,4	19,6	23,9	26,1	28,3	39,2
AR-101608AL-HT	EFXE-101608AL-HT	11,5	17,3	23,1	26,0	31,8	34,7	37,6	52,0
AR-102008AL-HT	EFXE-102008AL-HT	13,4	20,1	26,8	30,2	36,9	40,3	43,6	60,4
AQ-121208AL-HT	EFXE-121208AL-HT	10,8	16,2	21,6	24,3	29,7	32,4	35,1	48,6
AQ-121209AL-HT	EFXE-121209AL-HT	11,6	17,5	23,3	26,2	32,1	35,0	37,9	52,5
AR-122208AL-HT	EFXE-122208AL-HT	15,6	23,5	31,3	35,3	43,1	47,0	50,9	70,6
AR-122209AL-HT	EFXE-122209AL-HT	16,8	25,3	33,7	37,9	46,3	50,6	54,8	75,9
AR-123608AL-HT	EFXE-123608AL-HT	22,3	33,5	44,7	50,3	61,5	67,1	72,7	100,7
AQ-141409AL-HT	EFXE-141409AL-HT	13,7	20,6	27,5	31,0	37,9	41,3	44,8	62,0
AR-142009AL-HT	EFXE-142009AL-HT	17,1	25,7	34,2	38,5	47,1	51,4	55,7	77,1
AQ-161609AL-HT	EFXE-161609AL-HT	16,1	24,1	32,2	36,2	44,2	48,3	52,3	72,4
AR-162609AL-HT	EFXE-162609AL-HT	21,9	32,8	43,8	49,3	60,2	65,7	71,2	98,6
AR-163609AL-HT	EFXE-163609AL-HT	27,5	41,3	55,1	62,0	75,7	82,6	89,5	124,0
AR-165609AL-HT	EFXE-165609AL-HT	38,4	57,7	76,9	86,6	105,8	115,4	125,0	173,2
AQ-181810AL-HT	EFXE-181810AL-HT	19,7	29,6	39,5	44,4	54,3	59,2	64,2	88,8
AR-182810AL-HT	EFXE-182810AL-HT	26,1	39,1	52,2	58,7	71,8	78,3	84,8	117,5
AR-102311AL-HT	EFXE-102311AL-HT	18,2	27,3	36,5	41,0	50,1	54,7	59,3	82,1
AR-202311AL-HT	EFXE-202311AL-HT	26,1	39,1	52,2	58,7	71,7	78,3	84,8	117,4
AR-202318AL-HT	EFXE-202318AL-HT	35,9	53,9	71,8	80,8	98,8	107,8	116,8	161,7
AR-232811AL-HT	EFXE-232811AL-HT	31,6	47,5	63,3	71,3	87,1	95,0	103,0	142,6
AR-233311AL-HT	EFXE-233311AL-HT	35,3	52,9	70,6	79,4	97,0	105,9	114,7	158,8
AR-233318AL-HT	EFXE-233318AL-HT	47,5	71,3	95,1	107,0	130,8	142,7	154,6	214,1
AR-234011AL-HT	EFXE-234011AL-HT	40,2	60,4	80,5	90,6	110,7	120,8	130,9	181,2
AR-234023AL-HT	EFXE-234023AL-HT	62,2	93,3	124,5	140,0	171,2	186,7	202,3	280,1
AR-236011AL-HT	EFXE-236011AL-HT	54,1	81,2	108,3	121,9	148,9	162,5	176,0	243,8
AR-314011AL-HT	EFXE-314011AL-HT	48,6	72,9	97,2	109,3	133,6	145,8	157,9	218,7
AR-314014AL-HT	EFXE-314014AL-HT	54,9	82,4	109,9	123,7	151,2	164,9	178,7	247,4
AR-314018AL-HT	EFXE-314018AL-HT	63,8	95,7	127,6	143,5	175,4	191,4	207,3	287,1
AR-314023AL-HT	EFXE-314023AL-HT	73,5	110,3	147,1	165,5	202,3	220,7	239,1	331,0
AR-316011AL-HT	EFXE-316011AL-HT	64,0	96,0	128,1	144,1	176,1	192,1	208,1	288,2
AR-316018AL-HT	EFXE-316018AL-HT	82,7	124,1	165,5	186,2	227,6	248,3	268,9	372,4
AQ-606020AL-HT	EFXE-606020AL-HT	129,1	193,7	258,3	290,5	355,1	387,4	419,7	581,1

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Enclosure types (aluminium)		Maximum power dissipation (W) – Tamb. up to **50**°C							
		INTERNAL TEMP.60°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)	INTERNAL TEMP.130°C (T4/T135°C)
AQ-080806AL-HT	EFXE-080806AL-HT	2,6	5,2	7,8	9,1	11,7	13,0	14,3	20,8
AR-081306AL-HT	EFXE-081306AL-HT	3,5	7,0	10,6	12,3	15,9	17,7	19,4	28,3
AR-081806AL-HT	EFXE-081806AL-HT	4,4	8,9	13,3	15,5	20,0	22,2	24,5	35,6
AR-082505AL-HT	EFXE-082505AL-HT	5,4	10,9	16,4	19,2	24,7	27,4	30,1	43,9
AQ-101008AL-HT	EFXE-101008AL-HT	4,3	8,7	13,0	15,2	19,6	21,7	23,9	34,8
AR-101608AL-HT	EFXE-101608AL-HT	5,7	11,5	17,3	20,2	26,0	28,9	31,8	46,2
AR-102008AL-HT	EFXE-102008AL-HT	6,7	13,4	20,1	23,5	30,2	33,5	36,9	53,7
AQ-121208AL-HT	EFXE-121208AL-HT	5,4	10,8	16,2	18,9	24,3	27,0	29,7	43,2
AQ-121209AL-HT	EFXE-121209AL-HT	5,8	11,6	17,5	20,4	26,2	29,2	32,1	46,7
AR-122208AL-HT	EFXE-122208AL-HT	7,8	15,6	23,5	27,4	35,3	39,2	43,1	62,7
AR-122209AL-HT	EFXE-122209AL-HT	8,4	16,8	25,3	29,5	37,9	42,1	46,3	67,4
AR-123608AL-HT	EFXE-123608AL-HT	11,1	22,3	33,5	39,1	50,3	55,9	61,5	89,5
AQ-141409AL-HT	EFXE-141409AL-HT	6,8	13,7	20,6	24,1	31,0	34,4	37,9	55,1
AR-142009AL-HT	EFXE-142009AL-HT	8,5	17,1	25,7	30,0	38,5	42,8	47,1	68,5
AQ-161609AL-HT	EFXE-161609AL-HT	8,0	16,1	24,1	28,1	36,2	40,2	44,2	64,4
AR-162609AL-HT	EFXE-162609AL-HT	10,9	21,9	32,8	38,3	49,3	54,8	60,2	87,6
AR-163609AL-HT	EFXE-163609AL-HT	13,7	27,5	41,3	48,2	62,0	68,9	75,7	110,2
AR-165609AL-HT	EFXE-165609AL-HT	19,2	38,4	57,7	67,3	86,6	96,2	105,8	153,9
AQ-181810AL-HT	EFXE-181810AL-HT	9,8	19,7	29,6	34,5	44,4	49,3	54,3	79,0
AR-182810AL-HT	EFXE-182810AL-HT	13,0	26,1	39,1	45,7	58,7	65,2	71,8	104,4
AR-102311AL-HT	EFXE-102311AL-HT	9,1	18,2	27,3	31,9	41,0	45,6	50,1	73,0
AR-202311AL-HT	EFXE-202311AL-HT	13,0	26,1	39,1	45,6	58,7	65,2	71,7	104,4
AR-202318AL-HT	EFXE-202318AL-HT	17,9	35,9	53,9	62,8	80,8	89,8	98,8	143,7
AR-232811AL-HT	EFXE-232811AL-HT	15,8	31,6	47,5	55,4	71,3	79,2	87,1	126,7
AR-233311AL-HT	EFXE-233311AL-HT	17,6	35,3	52,9	61,7	79,4	88,2	97,0	141,2
AR-233318AL-HT	EFXE-233318AL-HT	23,7	47,5	71,3	83,2	107,0	118,9	130,8	190,3
AR-234011AL-HT	EFXE-234011AL-HT	20,1	40,2	60,4	70,5	90,6	100,7	110,7	161,1
AR-234023AL-HT	EFXE-234023AL-HT	31,1	62,2	93,3	108,9	140,0	155,6	171,2	249,0
AR-236011AL-HT	EFXE-236011AL-HT	27,0	54,1	81,2	94,8	121,9	135,4	148,9	216,7
AR-314011AL-HT	EFXE-314011AL-HT	24,3	48,6	72,9	85,0	109,3	121,5	133,6	194,4
AR-314014AL-HT	EFXE-314014AL-HT	27,4	54,9	82,4	96,2	123,7	137,4	151,2	219,9
AR-314018AL-HT	EFXE-314018AL-HT	31,9	63,8	95,7	111,6	143,5	159,5	175,4	255,2
AR-314023AL-HT	EFXE-314023AL-HT	36,7	73,5	110,3	128,7	165,5	183,9	202,3	294,2
AR-316011AL-HT	EFXE-316011AL-HT	32,0	64,0	96,0	112,0	144,1	160,1	176,1	256,2
AR-316018AL-HT	EFXE-316018AL-HT	41,3	82,7	124,1	144,8	186,2	206,9	227,6	331,0
AQ-606020AL-HT	EFXE-606020AL-HT	64,5	129,1	193,7	226,0	290,5	322,8	355,1	516,6

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Enclosure types (aluminium)		Maximum power dissipation (W) – Tamb. up to **55**°C							
		INTERNAL TEMP.65°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)	INTERNAL TEMP.130°C (T4/T135°C)
AQ-080806AL-HT	EFXE-080806AL-HT	2,6	3,9	6,5	7,8	10,4	11,7	13,0	19,5
AR-081306AL-HT	EFXE-081306AL-HT	3,5	5,3	8,8	10,6	14,1	15,9	17,7	26,5
AR-081806AL-HT	EFXE-081806AL-HT	4,4	6,6	11,1	13,3	17,8	20,0	22,2	33,4
AR-082505AL-HT	EFXE-082505AL-HT	5,4	8,2	13,7	16,4	21,9	24,7	27,4	41,1
AQ-101008AL-HT	EFXE-101008AL-HT	4,3	6,5	10,8	13,0	17,4	19,6	21,7	32,6
AR-101608AL-HT	EFXE-101608AL-HT	5,7	8,6	14,4	17,3	23,1	26,0	28,9	43,3
AR-102008AL-HT	EFXE-102008AL-HT	6,7	10,0	16,7	20,1	26,8	30,2	33,5	50,3
AQ-121208AL-HT	EFXE-121208AL-HT	5,4	8,1	13,5	16,2	21,6	24,3	27,0	40,5
AQ-121209AL-HT	EFXE-121209AL-HT	5,8	8,7	14,6	17,5	23,3	26,2	29,2	43,8
AR-122208AL-HT	EFXE-122208AL-HT	7,8	11,7	19,6	23,5	31,3	35,3	39,2	58,8
AR-122209AL-HT	EFXE-122209AL-HT	8,4	12,6	21,0	25,3	33,7	37,9	42,1	63,2
AR-123608AL-HT	EFXE-123608AL-HT	11,1	16,7	27,9	33,5	44,7	50,3	55,9	83,9
AQ-141409AL-HT	EFXE-141409AL-HT	6,8	10,3	17,2	20,6	27,5	31,0	34,4	51,7
AR-142009AL-HT	EFXE-142009AL-HT	8,5	12,8	21,4	25,7	34,2	38,5	42,8	64,3
AQ-161609AL-HT	EFXE-161609AL-HT	8,0	12,0	20,1	24,1	32,2	36,2	40,2	60,4
AR-162609AL-HT	EFXE-162609AL-HT	10,9	16,4	27,4	32,8	43,8	49,3	54,8	82,2
AR-163609AL-HT	EFXE-163609AL-HT	13,7	20,6	34,4	41,3	55,1	62,0	68,9	103,3
AR-165609AL-HT	EFXE-165609AL-HT	19,2	28,8	48,1	57,7	76,9	86,6	96,2	144,3
AQ-181810AL-HT	EFXE-181810AL-HT	9,8	14,8	24,6	29,6	39,5	44,4	49,3	74,0
AR-182810AL-HT	EFXE-182810AL-HT	13,0	19,5	32,6	39,1	52,2	58,7	65,2	97,9
AR-102311AL-HT	EFXE-102311AL-HT	9,1	13,6	22,8	27,3	36,5	41,0	45,6	68,4
AR-202311AL-HT	EFXE-202311AL-HT	13,0	19,5	32,6	39,1	52,2	58,7	65,2	97,9
AR-202318AL-HT	EFXE-202318AL-HT	17,9	26,9	44,9	53,9	71,8	80,8	89,8	134,7
AR-232811AL-HT	EFXE-232811AL-HT	15,8	23,7	39,6	47,5	63,3	71,3	79,2	118,8
AR-233311AL-HT	EFXE-233311AL-HT	17,6	26,4	44,1	52,9	70,6	79,4	88,2	132,3
AR-233318AL-HT	EFXE-233318AL-HT	23,7	35,6	59,4	71,3	95,1	107,0	118,9	178,4
AR-234011AL-HT	EFXE-234011AL-HT	20,1	30,2	50,3	60,4	80,5	90,6	100,7	151,0
AR-234023AL-HT	EFXE-234023AL-HT	31,1	46,6	77,8	93,3	124,5	140,0	155,6	233,4
AR-236011AL-HT	EFXE-236011AL-HT	27,0	40,6	67,7	81,2	108,3	121,9	135,4	203,1
AR-314011AL-HT	EFXE-314011AL-HT	24,3	36,4	60,7	72,9	97,2	109,3	121,5	182,3
AR-314014AL-HT	EFXE-314014AL-HT	27,4	41,2	68,7	82,4	109,9	123,7	137,4	206,2
AR-314018AL-HT	EFXE-314018AL-HT	31,9	47,8	79,7	95,7	127,6	143,5	159,5	239,2
AR-314023AL-HT	EFXE-314023AL-HT	36,7	55,1	91,9	110,3	147,1	165,5	183,9	275,8
AR-316011AL-HT	EFXE-316011AL-HT	32,0	48,0	80,0	96,0	128,1	144,1	160,1	240,1
AR-316018AL-HT	EFXE-316018AL-HT	41,3	62,0	103,4	124,1	165,5	186,2	206,9	310,3
AQ-606020AL-HT	EFXE-606020AL-HT	64,5	96,8	161,4	193,7	258,3	290,5	322,8	484,3

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Enclosure types (aluminium)		Maximum power dissipation (W) – Tamb. up to **60**°C						
		INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)	INTERNAL TEMP.130°C (T4/T135°C)
AQ-080806AL-HT	EFXE-080806AL-HT	2,6	5,2	6,5	9,1	10,4	11,7	18,2
AR-081306AL-HT	EFXE-081306AL-HT	3,5	7,0	8,8	12,3	14,1	15,9	24,7
AR-081806AL-HT	EFXE-081806AL-HT	4,4	8,9	11,1	15,5	17,8	20,0	31,1
AR-082505AL-HT	EFXE-082505AL-HT	5,4	10,9	13,7	19,2	21,9	24,7	38,4
AQ-101008AL-HT	EFXE-101008AL-HT	4,3	8,7	10,8	15,2	17,4	19,6	30,4
AR-101608AL-HT	EFXE-101608AL-HT	5,7	11,5	14,4	20,2	23,1	26,0	40,5
AR-102008AL-HT	EFXE-102008AL-HT	6,7	13,4	16,7	23,5	26,8	30,2	47,0
AQ-121208AL-HT	EFXE-121208AL-HT	5,4	10,8	13,5	18,9	21,6	24,3	37,8
AQ-121209AL-HT	EFXE-121209AL-HT	5,8	11,6	14,6	20,4	23,3	26,2	40,8
AR-122208AL-HT	EFXE-122208AL-HT	7,8	15,6	19,6	27,4	31,3	35,3	54,9
AR-122209AL-HT	EFXE-122209AL-HT	8,4	16,8	21,0	29,5	33,7	37,9	59,0
AR-123608AL-HT	EFXE-123608AL-HT	11,1	22,3	27,9	39,1	44,7	50,3	78,3
AQ-141409AL-HT	EFXE-141409AL-HT	6,8	13,7	17,2	24,1	27,5	31,0	48,2
AR-142009AL-HT	EFXE-142009AL-HT	8,5	17,1	21,4	30,0	34,2	38,5	60,0
AQ-161609AL-HT	EFXE-161609AL-HT	8,0	16,1	20,1	28,1	32,2	36,2	56,3
AR-162609AL-HT	EFXE-162609AL-HT	10,9	21,9	27,4	38,3	43,8	49,3	76,7
AR-163609AL-HT	EFXE-163609AL-HT	13,7	27,5	34,4	48,2	55,1	62,0	96,4
AR-165609AL-HT	EFXE-165609AL-HT	19,2	38,4	48,1	67,3	76,9	86,6	134,7
AQ-181810AL-HT	EFXE-181810AL-HT	9,8	19,7	24,6	34,5	39,5	44,4	69,1
AR-182810AL-HT	EFXE-182810AL-HT	13,0	26,1	32,6	45,7	52,2	58,7	91,4
AR-102311AL-HT	EFXE-102311AL-HT	9,1	18,2	22,8	31,9	36,5	41,0	63,8
AR-202311AL-HT	EFXE-202311AL-HT	13,0	26,1	32,6	45,6	52,2	58,7	91,3
AR-202318AL-HT	EFXE-202318AL-HT	17,9	35,9	44,9	62,8	71,8	80,8	125,7
AR-232811AL-HT	EFXE-232811AL-HT	15,8	31,6	39,6	55,4	63,3	71,3	110,9
AR-233311AL-HT	EFXE-233311AL-HT	17,6	35,3	44,1	61,7	70,6	79,4	123,5
AR-233318AL-HT	EFXE-233318AL-HT	23,7	47,5	59,4	83,2	95,1	107,0	166,5
AR-234011AL-HT	EFXE-234011AL-HT	20,1	40,2	50,3	70,5	80,5	90,6	141,0
AR-234023AL-HT	EFXE-234023AL-HT	31,1	62,2	77,8	108,9	124,5	140,0	217,9
AR-236011AL-HT	EFXE-236011AL-HT	27,0	54,1	67,7	94,8	108,3	121,9	189,6
AR-314011AL-HT	EFXE-314011AL-HT	24,3	48,6	60,7	85,0	97,2	109,3	170,1
AR-314014AL-HT	EFXE-314014AL-HT	27,4	54,9	68,7	96,2	109,9	123,7	192,4
AR-314018AL-HT	EFXE-314018AL-HT	31,9	63,8	79,7	111,6	127,6	143,5	223,3
AR-314023AL-HT	EFXE-314023AL-HT	36,7	73,5	91,9	128,7	147,1	165,5	257,4
AR-316011AL-HT	EFXE-316011AL-HT	32,0	64,0	80,0	112,0	128,1	144,1	224,1
AR-316018AL-HT	EFXE-316018AL-HT	41,3	82,7	103,4	144,8	165,5	186,2	289,6
AQ-606020AL-HT	EFXE-606020AL-HT	64,5	129,1	161,4	226,0	258,3	290,5	452,0

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Enclosure types (aluminium)		Maximum power dissipation (W) Tamb. up to **95**°C		
		INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)	INTERNAL TEMP.130°C (T4/T135°C)
AQ-080806AL-HT	EFXE-080806AL-HT	1,3	2,6	9,1
AR-081306AL-HT	EFXE-081306AL-HT	1,7	3,5	12,3
AR-081806AL-HT	EFXE-081806AL-HT	2,2	4,4	15,5
AR-082505AL-HT	EFXE-082505AL-HT	2,7	5,4	19,2
AQ-101008AL-HT	EFXE-101008AL-HT	2,1	4,3	15,2
AR-101608AL-HT	EFXE-101608AL-HT	2,8	5,7	20,2
AR-102008AL-HT	EFXE-102008AL-HT	3,3	6,7	23,5
AQ-121208AL-HT	EFXE-121208AL-HT	2,7	5,4	18,9
AQ-121209AL-HT	EFXE-121209AL-HT	2,9	5,8	20,4
AR-122208AL-HT	EFXE-122208AL-HT	3,9	7,8	27,4
AR-122209AL-HT	EFXE-122209AL-HT	4,2	8,4	29,5
AR-123608AL-HT	EFXE-123608AL-HT	5,5	11,1	39,1
AQ-141409AL-HT	EFXE-141409AL-HT	3,4	6,8	24,1
AR-142009AL-HT	EFXE-142009AL-HT	4,2	8,5	30,0
AQ-161609AL-HT	EFXE-161609AL-HT	4,0	8,0	28,1
AR-162609AL-HT	EFXE-162609AL-HT	5,4	10,9	38,3
AR-163609AL-HT	EFXE-163609AL-HT	6,8	13,7	48,2
AR-165609AL-HT	EFXE-165609AL-HT	9,6	19,2	67,3
AQ-181810AL-HT	EFXE-181810AL-HT	4,9	9,8	34,5
AR-182810AL-HT	EFXE-182810AL-HT	6,5	13,0	45,7
AR-102311AL-HT	EFXE-102311AL-HT	4,5	9,1	31,9
AR-202311AL-HT	EFXE-202311AL-HT	6,5	13,0	45,6
AR-202318AL-HT	EFXE-202318AL-HT	8,9	17,9	62,8
AR-232811AL-HT	EFXE-232811AL-HT	7,9	15,8	55,4
AR-233311AL-HT	EFXE-233311AL-HT	8,8	17,6	61,7
AR-233318AL-HT	EFXE-233318AL-HT	11,8	23,7	83,2
AR-234011AL-HT	EFXE-234011AL-HT	10,0	20,1	70,5
AR-234023AL-HT	EFXE-234023AL-HT	15,5	31,1	108,9
AR-236011AL-HT	EFXE-236011AL-HT	13,5	27,0	94,8
AR-314011AL-HT	EFXE-314011AL-HT	12,1	24,3	85,0
AR-314014AL-HT	EFXE-314014AL-HT	13,7	27,4	96,2
AR-314018AL-HT	EFXE-314018AL-HT	15,9	31,9	111,6
AR-314023AL-HT	EFXE-314023AL-HT	18,3	36,7	128,7
AR-316011AL-HT	EFXE-316011AL-HT	16,0	32,0	112,0
AR-316018AL-HT	EFXE-316018AL-HT	20,6	41,3	144,8
AQ-606020AL-HT	EFXE-606020AL-HT	32,2	64,5	226,0

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Power dissipation – Glass fiber reinforced polyester resin enclosures

Enclosure types (polyester)		Maximum power dissipation (W) – Tamb. up to **40**°C						
		INTERNAL TEMP.60°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
AQ-080806P	EFE-080806	3,4	5,2	6,9	7,8	9,5	10,4	11,3
AQ-080808P	EFE-080808	4,5	6,8	9,1	10,2	12,5	13,6	14,7
AR-081106P	EFE-081106	4,2	6,4	8,5	9,6	11,7	12,8	13,8
AR-081606P	EFE-081606	5,7	8,6	11,5	13,0	15,9	17,3	18,8
AR-081906P	EFE-081906	6,4	9,6	12,8	14,4	17,6	19,2	20,8
AQ-121209P	EFE-121209	7,9	11,9	15,9	17,9	21,9	23,9	25,9
AR-122209P	EFE-122209	10,8	16,2	21,6	24,3	29,7	32,4	35,1
AQ-161609P	EFE-161609	10,3	15,5	20,7	23,3	28,5	31,1	33,7
AR-162609P	EFE-162609	13,4	20,1	26,8	30,1	36,8	40,2	43,5
AR-163609P	EFE-163609	16,2	24,3	32,4	36,4	44,5	48,6	52,6
AQ-252612P	EFE-252612	18,8	28,2	37,6	42,3	51,7	56,4	61,1
AQ-252616P	EFE-252616	21,7	32,6	43,5	49,0	59,9	65,3	70,8
AR-254012P	EFE-254012	23,9	35,9	47,9	53,9	65,9	71,8	77,8
AR-254016P	EFE-254016	27,4	41,2	54,9	61,8	75,6	82,4	89,3
AR-256012P	EFE-256012	29,0	43,5	58,0	65,3	79,8	87,1	94,3
AQ-414012P	EFE-414012	29,1	43,6	58,2	65,5	80,0	87,3	94,6
AQ-414016P	EFE-414016	32,9	49,4	65,9	74,1	90,6	98,8	107,0

Enclosure types (polyester)		Maximum power dissipation (W) – Tamb. up to **50**°C						
		INTERNAL TEMP.60°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
AQ-080806P	EFE-080806	1,7	3,4	5,2	6,0	7,8	8,7	9,5
AQ-080808P	EFE-080808	2,2	4,5	6,8	7,9	10,2	11,3	12,5
AR-081106P	EFE-081106	2,1	4,2	6,4	7,4	9,6	10,6	11,7
AR-081606P	EFE-081606	2,8	5,7	8,6	10,1	13,0	14,4	15,9
AR-081906P	EFE-081906	3,2	6,4	9,6	11,2	14,4	16,0	17,6
AQ-121209P	EFE-121209	3,9	7,9	11,9	13,9	17,9	19,9	21,9
AR-122209P	EFE-122209	5,4	10,8	16,2	18,9	24,3	27,0	29,7
AQ-161609P	EFE-161609	5,1	10,3	15,5	18,1	23,3	25,9	28,5
AR-162609P	EFE-162609	6,7	13,4	20,1	23,4	30,1	33,5	36,8
AR-163609P	EFE-163609	8,1	16,2	24,3	28,3	36,4	40,5	44,5
AQ-252612P	EFE-252612	9,4	18,8	28,2	32,9	42,3	47,0	51,7
AQ-252616P	EFE-252616	10,8	21,7	32,6	38,1	49,0	54,4	59,9
AR-254012P	EFE-254012	11,9	23,9	35,9	41,9	53,9	59,9	65,9
AR-254016P	EFE-254016	13,7	27,4	41,2	48,1	61,8	68,7	75,6
AR-256012P	EFE-256012	14,5	29,0	43,5	50,8	65,3	72,6	79,8
AQ-414012P	EFE-414012	14,5	29,1	43,6	50,9	65,5	72,7	80,0
AQ-414016P	EFE-414016	16,4	32,9	49,4	57,6	74,1	82,3	90,6

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Enclosure types (polyester)		Maximum power dissipation (W) – Tamb. up to **55**°C						
		INTERNAL TEMP.65°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
AQ-080806P	EFE-080806	1,7	2,6	4,3	5,2	6,9	7,8	8,7
AQ-080808P	EFE-080808	2,2	3,4	5,6	6,8	9,1	10,2	11,3
AR-081106P	EFE-081106	2,1	3,2	5,3	6,4	8,5	9,6	10,6
AR-081606P	EFE-081606	2,8	4,3	7,2	8,6	11,5	13,0	14,4
AR-081906P	EFE-081906	3,2	4,8	8,0	9,6	12,8	14,4	16,0
AQ-121209P	EFE-121209	3,9	5,9	9,9	11,9	15,9	17,9	19,9
AR-122209P	EFE-122209	5,4	8,1	13,5	16,2	21,6	24,3	27,0
AQ-161609P	EFE-161609	5,1	7,7	12,9	15,5	20,7	23,3	25,9
AR-162609P	EFE-162609	6,7	10,0	16,7	20,1	26,8	30,1	33,5
AR-163609P	EFE-163609	8,1	12,1	20,2	24,3	32,4	36,4	40,5
AQ-252612P	EFE-252612	9,4	14,1	23,5	28,2	37,6	42,3	47,0
AQ-252616P	EFE-252616	10,8	16,3	27,2	32,6	43,5	49,0	54,4
AR-254012P	EFE-254012	11,9	17,9	29,9	35,9	47,9	53,9	59,9
AR-254016P	EFE-254016	13,7	20,6	34,3	41,2	54,9	61,8	68,7
AR-256012P	EFE-256012	14,5	21,7	36,3	43,5	58,0	65,3	72,6
AQ-414012P	EFE-414012	14,5	21,8	36,3	43,6	58,2	65,5	72,7
AQ-414016P	EFE-414016	16,4	24,7	41,1	49,4	65,9	74,1	82,3

Enclosure types (polyester)		Maximum power dissipation (W) – Tamb. up to **60**°C					
		INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
AQ-080806P	EFE-080806	1,7	3,4	4,3	6,0	6,9	7,8
AQ-080808P	EFE-080808	2,2	4,5	5,6	7,9	9,1	10,2
AR-081106P	EFE-081106	2,1	4,2	5,3	7,4	8,5	9,6
AR-081606P	EFE-081606	2,8	5,7	7,2	10,1	11,5	13,0
AR-081906P	EFE-081906	3,2	6,4	8,0	11,2	12,8	14,4
AQ-121209P	EFE-121209	3,9	7,9	9,9	13,9	15,9	17,9
AR-122209P	EFE-122209	5,4	10,8	13,5	18,9	21,6	24,3
AQ-161609P	EFE-161609	5,1	10,3	12,9	18,1	20,7	23,3
AR-162609P	EFE-162609	6,7	13,4	16,7	23,4	26,8	30,1
AR-163609P	EFE-163609	8,1	16,2	20,2	28,3	32,4	36,4
AQ-252612P	EFE-252612	9,4	18,8	23,5	32,9	37,6	42,3
AQ-252616P	EFE-252616	10,8	21,7	27,2	38,1	43,5	49,0
AR-254012P	EFE-254012	11,9	23,9	29,9	41,9	47,9	53,9
AR-254016P	EFE-254016	13,7	27,4	34,3	48,1	54,9	61,8
AR-256012P	EFE-256012	14,5	29,0	36,3	50,8	58,0	65,3
AQ-414012P	EFE-414012	14,5	29,1	36,3	50,9	58,2	65,5
AQ-414016P	EFE-414016	16,4	32,9	41,1	57,6	65,9	74,1

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Enclosure types (polyester)		Maximum power dissipation (W) – Tamb. up to **95**°C	
		INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
AQ-080806P	EFE-080806	0,8	1,7
AQ-080808P	EFE-080808	1,1	2,2
AR-081106P	EFE-081106	1,0	2,1
AR-081606P	EFE-081606	1,4	2,8
AR-081906P	EFE-081906	1,6	3,2
AQ-121209P	EFE-121209	1,9	3,9
AR-122209P	EFE-122209	2,7	5,4
AQ-161609P	EFE-161609	2,5	5,1
AR-162609P	EFE-162609	3,3	6,7
AR-163609P	EFE-163609	4,0	8,1
AQ-252612P	EFE-252612	4,7	9,4
AQ-252616P	EFE-252616	5,4	10,8
AR-254012P	EFE-254012	5,9	11,9
AR-254016P	EFE-254016	6,8	13,7
AR-256012P	EFE-256012	7,2	14,5
AQ-414012P	EFE-414012	7,2	14,5
AQ-414016P	EFE-414016	8,2	16,4

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Power dissipation – Aluminum alloy enclosures

Enclosure types (aluminium)		Maximum power dissipation (W) – Tamb. up to **40**°C						
		INTERNAL TEMP.60°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
AQ-080806AL	EFXE-080806AL	5,2	7,8	10,4	11,7	14,3	15,6	16,9
AR-081306AL	EFXE-081306AL	7,0	10,6	14,1	15,9	19,4	21,2	23,0
AR-081806AL	EFXE-081806AL	8,9	13,3	17,8	20,0	24,5	26,7	28,9
AR-081808AL	EFXE-081808AL	11,0	16,5	22,1	24,8	30,4	33,1	35,9
AR-082505AL	EFXE-082505AL	10,7	16,1	21,4	24,1	29,5	32,2	34,8
AR-082508AL	EFXE-082508AL	14,2	21,4	28,5	32,1	39,2	42,8	46,4
AQ-101008AL	EFXE-101008AL	8,7	13,0	17,4	19,6	23,9	26,1	28,3
AR-101508AL	EFXE-101508AL	11,1	16,6	22,2	24,9	30,5	33,3	36,0
AR-101608AL	EFXE-101608AL	11,5	17,3	23,1	26,0	31,8	34,7	37,6
AR-102008AL	EFXE-102008AL	13,4	20,1	26,8	30,2	36,9	40,3	43,6
AQ-121208AL	EFXE-121208AL	10,8	16,2	21,6	24,3	29,7	32,4	35,1
AR-122209AL	EFXE-122209AL	16,8	25,3	33,7	37,9	46,3	50,6	54,8
AQ-141409AL	EFXE-141409AL	13,7	20,6	27,5	31,0	37,9	41,3	44,8
AR-142009AL	EFXE-142009AL	17,1	25,7	34,2	38,5	47,1	51,4	55,7
AQ-161609AL	EFXE-161609AL	17,2	25,8	34,4	38,7	47,3	51,6	55,9
AR-162410AL	EFXE-162410AL	22,1	33,1	44,2	49,7	60,8	66,3	71,8
AR-162609AL	EFXE-162609AL	21,9	32,8	43,8	49,3	60,2	65,7	71,2
AQ-181810AL	EFXE-181810AL	19,7	29,6	39,5	44,4	54,3	59,2	64,2
AR-182810AL	EFXE-182810AL	26,1	39,1	52,2	58,7	71,8	78,3	84,8
AR-202311AL	EFXE-202311AL	25,8	38,7	51,6	58,0	71,0	77,4	83,9
AR-202318AL	EFXE-202318AL	35,5	53,3	71,1	80,0	97,8	106,7	115,6
AR-232811AL	EFXE-232811AL	31,6	47,5	63,3	71,3	87,1	95,0	103,0
AR-233312AL	EFXE-233312AL	37,0	55,6	74,1	83,4	101,9	111,2	120,5
AR-233318AL	EFXE-233318AL	47,5	71,3	95,1	107,0	130,8	142,7	154,6

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Enclosure types (aluminium)		Maximum power dissipation (W) – Tamb. up to **50**°C						
		INTERNAL TEMP.60°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
AQ-080806AL	EFXE-080806AL	2,6	5,2	7,8	9,1	11,7	13,0	14,3
AR-081306AL	EFXE-081306AL	3,5	7,0	10,6	12,3	15,9	17,7	19,4
AR-081806AL	EFXE-081806AL	4,4	8,9	13,3	15,5	20,0	22,2	24,5
AR-081808AL	EFXE-081808AL	5,5	11,0	16,5	19,3	24,8	27,6	30,4
AR-082505AL	EFXE-082505AL	5,3	10,7	16,1	18,7	24,1	26,8	29,5
AR-082508AL	EFXE-082508AL	7,1	14,2	21,4	24,9	32,1	35,7	39,2
AQ-101008AL	EFXE-101008AL	4,3	8,7	13,0	15,2	19,6	21,7	23,9
AR-101508AL	EFXE-101508AL	5,5	11,1	16,6	19,4	24,9	27,7	30,5
AR-101608AL	EFXE-101608AL	5,7	11,5	17,3	20,2	26,0	28,9	31,8
AR-102008AL	EFXE-102008AL	6,7	13,4	20,1	23,5	30,2	33,5	36,9
AQ-121208AL	EFXE-121208AL	5,4	10,8	16,2	18,9	24,3	27,0	29,7
AR-122209AL	EFXE-122209AL	8,4	16,8	25,3	29,5	37,9	42,1	46,3
AQ-141409AL	EFXE-141409AL	6,8	13,7	20,6	24,1	31,0	34,4	37,9
AR-142009AL	EFXE-142009AL	8,5	17,1	25,7	30,0	38,5	42,8	47,1
AQ-161609AL	EFXE-161609AL	8,6	17,2	25,8	30,1	38,7	43,0	47,3
AR-162410AL	EFXE-162410AL	11,0	22,1	33,1	38,7	49,7	55,3	60,8
AR-162609AL	EFXE-162609AL	10,9	21,9	32,8	38,3	49,3	54,8	60,2
AQ-181810AL	EFXE-181810AL	9,8	19,7	29,6	34,5	44,4	49,3	54,3
AR-182810AL	EFXE-182810AL	13,0	26,1	39,1	45,7	58,7	65,2	71,8
AR-202311AL	EFXE-202311AL	12,9	25,8	38,7	45,1	58,0	64,5	71,0
AR-202318AL	EFXE-202318AL	17,7	35,5	53,3	62,2	80,0	88,9	97,8
AR-232811AL	EFXE-232811AL	15,8	31,6	47,5	55,4	71,3	79,2	87,1
AR-233312AL	EFXE-233312AL	18,5	37,0	55,6	64,8	83,4	92,7	101,9
AR-233318AL	EFXE-233318AL	23,7	47,5	71,3	83,2	107,0	118,9	130,8

Enclosure types (aluminium)		Maximum power dissipation (W) – Tamb. up to **55**°C						
		INTERNAL TEMP.65°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
AQ-080806AL	EFXE-080806AL	2,6	3,9	6,5	7,8	10,4	11,7	13,0
AR-081306AL	EFXE-081306AL	3,5	5,3	8,8	10,6	14,1	15,9	17,7
AR-081806AL	EFXE-081806AL	4,4	6,6	11,1	13,3	17,8	20,0	22,2
AR-081808AL	EFXE-081808AL	5,5	8,2	13,8	16,5	22,1	24,8	27,6
AR-082505AL	EFXE-082505AL	5,3	8,0	13,4	16,1	21,4	24,1	26,8
AR-082508AL	EFXE-082508AL	7,1	10,7	17,8	21,4	28,5	32,1	35,7
AQ-101008AL	EFXE-101008AL	4,3	6,5	10,8	13,0	17,4	19,6	21,7
AR-101508AL	EFXE-101508AL	5,5	8,3	13,8	16,6	22,2	24,9	27,7
AR-101608AL	EFXE-101608AL	5,7	8,6	14,4	17,3	23,1	26,0	28,9
AR-102008AL	EFXE-102008AL	6,7	10,0	16,7	20,1	26,8	30,2	33,5
AQ-121208AL	EFXE-121208AL	5,4	8,1	13,5	16,2	21,6	24,3	27,0
AR-122209AL	EFXE-122209AL	8,4	12,6	21,0	25,3	33,7	37,9	42,1
AQ-141409AL	EFXE-141409AL	6,8	10,3	17,2	20,6	27,5	31,0	34,4
AR-142009AL	EFXE-142009AL	8,5	12,8	21,4	25,7	34,2	38,5	42,8
AQ-161609AL	EFXE-161609AL	8,6	12,9	21,5	25,8	34,4	38,7	43,0
AR-162410AL	EFXE-162410AL	11,0	16,5	27,6	33,1	44,2	49,7	55,3
AR-162609AL	EFXE-162609AL	10,9	16,4	27,4	32,8	43,8	49,3	54,8
AQ-181810AL	EFXE-181810AL	9,8	14,8	24,6	29,6	39,5	44,4	49,3
AR-182810AL	EFXE-182810AL	13,0	19,5	32,6	39,1	52,2	58,7	65,2
AR-202311AL	EFXE-202311AL	12,9	19,3	32,2	38,7	51,6	58,0	64,5
AR-202318AL	EFXE-202318AL	17,7	26,6	44,4	53,3	71,1	80,0	88,9
AR-232811AL	EFXE-232811AL	15,8	23,7	39,6	47,5	63,3	71,3	79,2
AR-233312AL	EFXE-233312AL	18,5	27,8	46,3	55,6	74,1	83,4	92,7
AR-233318AL	EFXE-233318AL	23,7	35,6	59,4	71,3	95,1	107,0	118,9

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Enclosure types (aluminium)		Maximum power dissipation (W) – Tamb. up to **60**°C					
		INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
AQ-080806AL	EFXE-080806AL	2,6	5,2	6,5	9,1	10,4	11,7
AR-081306AL	EFXE-081306AL	3,5	7,0	8,8	12,3	14,1	15,9
AR-081806AL	EFXE-081806AL	4,4	8,9	11,1	15,5	17,8	20,0
AR-081808AL	EFXE-081808AL	5,5	11,0	13,8	19,3	22,1	24,8
AR-082505AL	EFXE-082505AL	5,3	10,7	13,4	18,7	21,4	24,1
AR-082508AL	EFXE-082508AL	7,1	14,2	17,8	24,9	28,5	32,1
AQ-101008AL	EFXE-101008AL	4,3	8,7	10,8	15,2	17,4	19,6
AR-101508AL	EFXE-101508AL	5,5	11,1	13,8	19,4	22,2	24,9
AR-101608AL	EFXE-101608AL	5,7	11,5	14,4	20,2	23,1	26,0
AR-102008AL	EFXE-102008AL	6,7	13,4	16,7	23,5	26,8	30,2
AQ-121208AL	EFXE-121208AL	5,4	10,8	13,5	18,9	21,6	24,3
AR-122209AL	EFXE-122209AL	8,4	16,8	21,0	29,5	33,7	37,9
AQ-141409AL	EFXE-141409AL	6,8	13,7	17,2	24,1	27,5	31,0
AR-142009AL	EFXE-142009AL	8,5	17,1	21,4	30,0	34,2	38,5
AQ-161609AL	EFXE-161609AL	8,6	17,2	21,5	30,1	34,4	38,7
AR-162410AL	EFXE-162410AL	11,0	22,1	27,6	38,7	44,2	49,7
AR-162609AL	EFXE-162609AL	10,9	21,9	27,4	38,3	43,8	49,3
AQ-181810AL	EFXE-181810AL	9,8	19,7	24,6	34,5	39,5	44,4
AR-182810AL	EFXE-182810AL	13,0	26,1	32,6	45,7	52,2	58,7
AR-202311AL	EFXE-202311AL	12,9	25,8	32,2	45,1	51,6	58,0
AR-202318AL	EFXE-202318AL	17,7	35,5	44,4	62,2	71,1	80,0
AR-232811AL	EFXE-232811AL	15,8	31,6	39,6	55,4	63,3	71,3
AR-233312AL	EFXE-233312AL	18,5	37,0	46,3	64,8	74,1	83,4
AR-233318AL	EFXE-233318AL	23,7	47,5	59,4	83,2	95,1	107,0

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Enclosure types (aluminium)		Maximum power dissipation (W) – Tamb. up to **95**°C	
		INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
AQ-080806AL	EFXE-080806AL	1,3	2,6
AR-081306AL	EFXE-081306AL	1,7	3,5
AR-081806AL	EFXE-081806AL	2,2	4,4
AR-081808AL	EFXE-081808AL	2,7	5,5
AR-082505AL	EFXE-082505AL	2,6	5,3
AR-082508AL	EFXE-082508AL	3,5	7,1
AQ-101008AL	EFXE-101008AL	2,1	4,3
AR-101508AL	EFXE-101508AL	2,7	5,5
AR-101608AL	EFXE-101608AL	2,8	5,7
AR-102008AL	EFXE-102008AL	3,3	6,7
AQ-121208AL	EFXE-121208AL	2,7	5,4
AR-122209AL	EFXE-122209AL	4,2	8,4
AQ-141409AL	EFXE-141409AL	3,4	6,8
AR-142009AL	EFXE-142009AL	4,2	8,5
AQ-161609AL	EFXE-161609AL	4,3	8,6
AR-162410AL	EFXE-162410AL	5,5	11,0
AR-162609AL	EFXE-162609AL	5,4	10,9
AQ-181810AL	EFXE-181810AL	4,9	9,8
AR-182810AL	EFXE-182810AL	6,5	13,0
AR-202311AL	EFXE-202311AL	6,4	12,9
AR-202318AL	EFXE-202318AL	8,8	17,7
AR-232811AL	EFXE-232811AL	7,9	15,8
AR-233312AL	EFXE-233312AL	9,2	18,5
AR-233318AL	EFXE-233318AL	11,8	23,7

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Power dissipation – Stainless steel enclosures SB series

Enclosure types (stainless steel)		Maximum power dissipation (W) – Tamb. up to **40**°C						
		INTERNAL TEMP.60°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
SB-101210	EFXE-101210SB	5,5	8,3	11,1	12,5	15,3	16,7	18,1
SB-151510	EFXE-151510SB	8,0	12,0	16,0	18,0	22,0	24,0	26,1
SB-142013	EFXE-142013SB	10,4	15,7	20,9	23,5	28,8	31,4	34,0
SB-202010	EFXE-202010SB	10,7	16,1	21,4	24,1	29,5	32,2	34,8
SB-202016	EFXE-202016SB	13,9	20,8	27,8	31,3	38,3	41,7	45,2
SB-202713	EFXE-202713SB	14,4	21,6	28,9	32,5	39,7	43,3	46,9
SB-272713	EFXE-272713SB	16,7	25,1	33,5	37,7	46,0	50,2	54,4
SB-203016	EFXE-203016SB	17,1	25,7	34,3	38,6	47,2	51,4	55,7
SB-273513	EFXE-273513SB	19,2	28,9	38,5	43,3	53,0	57,8	62,6
SB-282816	EFXE-282816SB	19,3	29,0	38,7	43,6	53,3	58,1	63,0
SB-204016	EFXE-204016SB	20,2	30,3	40,4	45,5	55,6	60,6	65,7
SB-353516	EFXE-353516SB	24,4	36,6	48,8	54,9	67,1	73,2	79,3
SB-282827	EFXE-282827SB	26,2	39,3	52,5	59,0	72,2	78,7	85,3
SB-355016	EFXE-355016SB	29,7	44,5	59,4	66,8	81,7	89,1	96,6
SB-383816	EFXE-383816SB	26,6	39,9	53,2	59,8	73,1	79,8	86,5
SB-384516	EFXE-384516SB	29,1	43,7	58,3	65,6	80,2	87,5	94,8
SB-385716	EFXE-385716SB	33,4	50,1	66,8	75,2	91,9	100,3	108,7
SB-505016	EFXE-505016SB	35,8	53,8	71,7	80,7	98,6	107,6	116,6
SB-383827	EFXE-383827SB	35,1	52,7	70,2	79,0	96,6	105,4	114,2
SB-575716	EFXE-575716SB	41,5	62,3	83,1	93,5	114,3	124,7	135,1
SB-577620	EFXE-577620SB	53,9	80,9	107,9	121,3	148,3	161,8	175,3
SB-575730	EFXE-575730SB	55,8	83,7	111,6	125,6	153,5	167,5	181,4
SB-769520	EFXE-769520SB	72,2	108,3	144,4	162,4	198,5	216,6	234,6
SB-1258040	EFXE-1258040SB	72,2	108,3	144,4	162,4	198,5	216,6	234,6

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Enclosure types (Stainless steel)		Maximum power dissipation (W) – Tamb. up to **50**°C						
		INTERNAL TEMP.60°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
SB-101210	EFXE-101210SB	2,7	5,5	8,3	9,7	12,5	13,9	15,3
SB-151510	EFXE-151510SB	4,0	8,0	12,0	14,0	18,0	20,0	22,0
SB-142013	EFXE-142013SB	5,2	10,4	15,7	18,3	23,5	26,2	28,8
SB-202010	EFXE-202010SB	5,3	10,7	16,1	18,7	24,1	26,8	29,5
SB-202016	EFXE-202016SB	6,9	13,9	20,8	24,3	31,3	34,8	38,3
SB-202713	EFXE-202713SB	7,2	14,4	21,6	25,2	32,5	36,1	39,7
SB-272713	EFXE-272713SB	8,3	16,7	25,1	29,3	37,7	41,8	46,0
SB-203016	EFXE-203016SB	8,5	17,1	25,7	30,0	38,6	42,9	47,2
SB-273513	EFXE-273513SB	9,6	19,2	28,9	33,7	43,3	48,2	53,0
SB-282816	EFXE-282816SB	9,6	19,3	29,0	33,9	43,6	48,4	53,3
SB-204016	EFXE-204016SB	10,1	20,2	30,3	35,4	45,5	50,5	55,6
SB-353516	EFXE-353516SB	12,2	24,4	36,6	42,7	54,9	61,0	67,1
SB-282827	EFXE-282827SB	13,1	26,2	39,3	45,9	59,0	65,6	72,2
SB-355016	EFXE-355016SB	14,8	29,7	44,5	52,0	66,8	74,3	81,7
SB-383816	EFXE-383816SB	13,3	26,6	39,9	46,5	59,8	66,5	73,1
SB-384516	EFXE-384516SB	14,5	29,1	43,7	51,0	65,6	72,9	80,2
SB-385716	EFXE-385716SB	16,7	33,4	50,1	58,5	75,2	83,6	91,9
SB-505016	EFXE-505016SB	17,9	35,8	53,8	62,7	80,7	89,7	98,6
SB-383827	EFXE-383827SB	17,5	35,1	52,7	61,4	79,0	87,8	96,6
SB-575716	EFXE-575716SB	20,7	41,5	62,3	72,7	93,5	103,9	114,3
SB-577620	EFXE-577620SB	26,9	53,9	80,9	94,4	121,3	134,8	148,3
SB-575730	EFXE-575730SB	27,9	55,8	83,7	97,7	125,6	139,5	153,5
SB-769520	EFXE-769520SB	36,1	72,2	108,3	126,3	162,4	180,5	198,5
SB-1258040	EFXE-1258040SB	36,1	72,2	108,3	126,3	162,4	180,5	198,5

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Enclosure types (Stainless steel)		Maximum power dissipation (W) – Tamb. up to **55**°C						
		INTERNAL TEMP.65°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
SB-101210	EFXE-101210SB	2,7	4,1	6,9	8,3	11,1	12,5	13,9
SB-151510	EFXE-151510SB	4,0	6,0	10,0	12,0	16,0	18,0	20,0
SB-142013	EFXE-142013SB	5,2	7,8	13,1	15,7	20,9	23,5	26,2
SB-202010	EFXE-202010SB	5,3	8,0	13,4	16,1	21,4	24,1	26,8
SB-202016	EFXE-202016SB	6,9	10,4	17,4	20,8	27,8	31,3	34,8
SB-202713	EFXE-202713SB	7,2	10,8	18,0	21,6	28,9	32,5	36,1
SB-272713	EFXE-272713SB	8,3	12,5	20,9	25,1	33,5	37,7	41,8
SB-203016	EFXE-203016SB	8,5	12,8	21,4	25,7	34,3	38,6	42,9
SB-273513	EFXE-273513SB	9,6	14,4	24,1	28,9	38,5	43,3	48,2
SB-282816	EFXE-282816SB	9,6	14,5	24,2	29,0	38,7	43,6	48,4
SB-204016	EFXE-204016SB	10,1	15,1	25,2	30,3	40,4	45,5	50,5
SB-353516	EFXE-353516SB	12,2	18,3	30,5	36,6	48,8	54,9	61,0
SB-282827	EFXE-282827SB	13,1	19,6	32,8	39,3	52,5	59,0	65,6
SB-355016	EFXE-355016SB	14,8	22,2	37,1	44,5	59,4	66,8	74,3
SB-383816	EFXE-383816SB	13,3	19,9	33,2	39,9	53,2	59,8	66,5
SB-384516	EFXE-384516SB	14,5	21,8	36,4	43,7	58,3	65,6	72,9
SB-385716	EFXE-385716SB	16,7	25,0	41,8	50,1	66,8	75,2	83,6
SB-505016	EFXE-505016SB	17,9	26,9	44,8	53,8	71,7	80,7	89,7
SB-383827	EFXE-383827SB	17,5	26,3	43,9	52,7	70,2	79,0	87,8
SB-575716	EFXE-575716SB	20,7	31,1	51,9	62,3	83,1	93,5	103,9
SB-577620	EFXE-577620SB	26,9	40,4	67,4	80,9	107,9	121,3	134,8
SB-575730	EFXE-575730SB	27,9	41,8	69,7	83,7	111,6	125,6	139,5
SB-769520	EFXE-769520SB	36,1	54,1	90,2	108,3	144,4	162,4	180,5
SB-1258040	EFXE-1258040SB	36,1	54,1	90,2	108,3	144,4	162,4	180,5

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Enclosure types (Stainless steel)		Maximum power dissipation (W) – Tamb. up to **60**°C					
		INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
SB-101210	EFXE-101210SB	2,7	5,5	6,9	9,7	11,1	12,5
SB-151510	EFXE-151510SB	4,0	8,0	10,0	14,0	16,0	18,0
SB-142013	EFXE-142013SB	5,2	10,4	13,1	18,3	20,9	23,5
SB-202010	EFXE-202010SB	5,3	10,7	13,4	18,7	21,4	24,1
SB-202016	EFXE-202016SB	6,9	13,9	17,4	24,3	27,8	31,3
SB-202713	EFXE-202713SB	7,2	14,4	18,0	25,2	28,9	32,5
SB-272713	EFXE-272713SB	8,3	16,7	20,9	29,3	33,5	37,7
SB-203016	EFXE-203016SB	8,5	17,1	21,4	30,0	34,3	38,6
SB-273513	EFXE-273513SB	9,6	19,2	24,1	33,7	38,5	43,3
SB-282816	EFXE-282816SB	9,6	19,3	24,2	33,9	38,7	43,6
SB-204016	EFXE-204016SB	10,1	20,2	25,2	35,4	40,4	45,5
SB-353516	EFXE-353516SB	12,2	24,4	30,5	42,7	48,8	54,9
SB-282827	EFXE-282827SB	13,1	26,2	32,8	45,9	52,5	59,0
SB-355016	EFXE-355016SB	14,8	29,7	37,1	52,0	59,4	66,8
SB-383816	EFXE-383816SB	13,3	26,6	33,2	46,5	53,2	59,8
SB-384516	EFXE-384516SB	14,5	29,1	36,4	51,0	58,3	65,6
SB-385716	EFXE-385716SB	16,7	33,4	41,8	58,5	66,8	75,2
SB-505016	EFXE-505016SB	17,9	35,8	44,8	62,7	71,7	80,7
SB-383827	EFXE-383827SB	17,5	35,1	43,9	61,4	70,2	79,0
SB-575716	EFXE-575716SB	20,7	41,5	51,9	72,7	83,1	93,5
SB-577620	EFXE-577620SB	26,9	53,9	67,4	94,4	107,9	121,3
SB-575730	EFXE-575730SB	27,9	55,8	69,7	97,7	111,6	125,6
SB-769520	EFXE-769520SB	36,1	72,2	90,2	126,3	144,4	162,4
SB-1258040	EFXE-1258040SB	36,1	72,2	90,2	126,3	144,4	162,4

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Enclosure types (Stainless steel)		Maximum power dissipation (W) – Tamb. up to **95**°C	
		INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
SB-101210	EFXE-101210SB	1,3	2,7
SB-151510	EFXE-151510SB	2,0	4,0
SB-142013	EFXE-142013SB	2,6	5,2
SB-202010	EFXE-202010SB	2,6	5,3
SB-202016	EFXE-202016SB	3,4	6,9
SB-202713	EFXE-202713SB	3,6	7,2
SB-272713	EFXE-272713SB	4,1	8,3
SB-203016	EFXE-203016SB	4,2	8,5
SB-273513	EFXE-273513SB	4,8	9,6
SB-282816	EFXE-282816SB	4,8	9,6
SB-204016	EFXE-204016SB	5,0	10,1
SB-353516	EFXE-353516SB	6,1	12,2
SB-282827	EFXE-282827SB	6,5	13,1
SB-355016	EFXE-355016SB	7,4	14,8
SB-383816	EFXE-383816SB	6,6	13,3
SB-384516	EFXE-384516SB	7,2	14,5
SB-385716	EFXE-385716SB	8,3	16,7
SB-505016	EFXE-505016SB	8,9	17,9
SB-383827	EFXE-383827SB	8,7	17,5
SB-575716	EFXE-575716SB	10,3	20,7
SB-577620	EFXE-577620SB	13,4	26,9
SB-575730	EFXE-575730SB	13,9	27,9
SB-769520	EFXE-769520SB	18,0	36,1
SB-1258040	EFXE-1258040SB	18,0	36,1

Power dissipation – Stainless steel enclosures ST series

Enclosure types (Stainless steel)		Maximum power dissipation (W) – Tamb. up to **40**°C						
		INTERNAL TEMP.60°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
ST-101210	EFXE-101210ST	5,5	8,3	11,1	12,5	15,3	16,7	18,1
ST-151510	EFXE-151510ST	8,0	12,0	16,0	18,0	22,0	24,0	26,1
ST-142013	EFXE-142013ST	10,4	15,7	20,9	23,5	28,8	31,4	34,0
ST-202010	EFXE-202010ST	10,7	16,1	21,4	24,1	29,5	32,2	34,8
ST-202016	EFXE-202016ST	13,9	20,8	27,8	31,3	38,3	41,7	45,2
ST-202713	EFXE-202713ST	14,4	21,6	28,9	32,5	39,7	43,3	46,9
ST-272713	EFXE-272713ST	16,7	25,1	33,5	37,7	46,0	50,2	54,4
ST-203016	EFXE-203016ST	17,1	25,7	34,3	38,6	47,2	51,4	55,7
ST-273513	EFXE-273513ST	19,2	28,9	38,5	43,3	53,0	57,8	62,6
ST-282816	EFXE-282816ST	19,3	29,0	38,7	43,6	53,3	58,1	63,0
ST-204016	EFXE-204016ST	20,2	30,3	40,4	45,5	55,6	60,6	65,7
ST-353516	EFXE-353516ST	24,4	36,6	48,8	54,9	67,1	73,2	79,3
ST-282827	EFXE-282827ST	26,2	39,3	52,5	59,0	72,2	78,7	85,3
ST-355016	EFXE-355016ST	29,7	44,5	59,4	66,8	81,7	89,1	96,6
ST-383816	EFXE-383816ST	26,6	39,9	53,2	59,8	73,1	79,8	86,5
ST-384516	EFXE-384516ST	29,1	43,7	58,3	65,6	80,2	87,5	94,8
ST-385716	EFXE-385716ST	33,4	50,1	66,8	75,2	91,9	100,3	108,7
ST-505016	EFXE-505016ST	35,8	53,8	71,7	80,7	98,6	107,6	116,6
ST-383827	EFXE-383827ST	35,1	52,7	70,2	79,0	96,6	105,4	114,2
ST-575716	EFXE-575716ST	41,5	62,3	83,1	93,5	114,3	124,7	135,1
ST-577620	EFXE-577620ST	53,9	80,9	107,9	121,3	148,3	161,8	175,3
ST-575730	EFXE-575730ST	55,8	83,7	111,6	125,6	153,5	167,5	181,4
ST-769520	EFXE-769520ST	72,2	108,3	144,4	162,4	198,5	216,6	234,6
ST-1258040	EFXE-1258040ST	72,2	108,3	144,4	162,4	198,5	216,6	234,6

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Enclosure types (Stainless steel)		Maximum power dissipation (W) – Tamb. up to **50**°C						
		INTERNAL TEMP.60°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
ST-101210	EFXE-101210ST	2,7	5,5	8,3	9,7	12,5	13,9	15,3
ST-151510	EFXE-151510ST	4,0	8,0	12,0	14,0	18,0	20,0	22,0
ST-142013	EFXE-142013ST	5,2	10,4	15,7	18,3	23,5	26,2	28,8
ST-202010	EFXE-202010ST	5,3	10,7	16,1	18,7	24,1	26,8	29,5
ST-202016	EFXE-202016ST	6,9	13,9	20,8	24,3	31,3	34,8	38,3
ST-202713	EFXE-202713ST	7,2	14,4	21,6	25,2	32,5	36,1	39,7
ST-272713	EFXE-272713ST	8,3	16,7	25,1	29,3	37,7	41,8	46,0
ST-203016	EFXE-203016ST	8,5	17,1	25,7	30,0	38,6	42,9	47,2
ST-273513	EFXE-273513ST	9,6	19,2	28,9	33,7	43,3	48,2	53,0
ST-282816	EFXE-282816ST	9,6	19,3	29,0	33,9	43,6	48,4	53,3
ST-204016	EFXE-204016ST	10,1	20,2	30,3	35,4	45,5	50,5	55,6
ST-353516	EFXE-353516ST	12,2	24,4	36,6	42,7	54,9	61,0	67,1
ST-282827	EFXE-282827ST	13,1	26,2	39,3	45,9	59,0	65,6	72,2
ST-355016	EFXE-355016ST	14,8	29,7	44,5	52,0	66,8	74,3	81,7
ST-383816	EFXE-383816ST	13,3	26,6	39,9	46,5	59,8	66,5	73,1
ST-384516	EFXE-384516ST	14,5	29,1	43,7	51,0	65,6	72,9	80,2
ST-385716	EFXE-385716ST	16,7	33,4	50,1	58,5	75,2	83,6	91,9
ST-505016	EFXE-505016ST	17,9	35,8	53,8	62,7	80,7	89,7	98,6
ST-383827	EFXE-383827ST	17,5	35,1	52,7	61,4	79,0	87,8	96,6
ST-575716	EFXE-575716ST	20,7	41,5	62,3	72,7	93,5	103,9	114,3
ST-577620	EFXE-577620ST	26,9	53,9	80,9	94,4	121,3	134,8	148,3
ST-575730	EFXE-575730ST	27,9	55,8	83,7	97,7	125,6	139,5	153,5
ST-769520	EFXE-769520ST	36,1	72,2	108,3	126,3	162,4	180,5	198,5
ST-1258040	EFXE-1258040ST	36,1	72,2	108,3	126,3	162,4	180,5	198,5

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Enclosure types (Stainless steel)		Maximum power dissipation (W) – Tamb. up to **55**°C						
		INTERNAL TEMP.65°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
ST-101210	EFXE-101210ST	2,7	4,1	6,9	8,3	11,1	12,5	13,9
ST-151510	EFXE-151510ST	4,0	6,0	10,0	12,0	16,0	18,0	20,0
ST-142013	EFXE-142013ST	5,2	7,8	13,1	15,7	20,9	23,5	26,2
ST-202010	EFXE-202010ST	5,3	8,0	13,4	16,1	21,4	24,1	26,8
ST-202016	EFXE-202016ST	6,9	10,4	17,4	20,8	27,8	31,3	34,8
ST-202713	EFXE-202713ST	7,2	10,8	18,0	21,6	28,9	32,5	36,1
ST-272713	EFXE-272713ST	8,3	12,5	20,9	25,1	33,5	37,7	41,8
ST-203016	EFXE-203016ST	8,5	12,8	21,4	25,7	34,3	38,6	42,9
ST-273513	EFXE-273513ST	9,6	14,4	24,1	28,9	38,5	43,3	48,2
ST-282816	EFXE-282816ST	9,6	14,5	24,2	29,0	38,7	43,6	48,4
ST-204016	EFXE-204016ST	10,1	15,1	25,2	30,3	40,4	45,5	50,5
ST-353516	EFXE-353516ST	12,2	18,3	30,5	36,6	48,8	54,9	61,0
ST-282827	EFXE-282827ST	13,1	19,6	32,8	39,3	52,5	59,0	65,6
ST-355016	EFXE-355016ST	14,8	22,2	37,1	44,5	59,4	66,8	74,3
ST-383816	EFXE-383816ST	13,3	19,9	33,2	39,9	53,2	59,8	66,5
ST-384516	EFXE-384516ST	14,5	21,8	36,4	43,7	58,3	65,6	72,9
ST-385716	EFXE-385716ST	16,7	25,0	41,8	50,1	66,8	75,2	83,6
ST-505016	EFXE-505016ST	17,9	26,9	44,8	53,8	71,7	80,7	89,7
ST-383827	EFXE-383827ST	17,5	26,3	43,9	52,7	70,2	79,0	87,8
ST-575716	EFXE-575716ST	20,7	31,1	51,9	62,3	83,1	93,5	103,9
ST-577620	EFXE-577620ST	26,9	40,4	67,4	80,9	107,9	121,3	134,8
ST-575730	EFXE-575730ST	27,9	41,8	69,7	83,7	111,6	125,6	139,5
ST-769520	EFXE-769520ST	36,1	54,1	90,2	108,3	144,4	162,4	180,5
ST-1258040	EFXE-1258040ST	36,1	54,1	90,2	108,3	144,4	162,4	180,5

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Enclosure types (Stainless steel)		Maximum power dissipation (W) – Tamb. up to **60**°C					
		INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
ST-101210	EFXE-101210ST	2,7	5,5	6,9	9,7	11,1	12,5
ST-151510	EFXE-151510ST	4,0	8,0	10,0	14,0	16,0	18,0
ST-142013	EFXE-142013ST	5,2	10,4	13,1	18,3	20,9	23,5
ST-202010	EFXE-202010ST	5,3	10,7	13,4	18,7	21,4	24,1
ST-202016	EFXE-202016ST	6,9	13,9	17,4	24,3	27,8	31,3
ST-202713	EFXE-202713ST	7,2	14,4	18,0	25,2	28,9	32,5
ST-272713	EFXE-272713ST	8,3	16,7	20,9	29,3	33,5	37,7
ST-203016	EFXE-203016ST	8,5	17,1	21,4	30,0	34,3	38,6
ST-273513	EFXE-273513ST	9,6	19,2	24,1	33,7	38,5	43,3
ST-282816	EFXE-282816ST	9,6	19,3	24,2	33,9	38,7	43,6
ST-204016	EFXE-204016ST	10,1	20,2	25,2	35,4	40,4	45,5
ST-353516	EFXE-353516ST	12,2	24,4	30,5	42,7	48,8	54,9
ST-282827	EFXE-282827ST	13,1	26,2	32,8	45,9	52,5	59,0
ST-355016	EFXE-355016ST	14,8	29,7	37,1	52,0	59,4	66,8
ST-383816	EFXE-383816ST	13,3	26,6	33,2	46,5	53,2	59,8
ST-384516	EFXE-384516ST	14,5	29,1	36,4	51,0	58,3	65,6
ST-385716	EFXE-385716ST	16,7	33,4	41,8	58,5	66,8	75,2
ST-505016	EFXE-505016ST	17,9	35,8	44,8	62,7	71,7	80,7
ST-383827	EFXE-383827ST	17,5	35,1	43,9	61,4	70,2	79,0
ST-575716	EFXE-575716ST	20,7	41,5	51,9	72,7	83,1	93,5
ST-577620	EFXE-577620ST	26,9	53,9	67,4	94,4	107,9	121,3
ST-575730	EFXE-575730ST	27,9	55,8	69,7	97,7	111,6	125,6
ST-769520	EFXE-769520ST	36,1	72,2	90,2	126,3	144,4	162,4
ST-1258040	EFXE-1258040ST	36,1	72,2	90,2	126,3	144,4	162,4

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Enclosure types (Stainless steel)		Maximum power dissipation (W) – Tamb. up to **95**°C	
		INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
ST-101210	EFXE-101210ST	1,3	2,7
ST-151510	EFXE-151510ST	2,0	4,0
ST-142013	EFXE-142013ST	2,6	5,2
ST-202010	EFXE-202010ST	2,6	5,3
ST-202016	EFXE-202016ST	3,4	6,9
ST-202713	EFXE-202713ST	3,6	7,2
ST-272713	EFXE-272713ST	4,1	8,3
ST-203016	EFXE-203016ST	4,2	8,5
ST-273513	EFXE-273513ST	4,8	9,6
ST-282816	EFXE-282816ST	4,8	9,6
ST-204016	EFXE-204016ST	5,0	10,1
ST-353516	EFXE-353516ST	6,1	12,2
ST-282827	EFXE-282827ST	6,5	13,1
ST-355016	EFXE-355016ST	7,4	14,8
ST-383816	EFXE-383816ST	6,6	13,3
ST-384516	EFXE-384516ST	7,2	14,5
ST-385716	EFXE-385716ST	8,3	16,7
ST-505016	EFXE-505016ST	8,9	17,9
ST-383827	EFXE-383827ST	8,7	17,5
ST-575716	EFXE-575716ST	10,3	20,7
ST-577620	EFXE-577620ST	13,4	26,9
ST-575730	EFXE-575730ST	13,9	27,9
ST-769520	EFXE-769520ST	18,0	36,1
ST-1258040	EFXE-1258040ST	18,0	36,1

Maximum Power Dissipation calculation

The values specified in the tables as per clause 2.1.1 may be modified within the maximum admitted Tamb and maximum admitted internal temperature as follows.

$$Pdiss\ (W) = \frac{Tmax - Tamb}{Rth}$$

$Rth = A \times (\text{enclosure surface in } mm^2 \text{ except enclosure bottom})^B$

Legend:
Rth – Thermal resistance [K/W].
Tmax – Maximum allowed temperature inside enclosure.
Tamb – Ambient temperature of enclosure
A and B - coefficients determined for each series o enclosure. Exact values are given in manufacturer's documentation.

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[16] Confidential Report No. FIDI 21 CR 075

[16.1] Routine testing

Junction boxes, local control stations and local control panels fitted with wiring, shall be subject to a routine dielectric strength test according to the clause 7.1 of IEC 60079-7.

[17] Specific Conditions of Use

- Enclosures marked with warning label: "WARNING – POTENTIAL ELECTROSTATIC CHARGING HAZARD – SEE INSTRUCTIONS" must be cleaned only by damp cloth or antistatic products.
- Apparatus equipped with drain / venting valve Technor Italsmea model ECR3:
  - the valve cannot be open when an explosive dust atmosphere is present.
  - The valve can be open when an explosive gas atmosphere is present: when open, the equipment reaches the protection degree IP44.
  - When the valve is left in open position, it should be protected from light exposure.
- On the intrinsic safety terminals, the user must only connect devices with compatible intrinsic safety parameters according to EN 60079-14.

[18] Essential Health and Safety Requirements

Covered by the conformity with harmonized standards listed under item 9.

[19] Drawings and Documents

Title:	Drawing No.:	Rev. level:	Date:
Technical note	TN2111	0	17.11.2021
Instruction for use	TN2111 Annex A	0	08.11.2021
Apparatus list	TN2111 Annex B	0	17.11.2021
Drawings:			
Cable entries, plug, adaptors coupling systems	AC2111, sheet 1	0	10.11.2021
Example of operator arrangements for AQ-AR-EFE	AC2111, sheet 2	0	10.11.2021
Example of operator arrangements for SB-ST-EFEXE	AC2111, sheet 3	0	10.11.2021
Example terminals and earth bus bar	AC2111, sheet 4	0	10.11.2021
Drain / breath device type ECR3	AC2111, sheet 5	0	10.11.2021
Marking label SB..., ST..., AQ..., AR...	AC2111, sheet 6	0	10.11.2021
Marking label SB..., ST..., AQ..., AR...	AC2111, sheet 7	0	10.11.2021

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[1] **SUPPLEMENTARY EU – TYPE EXAMINATION CERTIFICATE**

[2] Equipment or Protective Systems Intended for use in Potentially Explosive Atmospheres Directive 2014/34/EU.

[3] Supplementary EU-Type Examination Certificate Number: **FIDI 21 ATEX 0090X/1**

[4] Product: **Junction boxes, local control stations and local control panels**

Type: **AQ-***P / AQ-***AL / AR-***P / AR-***AL**
AQ-*P-HT / AQ-***AL-HT / AR-***P-HT / AR-***AL-HT**
SB-* / ST-***
EFE-* / EFXE-*** AL/ EFXE-***SB / EFXE-***ST**
EFE-*-HT / EFXE-***AL-HT**

[5] Manufacturer: **Technor Italsmea S.p.A.**

[6] Address: **Via Italia 33, 20060 Gessate (MI), Italy**

[7] This supplementary certificate extends EU – Type Examination Certificate to apply to product designed and constructed in accordance with the specification set out in the Schedule of the said certificate but having any variations specified in the Schedule to this certificate and the documents therein referred to.

[8] FIDITAS Ltd., Notified Body number 2829 in accordance with Article 17 of Directive 2014/34/EU of the European Parliament and of the Council, dated 26 February 2014, certifies that this product has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of products intended for use in potentially explosive atmospheres given in Annex II of the Directive.

[9] The examination and test results are recorded in confidential Report No: **FIDI 23 CR 019**

[10] The marking of the product shall include the following:

II 1 G	**Ex ia IIC/IIB T6...T4 Ga**(2) or
II 2(1) G or **II 2(2) G**	**Ex db eb ia/ib mb [**(3)**] IIC/IIB T6...T4 Gb**(1) or
II 2 G	**Ex eb IIC/IIB T6...T4 Gb**(1) or
II 2 D	**Ex tb IIIC T85°C...T135°C Db**

(1) Others type of protection additional to 'eb' depending to the components actually mounted.

(2) In case of enclosures containing 'eb' terminals and/or 'ia Ga' already certified components (with compatible marking) only.

(3) Associated equipment protection depending on the components actually mounted (see lists): e.g. [ia/ib/ia Ga/ia IIIC Da] and/or [ia IIIC Da] or [ia/ib/ia Ga/ia IIIC Da] and/or [ia/ib/ia Ga] [ia IIIC Da]

FIDITAS Ltd.
Certification department
Approved:

Marino Kelava, M.E.Eng.

Our ref.: 23.CRT.071

Date: 19.04.2023

Fiditas d.o.o. ZAGREB

Fiditas Ltd. Slavka Tomerlina 44, 10361 Zagreb-Sesvete, Croatia
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This certificate may only be reproduced in its entirety, without any change, schedule included

[11] **SCHEDULE**

[12] **SUPPLEMENTARY EU - TYPE EXAMINATION CERTIFICATE No.: FIDI 21 ATEX 0090X /1**

[13] Description of the variation to the Product

New Ex products added:

- Surge voltage protection unit type: PLUGTRAB PT2 or PT4 – PHOENIX CONTACT; II 1G> Ex ia IIC T4...T6 Ga; KEMA 00 ATEX 1099X;
- SITRANS TH230/420, type: 7NG0317, 0310; 0410 TR320/TR420 7NG0327; 7NG0320; TYPE 7NG0420; Siemens AG; II 1G Ex ia IIC T6...T4 Ga; II 2(1)G Ex ib [ia Ga] IIC T6...T4 Gb; DEKRA 17 ATEX 0116X
- Enhanced Model 644 Temperature Transmitter, ROSEMOUNT INCORPORATED, II 1G Ex ia IIC T6...T4 Ga; DEKRA 21ATEX0003X,
- Temperature Transmitter type: 5434D; 5431D; 6431D; 5435D; 5437D; 5437D; 5437B; 6437D, II 1G Ex ia IIC T6...T4 Ga; II 2(1)G Ex ib [ia Ga] IIC T6...T4 Gb; DEKRA 16 ATEX 0047X,
- Controls Units and / or Junction Boxes Type: GUB..., TECHNOR ITALSMEA; II 2G Ex db (*) IIC T(*) Gb; INERIS 22 ATEX 0008X
- Cable Transit Device type: CF 8 Ex, CF 32 Ex, CF 16 Ex, C RS T...Ex, RS..B Ex, SF...Ex, SFX...B Ex, B...B Ex, R...B Ex and RO...B; ROXTEC INTERNATIONAL AB, II 2G Ex e IIC Gb, II 2D Ex tb IIC Db; NEMKO 12 ATEX 1278X
- Cable Transit Device type: HD 16 Ex, HD 24 Ex, HD 32 Ex and HDLC Ex, ROXTEC INTERNATIONAL AB, II 2G Ex eb IIC Gb, II 2D Ex tb IIIC Db, PRESAFE 15 ATEX 6419X
- Control stations and junction boxes type: CP..., TECHNOR ITALSMEA, II 2G Ex db IIC T6 or T5 or T4 Gb or II 2(1)G Ex db [ia Ga] IIC T6 Gb(***) or II 2(2)G Ex db [ib] IIC T6 Gb (***); INERIS 03 ATEX 0009X
- Industrial plug and socket type: DXN1, MARECHAL ELECTRIC, II 2G Ex db eb IIC T5 or T6; II 2D Ex tb IIIC T90°C/T70°C; LCIE 99 ATEX6027X
- Industrial plug and socket type: DXN3, MARECHAL ELECTRIC; II 2G Ex db eb IIC T5 or T6; II 2D Ex tb IIIC T90°C/T70°C; LCIE 05 ATEX 6149X
- Industrial plug and socket type: DXN6, MARECHAL ELECTRIC, II 2G Ex db eb IIC T5 or T6; II 2D Ex tb IIIC T90°C/T70°C; LCIE 05 ATEX 6150X
- Industrial plug and socket type: PXN12C, MARECHAL ELECTRIC, II 2G Ex eb IIC T*; II 2G Ex ia or ib IIC T*; II 2D Ex tb IIIC T* Db; LCIE 07 ATEX 6070X
- Industrial plug and socket type: DXN25C, MARECHAL ELECTRIC; II 2G Ex eb IIC T*; II 2G Ex ia or ib IIC T6; II2D Ex tb IIIC T*; LCIE 09ATEX3050X
- Industrial plug and socket type: DXN37C, MARECHAL ELECTRIC; II 2G Ex eb IIC T*; II 2G Ex ia or ib IIC T6; II2D Ex tb IIIC T*; LCIE 07ATEX6071X
- Industrial plug and socket type: SPeX, MARECHAL ELECTRIC, II 2G Ex eb IIC T*; II2D Ex tb IIIC T* Db; LCIE 07ATEX6073X
- Industrial plug and socket type: DXA1, MARECHAL ELECTRIC, II 2G Ex db eb IIC T* Gb; II 2D Ex tb IIC T*°C Db; LCIE 15ATEX 3033X
- Industrial plug and socket type: PNCX, MARECHAL ELECTRIC, II 2G Ex IIC T6 Gb; II 2D Ex tb IIIC T72°C Db; LCIE 16ATEX3001X
- Terminal type: WDU 240, WEIDMULLER, II 2G Ex eb IIC Gb; KEMA 01 ATEX 2186U.

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[14] Confidential Report No. FIDI 23 CR 019

[14.1] Routine testing

No change to specified in the initial certificate.

[15] Specific Conditions of Use

Addditional to those specified the initial certificate:

- Manufacturer must obey relevant specific condition of use of Ex equipment and/or schedule of limitation of Ex components installed in/on the product and forward to the end user if relevant for the installation and use.

[16] Essential Health and Safety Requirements

Compliance with the Essential Health and Safety Requirements is not affected by this variation.

[17] Drawings and Documents

Title:	Drawing No.:	Rev. level:	Date:
Technical note	TN2111	1	20.01.2023
Instruction for use	TN2111 Annex A	1	20.01.2023
Apparatus list	TN2111 Annex B	1	20.01.2023

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IECEx Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION
IEC Certification System for Explosive Atmospheres

for rules and details of the IECEx Scheme visit www.iecex.com

Certificate No.:	**IECEx FIDI 21.0015X**	Page 1 of 4	Certificate history: Issue 0 (2022-02-18)
Status:	**Current**	Issue No: 1	
Date of Issue:	2023-05-04		

Applicant: **Technor Italsmea S.p.A.**
Via Italia 33
20060 Gessate (MI)
Italy

Equipment: **Junction boxes, local control stations and local control panels**

Optional accessory: Model reference: AQ-***P / AQ-***AL / AR-***P / AR-***AL / AQ-***P-HT / AQ-***AL-HT / AR-***P-HT / AR-***AL-HT / SB-*** / ST-*** / EFE-*** / EFXE-*** AL/ EFXE-***SB / EFXE-***ST / EFE-***-HT / EFXE-***AL-HT

Type of Protection: **Flameproof enclosure 'db'; Intrinsic safety 'ia/ib'; Increased safety 'eb'; Encapsulation 'mb', Protection by enclosure 'tb'**

Marking: **Ex ia IIC/IIB T6...T4 Ga**(2) or

Ex db eb ia/ib mb [(3)] IIC/IIB T6...T4 Gb(1) or

Ex eb IIC/IIB T6...T4 Gb(1) or

Ex tb IIIC T85°C...T135°C Db

(1) Others type of protection additional to Ex e/eb depending to the components actually mounted.

(2) In case of enclosures containing Ex e/Ex eb terminals and/or Ex ia Ga already certified components (with compatible marking) only.

(3) Associated equipment protection depending on the components actually mounted (see lists): e.g. [ia/ib/ia Ga/ia IIIC Da] and/or [ia IIIC Da] or [ia/ib/ia Ga/ia IIIC Da] and/or [ia/ib/ia Ga] [ia IIIC Da]

Approved for issue on behalf of the IECEx Certification Body: **Marino Kelava**

Position: **Certification Signatory**

Signature:
(for printed version)

Date:
(for printed version)

1. This certificate and schedule may only be reproduced in full.
2. This certificate is not transferable and remains the property of the issuing body.
3. The Status and authenticity of this certificate may be verified by visiting www.iecex.com or use of this QR Code.

Certificate issued by:

Fiditas Ltd
Slavka Tomerlina 44
HR-10361 Zagreb-Sesvete
Croatia

Fiditas
explosion safety solutions

IECEx Certificate of Conformity

Certificate No.: **IECEx FIDI 21.0015X**

Date of issue: 2023-05-04 Issue No: 1

Manufacturer: **Technor Italsmea S.p.A.**
Via Italia 33
20060 Gessate (MI)
Italy

Manufacturing locations:

This certificate is issued as verification that a sample(s), representative of production, was assessed and tested and found to comply with the IEC Standard list below and that the manufacturer's quality system, relating to the Ex products covered by this certificate, was assessed and found to comply with the IECEx Quality system requirements.This certificate is granted subject to the conditions as set out in IECEx Scheme Rules, IECEx 02 and Operational Documents as amended

STANDARDS :
The equipment and any acceptable variations to it specified in the schedule of this certificate and the identified documents, was found to comply with the following standards

IEC 60079-0:2017 Explosive atmospheres - Part 0: Equipment - General requirements
Edition:7.0

IEC 60079-1:2014-06 Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"
Edition:7.0

IEC 60079-11:2011 Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"
Edition:6.0

IEC 60079-18:2017 Explosive atmospheres - Part 18: Protection by encapsulation "m"
Edition:4.1

IEC 60079-31:2013 Explosive atmospheres - Part 31: Equipment dust ignition protection by enclosure "t"
Edition:2

IEC 60079-7:2017 Explosive atmospheres - Part 7: Equipment protection by increased safety "e"
Edition:5.1

This Certificate **does not** indicate compliance with safety and performance requirements other than those expressly included in the Standards listed above.

TEST & ASSESSMENT REPORTS:
A sample(s) of the equipment listed has successfully met the examination and test requirements as recorded in:

Test Reports:

HR/FIDI/ExTR21.0016/00 HR/FIDI/ExTR21.0016/01

Quality Assessment Report:

FR/INE/QAR08.0002/15

IECEx Certificate of Conformity

EQUIPMENT:
Equipment and systems covered by this Certificate are as follows:

Junction boxes, local control stations and local control panels series AQ-…..; AR-…..; SB…..; EFE-…..; EFXE-….. use certified enclosures of various sizes, manufactured by Technor Italsmea S.p.A., type: AQ-.... ; AR-....; SB-...; ST- …, certificate IECEx FIDI 21.0012U.

Enclosures coded …-HT are made in glass fiber reinforced polyester resin or in aluminum, and covered by IECEx component certificates: IECEx PTB 08.0003U, enclosure type: 26.****** and IECEx PTB 08.0003U, enclosure type: 25.******.

Enclosures may be equipped with certified Ex equipment or Ex components and Ex terminals listed in manufacturer's documentation. Certified Ex equipment or Ex components and Ex terminals must be used according to data available in related component or equipment certificates, in particular relevant temperature range, voltage and current limitations. The cable glands or plugs, with separate IECEx certificate, made in type of protection ‘eb’ and/or ‘tb’ with appropriate IP protection are mounted according to related manufacturer’s installation instructions. Each enclosure is provided with internal earthing certified terminal or earthing screw or bolt. Metal enclosures are provided by external earthing screw or bolt. Metal and polyester enclosures can be provided by passing through earthing terminals.

All enclosures can be provided by:
- Externally installed accessories as specified in manufacturer documents,
- Drain breath device type ECR3, included in this certificate,
- Internal/external earthing plate.

For other description see Annex.

SPECIFIC CONDITIONS OF USE: YES as shown below:

- Enclosures marked with warning label: “WARNING – POTENTIAL ELECTROSTATIC CHARGING HAZARD – SEE INSTRUCTIONS” must be cleaned only by damp cloth or antistatic products.
- Apparatus equipped with drain / venting valve Technor Italsmea model ECR3:
  - the valve cannot be open when an explosive dust atmosphere is present.
  - The valve can be open when an explosive gas atmosphere is present: when open, the equipment reaches the protection degree IP44.
  - When the valve is left in open position, it should be protected from light exposure.
- On the intrinsic safety terminals, the user must only connect devices with compatible intrinsic safety parameters according to IEC 60079-14.

IECEx Certificate of Conformity

DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)
New IECEx certified Ex products added in the Apparatus list according to list given in HR/FIDI/ ExTR 21.0016/01.

Annex:

IECEx FIDI 21.0015X Technor Equipment Annex1 issue1.pdf

Technical description (continued from original certificate)

Model identification

Junction boxes

A(1)-(2) (3) (4) (5) (6)	(1) –	**Q**: Square size **R**: Rectangular size
	(2) (3) (4)	dimension, in cm
	(5)	Material **P**: Glass fiber reinforced polyester resin **AL**: Aluminium Alloy
	(6)	None: up to internal temperature of 105°C **HT**: up to internal temperature of 130°C
SB- (2) (3) (4)	(2) (3) (4)	dimension, in cm
ST- (2) (3) (4)	(2) (3) (4)	dimension, in cm

Panel boards

EFE- (2) (3) (4) (6)	(2) (3) (4)	dimension, in cm
	(6)	None: up to internal temperature of 105°C **HT**: up to internal temperature of 130°C
EFXE- (2) (3) (4) (5) (6)	(2) (3) (4)	dimension, in cm
	(5)	Material **SB** or **ST**: stainless steel **AL**: Aluminium Alloy
	(6)	None: up to internal temperature of 105°C **HT**: up to internal temperature of 130°C

Technical data:

Electrical data:	According to Ex component to actually installed
Ambient temperature:	-50°C to +95°C Other possible ranges are with: - min temperature: -50°C to -20 °C - max temperature of +40 °C to +95 °C
Mechanical protection:	IP55, IP66 or IP67 depending on model

Temperature class and/or maximum surface temperature of any junction box or control panel depend on ambient temperature and internal power dissipation. The values that must be observed are given in relevant tables in this certificate.

For commercial reasons model name listed in the tables below can be modified as follows: first (2) and second (3) pair of digits can be reversed.

Models sizes

Polyester High Temperature		Aluminium High Temperature	
AQ-080806P-HT	EFE-080806-HT	AQ-080806AL-HT	EFXE-080806AL-HT
AQ-080808P-HT	EFE-080808-HT	AR-081306AL-HT	EFXE-081306AL-HT
AR-081106P-HT	EFE-081106-HT	AR-081806AL-HT	EFXE-081806AL-HT
AR-081108P-HT	EFE-081108-HT	AR-082505AL-HT	EFXE-082505AL-HT
AR-081606P-HT	EFE-081606-HT	AQ-101008AL-HT	EFXE-101008AL-HT
AR-081608P-HT	EFE-081608-HT	AR-101608AL-HT	EFXE-101608AL-HT
AR-081906P-HT	EFE-081906-HT	AR-102008AL-HT	EFXE-102008AL-HT
AR-081908P-HT	EFE-081908-HT	AQ-121208AL-HT	EFXE-121208AL-HT
AR-082306P-HT	EFE-082306-HT	AQ-121209AL-HT	EFXE-121209AL-HT
AR-082308P-HT	EFE-082308-HT	AR-122208AL-HT	EFXE-122208AL-HT
AQ-121209P-HT	EFE-121209-HT	AR-122209AL-HT	EFXE-122209AL-HT
AR-122209P-HT	EFE-122209-HT	AR-123608AL-HT	EFXE-123608AL-HT
AQ-161609P-HT	EFE-161609-HT	AQ-141409AL-HT	EFXE-141409AL-HT
AR-162609P-HT	EFE-162609-HT	AR-142009AL-HT	EFXE-142009AL-HT
AR-163609P-HT	EFE-163609-HT	AQ-161609AL-HT	EFXE-161609AL-HT
AR-165609P-HT	EFE-165609-HT	AR-162609AL-HT	EFXE-162609AL-HT
AQ-202017P-HT	EFE-202017-HT	AR-163609AL-HT	EFXE-163609AL-HT
AR-203017P-HT	EFE-203017-HT	AR-165609AL-HT	EFXE-165609AL-HT
AQ-252612P-HT	EFE-252612-HT	AQ-181810AL-HT	EFXE-181810AL-HT
AQ-252616P-HT	EFE-252616-HT	AR-182810AL-HT	EFXE-182810AL-HT
AR-254012P-HT	EFE-254012-HT	AR-102311AL-HT	EFXE-102311AL-HT
AR-254016P-HT	EFE-254016-HT	AR-202311AL-HT	EFXE-202311AL-HT
AR-256012P-HT	EFE-256012-HT	AR-202318AL-HT	EFXE-202318AL-HT
AR-304020P-HT	EFE-304020-HT	AR-232811AL-HT	EFXE-232811AL-HT
AQ-363609P-HT	EFE-363609-HT	AR-233311AL-HT	EFXE-233311AL-HT
AR-406025P-HT	EFE-406025-HT	AR-233318AL-HT	EFXE-233318AL-HT
AQ-414012P-HT	EFE-414012-HT	AR-234011AL-HT	EFXE-234011AL-HT
AQ-414020P-HT	EFE-414020-HT	AR-234023AL-HT	EFXE-234023AL-HT
		AR-236011AL-HT	EFXE-236011AL-HT
		AR-314011AL-HT	EFXE-314011AL-HT
		AR-314014AL-HT	EFXE-314014AL-HT
		AR-314018AL-HT	EFXE-314018AL-HT
		AR-314023AL-HT	EFXE-314023AL-HT
		AR-316011AL-HT	EFXE-316011AL-HT
		AR-316018AL-HT	EFXE-316018AL-HT
		AQ-606020AL-HT	EFXE-606020AL-HT

Polyester		Aluminium		Stainless steel	
AQ-080806P	EFE-080806	AQ-080806AL	EFXE-080806AL	SB-101210	EFXE-101210SB
AQ-080808P	EFE-080808	AR-081306AL	EFXE-081306AL	SB-151510	EFXE-151510SB
AR-081106P	EFE-081106	AR-081806AL	EFXE-081806AL	SB-142013	EFXE-142013SB
AR-081606P	EFE-081606	AR-081808AL	EFXE-081808AL	SB-202010	EFXE-202010SB
AR-081906P	EFE-081906	AR-082505AL	EFXE-082505AL	SB-202016	EFXE-202016SB
AQ-121209P	EFE-121209	AR-082508AL	EFXE-082508AL	SB-202713	EFXE-202713SB
AR-122209P	EFE-122209	AQ-101008AL	EFXE-101008AL	SB-272713	EFXE-272713SB
AQ-161609P	EFE-161609	AR-101508AL	EFXE-101508AL	SB-203016	EFXE-203016SB
AR-162609P	EFE-162609	AR-101608AL	EFXE-101608AL	SB-273513	EFXE-273513SB
AR-163609P	EFE-163609	AR-102008AL	EFXE-102008AL	SB-282816	EFXE-282816SB
AQ-252612P	EFE-252612	AQ-121208AL	EFXE-121208AL	SB-204016	EFXE-204016SB
AQ-252616P	EFE-252616	AR-122209AL	EFXE-122209AL	SB-353516	EFXE-353516SB
AR-254012P	EFE-254012	AQ-141409AL	EFXE-141409AL	SB-282827	EFXE-282827SB
AR-254016P	EFE-254016	AR-142009AL	EFXE-142009AL	SB-355016	EFXE-355016SB
AR-256012P	EFE-256012	AQ-161609AL	EFXE-161609AL	SB-383816	EFXE-383816SB
AQ-414012P	EFE-414012	AR-162410AL	EFXE-162410AL	SB-384516	EFXE-384516SB
		AR-162609AL	EFXE-162609AL	SB-385716	EFXE-385716SB
		AQ-181810AL	EFXE-181810AL	SB-505016	EFXE-505016SB
		AR-182810AL	EFXE-182810AL	SB-383827	EFXE-383827SB
		AR-202311AL	EFXE-202311AL	SB-575716	EFXE-575716SB
		AR-202318AL	EFXE-202318AL	SB-577620	EFXE-577620SB
		AR-232811AL	EFXE-232811AL	SB-575730	EFXE-575730SB
		AR-233312AL	EFXE-233312AL	SB-769520	EFXE-769520SB
		AR-233318AL	EFXE-233318AL	SB-1258040	EFXE-1258040SB

Enclosure types (Stainless steel)	
ST-101210	EFXE-101210ST
ST-151510	EFXE-151510ST
ST-142013	EFXE-142013ST
ST-202010	EFXE-202010ST
ST-202016	EFXE-202016ST
ST-202713	EFXE-202713ST
ST-272713	EFXE-272713ST
ST-203016	EFXE-203016ST
ST-273513	EFXE-273513ST
ST-282816	EFXE-282816ST
ST-204016	EFXE-204016ST
ST-353516	EFXE-353516ST
ST-282827	EFXE-282827ST
ST-355016	EFXE-355016ST
ST-383816	EFXE-383816ST
ST-384516	EFXE-384516ST
ST-385716	EFXE-385716ST
ST-505016	EFXE-505016ST
ST-383827	EFXE-383827ST
ST-575716	EFXE-575716ST
ST-577620	EFXE-577620ST
ST-575730	EFXE-575730ST
ST-769520	EFXE-769520ST
ST-1258040	EFXE-1258040ST

Note 2 For stainless steel enclosures: dimensions (2) and (3) can be decreased or increased up to 20%, dimensions (4) can be increased up to 500 mm. Model name changes consequently.

Power dissipation – HT glass fiber reinforced polyester resin enclosures

Enclosure types (polyester)		Maximum power dissipation (W) – Tamb. up to **40**°C							
		INTERNAL TEMP.60°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)	INTERNAL TEMP.127°C (T4/T135°C)
AQ-080806P-HT	EFE-080806-HT	3,5	5,2	7,0	7,8	9,6	10,4	11,3	15,2
AQ-080808P-HT	EFE-080808-HT	4,6	6,8	9,1	10,2	12,5	13,7	14,8	19,8
AR-081106P-HT	EFE-081106-HT	4,3	6,4	8,5	9,6	11,8	12,8	13,9	18,6
AR-081108P-HT	EFE-081108-HT	5,6	8,4	11,2	12,6	15,3	16,7	18,1	24,2
AR-081606P-HT	EFE-081606-HT	5,8	8,7	11,6	13,0	15,9	17,4	18,8	25.2
AR-081608P-HT	EFE-081608-HT	6,8	10,2	13,7	15,4	18,8	20,5	22,2	29,7
AR-081906P-HT	EFE-081906-HT	6,4	9,6	12,8	14,4	17,6	19,2	20,8	27,8
AR-081908P-HT	EFE-081908-HT	7,5	11,3	15,1	17,0	20,7	22,6	24,5	32,7
AR-082306P-HT	EFE-082306-HT	7,2	10,8	14,4	16,2	19,8	21,6	23,4	31,3
AR-082308P-HT	EFE-082308-HT	8,5	12,7	16,9	19,0	23,3	25,4	27,5	36,7
AQ-121209P-HT	EFE-121209-HT	8,0	12,0	15,9	17,9	21,9	23,9	25,9	34,7
AR-122209P-HT	EFE-122209-HT	10,8	16,2	21,6	24,3	29,7	32,4	35,1	47,0
AQ-161609P-HT	EFE-161609-HT	10,4	15,6	20,8	23,4	28,6	31,2	33,8	45,2
AR-162609P-HT	EFE-162609-HT	13,4	20,1	26,8	30,2	36,9	40,2	43,6	58,3
AR-163609P-HT	EFE-163609-HT	16,2	24,3	32,4	36,5	44,6	48,6	52,7	70,5
AR-165609P-HT	EFE-165609-HT	21,4	32,0	42,7	48,1	58,7	64,1	69,4	92,9
AQ-202017P-HT	EFE-202017-HT	18,0	26,9	35,9	40,4	49,4	53,9	58,4	78,1
AR-203017P-HT	EFE-203017-HT	20,9	31,3	41,7	47,0	57,4	62,6	67,8	90,8
AQ-252612P-HT	EFE-252612-HT	18,8	28,2	37,6	42,4	51,8	56,5	61,2	81,9
AQ-252616P-HT	EFE-252616-HT	20,8	31,1	41,5	46,7	57,1	62,3	67,5	90,3
AR-254012P-HT	EFE-254012-HT	22,8	34,2	45,7	51,4	62,8	68,5	74,2	99,3
AR-254016P-HT	EFE-254016-HT	26,2	39,3	52,4	58,9	72,0	78,6	85,1	113,9
AR-256012P-HT	EFE-256012-HT	29,0	43,6	58,1	65,3	79,9	87,1	94,4	126,3
AR-304020P-HT	EFE-304020-HT	32,3	48,5	64,7	72,7	88,9	97,0	105,1	140,7
AQ-363609P-HT	EFE-363609-HT	23,0	34,6	46,1	51,8	63,4	69,1	74,9	100,2
AR-406025P-HT	EFE-406025-HT	50,3	75,5	100,7	113,3	138,4	151,0	163,6	218,9
AQ-414012P-HT	EFE-414012-HT	29,1	43,7	58,2	65,5	80,1	87,3	94,6	126,6
AQ-414020P-HT	EFE-414020-HT	36,6	55,0	73,3	82,4	100,8	109,9	119,1	159,4

Enclosure types (polyester)		Maximum power dissipation (W) – Tamb. up to **50**°C							
		INTERNAL TEMP.60°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)	INTERNAL TEMP.127°C (T4/T135°C)
AQ-080806P-HT	EFE-080806-HT	1,7	3,5	5,2	6,1	7,8	8,7	9,6	13,4
AQ-080808P-HT	EFE-080808-HT	2,3	4,6	6,8	8,0	10,2	11,4	12,5	17,5
AR-081106P-HT	EFE-081106-HT	2,1	4,3	6,4	7,5	9,6	10,7	11,8	16,5
AR-081108P-HT	EFE-081108-HT	2,8	5,6	8,4	9,8	12,6	13,9	15,3	21.5
AR-081606P-HT	EFE-081606-HT	2,9	5,8	8,7	10,1	13,0	14,5	15,9	22,3
AR-081608P-HT	EFE-081608-HT	3,4	6,8	10,2	11,9	15,4	17,1	18,8	26,3
AR-081906P-HT	EFE-081906-HT	3,2	6,4	9,6	11,2	14,4	16,0	17,6	24,6
AR-081908P-HT	EFE-081908-HT	3,8	7,5	11,3	13,2	17,0	18,8	20,7	29,0
AR-082306P-HT	EFE-082306-HT	3,6	7,2	10,8	12,6	16,2	18,0	19,8	27,7
AR-082308P-HT	EFE-082308-HT	4,2	8,5	12,7	14,8	19,0	21,1	23,3	32,5
AQ-121209P-HT	EFE-121209-HT	4,0	8,0	12,0	14,0	17,9	19,9	21,9	30,7
AR-122209P-HT	EFE-122209-HT	5,4	10,8	16,2	18,9	24,3	27,0	29,7	41,6
AQ-161609P-HT	EFE-161609-HT	5,2	10,4	15,6	18,2	23,4	26,0	28,6	40,0
AR-162609P-HT	EFE-162609-HT	6,7	13,4	20,1	23,5	30,2	33,5	36,9	51,6
AR-163609P-HT	EFE-163609-HT	8,1	16,2	24,3	28,4	36,5	40,5	44,6	62,3
AR-165609P-HT	EFE-165609-HT	10,7	21,4	32,0	37,4	48,1	53,4	58,7	82,2
AQ-202017P-HT	EFE-202017-HT	9,0	18,0	26,9	31,4	40,4	44,9	49,4	69,1
AR-203017P-HT	EFE-203017-HT	10,4	20,9	31,3	36,5	47,0	52,2	57,4	80,4
AQ-252612P-HT	EFE-252612-HT	9,4	18,8	28,2	32,9	42,4	47,1	51,8	72,5
AQ-252616P-HT	EFE-252616-HT	10,4	20,8	31,1	36,3	46,7	51,9	57,1	79,9
AR-254012P-HT	EFE-254012-HT	11,4	22,8	34,2	39,9	51,4	57,1	62,8	87,9
AR-254016P-HT	EFE-254016-HT	13,1	26,2	39,3	45,8	58,9	65,5	72,0	100,8
AR-256012P-HT	EFE-256012-HT	14,5	29,0	43,6	50,8	65,3	72,6	79,9	111,8
AR-304020P-HT	EFE-304020-HT	16,2	32,3	48,5	56,6	72,7	80,8	88,9	124,4
AQ-363609P-HT	EFE-363609-HT	11,5	23,0	34,6	40,3	51,8	57,6	63,4	88,7
AR-406025P-HT	EFE-406025-HT	25,2	50,3	75,5	88,1	113,3	125,8	138,4	193,8
AQ-414012P-HT	EFE-414012-HT	14,6	29,1	43,7	51,0	65,5	72,8	80,1	112,1
AQ-414020P-HT	EFE-414020-HT	18,3	36,6	55,0	64,1	82,4	91,6	100,8	141,1

Enclosure types (polyester)		Maximum power dissipation (W) – Tamb. up to **55**°C							
		INTERNAL TEMP.65°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)	INTERNAL TEMP.127°C (T4/T135°C)
AQ-080806P-HT	EFE-080806-HT	1,7	2,6	4,4	5,2	7,0	7,8	8,7	12,5
AQ-080808P-HT	EFE-080808-HT	2,3	3,4	5,7	6,8	9,1	10,2	11,4	16,2
AR-081106P-HT	EFE-081106-HT	2,1	3,2	5,3	6,4	8,5	9,6	10,7	15,2
AR-081108P-HT	EFE-081108-HT	2,8	4,2	7,0	8,4	11,2	12,6	13,9	19,8
AR-081606P-HT	EFE-081606-HT	2,9	4,3	7,2	8,7	11,6	13,0	14,5	20,6
AR-081608P-HT	EFE-081608-HT	3,4	5,1	8,5	10,2	13,7	15,4	17,1	24,3
AR-081906P-HT	EFE-081906-HT	3,2	4,8	8,0	9,6	12,8	14,4	16,0	22,8
AR-081908P-HT	EFE-081908-HT	3,8	5,7	9,4	11,3	15,1	17,0	18,8	26,8
AR-082306P-HT	EFE-082306-HT	3,6	5,4	9,0	10,8	14,4	16,2	18,0	25,6
AR-082308P-HT	EFE-082308-HT	4,2	6,3	10,6	12,7	16,9	19,0	21,1	30,0
AQ-121209P-HT	EFE-121209-HT	4,0	6,0	10,0	12,0	15,9	17,9	19,9	28,3
AR-122209P-HT	EFE-122209-HT	5,4	8,1	13,5	16,2	21,6	24,3	27,0	38,3
AQ-161609P-HT	EFE-161609-HT	5,2	7,8	13,0	15,6	20,8	23,4	26,0	36,9
AR-162609P-HT	EFE-162609-HT	6,7	10,1	16,8	20,1	26,8	30,2	33,5	47,6
AR-163609P-HT	EFE-163609-HT	8,1	12,2	20,3	24,3	32,4	36,5	40,5	57,5
AR-165609P-HT	EFE-165609-HT	10,7	16,0	26,7	32,0	42,7	48,1	53,4	75,8
AQ-202017P-HT	EFE-202017-HT	9,0	13,5	22,4	26,9	35,9	40,4	44,9	63,7
AR-203017P-HT	EFE-203017-HT	10,4	15,7	26,1	31,3	41,7	47,0	52,2	74,0
AQ-252612P-HT	EFE-252612-HT	9,4	14,1	23,5	28,2	37,6	42,4	47,1	66,8
AQ-252616P-HT	EFE-252616-HT	10,4	15,6	26,0	31,1	41,5	46,7	51,9	73,7
AR-254012P-HT	EFE-254012-HT	11,4	17,1	28,5	34,2	45,7	51,4	57,1	81,0
AR-254016P-HT	EFE-254016-HT	13,1	19,6	32,7	39,3	52,4	58,9	65,5	92,9
AR-256012P-HT	EFE-256012-HT	14,5	21,8	36,3	43,6	58,1	65,3	72,6	103,0
AR-304020P-HT	EFE-304020-HT	16,2	24,2	40,4	48,5	64,7	72,7	80,8	114,7
AQ-363609P-HT	EFE-363609-HT	11,5	17,3	28,8	34,6	46,1	51,8	57,6	81,8
AR-406025P-HT	EFE-406025-HT	25,2	37,8	62,9	75,5	100,7	113,3	125,8	178,6
AQ-414012P-HT	EFE-414012-HT	14,6	21,8	36,4	43,7	58,2	65,5	72,8	103,0
AQ-414020P-HT	EFE-414020-HT	18,3	27,5	45,8	55,0	73,3	82,4	91,6	130,0

Enclosure types (polyester)		Maximum power dissipation (W) – Tamb. up to **60**°C						
		INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)	INTERNAL TEMP.127°C (T4/T135°C)
AQ-080806P-HT	EFE-080806-HT	1,7	3,5	4,4	6,1	7,0	7,8	11,7
AQ-080808P-HT	EFE-080808-HT	2,3	4,6	5,7	8,0	9,1	10,2	15,2
AR-081106P-HT	EFE-081106-HT	2,1	4,3	5,3	7,5	8,5	9,6	14,3
AR-081108P-HT	EFE-081108-HT	2,8	5,6	7,0	9,8	11,2	12,6	18,7
AR-081606P-HT	EFE-081606-HT	2,9	5,8	7,2	10,1	11,6	13,0	19,4
AR-081608P-HT	EFE-081608-HT	3,4	6,8	8,5	11,9	13,7	15,4	22,9
AR-081906P-HT	EFE-081906-HT	3,2	6,4	8,0	11,2	12,8	14,4	21,4
AR-081908P-HT	EFE-081908-HT	3,8	7,5	9,4	13,2	15,1	17,0	25,3
AR-082306P-HT	EFE-082306-HT	3,6	7,2	9,0	12,6	14,4	16,2	24,1
AR-082308P-HT	EFE-082308-HT	4,2	8,5	10,6	14,8	16,9	19,0	28,3
AQ-121209P-HT	EFE-121209-HT	4,0	8,0	10,0	14,0	15,9	17,9	26,7
AR-122209P-HT	EFE-122209-HT	5,4	10,8	13,5	18,9	21,6	24,3	36,2
AQ-161609P-HT	EFE-161609-HT	5,2	10,4	13,0	18,2	20,8	23,4	34,8
AR-162609P-HT	EFE-162609-HT	6,7	13,4	16,8	23,5	26,8	30,2	44,9
AR-163609P-HT	EFE-163609-HT	8,1	16,2	20,3	28,4	32,4	36,5	54,2
AR-165609P-HT	EFE-165609-HT	10,7	21,4	26,7	37,4	42,7	48,1	71,5
AQ-202017P-HT	EFE-202017-HT	9,0	18,0	22,4	31,4	35,9	40,4	60,1
AR-203017P-HT	EFE-203017-HT	10,4	20,9	26,1	36,5	41,7	47,0	69,9
AQ-252612P-HT	EFE-252612-HT	9,4	18,8	23,5	32,9	37,6	42,4	63,0
AQ-252616P-HT	EFE-252616-HT	10,4	20,8	26,0	36,3	41,5	46,7	69,5
AR-254012P-HT	EFE-254012-HT	11,4	22,8	28,5	39,9	45,7	51,4	76,5
AR-254016P-HT	EFE-254016-HT	13,1	26,2	32,7	45,8	52,4	58,9	87,7
AR-256012P-HT	EFE-256012-HT	14,5	29,0	36,3	50,8	58,1	65,3	97,2
AR-304020P-HT	EFE-304020-HT	16,2	32,3	40,4	56,6	64,7	72,7	108,3
AQ-363609P-HT	EFE-363609-HT	11,5	23,0	28,8	40,3	46,1	51,8	77,1
AR-406025P-HT	EFE-406025-HT	25,2	50,3	62,9	88,1	100,7	113,3	168,7
AQ-414012P-HT	EFE-414012-HT	14,6	29,1	36,4	51,0	58,2	65,5	97,5
AQ-414020P-HT	EFE-414020-HT	18,3	36,6	45,8	64,1	73,3	82,4	122,7

Enclosure types (polyester)		Maximum power dissipation (W) Tamb. up to **95**°C		
		INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)	INTERNAL TEMP.127°C (T4/T135°C)
AQ-080806P-HT	EFE-080806-HT	0,9	1,7	5,6
AQ-080808P-HT	EFE-080808-HT	1,1	2,3	7,3
AR-081106P-HT	EFE-081106-HT	1,1	2,1	6,5
AR-081108P-HT	EFE-081108-HT	1,4	2,8	9,0
AR-081606P-HT	EFE-081606-HT	1,4	2,9	9,2
AR-081608P-HT	EFE-081608-HT	1,7	3,4	10,9
AR-081906P-HT	EFE-081906-HT	1,6	3,2	10,2
AR-081908P-HT	EFE-081908-HT	1,9	3,8	12,1
AR-082306P-HT	EFE-082306-HT	1,8	3,6	11,5
AR-082308P-HT	EFE-082308-HT	2,1	4,2	13,5
AQ-121209P-HT	EFE-121209-HT	2,0	4,0	12,8
AR-122209P-HT	EFE-122209-HT	2,7	5,4	17,3
AQ-161609P-HT	EFE-161609-HT	2,6	5,2	16,6
AR-162609P-HT	EFE-162609-HT	3,4	6,7	21,5
AR-163609P-HT	EFE-163609-HT	4,1	8,1	26,0
AR-165609P-HT	EFE-165609-HT	5,3	10,7	34,2
AQ-202017P-HT	EFE-202017-HT	4,5	9,0	28,7
AR-203017P-HT	EFE-203017-HT	5,2	10,4	33,4
AQ-252612P-HT	EFE-252612-HT	4,7	9,4	30,1
AQ-252616P-HT	EFE-252616-HT	5,2	10,4	33,2
AR-254012P-HT	EFE-254012-HT	5,7	11,4	36,5
AR-254016P-HT	EFE-254016-HT	6,5	13,1	41,9
AR-256012P-HT	EFE-256012-HT	7,3	14,5	46,4
AR-304020P-HT	EFE-304020-HT	8,1	16,2	51,8
AQ-363609P-HT	EFE-363609-HT	5,8	11,5	36,8
AR-406025P-HT	EFE-406025-HT	12,6	25,2	80,6
AQ-414012P-HT	EFE-414012-HT	7,3	14,6	46,6
AQ-414020P-HT	EFE-414020-HT	9,2	18,3	58,6

Power dissipation – HT aluminium alloy enclosures

Enclosure types (aluminium)		Maximum power dissipation (W) – Tamb. up to **40**°C							
		INTERNAL TEMP.60°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)	INTERNAL TEMP.130°C (T4/T135°C)
AQ-080806AL-HT	EFXE-080806AL-HT	5,2	7,8	10,4	11,7	14,3	15,6	16,9	23,4
AR-081306AL-HT	EFXE-081306AL-HT	7,0	10,6	14,1	15,9	19,4	21,2	23,0	31,8
AR-081806AL-HT	EFXE-081806AL-HT	8,9	13,3	17,8	20,0	24,5	26,7	28,9	40,0
AR-082505AL-HT	EFXE-082505AL-HT	10,9	16,4	21,9	24,7	30,1	32,9	35,6	49,4
AQ-101008AL-HT	EFXE-101008AL-HT	8,7	13,0	17,4	19,6	23,9	26,1	28,3	39,2
AR-101608AL-HT	EFXE-101608AL-HT	11,5	17,3	23,1	26,0	31,8	34,7	37,6	52,0
AR-102008AL-HT	EFXE-102008AL-HT	13,4	20,1	26,8	30,2	36,9	40,3	43,6	60,4
AQ-121208AL-HT	EFXE-121208AL-HT	10,8	16,2	21,6	24,3	29,7	32,4	35,1	48,6
AQ-121209AL-HT	EFXE-121209AL-HT	11,6	17,5	23,3	26,2	32,1	35,0	37,9	52,5
AR-122208AL-HT	EFXE-122208AL-HT	15,6	23,5	31,3	35,3	43,1	47,0	50,9	70,6
AR-122209AL-HT	EFXE-122209AL-HT	16,8	25,3	33,7	37,9	46,3	50,6	54,8	75,9
AR-123608AL-HT	EFXE-123608AL-HT	22,3	33,5	44,7	50,3	61,5	67,1	72,7	100,7
AQ-141409AL-HT	EFXE-141409AL-HT	13,7	20,6	27,5	31,0	37,9	41,3	44,8	62,0
AR-142009AL-HT	EFXE-142009AL-HT	17,1	25,7	34,2	38,5	47,1	51,4	55,7	77,1
AQ-161609AL-HT	EFXE-161609AL-HT	16,1	24,1	32,2	36,2	44,2	48,3	52,3	72,4
AR-162609AL-HT	EFXE-162609AL-HT	21,9	32,8	43,8	49,3	60,2	65,7	71,2	98,6
AR-163609AL-HT	EFXE-163609AL-HT	27,5	41,3	55,1	62,0	75,7	82,6	89,5	124,0
AR-165609AL-HT	EFXE-165609AL-HT	38,4	57,7	76,9	86,6	105,8	115,4	125,0	173,2
AQ-181810AL-HT	EFXE-181810AL-HT	19,7	29,6	39,5	44,4	54,3	59,2	64,2	88,8
AR-182810AL-HT	EFXE-182810AL-HT	26,1	39,1	52,2	58,7	71,8	78,3	84,8	117,5
AR-102311AL-HT	EFXE-102311AL-HT	18,2	27,3	36,5	41,0	50,1	54,7	59,3	82,1
AR-202311AL-HT	EFXE-202311AL-HT	26,1	39,1	52,2	58,7	71,7	78,3	84,8	117,4
AR-202318AL-HT	EFXE-202318AL-HT	35,9	53,9	71,8	80,8	98,8	107,8	116,8	161,7
AR-232811AL-HT	EFXE-232811AL-HT	31,6	47,5	63,3	71,3	87,1	95,0	103,0	142,6
AR-233311AL-HT	EFXE-233311AL-HT	35,3	52,9	70,6	79,4	97,0	105,9	114,7	158,8
AR-233318AL-HT	EFXE-233318AL-HT	47,5	71,3	95,1	107,0	130,8	142,7	154,6	214,1
AR-234011AL-HT	EFXE-234011AL-HT	40,2	60,4	80,5	90,6	110,7	120,8	130,9	181,2
AR-234023AL-HT	EFXE-234023AL-HT	62,2	93,3	124,5	140,0	171,2	186,7	202,3	280,1
AR-236011AL-HT	EFXE-236011AL-HT	54,1	81,2	108,3	121,9	148,9	162,5	176,0	243,8
AR-314011AL-HT	EFXE-314011AL-HT	48,6	72,9	97,2	109,3	133,6	145,8	157,9	218,7
AR-314014AL-HT	EFXE-314014AL-HT	54,9	82,4	109,9	123,7	151,2	164,9	178,7	247,4
AR-314018AL-HT	EFXE-314018AL-HT	63,8	95,7	127,6	143,5	175,4	191,4	207,3	287,1
AR-314023AL-HT	EFXE-314023AL-HT	73,5	110,3	147,1	165,5	202,3	220,7	239,1	331,0
AR-316011AL-HT	EFXE-316011AL-HT	64,0	96,0	128,1	144,1	176,1	192,1	208,1	288,2
AR-316018AL-HT	EFXE-316018AL-HT	82,7	124,1	165,5	186,2	227,6	248,3	268,9	372,4
AQ-606020AL-HT	EFXE-606020AL-HT	129,1	193,7	258,3	290,5	355,1	387,4	419,7	581,1

Enclosure types (aluminium)		Maximum power dissipation (W) – Tamb. up to **50**°C							
		INTERNAL TEMP.60°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)	INTERNAL TEMP.130°C (T4/T135°C)
AQ-080806AL-HT	EFXE-080806AL-HT	2,6	5,2	7,8	9,1	11,7	13,0	14,3	20,8
AR-081306AL-HT	EFXE-081306AL-HT	3,5	7,0	10,6	12,3	15,9	17,7	19,4	28,3
AR-081806AL-HT	EFXE-081806AL-HT	4,4	8,9	13,3	15,5	20,0	22,2	24,5	35,6
AR-082505AL-HT	EFXE-082505AL-HT	5,4	10,9	16,4	19,2	24,7	27,4	30,1	43,9
AQ-101008AL-HT	EFXE-101008AL-HT	4,3	8,7	13,0	15,2	19,6	21,7	23,9	34,8
AR-101608AL-HT	EFXE-101608AL-HT	5,7	11,5	17,3	20,2	26,0	28,9	31,8	46,2
AR-102008AL-HT	EFXE-102008AL-HT	6,7	13,4	20,1	23,5	30,2	33,5	36,9	53,7
AQ-121208AL-HT	EFXE-121208AL-HT	5,4	10,8	16,2	18,9	24,3	27,0	29,7	43,2
AQ-121209AL-HT	EFXE-121209AL-HT	5,8	11,6	17,5	20,4	26,2	29,2	32,1	46,7
AR-122208AL-HT	EFXE-122208AL-HT	7,8	15,6	23,5	27,4	35,3	39,2	43,1	62,7
AR-122209AL-HT	EFXE-122209AL-HT	8,4	16,8	25,3	29,5	37,9	42,1	46,3	67,4
AR-123608AL-HT	EFXE-123608AL-HT	11,1	22,3	33,5	39,1	50,3	55,9	61,5	89,5
AQ-141409AL-HT	EFXE-141409AL-HT	6,8	13,7	20,6	24,1	31,0	34,4	37,9	55,1
AR-142009AL-HT	EFXE-142009AL-HT	8,5	17,1	25,7	30,0	38,5	42,8	47,1	68,5
AQ-161609AL-HT	EFXE-161609AL-HT	8,0	16,1	24,1	28,1	36,2	40,2	44,2	64,4
AR-162609AL-HT	EFXE-162609AL-HT	10,9	21,9	32,8	38,3	49,3	54,8	60,2	87,6
AR-163609AL-HT	EFXE-163609AL-HT	13,7	27,5	41,3	48,2	62,0	68,9	75,7	110,2
AR-165609AL-HT	EFXE-165609AL-HT	19,2	38,4	57,7	67,3	86,6	96,2	105,8	153,9
AQ-181810AL-HT	EFXE-181810AL-HT	9,8	19,7	29,6	34,5	44,4	49,3	54,3	79,0
AR-182810AL-HT	EFXE-182810AL-HT	13,0	26,1	39,1	45,7	58,7	65,2	71,8	104,4
AR-102311AL-HT	EFXE-102311AL-HT	9,1	18,2	27,3	31,9	41,0	45,6	50,1	73,0
AR-202311AL-HT	EFXE-202311AL-HT	13,0	26,1	39,1	45,6	58,7	65,2	71,7	104,4
AR-202318AL-HT	EFXE-202318AL-HT	17,9	35,9	53,9	62,8	80,8	89,8	98,8	143,7
AR-232811AL-HT	EFXE-232811AL-HT	15,8	31,6	47,5	55,4	71,3	79,2	87,1	126,7
AR-233311AL-HT	EFXE-233311AL-HT	17,6	35,3	52,9	61,7	79,4	88,2	97,0	141,2
AR-233318AL-HT	EFXE-233318AL-HT	23,7	47,5	71,3	83,2	107,0	118,9	130,8	190,3
AR-234011AL-HT	EFXE-234011AL-HT	20,1	40,2	60,4	70,5	90,6	100,7	110,7	161,1
AR-234023AL-HT	EFXE-234023AL-HT	31,1	62,2	93,3	108,9	140,0	155,6	171,2	249,0
AR-236011AL-HT	EFXE-236011AL-HT	27,0	54,1	81,2	94,8	121,9	135,4	148,9	216,7
AR-314011AL-HT	EFXE-314011AL-HT	24,3	48,6	72,9	85,0	109,3	121,5	133,6	194,4
AR-314014AL-HT	EFXE-314014AL-HT	27,4	54,9	82,4	96,2	123,7	137,4	151,2	219,9
AR-314018AL-HT	EFXE-314018AL-HT	31,9	63,8	95,7	111,6	143,5	159,5	175,4	255,2
AR-314023AL-HT	EFXE-314023AL-HT	36,7	73,5	110,3	128,7	165,5	183,9	202,3	294,2
AR-316011AL-HT	EFXE-316011AL-HT	32,0	64,0	96,0	112,0	144,1	160,1	176,1	256,2
AR-316018AL-HT	EFXE-316018AL-HT	41,3	82,7	124,1	144,8	186,2	206,9	227,6	331,0
AQ-606020AL-HT	EFXE-606020AL-HT	64,5	129,1	193,7	226,0	290,5	322,8	355,1	516,6

Enclosure types (aluminium)		Maximum power dissipation (W) – Tamb. up to **55**°C							
		INTERNAL TEMP.65°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)	INTERNAL TEMP.130°C (T4/T135°C)
AQ-080806AL-HT	EFXE-080806AL-HT	2,6	3,9	6,5	7,8	10,4	11,7	13,0	19,5
AR-081306AL-HT	EFXE-081306AL-HT	3,5	5,3	8,8	10,6	14,1	15,9	17,7	26,5
AR-081806AL-HT	EFXE-081806AL-HT	4,4	6,6	11,1	13,3	17,8	20,0	22,2	33,4
AR-082505AL-HT	EFXE-082505AL-HT	5,4	8,2	13,7	16,4	21,9	24,7	27,4	41,1
AQ-101008AL-HT	EFXE-101008AL-HT	4,3	6,5	10,8	13,0	17,4	19,6	21,7	32,6
AR-101608AL-HT	EFXE-101608AL-HT	5,7	8,6	14,4	17,3	23,1	26,0	28,9	43,3
AR-102008AL-HT	EFXE-102008AL-HT	6,7	10,0	16,7	20,1	26,8	30,2	33,5	50,3
AQ-121208AL-HT	EFXE-121208AL-HT	5,4	8,1	13,5	16,2	21,6	24,3	27,0	40,5
AQ-121209AL-HT	EFXE-121209AL-HT	5,8	8,7	14,6	17,5	23,3	26,2	29,2	43,8
AR-122208AL-HT	EFXE-122208AL-HT	7,8	11,7	19,6	23,5	31,3	35,3	39,2	58,8
AR-122209AL-HT	EFXE-122209AL-HT	8,4	12,6	21,0	25,3	33,7	37,9	42,1	63,2
AR-123608AL-HT	EFXE-123608AL-HT	11,1	16,7	27,9	33,5	44,7	50,3	55,9	83,9
AQ-141409AL-HT	EFXE-141409AL-HT	6,8	10,3	17,2	20,6	27,5	31,0	34,4	51,7
AR-142009AL-HT	EFXE-142009AL-HT	8,5	12,8	21,4	25,7	34,2	38,5	42,8	64,3
AQ-161609AL-HT	EFXE-161609AL-HT	8,0	12,0	20,1	24,1	32,2	36,2	40,2	60,4
AR-162609AL-HT	EFXE-162609AL-HT	10,9	16,4	27,4	32,8	43,8	49,3	54,8	82,2
AR-163609AL-HT	EFXE-163609AL-HT	13,7	20,6	34,4	41,3	55,1	62,0	68,9	103,3
AR-165609AL-HT	EFXE-165609AL-HT	19,2	28,8	48,1	57,7	76,9	86,6	96,2	144,3
AQ-181810AL-HT	EFXE-181810AL-HT	9,8	14,8	24,6	29,6	39,5	44,4	49,3	74,0
AR-182810AL-HT	EFXE-182810AL-HT	13,0	19,5	32,6	39,1	52,2	58,7	65,2	97,9
AR-102311AL-HT	EFXE-102311AL-HT	9,1	13,6	22,8	27,3	36,5	41,0	45,6	68,4
AR-202311AL-HT	EFXE-202311AL-HT	13,0	19,5	32,6	39,1	52,2	58,7	65,2	97,9
AR-202318AL-HT	EFXE-202318AL-HT	17,9	26,9	44,9	53,9	71,8	80,8	89,8	134,7
AR-232811AL-HT	EFXE-232811AL-HT	15,8	23,7	39,6	47,5	63,3	71,3	79,2	118,8
AR-233311AL-HT	EFXE-233311AL-HT	17,6	26,4	44,1	52,9	70,6	79,4	88,2	132,3
AR-233318AL-HT	EFXE-233318AL-HT	23,7	35,6	59,4	71,3	95,1	107,0	118,9	178,4
AR-234011AL-HT	EFXE-234011AL-HT	20,1	30,2	50,3	60,4	80,5	90,6	100,7	151,0
AR-234023AL-HT	EFXE-234023AL-HT	31,1	46,6	77,8	93,3	124,5	140,0	155,6	233,4
AR-236011AL-HT	EFXE-236011AL-HT	27,0	40,6	67,7	81,2	108,3	121,9	135,4	203,1
AR-314011AL-HT	EFXE-314011AL-HT	24,3	36,4	60,7	72,9	97,2	109,3	121,5	182,3
AR-314014AL-HT	EFXE-314014AL-HT	27,4	41,2	68,7	82,4	109,9	123,7	137,4	206,2
AR-314018AL-HT	EFXE-314018AL-HT	31,9	47,8	79,7	95,7	127,6	143,5	159,5	239,2
AR-314023AL-HT	EFXE-314023AL-HT	36,7	55,1	91,9	110,3	147,1	165,5	183,9	275,8
AR-316011AL-HT	EFXE-316011AL-HT	32,0	48,0	80,0	96,0	128,1	144,1	160,1	240,1
AR-316018AL-HT	EFXE-316018AL-HT	41,3	62,0	103,4	124,1	165,5	186,2	206,9	310,3
AQ-606020AL-HT	EFXE-606020AL-HT	64,5	96,8	161,4	193,7	258,3	290,5	322,8	484,3

Enclosure types (aluminium)		Maximum power dissipation (W) – Tamb. up to **60**°C						
		INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)	INTERNAL TEMP.130°C (T4/T135°C)
AQ-080806AL-HT	EFXE-080806AL-HT	2,6	5,2	6,5	9,1	10,4	11,7	18,2
AR-081306AL-HT	EFXE-081306AL-HT	3,5	7,0	8,8	12,3	14,1	15,9	24,7
AR-081806AL-HT	EFXE-081806AL-HT	4,4	8,9	11,1	15,5	17,8	20,0	31,1
AR-082505AL-HT	EFXE-082505AL-HT	5,4	10,9	13,7	19,2	21,9	24,7	38,4
AQ-101008AL-HT	EFXE-101008AL-HT	4,3	8,7	10,8	15,2	17,4	19,6	30,4
AR-101608AL-HT	EFXE-101608AL-HT	5,7	11,5	14,4	20,2	23,1	26,0	40,5
AR-102008AL-HT	EFXE-102008AL-HT	6,7	13,4	16,7	23,5	26,8	30,2	47,0
AQ-121208AL-HT	EFXE-121208AL-HT	5,4	10,8	13,5	18,9	21,6	24,3	37,8
AQ-121209AL-HT	EFXE-121209AL-HT	5,8	11,6	14,6	20,4	23,3	26,2	40,8
AR-122208AL-HT	EFXE-122208AL-HT	7,8	15,6	19,6	27,4	31,3	35,3	54,9
AR-122209AL-HT	EFXE-122209AL-HT	8,4	16,8	21,0	29,5	33,7	37,9	59,0
AR-123608AL-HT	EFXE-123608AL-HT	11,1	22,3	27,9	39,1	44,7	50,3	78,3
AQ-141409AL-HT	EFXE-141409AL-HT	6,8	13,7	17,2	24,1	27,5	31,0	48,2
AR-142009AL-HT	EFXE-142009AL-HT	8,5	17,1	21,4	30,0	34,2	38,5	60,0
AQ-161609AL-HT	EFXE-161609AL-HT	8,0	16,1	20,1	28,1	32,2	36,2	56,3
AR-162609AL-HT	EFXE-162609AL-HT	10,9	21,9	27,4	38,3	43,8	49,3	76,7
AR-163609AL-HT	EFXE-163609AL-HT	13,7	27,5	34,4	48,2	55,1	62,0	96,4
AR-165609AL-HT	EFXE-165609AL-HT	19,2	38,4	48,1	67,3	76,9	86,6	134,7
AQ-181810AL-HT	EFXE-181810AL-HT	9,8	19,7	24,6	34,5	39,5	44,4	69,1
AR-182810AL-HT	EFXE-182810AL-HT	13,0	26,1	32,6	45,7	52,2	58,7	91,4
AR-102311AL-HT	EFXE-102311AL-HT	9,1	18,2	22,8	31,9	36,5	41,0	63,8
AR-202311AL-HT	EFXE-202311AL-HT	13,0	26,1	32,6	45,6	52,2	58,7	91,3
AR-202318AL-HT	EFXE-202318AL-HT	17,9	35,9	44,9	62,8	71,8	80,8	125,7
AR-232811AL-HT	EFXE-232811AL-HT	15,8	31,6	39,6	55,4	63,3	71,3	110,9
AR-233311AL-HT	EFXE-233311AL-HT	17,6	35,3	44,1	61,7	70,6	79,4	123,5
AR-233318AL-HT	EFXE-233318AL-HT	23,7	47,5	59,4	83,2	95,1	107,0	166,5
AR-234011AL-HT	EFXE-234011AL-HT	20,1	40,2	50,3	70,5	80,5	90,6	141,0
AR-234023AL-HT	EFXE-234023AL-HT	31,1	62,2	77,8	108,9	124,5	140,0	217,9
AR-236011AL-HT	EFXE-236011AL-HT	27,0	54,1	67,7	94,8	108,3	121,9	189,6
AR-314011AL-HT	EFXE-314011AL-HT	24,3	48,6	60,7	85,0	97,2	109,3	170,1
AR-314014AL-HT	EFXE-314014AL-HT	27,4	54,9	68,7	96,2	109,9	123,7	192,4
AR-314018AL-HT	EFXE-314018AL-HT	31,9	63,8	79,7	111,6	127,6	143,5	223,3
AR-314023AL-HT	EFXE-314023AL-HT	36,7	73,5	91,9	128,7	147,1	165,5	257,4
AR-316011AL-HT	EFXE-316011AL-HT	32,0	64,0	80,0	112,0	128,1	144,1	224,1
AR-316018AL-HT	EFXE-316018AL-HT	41,3	82,7	103,4	144,8	165,5	186,2	289,6
AQ-606020AL-HT	EFXE-606020AL-HT	64,5	129,1	161,4	226,0	258,3	290,5	452,0

Enclosure types (aluminium)		Maximum power dissipation (W) Tamb. up to **95**°C		
		INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)	INTERNAL TEMP.130°C (T4/T135°C)
AQ-080806AL-HT	EFXE-080806AL-HT	1,3	2,6	9,1
AR-081306AL-HT	EFXE-081306AL-HT	1,7	3,5	12,3
AR-081806AL-HT	EFXE-081806AL-HT	2,2	4,4	15,5
AR-082505AL-HT	EFXE-082505AL-HT	2,7	5,4	19,2
AQ-101008AL-HT	EFXE-101008AL-HT	2,1	4,3	15,2
AR-101608AL-HT	EFXE-101608AL-HT	2,8	5,7	20,2
AR-102008AL-HT	EFXE-102008AL-HT	3,3	6,7	23,5
AQ-121208AL-HT	EFXE-121208AL-HT	2,7	5,4	18,9
AQ-121209AL-HT	EFXE-121209AL-HT	2,9	5,8	20,4
AR-122208AL-HT	EFXE-122208AL-HT	3,9	7,8	27,4
AR-122209AL-HT	EFXE-122209AL-HT	4,2	8,4	29,5
AR-123608AL-HT	EFXE-123608AL-HT	5,5	11,1	39,1
AQ-141409AL-HT	EFXE-141409AL-HT	3,4	6,8	24,1
AR-142009AL-HT	EFXE-142009AL-HT	4,2	8,5	30,0
AQ-161609AL-HT	EFXE-161609AL-HT	4,0	8,0	28,1
AR-162609AL-HT	EFXE-162609AL-HT	5,4	10,9	38,3
AR-163609AL-HT	EFXE-163609AL-HT	6,8	13,7	48,2
AR-165609AL-HT	EFXE-165609AL-HT	9,6	19,2	67,3
AQ-181810AL-HT	EFXE-181810AL-HT	4,9	9,8	34,5
AR-182810AL-HT	EFXE-182810AL-HT	6,5	13,0	45,7
AR-102311AL-HT	EFXE-102311AL-HT	4,5	9,1	31,9
AR-202311AL-HT	EFXE-202311AL-HT	6,5	13,0	45,6
AR-202318AL-HT	EFXE-202318AL-HT	8,9	17,9	62,8
AR-232811AL-HT	EFXE-232811AL-HT	7,9	15,8	55,4
AR-233311AL-HT	EFXE-233311AL-HT	8,8	17,6	61,7
AR-233318AL-HT	EFXE-233318AL-HT	11,8	23,7	83,2
AR-234011AL-HT	EFXE-234011AL-HT	10,0	20,1	70,5
AR-234023AL-HT	EFXE-234023AL-HT	15,5	31,1	108,9
AR-236011AL-HT	EFXE-236011AL-HT	13,5	27,0	94,8
AR-314011AL-HT	EFXE-314011AL-HT	12,1	24,3	85,0
AR-314014AL-HT	EFXE-314014AL-HT	13,7	27,4	96,2
AR-314018AL-HT	EFXE-314018AL-HT	15,9	31,9	111,6
AR-314023AL-HT	EFXE-314023AL-HT	18,3	36,7	128,7
AR-316011AL-HT	EFXE-316011AL-HT	16,0	32,0	112,0
AR-316018AL-HT	EFXE-316018AL-HT	20,6	41,3	144,8
AQ-606020AL-HT	EFXE-606020AL-HT	32,2	64,5	226,0

Power dissipation – Glass fiber reinforced polyester resin enclosures

Enclosure types (polyester)		Maximum power dissipation (W) – Tamb. up to **40**°C						
		INTERNAL TEMP.60°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
AQ-080806P	EFE-080806	3,4	5,2	6,9	7,8	9,5	10,4	11,3
AQ-080808P	EFE-080808	4,5	6,8	9,1	10,2	12,5	13,6	14,7
AR-081106P	EFE-081106	4,2	6,4	8,5	9,6	11,7	12,8	13,8
AR-081606P	EFE-081606	5,7	8,6	11,5	13,0	15,9	17,3	18,8
AR-081906P	EFE-081906	6,4	9,6	12,8	14,4	17,6	19,2	20,8
AQ-121209P	EFE-121209	7,9	11,9	15,9	17,9	21,9	23,9	25,9
AR-122209P	EFE-122209	10,8	16,2	21,6	24,3	29,7	32,4	35,1
AQ-161609P	EFE-161609	10,3	15,5	20,7	23,3	28,5	31,1	33,7
AR-162609P	EFE-162609	13,4	20,1	26,8	30,1	36,8	40,2	43,5
AR-163609P	EFE-163609	16,2	24,3	32,4	36,4	44,5	48,6	52,6
AQ-252612P	EFE-252612	18,8	28,2	37,6	42,3	51,7	56,4	61,1
AQ-252616P	EFE-252616	21,7	32,6	43,5	49,0	59,9	65,3	70,8
AR-254012P	EFE-254012	23,9	35,9	47,9	53,9	65,9	71,8	77,8
AR-254016P	EFE-254016	27,4	41,2	54,9	61,8	75,6	82,4	89,3
AR-256012P	EFE-256012	29,0	43,5	58,0	65,3	79,8	87,1	94,3
AQ-414012P	EFE-414012	29,1	43,6	58,2	65,5	80,0	87,3	94,6
AQ-414016P	EFE-414016	32,9	49,4	65,9	74,1	90,6	98,8	107,0

Enclosure types (polyester)		Maximum power dissipation (W) – Tamb. up to **50**°C						
		INTERNAL TEMP.60°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
AQ-080806P	EFE-080806	1,7	3,4	5,2	6,0	7,8	8,7	9,5
AQ-080808P	EFE-080808	2,2	4,5	6,8	7,9	10,2	11,3	12,5
AR-081106P	EFE-081106	2,1	4,2	6,4	7,4	9,6	10,6	11,7
AR-081606P	EFE-081606	2,8	5,7	8,6	10,1	13,0	14,4	15,9
AR-081906P	EFE-081906	3,2	6,4	9,6	11,2	14,4	16,0	17,6
AQ-121209P	EFE-121209	3,9	7,9	11,9	13,9	17,9	19,9	21,9
AR-122209P	EFE-122209	5,4	10,8	16,2	18,9	24,3	27,0	29,7
AQ-161609P	EFE-161609	5,1	10,3	15,5	18,1	23,3	25,9	28,5
AR-162609P	EFE-162609	6,7	13,4	20,1	23,4	30,1	33,5	36,8
AR-163609P	EFE-163609	8,1	16,2	24,3	28,3	36,4	40,5	44,5
AQ-252612P	EFE-252612	9,4	18,8	28,2	32,9	42,3	47,0	51,7
AQ-252616P	EFE-252616	10,8	21,7	32,6	38,1	49,0	54,4	59,9
AR-254012P	EFE-254012	11,9	23,9	35,9	41,9	53,9	59,9	65,9
AR-254016P	EFE-254016	13,7	27,4	41,2	48,1	61,8	68,7	75,6
AR-256012P	EFE-256012	14,5	29,0	43,5	50,8	65,3	72,6	79,8
AQ-414012P	EFE-414012	14,5	29,1	43,6	50,9	65,5	72,7	80,0
AQ-414016P	EFE-414016	16,4	32,9	49,4	57,6	74,1	82,3	90,6

Enclosure types (polyester)		Maximum power dissipation (W) – Tamb. up to **55**°C						
		INTERNAL TEMP.65°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
AQ-080806P	EFE-080806	1,7	2,6	4,3	5,2	6,9	7,8	8,7
AQ-080808P	EFE-080808	2,2	3,4	5,6	6,8	9,1	10,2	11,3
AR-081106P	EFE-081106	2,1	3,2	5,3	6,4	8,5	9,6	10,6
AR-081606P	EFE-081606	2,8	4,3	7,2	8,6	11,5	13,0	14,4
AR-081906P	EFE-081906	3,2	4,8	8,0	9,6	12,8	14,4	16,0
AQ-121209P	EFE-121209	3,9	5,9	9,9	11,9	15,9	17,9	19,9
AR-122209P	EFE-122209	5,4	8,1	13,5	16,2	21,6	24,3	27,0
AQ-161609P	EFE-161609	5,1	7,7	12,9	15,5	20,7	23,3	25,9
AR-162609P	EFE-162609	6,7	10,0	16,7	20,1	26,8	30,1	33,5
AR-163609P	EFE-163609	8,1	12,1	20,2	24,3	32,4	36,4	40,5
AQ-252612P	EFE-252612	9,4	14,1	23,5	28,2	37,6	42,3	47,0
AQ-252616P	EFE-252616	10,8	16,3	27,2	32,6	43,5	49,0	54,4
AR-254012P	EFE-254012	11,9	17,9	29,9	35,9	47,9	53,9	59,9
AR-254016P	EFE-254016	13,7	20,6	34,3	41,2	54,9	61,8	68,7
AR-256012P	EFE-256012	14,5	21,7	36,3	43,5	58,0	65,3	72,6
AQ-414012P	EFE-414012	14,5	21,8	36,3	43,6	58,2	65,5	72,7
AQ-414016P	EFE-414016	16,4	24,7	41,1	49,4	65,9	74,1	82,3

Enclosure types (polyester)		Maximum power dissipation (W) – Tamb. up to **60**°C					
		INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
AQ-080806P	EFE-080806	1,7	3,4	4,3	6,0	6,9	7,8
AQ-080808P	EFE-080808	2,2	4,5	5,6	7,9	9,1	10,2
AR-081106P	EFE-081106	2,1	4,2	5,3	7,4	8,5	9,6
AR-081606P	EFE-081606	2,8	5,7	7,2	10,1	11,5	13,0
AR-081906P	EFE-081906	3,2	6,4	8,0	11,2	12,8	14,4
AQ-121209P	EFE-121209	3,9	7,9	9,9	13,9	15,9	17,9
AR-122209P	EFE-122209	5,4	10,8	13,5	18,9	21,6	24,3
AQ-161609P	EFE-161609	5,1	10,3	12,9	18,1	20,7	23,3
AR-162609P	EFE-162609	6,7	13,4	16,7	23,4	26,8	30,1
AR-163609P	EFE-163609	8,1	16,2	20,2	28,3	32,4	36,4
AQ-252612P	EFE-252612	9,4	18,8	23,5	32,9	37,6	42,3
AQ-252616P	EFE-252616	10,8	21,7	27,2	38,1	43,5	49,0
AR-254012P	EFE-254012	11,9	23,9	29,9	41,9	47,9	53,9
AR-254016P	EFE-254016	13,7	27,4	34,3	48,1	54,9	61,8
AR-256012P	EFE-256012	14,5	29,0	36,3	50,8	58,0	65,3
AQ-414012P	EFE-414012	14,5	29,1	36,3	50,9	58,2	65,5
AQ-414016P	EFE-414016	16,4	32,9	41,1	57,6	65,9	74,1

Enclosure types (polyester)		Maximum power dissipation (W) – Tamb. up to **95**°C	
		INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
AQ-080806P	EFE-080806	0,8	1,7
AQ-080808P	EFE-080808	1,1	2,2
AR-081106P	EFE-081106	1,0	2,1
AR-081606P	EFE-081606	1,4	2,8
AR-081906P	EFE-081906	1,6	3,2
AQ-121209P	EFE-121209	1,9	3,9
AR-122209P	EFE-122209	2,7	5,4
AQ-161609P	EFE-161609	2,5	5,1
AR-162609P	EFE-162609	3,3	6,7
AR-163609P	EFE-163609	4,0	8,1
AQ-252612P	EFE-252612	4,7	9,4
AQ-252616P	EFE-252616	5,4	10,8
AR-254012P	EFE-254012	5,9	11,9
AR-254016P	EFE-254016	6,8	13,7
AR-256012P	EFE-256012	7,2	14,5
AQ-414012P	EFE-414012	7,2	14,5
AQ-414016P	EFE-414016	8,2	16,4

Power dissipation – Aluminium alloy enclosures

Enclosure types (aluminium)		Maximum power dissipation (W) – Tamb. up to **40**°C						
		INTERNAL TEMP.60°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
AQ-080806AL	EFXE-080806AL	5,2	7,8	10,4	11,7	14,3	15,6	16,9
AR-081306AL	EFXE-081306AL	7,0	10,6	14,1	15,9	19,4	21,2	23,0
AR-081806AL	EFXE-081806AL	8,9	13,3	17,8	20,0	24,5	26,7	28,9
AR-081808AL	EFXE-081808AL	11,0	16,5	22,1	24,8	30,4	33,1	35,9
AR-082505AL	EFXE-082505AL	10,7	16,1	21,4	24,1	29,5	32,2	34,8
AR-082508AL	EFXE-082508AL	14,2	21,4	28,5	32,1	39,2	42,8	46,4
AQ-101008AL	EFXE-101008AL	8,7	13,0	17,4	19,6	23,9	26,1	28,3
AR-101508AL	EFXE-101508AL	11,1	16,6	22,2	24,9	30,5	33,3	36,0
AR-101608AL	EFXE-101608AL	11,5	17,3	23,1	26,0	31,8	34,7	37,6
AR-102008AL	EFXE-102008AL	13,4	20,1	26,8	30,2	36,9	40,3	43,6
AQ-121208AL	EFXE-121208AL	10,8	16,2	21,6	24,3	29,7	32,4	35,1
AR-122209AL	EFXE-122209AL	16,8	25,3	33,7	37,9	46,3	50,6	54,8
AQ-141409AL	EFXE-141409AL	13,7	20,6	27,5	31,0	37,9	41,3	44,8
AR-142009AL	EFXE-142009AL	17,1	25,7	34,2	38,5	47,1	51,4	55,7
AQ-161609AL	EFXE-161609AL	17,2	25,8	34,4	38,7	47,3	51,6	55,9
AR-162410AL	EFXE-162410AL	22,1	33,1	44,2	49,7	60,8	66,3	71,8
AR-162609AL	EFXE-162609AL	21,9	32,8	43,8	49,3	60,2	65,7	71,2
AQ-181810AL	EFXE-181810AL	19,7	29,6	39,5	44,4	54,3	59,2	64,2
AR-182810AL	EFXE-182810AL	26,1	39,1	52,2	58,7	71,8	78,3	84,8
AR-202311AL	EFXE-202311AL	25,8	38,7	51,6	58,0	71,0	77,4	83,9
AR-202318AL	EFXE-202318AL	35,5	53,3	71,1	80,0	97,8	106,7	115,6
AR-232811AL	EFXE-232811AL	31,6	47,5	63,3	71,3	87,1	95,0	103,0
AR-233312AL	EFXE-233312AL	37,0	55,6	74,1	83,4	101,9	111,2	120,5
AR-233318AL	EFXE-233318AL	47,5	71,3	95,1	107,0	130,8	142,7	154,6

Enclosure types (aluminium)		Maximum power dissipation (W) – Tamb. up to **50**°C						
		INTERNAL TEMP.60°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
AQ-080806AL	EFXE-080806AL	2,6	5,2	7,8	9,1	11,7	13,0	14,3
AR-081306AL	EFXE-081306AL	3,5	7,0	10,6	12,3	15,9	17,7	19,4
AR-081806AL	EFXE-081806AL	4,4	8,9	13,3	15,5	20,0	22,2	24,5
AR-081808AL	EFXE-081808AL	5,5	11,0	16,5	19,3	24,8	27,6	30,4
AR-082505AL	EFXE-082505AL	5,3	10,7	16,1	18,7	24,1	26,8	29,5
AR-082508AL	EFXE-082508AL	7,1	14,2	21,4	24,9	32,1	35,7	39,2
AQ-101008AL	EFXE-101008AL	4,3	8,7	13,0	15,2	19,6	21,7	23,9
AR-101508AL	EFXE-101508AL	5,5	11,1	16,6	19,4	24,9	27,7	30,5
AR-101608AL	EFXE-101608AL	5,7	11,5	17,3	20,2	26,0	28,9	31,8
AR-102008AL	EFXE-102008AL	6,7	13,4	20,1	23,5	30,2	33,5	36,9
AQ-121208AL	EFXE-121208AL	5,4	10,8	16,2	18,9	24,3	27,0	29,7
AR-122209AL	EFXE-122209AL	8,4	16,8	25,3	29,5	37,9	42,1	46,3
AQ-141409AL	EFXE-141409AL	6,8	13,7	20,6	24,1	31,0	34,4	37,9
AR-142009AL	EFXE-142009AL	8,5	17,1	25,7	30,0	38,5	42,8	47,1
AQ-161609AL	EFXE-161609AL	8,6	17,2	25,8	30,1	38,7	43,0	47,3
AR-162410AL	EFXE-162410AL	11,0	22,1	33,1	38,7	49,7	55,3	60,8
AR-162609AL	EFXE-162609AL	10,9	21,9	32,8	38,3	49,3	54,8	60,2
AQ-181810AL	EFXE-181810AL	9,8	19,7	29,6	34,5	44,4	49,3	54,3
AR-182810AL	EFXE-182810AL	13,0	26,1	39,1	45,7	58,7	65,2	71,8
AR-202311AL	EFXE-202311AL	12,9	25,8	38,7	45,1	58,0	64,5	71,0
AR-202318AL	EFXE-202318AL	17,7	35,5	53,3	62,2	80,0	88,9	97,8
AR-232811AL	EFXE-232811AL	15,8	31,6	47,5	55,4	71,3	79,2	87,1
AR-233312AL	EFXE-233312AL	18,5	37,0	55,6	64,8	83,4	92,7	101,9
AR-233318AL	EFXE-233318AL	23,7	47,5	71,3	83,2	107,0	118,9	130,8

Enclosure types (aluminium)		Maximum power dissipation (W) – Tamb. up to **55**°C						
		INTERNAL TEMP.65°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
AQ-080806AL	EFXE-080806AL	2,6	3,9	6,5	7,8	10,4	11,7	13,0
AR-081306AL	EFXE-081306AL	3,5	5,3	8,8	10,6	14,1	15,9	17,7
AR-081806AL	EFXE-081806AL	4,4	6,6	11,1	13,3	17,8	20,0	22,2
AR-081808AL	EFXE-081808AL	5,5	8,2	13,8	16,5	22,1	24,8	27,6
AR-082505AL	EFXE-082505AL	5,3	8,0	13,4	16,1	21,4	24,1	26,8
AR-082508AL	EFXE-082508AL	7,1	10,7	17,8	21,4	28,5	32,1	35,7
AQ-101008AL	EFXE-101008AL	4,3	6,5	10,8	13,0	17,4	19,6	21,7
AR-101508AL	EFXE-101508AL	5,5	8,3	13,8	16,6	22,2	24,9	27,7
AR-101608AL	EFXE-101608AL	5,7	8,6	14,4	17,3	23,1	26,0	28,9
AR-102008AL	EFXE-102008AL	6,7	10,0	16,7	20,1	26,8	30,2	33,5
AQ-121208AL	EFXE-121208AL	5,4	8,1	13,5	16,2	21,6	24,3	27,0
AR-122209AL	EFXE-122209AL	8,4	12,6	21,0	25,3	33,7	37,9	42,1
AQ-141409AL	EFXE-141409AL	6,8	10,3	17,2	20,6	27,5	31,0	34,4
AR-142009AL	EFXE-142009AL	8,5	12,8	21,4	25,7	34,2	38,5	42,8
AQ-161609AL	EFXE-161609AL	8,6	12,9	21,5	25,8	34,4	38,7	43,0
AR-162410AL	EFXE-162410AL	11,0	16,5	27,6	33,1	44,2	49,7	55,3
AR-162609AL	EFXE-162609AL	10,9	16,4	27,4	32,8	43,8	49,3	54,8
AQ-181810AL	EFXE-181810AL	9,8	14,8	24,6	29,6	39,5	44,4	49,3
AR-182810AL	EFXE-182810AL	13,0	19,5	32,6	39,1	52,2	58,7	65,2
AR-202311AL	EFXE-202311AL	12,9	19,3	32,2	38,7	51,6	58,0	64,5
AR-202318AL	EFXE-202318AL	17,7	26,6	44,4	53,3	71,1	80,0	88,9
AR-232811AL	EFXE-232811AL	15,8	23,7	39,6	47,5	63,3	71,3	79,2
AR-233312AL	EFXE-233312AL	18,5	27,8	46,3	55,6	74,1	83,4	92,7
AR-233318AL	EFXE-233318AL	23,7	35,6	59,4	71,3	95,1	107,0	118,9

Enclosure types (aluminium)		Maximum power dissipation (W) – Tamb. up to **60**°C					
		INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
AQ-080806AL	EFXE-080806AL	2,6	5,2	6,5	9,1	10,4	11,7
AR-081306AL	EFXE-081306AL	3,5	7,0	8,8	12,3	14,1	15,9
AR-081806AL	EFXE-081806AL	4,4	8,9	11,1	15,5	17,8	20,0
AR-081808AL	EFXE-081808AL	5,5	11,0	13,8	19,3	22,1	24,8
AR-082505AL	EFXE-082505AL	5,3	10,7	13,4	18,7	21,4	24,1
AR-082508AL	EFXE-082508AL	7,1	14,2	17,8	24,9	28,5	32,1
AQ-101008AL	EFXE-101008AL	4,3	8,7	10,8	15,2	17,4	19,6
AR-101508AL	EFXE-101508AL	5,5	11,1	13,8	19,4	22,2	24,9
AR-101608AL	EFXE-101608AL	5,7	11,5	14,4	20,2	23,1	26,0
AR-102008AL	EFXE-102008AL	6,7	13,4	16,7	23,5	26,8	30,2
AQ-121208AL	EFXE-121208AL	5,4	10,8	13,5	18,9	21,6	24,3
AR-122209AL	EFXE-122209AL	8,4	16,8	21,0	29,5	33,7	37,9
AQ-141409AL	EFXE-141409AL	6,8	13,7	17,2	24,1	27,5	31,0
AR-142009AL	EFXE-142009AL	8,5	17,1	21,4	30,0	34,2	38,5
AQ-161609AL	EFXE-161609AL	8,6	17,2	21,5	30,1	34,4	38,7
AR-162410AL	EFXE-162410AL	11,0	22,1	27,6	38,7	44,2	49,7
AR-162609AL	EFXE-162609AL	10,9	21,9	27,4	38,3	43,8	49,3
AQ-181810AL	EFXE-181810AL	9,8	19,7	24,6	34,5	39,5	44,4
AR-182810AL	EFXE-182810AL	13,0	26,1	32,6	45,7	52,2	58,7
AR-202311AL	EFXE-202311AL	12,9	25,8	32,2	45,1	51,6	58,0
AR-202318AL	EFXE-202318AL	17,7	35,5	44,4	62,2	71,1	80,0
AR-232811AL	EFXE-232811AL	15,8	31,6	39,6	55,4	63,3	71,3
AR-233312AL	EFXE-233312AL	18,5	37,0	46,3	64,8	74,1	83,4
AR-233318AL	EFXE-233318AL	23,7	47,5	59,4	83,2	95,1	107,0

Enclosure types (aluminium)		Maximum power dissipation (W) – Tamb. up to **95**°C	
		INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
AQ-080806AL	EFXE-080806AL	1,3	2,6
AR-081306AL	EFXE-081306AL	1,7	3,5
AR-081806AL	EFXE-081806AL	2,2	4,4
AR-081808AL	EFXE-081808AL	2,7	5,5
AR-082505AL	EFXE-082505AL	2,6	5,3
AR-082508AL	EFXE-082508AL	3,5	7,1
AQ-101008AL	EFXE-101008AL	2,1	4,3
AR-101508AL	EFXE-101508AL	2,7	5,5
AR-101608AL	EFXE-101608AL	2,8	5,7
AR-102008AL	EFXE-102008AL	3,3	6,7
AQ-121208AL	EFXE-121208AL	2,7	5,4
AR-122209AL	EFXE-122209AL	4,2	8,4
AQ-141409AL	EFXE-141409AL	3,4	6,8
AR-142009AL	EFXE-142009AL	4,2	8,5
AQ-161609AL	EFXE-161609AL	4,3	8,6
AR-162410AL	EFXE-162410AL	5,5	11,0
AR-162609AL	EFXE-162609AL	5,4	10,9
AQ-181810AL	EFXE-181810AL	4,9	9,8
AR-182810AL	EFXE-182810AL	6,5	13,0
AR-202311AL	EFXE-202311AL	6,4	12,9
AR-202318AL	EFXE-202318AL	8,8	17,7
AR-232811AL	EFXE-232811AL	7,9	15,8
AR-233312AL	EFXE-233312AL	9,2	18,5
AR-233318AL	EFXE-233318AL	11,8	23,7

Power dissipation – Stainless steel enclosures SB series

Enclosure types (stainless steel)		Maximum power dissipation (W) – Tamb. up to **40**°C						
		INTERNAL TEMP.60°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
SB-101210	EFXE-101210SB	5,5	8,3	11,1	12,5	15,3	16,7	18,1
SB-151510	EFXE-151510SB	8,0	12,0	16,0	18,0	22,0	24,0	26,1
SB-142013	EFXE-142013SB	10,4	15,7	20,9	23,5	28,8	31,4	34,0
SB-202010	EFXE-202010SB	10,7	16,1	21,4	24,1	29,5	32,2	34,8
SB-202016	EFXE-202016SB	13,9	20,8	27,8	31,3	38,3	41,7	45,2
SB-202713	EFXE-202713SB	14,4	21,6	28,9	32,5	39,7	43,3	46,9
SB-272713	EFXE-272713SB	16,7	25,1	33,5	37,7	46,0	50,2	54,4
SB-203016	EFXE-203016SB	17,1	25,7	34,3	38,6	47,2	51,4	55,7
SB-273513	EFXE-273513SB	19,2	28,9	38,5	43,3	53,0	57,8	62,6
SB-282816	EFXE-282816SB	19,3	29,0	38,7	43,6	53,3	58,1	63,0
SB-204016	EFXE-204016SB	20,2	30,3	40,4	45,5	55,6	60,6	65,7
SB-353516	EFXE-353516SB	24,4	36,6	48,8	54,9	67,1	73,2	79,3
SB-282827	EFXE-282827SB	26,2	39,3	52,5	59,0	72,2	78,7	85,3
SB-355016	EFXE-355016SB	29,7	44,5	59,4	66,8	81,7	89,1	96,6
SB-383816	EFXE-383816SB	26,6	39,9	53,2	59,8	73,1	79,8	86,5
SB-384516	EFXE-384516SB	29,1	43,7	58,3	65,6	80,2	87,5	94,8
SB-385716	EFXE-385716SB	33,4	50,1	66,8	75,2	91,9	100,3	108,7
SB-505016	EFXE-505016SB	35,8	53,8	71,7	80,7	98,6	107,6	116,6
SB-383827	EFXE-383827SB	35,1	52,7	70,2	79,0	96,6	105,4	114,2
SB-575716	EFXE-575716SB	41,5	62,3	83,1	93,5	114,3	124,7	135,1
SB-577620	EFXE-577620SB	53,9	80,9	107,9	121,3	148,3	161,8	175,3
SB-575730	EFXE-575730SB	55,8	83,7	111,6	125,6	153,5	167,5	181,4
SB-769520	EFXE-769520SB	72,2	108,3	144,4	162,4	198,5	216,6	234,6
SB-1258040	EFXE-1258040SB	72,2	108,3	144,4	162,4	198,5	216,6	234,6

Enclosure types (Stainless steel)		Maximum power dissipation (W) – Tamb. up to **50**°C						
		INTERNAL TEMP.60°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
SB-101210	EFXE-101210SB	2,7	5,5	8,3	9,7	12,5	13,9	15,3
SB-151510	EFXE-151510SB	4,0	8,0	12,0	14,0	18,0	20,0	22,0
SB-142013	EFXE-142013SB	5,2	10,4	15,7	18,3	23,5	26,2	28,8
SB-202010	EFXE-202010SB	5,3	10,7	16,1	18,7	24,1	26,8	29,5
SB-202016	EFXE-202016SB	6,9	13,9	20,8	24,3	31,3	34,8	38,3
SB-202713	EFXE-202713SB	7,2	14,4	21,6	25,2	32,5	36,1	39,7
SB-272713	EFXE-272713SB	8,3	16,7	25,1	29,3	37,7	41,8	46,0
SB-203016	EFXE-203016SB	8,5	17,1	25,7	30,0	38,6	42,9	47,2
SB-273513	EFXE-273513SB	9,6	19,2	28,9	33,7	43,3	48,2	53,0
SB-282816	EFXE-282816SB	9,6	19,3	29,0	33,9	43,6	48,4	53,3
SB-204016	EFXE-204016SB	10,1	20,2	30,3	35,4	45,5	50,5	55,6
SB-353516	EFXE-353516SB	12,2	24,4	36,6	42,7	54,9	61,0	67,1
SB-282827	EFXE-282827SB	13,1	26,2	39,3	45,9	59,0	65,6	72,2
SB-355016	EFXE-355016SB	14,8	29,7	44,5	52,0	66,8	74,3	81,7
SB-383816	EFXE-383816SB	13,3	26,6	39,9	46,5	59,8	66,5	73,1
SB-384516	EFXE-384516SB	14,5	29,1	43,7	51,0	65,6	72,9	80,2
SB-385716	EFXE-385716SB	16,7	33,4	50,1	58,5	75,2	83,6	91,9
SB-505016	EFXE-505016SB	17,9	35,8	53,8	62,7	80,7	89,7	98,6
SB-383827	EFXE-383827SB	17,5	35,1	52,7	61,4	79,0	87,8	96,6
SB-575716	EFXE-575716SB	20,7	41,5	62,3	72,7	93,5	103,9	114,3
SB-577620	EFXE-577620SB	26,9	53,9	80,9	94,4	121,3	134,8	148,3
SB-575730	EFXE-575730SB	27,9	55,8	83,7	97,7	125,6	139,5	153,5
SB-769520	EFXE-769520SB	36,1	72,2	108,3	126,3	162,4	180,5	198,5
SB-1258040	EFXE-1258040SB	36,1	72,2	108,3	126,3	162,4	180,5	198,5

Enclosure types (Stainless steel)		Maximum power dissipation (W) – Tamb. up to **55**°C						
		INTERNAL TEMP.65°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
SB-101210	EFXE-101210SB	2,7	4,1	6,9	8,3	11,1	12,5	13,9
SB-151510	EFXE-151510SB	4,0	6,0	10,0	12,0	16,0	18,0	20,0
SB-142013	EFXE-142013SB	5,2	7,8	13,1	15,7	20,9	23,5	26,2
SB-202010	EFXE-202010SB	5,3	8,0	13,4	16,1	21,4	24,1	26,8
SB-202016	EFXE-202016SB	6,9	10,4	17,4	20,8	27,8	31,3	34,8
SB-202713	EFXE-202713SB	7,2	10,8	18,0	21,6	28,9	32,5	36,1
SB-272713	EFXE-272713SB	8,3	12,5	20,9	25,1	33,5	37,7	41,8
SB-203016	EFXE-203016SB	8,5	12,8	21,4	25,7	34,3	38,6	42,9
SB-273513	EFXE-273513SB	9,6	14,4	24,1	28,9	38,5	43,3	48,2
SB-282816	EFXE-282816SB	9,6	14,5	24,2	29,0	38,7	43,6	48,4
SB-204016	EFXE-204016SB	10,1	15,1	25,2	30,3	40,4	45,5	50,5
SB-353516	EFXE-353516SB	12,2	18,3	30,5	36,6	48,8	54,9	61,0
SB-282827	EFXE-282827SB	13,1	19,6	32,8	39,3	52,5	59,0	65,6
SB-355016	EFXE-355016SB	14,8	22,2	37,1	44,5	59,4	66,8	74,3
SB-383816	EFXE-383816SB	13,3	19,9	33,2	39,9	53,2	59,8	66,5
SB-384516	EFXE-384516SB	14,5	21,8	36,4	43,7	58,3	65,6	72,9
SB-385716	EFXE-385716SB	16,7	25,0	41,8	50,1	66,8	75,2	83,6
SB-505016	EFXE-505016SB	17,9	26,9	44,8	53,8	71,7	80,7	89,7
SB-383827	EFXE-383827SB	17,5	26,3	43,9	52,7	70,2	79,0	87,8
SB-575716	EFXE-575716SB	20,7	31,1	51,9	62,3	83,1	93,5	103,9
SB-577620	EFXE-577620SB	26,9	40,4	67,4	80,9	107,9	121,3	134,8
SB-575730	EFXE-575730SB	27,9	41,8	69,7	83,7	111,6	125,6	139,5
SB-769520	EFXE-769520SB	36,1	54,1	90,2	108,3	144,4	162,4	180,5
SB-1258040	EFXE-1258040SB	36,1	54,1	90,2	108,3	144,4	162,4	180,5

Enclosure types (Stainless steel)		Maximum power dissipation (W) – Tamb. up to **60**°C					
		INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
SB-101210	EFXE-101210SB	2,7	5,5	6,9	9,7	11,1	12,5
SB-151510	EFXE-151510SB	4,0	8,0	10,0	14,0	16,0	18,0
SB-142013	EFXE-142013SB	5,2	10,4	13,1	18,3	20,9	23,5
SB-202010	EFXE-202010SB	5,3	10,7	13,4	18,7	21,4	24,1
SB-202016	EFXE-202016SB	6,9	13,9	17,4	24,3	27,8	31,3
SB-202713	EFXE-202713SB	7,2	14,4	18,0	25,2	28,9	32,5
SB-272713	EFXE-272713SB	8,3	16,7	20,9	29,3	33,5	37,7
SB-203016	EFXE-203016SB	8,5	17,1	21,4	30,0	34,3	38,6
SB-273513	EFXE-273513SB	9,6	19,2	24,1	33,7	38,5	43,3
SB-282816	EFXE-282816SB	9,6	19,3	24,2	33,9	38,7	43,6
SB-204016	EFXE-204016SB	10,1	20,2	25,2	35,4	40,4	45,5
SB-353516	EFXE-353516SB	12,2	24,4	30,5	42,7	48,8	54,9
SB-282827	EFXE-282827SB	13,1	26,2	32,8	45,9	52,5	59,0
SB-355016	EFXE-355016SB	14,8	29,7	37,1	52,0	59,4	66,8
SB-383816	EFXE-383816SB	13,3	26,6	33,2	46,5	53,2	59,8
SB-384516	EFXE-384516SB	14,5	29,1	36,4	51,0	58,3	65,6
SB-385716	EFXE-385716SB	16,7	33,4	41,8	58,5	66,8	75,2
SB-505016	EFXE-505016SB	17,9	35,8	44,8	62,7	71,7	80,7
SB-383827	EFXE-383827SB	17,5	35,1	43,9	61,4	70,2	79,0
SB-575716	EFXE-575716SB	20,7	41,5	51,9	72,7	83,1	93,5
SB-577620	EFXE-577620SB	26,9	53,9	67,4	94,4	107,9	121,3
SB-575730	EFXE-575730SB	27,9	55,8	69,7	97,7	111,6	125,6
SB-769520	EFXE-769520SB	36,1	72,2	90,2	126,3	144,4	162,4
SB-1258040	EFXE-1258040SB	36,1	72,2	90,2	126,3	144,4	162,4

Enclosure types (Stainless steel)		Maximum power dissipation (W) – Tamb. up to **95**°C	
		INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
SB-101210	EFXE-101210SB	1,3	2,7
SB-151510	EFXE-151510SB	2,0	4,0
SB-142013	EFXE-142013SB	2,6	5,2
SB-202010	EFXE-202010SB	2,6	5,3
SB-202016	EFXE-202016SB	3,4	6,9
SB-202713	EFXE-202713SB	3,6	7,2
SB-272713	EFXE-272713SB	4,1	8,3
SB-203016	EFXE-203016SB	4,2	8,5
SB-273513	EFXE-273513SB	4,8	9,6
SB-282816	EFXE-282816SB	4,8	9,6
SB-204016	EFXE-204016SB	5,0	10,1
SB-353516	EFXE-353516SB	6,1	12,2
SB-282827	EFXE-282827SB	6,5	13,1
SB-355016	EFXE-355016SB	7,4	14,8
SB-383816	EFXE-383816SB	6,6	13,3
SB-384516	EFXE-384516SB	7,2	14,5
SB-385716	EFXE-385716SB	8,3	16,7
SB-505016	EFXE-505016SB	8,9	17,9
SB-383827	EFXE-383827SB	8,7	17,5
SB-575716	EFXE-575716SB	10,3	20,7
SB-577620	EFXE-577620SB	13,4	26,9
SB-575730	EFXE-575730SB	13,9	27,9
SB-769520	EFXE-769520SB	18,0	36,1
SB-1258040	EFXE-1258040SB	18,0	36,1

Power dissipation – Stainless steel enclosures ST series

Enclosure types (Stainless steel)		Maximum power dissipation (W) – Tamb. up to **40**°C						
		INTERNAL TEMP.60°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
ST-101210	EFXE-101210ST	5,5	8,3	11,1	12,5	15,3	16,7	18,1
ST-151510	EFXE-151510ST	8,0	12,0	16,0	18,0	22,0	24,0	26,1
ST-142013	EFXE-142013ST	10,4	15,7	20,9	23,5	28,8	31,4	34,0
ST-202010	EFXE-202010ST	10,7	16,1	21,4	24,1	29,5	32,2	34,8
ST-202016	EFXE-202016ST	13,9	20,8	27,8	31,3	38,3	41,7	45,2
ST-202713	EFXE-202713ST	14,4	21,6	28,9	32,5	39,7	43,3	46,9
ST-272713	EFXE-272713ST	16,7	25,1	33,5	37,7	46,0	50,2	54,4
ST-203016	EFXE-203016ST	17,1	25,7	34,3	38,6	47,2	51,4	55,7
ST-273513	EFXE-273513ST	19,2	28,9	38,5	43,3	53,0	57,8	62,6
ST-282816	EFXE-282816ST	19,3	29,0	38,7	43,6	53,3	58,1	63,0
ST-204016	EFXE-204016ST	20,2	30,3	40,4	45,5	55,6	60,6	65,7
ST-353516	EFXE-353516ST	24,4	36,6	48,8	54,9	67,1	73,2	79,3
ST-282827	EFXE-282827ST	26,2	39,3	52,5	59,0	72,2	78,7	85,3
ST-355016	EFXE-355016ST	29,7	44,5	59,4	66,8	81,7	89,1	96,6
ST-383816	EFXE-383816ST	26,6	39,9	53,2	59,8	73,1	79,8	86,5
ST-384516	EFXE-384516ST	29,1	43,7	58,3	65,6	80,2	87,5	94,8
ST-385716	EFXE-385716ST	33,4	50,1	66,8	75,2	91,9	100,3	108,7
ST-505016	EFXE-505016ST	35,8	53,8	71,7	80,7	98,6	107,6	116,6
ST-383827	EFXE-383827ST	35,1	52,7	70,2	79,0	96,6	105,4	114,2
ST-575716	EFXE-575716ST	41,5	62,3	83,1	93,5	114,3	124,7	135,1
ST-577620	EFXE-577620ST	53,9	80,9	107,9	121,3	148,3	161,8	175,3
ST-575730	EFXE-575730ST	55,8	83,7	111,6	125,6	153,5	167,5	181,4
ST-769520	EFXE-769520ST	72,2	108,3	144,4	162,4	198,5	216,6	234,6
ST-1258040	EFXE-1258040ST	72,2	108,3	144,4	162,4	198,5	216,6	234,6

Enclosure types (Stainless steel)		Maximum power dissipation (W) – Tamb. up to **50**°C						
		INTERNAL TEMP.60°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
ST-101210	EFXE-101210ST	2,7	5,5	8,3	9,7	12,5	13,9	15,3
ST-151510	EFXE-151510ST	4,0	8,0	12,0	14,0	18,0	20,0	22,0
ST-142013	EFXE-142013ST	5,2	10,4	15,7	18,3	23,5	26,2	28,8
ST-202010	EFXE-202010ST	5,3	10,7	16,1	18,7	24,1	26,8	29,5
ST-202016	EFXE-202016ST	6,9	13,9	20,8	24,3	31,3	34,8	38,3
ST-202713	EFXE-202713ST	7,2	14,4	21,6	25,2	32,5	36,1	39,7
ST-272713	EFXE-272713ST	8,3	16,7	25,1	29,3	37,7	41,8	46,0
ST-203016	EFXE-203016ST	8,5	17,1	25,7	30,0	38,6	42,9	47,2
ST-273513	EFXE-273513ST	9,6	19,2	28,9	33,7	43,3	48,2	53,0
ST-282816	EFXE-282816ST	9,6	19,3	29,0	33,9	43,6	48,4	53,3
ST-204016	EFXE-204016ST	10,1	20,2	30,3	35,4	45,5	50,5	55,6
ST-353516	EFXE-353516ST	12,2	24,4	36,6	42,7	54,9	61,0	67,1
ST-282827	EFXE-282827ST	13,1	26,2	39,3	45,9	59,0	65,6	72,2
ST-355016	EFXE-355016ST	14,8	29,7	44,5	52,0	66,8	74,3	81,7
ST-383816	EFXE-383816ST	13,3	26,6	39,9	46,5	59,8	66,5	73,1
ST-384516	EFXE-384516ST	14,5	29,1	43,7	51,0	65,6	72,9	80,2
ST-385716	EFXE-385716ST	16,7	33,4	50,1	58,5	75,2	83,6	91,9
ST-505016	EFXE-505016ST	17,9	35,8	53,8	62,7	80,7	89,7	98,6
ST-383827	EFXE-383827ST	17,5	35,1	52,7	61,4	79,0	87,8	96,6
ST-575716	EFXE-575716ST	20,7	41,5	62,3	72,7	93,5	103,9	114,3
ST-577620	EFXE-577620ST	26,9	53,9	80,9	94,4	121,3	134,8	148,3
ST-575730	EFXE-575730ST	27,9	55,8	83,7	97,7	125,6	139,5	153,5
ST-769520	EFXE-769520ST	36,1	72,2	108,3	126,3	162,4	180,5	198,5
ST-1258040	EFXE-1258040ST	36,1	72,2	108,3	126,3	162,4	180,5	198,5

Enclosure types (Stainless steel)		Maximum power dissipation (W) – Tamb. up to **55**°C						
		INTERNAL TEMP.65°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
ST-101210	EFXE-101210ST	2,7	4,1	6,9	8,3	11,1	12,5	13,9
ST-151510	EFXE-151510ST	4,0	6,0	10,0	12,0	16,0	18,0	20,0
ST-142013	EFXE-142013ST	5,2	7,8	13,1	15,7	20,9	23,5	26,2
ST-202010	EFXE-202010ST	5,3	8,0	13,4	16,1	21,4	24,1	26,8
ST-202016	EFXE-202016ST	6,9	10,4	17,4	20,8	27,8	31,3	34,8
ST-202713	EFXE-202713ST	7,2	10,8	18,0	21,6	28,9	32,5	36,1
ST-272713	EFXE-272713ST	8,3	12,5	20,9	25,1	33,5	37,7	41,8
ST-203016	EFXE-203016ST	8,5	12,8	21,4	25,7	34,3	38,6	42,9
ST-273513	EFXE-273513ST	9,6	14,4	24,1	28,9	38,5	43,3	48,2
ST-282816	EFXE-282816ST	9,6	14,5	24,2	29,0	38,7	43,6	48,4
ST-204016	EFXE-204016ST	10,1	15,1	25,2	30,3	40,4	45,5	50,5
ST-353516	EFXE-353516ST	12,2	18,3	30,5	36,6	48,8	54,9	61,0
ST-282827	EFXE-282827ST	13,1	19,6	32,8	39,3	52,5	59,0	65,6
ST-355016	EFXE-355016ST	14,8	22,2	37,1	44,5	59,4	66,8	74,3
ST-383816	EFXE-383816ST	13,3	19,9	33,2	39,9	53,2	59,8	66,5
ST-384516	EFXE-384516ST	14,5	21,8	36,4	43,7	58,3	65,6	72,9
ST-385716	EFXE-385716ST	16,7	25,0	41,8	50,1	66,8	75,2	83,6
ST-505016	EFXE-505016ST	17,9	26,9	44,8	53,8	71,7	80,7	89,7
ST-383827	EFXE-383827ST	17,5	26,3	43,9	52,7	70,2	79,0	87,8
ST-575716	EFXE-575716ST	20,7	31,1	51,9	62,3	83,1	93,5	103,9
ST-577620	EFXE-577620ST	26,9	40,4	67,4	80,9	107,9	121,3	134,8
ST-575730	EFXE-575730ST	27,9	41,8	69,7	83,7	111,6	125,6	139,5
ST-769520	EFXE-769520ST	36,1	54,1	90,2	108,3	144,4	162,4	180,5
ST-1258040	EFXE-1258040ST	36,1	54,1	90,2	108,3	144,4	162,4	180,5

Enclosure types (Stainless steel)		Maximum power dissipation (W) – Tamb. up to **60**°C					
		INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
ST-101210	EFXE-101210ST	2,7	5,5	6,9	9,7	11,1	12,5
ST-151510	EFXE-151510ST	4,0	8,0	10,0	14,0	16,0	18,0
ST-142013	EFXE-142013ST	5,2	10,4	13,1	18,3	20,9	23,5
ST-202010	EFXE-202010ST	5,3	10,7	13,4	18,7	21,4	24,1
ST-202016	EFXE-202016ST	6,9	13,9	17,4	24,3	27,8	31,3
ST-202713	EFXE-202713ST	7,2	14,4	18,0	25,2	28,9	32,5
ST-272713	EFXE-272713ST	8,3	16,7	20,9	29,3	33,5	37,7
ST-203016	EFXE-203016ST	8,5	17,1	21,4	30,0	34,3	38,6
ST-273513	EFXE-273513ST	9,6	19,2	24,1	33,7	38,5	43,3
ST-282816	EFXE-282816ST	9,6	19,3	24,2	33,9	38,7	43,6
ST-204016	EFXE-204016ST	10,1	20,2	25,2	35,4	40,4	45,5
ST-353516	EFXE-353516ST	12,2	24,4	30,5	42,7	48,8	54,9
ST-282827	EFXE-282827ST	13,1	26,2	32,8	45,9	52,5	59,0
ST-355016	EFXE-355016ST	14,8	29,7	37,1	52,0	59,4	66,8
ST-383816	EFXE-383816ST	13,3	26,6	33,2	46,5	53,2	59,8
ST-384516	EFXE-384516ST	14,5	29,1	36,4	51,0	58,3	65,6
ST-385716	EFXE-385716ST	16,7	33,4	41,8	58,5	66,8	75,2
ST-505016	EFXE-505016ST	17,9	35,8	44,8	62,7	71,7	80,7
ST-383827	EFXE-383827ST	17,5	35,1	43,9	61,4	70,2	79,0
ST-575716	EFXE-575716ST	20,7	41,5	51,9	72,7	83,1	93,5
ST-577620	EFXE-577620ST	26,9	53,9	67,4	94,4	107,9	121,3
ST-575730	EFXE-575730ST	27,9	55,8	69,7	97,7	111,6	125,6
ST-769520	EFXE-769520ST	36,1	72,2	90,2	126,3	144,4	162,4
ST-1258040	EFXE-1258040ST	36,1	72,2	90,2	126,3	144,4	162,4

Enclosure types (Stainless steel)		Maximum power dissipation (W) – Tamb. up to **95**°C	
		INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
ST-101210	EFXE-101210ST	1,3	2,7
ST-151510	EFXE-151510ST	2,0	4,0
ST-142013	EFXE-142013ST	2,6	5,2
ST-202010	EFXE-202010ST	2,6	5,3
ST-202016	EFXE-202016ST	3,4	6,9
ST-202713	EFXE-202713ST	3,6	7,2
ST-272713	EFXE-272713ST	4,1	8,3
ST-203016	EFXE-203016ST	4,2	8,5
ST-273513	EFXE-273513ST	4,8	9,6
ST-282816	EFXE-282816ST	4,8	9,6
ST-204016	EFXE-204016ST	5,0	10,1
ST-353516	EFXE-353516ST	6,1	12,2
ST-282827	EFXE-282827ST	6,5	13,1
ST-355016	EFXE-355016ST	7,4	14,8
ST-383816	EFXE-383816ST	6,6	13,3
ST-384516	EFXE-384516ST	7,2	14,5
ST-385716	EFXE-385716ST	8,3	16,7
ST-505016	EFXE-505016ST	8,9	17,9
ST-383827	EFXE-383827ST	8,7	17,5
ST-575716	EFXE-575716ST	10,3	20,7
ST-577620	EFXE-577620ST	13,4	26,9
ST-575730	EFXE-575730ST	13,9	27,9
ST-769520	EFXE-769520ST	18,0	36,1
ST-1258040	EFXE-1258040ST	18,0	36,1

Maximum Power Dissipation calculation

The values specified in the tables as per clause 2.1.1 may be modified within the maximum admitted Tamb and maximum admitted internal temperature as follows.

$$Pdiss\ (W) = \frac{Tmax - Tamb}{Rth}$$

$Rth = A \times (\text{enclosure surface in } mm^2 \text{ except enclosure bottom})^B$

Legend:
Rth – Thermal resistance [K/W].
Tmax – Maximum allowed temperature inside enclosure.
Tamb – Ambient temperature of enclosure
A and B - coefficients determined for each series of enclosure. Exact values are given in manufacturer's documentation.

Warning labels:

WARNING – DO NOT OPEN WHEN ENERGIZED (*)
(*) Not mandatory for apparatus with protection type Ex ia Ga and Ex ib Gb.

WARNING – POTENTIAL ELECTROSTATIC CHARGING HAZARD – SEE INSTRUCTIONS

To be added when the enclosures or parts of them have a surface resistance more than 10^9 Ω or 10^{11} Ω according to IEC 60079-0 Clause 7.4.2 a), as applicable, and as per following cases:

- are equipped with transparent parts made of polycarbonate.
- for category II 2 G / EPL Gb Gas group IIC: are painted and the paint layer thickness is > 0.2mm.
- for category II 2 G / EPL Gb Gas group IIB: are painted and the paint layer thickness is > 2mm.
- for category II 2 D / EPL Db: are painted and the paint layer thickness is > 2mm.
- for category II 2 G / EPL Gb Gas group IIC: not conductive individual materials (labels), applied on painted enclosures, have exposed (chargeable area) > 2000mm^2 or, not conductive individual materials (labels), applied on unpainted (conductive earthed surface) enclosures, have exposed (chargeable area) > 8000mm^2.
- for category II 2 G /EPL Gb Gas group IIB: not conductive individual materials (labels), applied on painted enclosures, have exposed (chargeable area) > 10000mm^2 or, not conductive individual materials (labels), applied on unpainted (conductive earthed surface) enclosures, have exposed (chargeable area) > 40000mm^2.

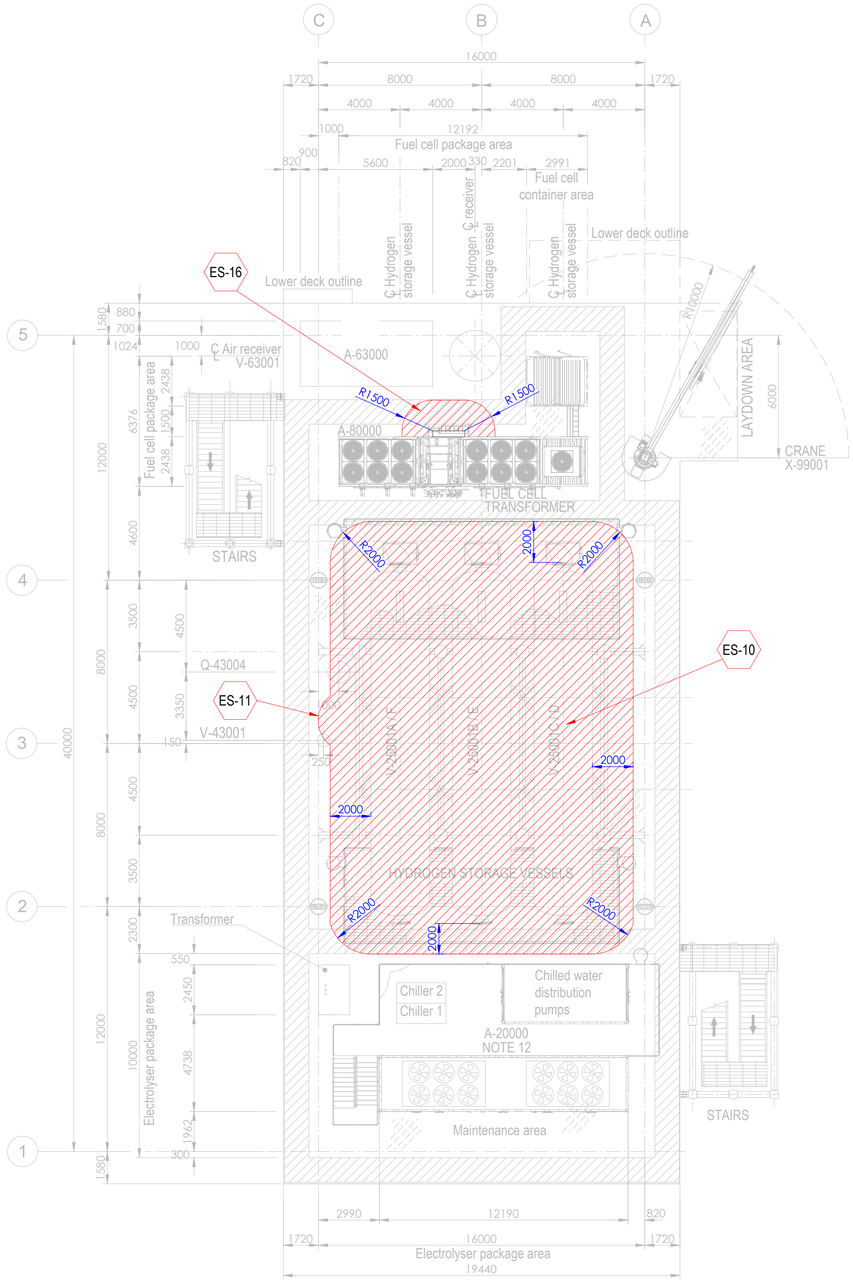
OPEN THE VALVE ONLY WHEN THE APPARATUS IS DE-ENERGIZED AND ONLY WHEN AN EXPLOSIVE DUST ATMOSPHERE IS NOT PRESENT
To be added on Ex tb apparatus equipped with the drain / venting device ECR3.

Other warnings depend on the components actually mounted, according to the component manufacturer's documentation.

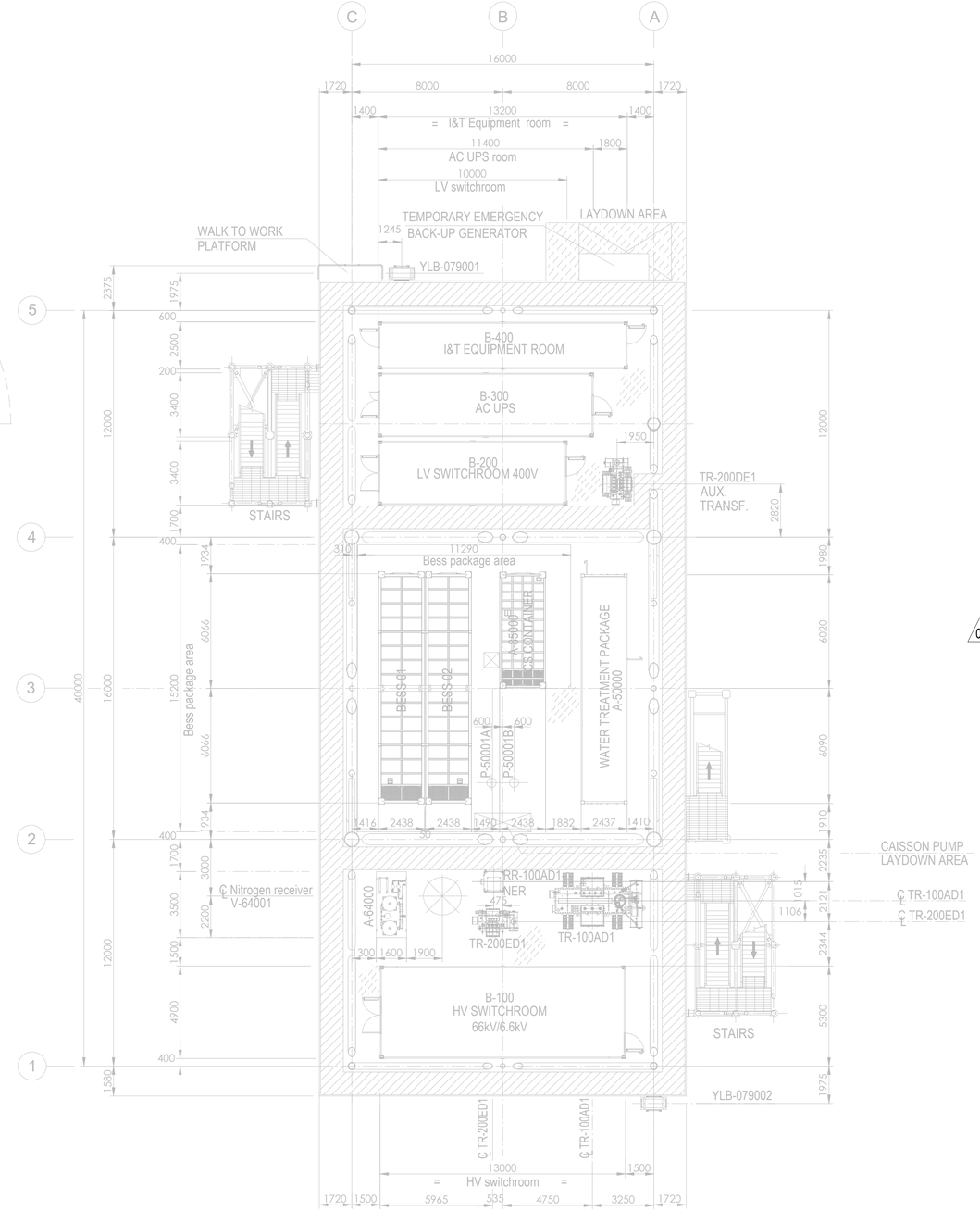
The tables below state the maximum power dissipation values (W) related to the internal temperature (Tint) and ambient temperature (Tamb).

DRAWING NO. 123A90-DDL-SAF-DL-30022

REV. 02



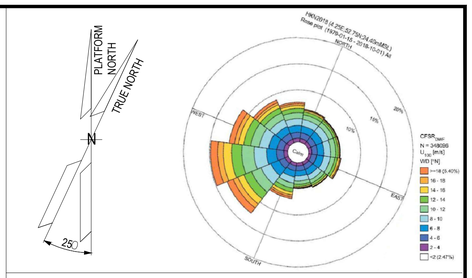
PLAN ON UPPER DECK
EL+30.310 T.O.S.



PLAN ON LOWER DECK
EL+23.310 T.O.S.

Tag No.	Equipment Tag	Description	Material	Ventilation Type
01	P-50001 A/B	SEA WATER LIFT PUMPS	SEA WATER	NATURAL (OPEN AREA)
02	Q-43004	HYDROGEN VENT	HYDROGEN	NATURAL (OPEN AREA)
03	V-43001	HYDROGEN VENT KO DRUM	HYDROGEN	NATURAL (OPEN AREA)
04	V-25001 (A/B/C/D/E/F)	HYDROGEN STORAGE VESSELS	HYDROGEN	NATURAL (OPEN AREA)
05	V-63001	AIR RECEIVER	INSTRUMENT AIR	NATURAL (OPEN AREA)
06	A-20000	ELECTROLYSER PACKAGE		
07	A-63000	INSTRUMENT AIR PACKAGE		
08	A-80000	FUEL CELL PACKAGE		
09	A-85000	BESS PACKAGE		
10	YLB-079001/2	LIFE RAFTS		
11	A-50000	WATER TREATMENT PACKAGE		

Tag No.	Equipment Tag	Description	Material	Ventilation Type
12	A-64000	NITROGEN SYSTEM		
13	B-100	HV SWITCHROOM 66kV/6.6kV		
14	B-200	LV SWITCHROOM 400V		
15	B-300	AC UPS EQUIPMENT ROOM		
16	B-400	I&T EQUIPMENT ROOM		
17	TR-100AD1	TRANSFORMER MAIN 66kV/6.6kV		
18	RR-100AD1-NER	NEUTRAL EARTHING RESISTOR		
19	TR-200DE1	TRANSFORMER AUX. 6.6kV/0.4kV		
20	TR-200ED1	SOLAR TRANSFORMER PV FARM EQUIPMENT		
21	X-99001	CRANE		
22	V-64001	NITROGEN RECEIVER		



NOTES

1. ALL DIMENSIONS IN mm U.N.O.
2. ALL ELEVATIONS IN METERS.
3. PLATFORM NORTH DIRECTION IS N 25°W.
4. VENT TOP SHALL BE REACHEABLE FOR MAINTENANCE PURPOSE.
5. THE BESS IS CONSIDERED SAFE AREA EXCEPT EXTRACTORES FROM BATTERIES , CURRENTLY NOT SHOWN IN DRAWINGS, SINCE INFORMATION FROM VENDOR IS NOT YET AVAILABLE.[ES17].
6. THE LOCATION OF EMISSION SOURCES ON THE LAYOUT ARE ONLY INDICATIVE. EMISSION SOURCES CONSIDERED ARE PRESENT WITHIN THE EXTENSION OF HAZARDOUS CLASSIFIED AREAS SHOWN ON THE LAYOUT. THIS IS BECAUSE VALVES AND FLANGES,WHICH ARE CONSIDERED POTENTIAL SOURCES OF RELEASE POINTS FOR FLAMMABLE GAS ARE NOT SHOWN ON CURRENT LAYOUT PROVIDED. THE SAME APPLIES TO THE EMISSION SOURCES FOR CPI'S ITEM.
7. IDENTIFIED EMISSION SOURCES DETAIL.

02
8. FOR DETAILS RELATED TO ELECTROLYSER PACKAGE INTERNAL ENCLOSURES REFER TO DRAWING 224J10-DDL-PP-DA-00001 REV 0.
9. FOR DETAILS RELATED TO FUELL CELL PACKAGE INTERNAL ENCLOSURES REFER TO DRAWING K559-2254-CWIWP4202202-B01-001 REV 009".
10. THE N.6 HYDROGEN STORAGE VESSELS ARE NOT CLASSIFIED INTERNALLY SINCE THEY ARE DESIGNED TO CONTAIN HYDROGEN OR NITROGEN FOR THE ENTIRE DURATION OF THE 2 YEARS OF OPERATION.

EMISSION SOURCE No.	IDENTIFIED AREAS
ES10	HYDROGEN STORAGE VESSLES
ES11	HYDROGEN VENT KO DRUM
ES16	FUEL CELL

LEGEND

ZONE 0 — ZONE 1

ZONE 2 — ES EMISSION SOURCES

123A90-DDL-PP-DS-70071	PLOT PLAN - BELOW LOWER DECK
123A90-DDL-PP-DS-70072	PLOT PLAN - ELEVATION LOOKING NORTH & EAST

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	15/01/25	MMA	CCA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	27/08/24	MMA	CCA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	08/02/24	MMA	CCA	DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND

ROSETTI MARINO

TITLE :
BASE LOAD POWER HUB (BLPH)
HAZARDOUS AREA CLASSIFICATION
LOWER & UPPER DECK

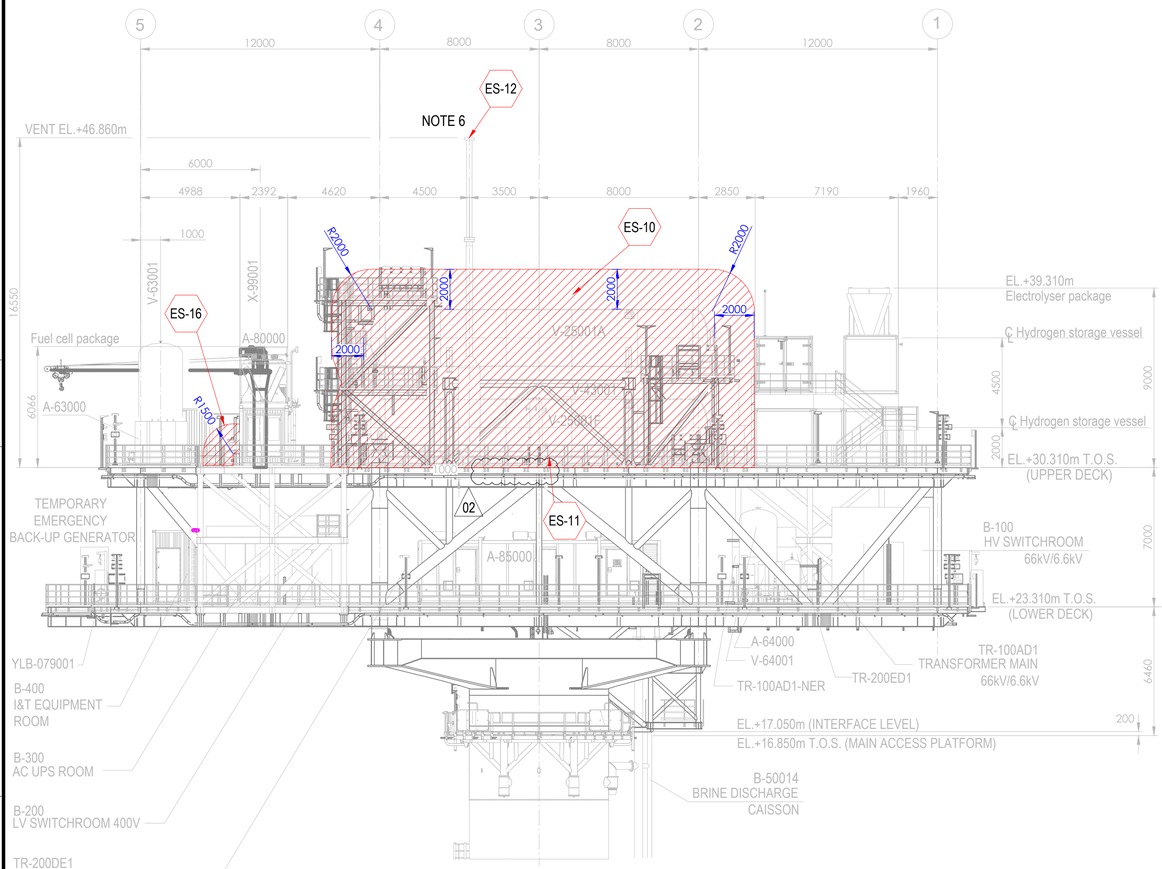
CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK			SCALE 1:150
DRAWN M. MAGNI	CHECKED C. CARACCIOLO	APPROVED D. LO STERZO	DATE 03/07/24

	DRAWING NO.	SHEET	REV.
A1	123A90-DDL-SAF-DL-30022	001	02

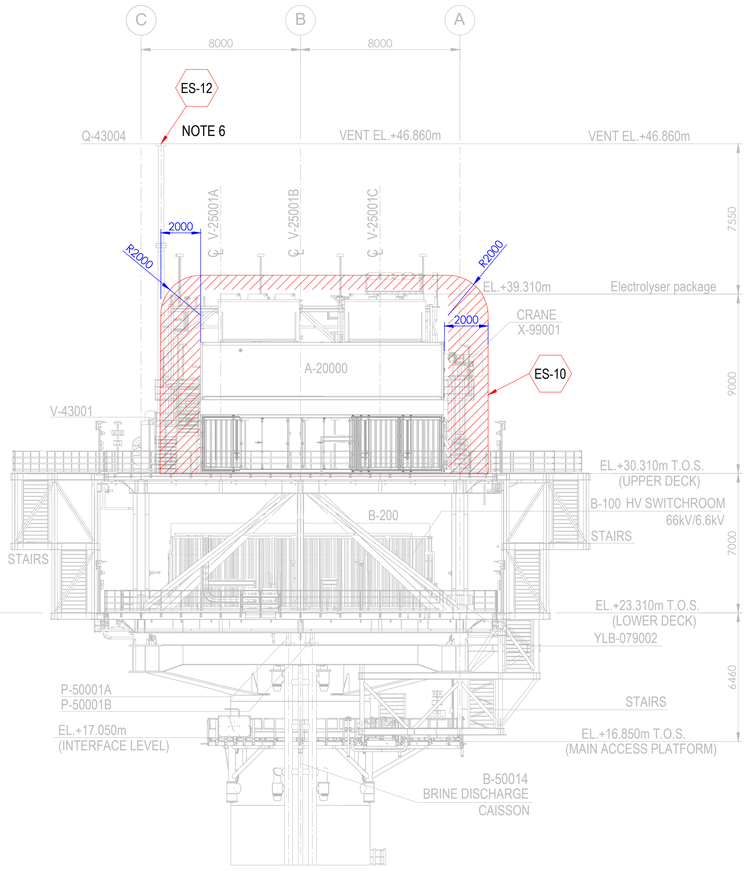
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DRAWING NO. 123A90-DDL-SAF-DL-30024

REV. 02

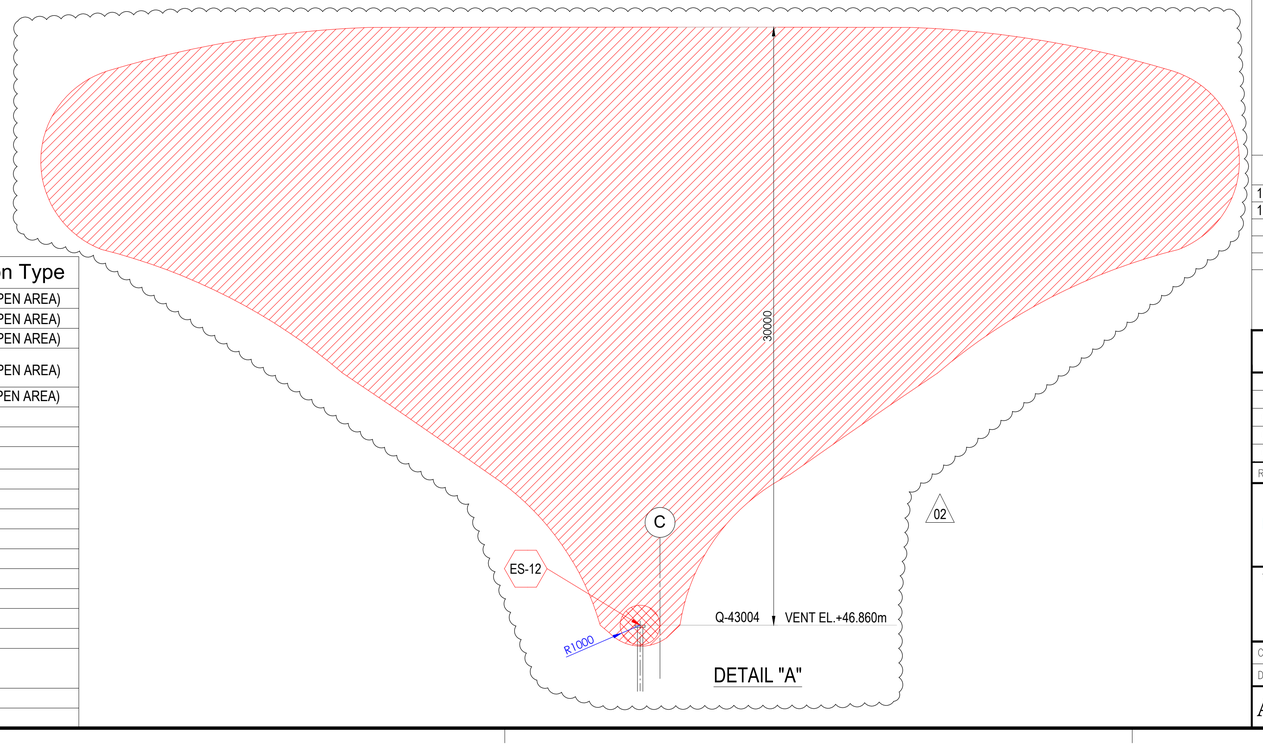


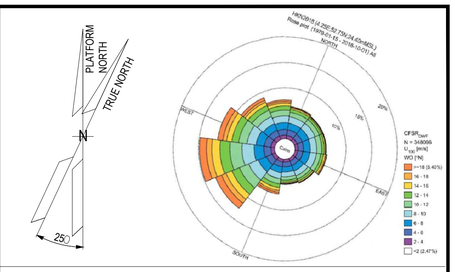
ELEVATION LOOKING EAST



ELEVATION LOOKING NORTH

Tag No.	Equipment Tag	Description	Material	Ventilation Type
01	P-50001 A/B	SEA WATER LIFT PUMPS	SEA WATER	NATURAL (OPEN AREA)
02	Q-43004	HYDROGEN VENT	HYDROGEN	NATURAL (OPEN AREA)
03	V-43001	HYDROGEN VENT KO DRUM	HYDROGEN	NATURAL (OPEN AREA)
04	V-25001 (A/B/C/D/E/F)	HYDROGEN STORAGE VESSELS	HYDROGEN	NATURAL (OPEN AREA)
05	V-63001	INSTRUMENT AIR RECEIVER	INSTRUMENT AIR	NATURAL (OPEN AREA)
06	A-20000	ELECTROLYSER PACKAGE		
07	A-63000	INSTRUMENT AIR PACKAGE		
08	A-80000	FUEL CELL PACKAGE		
09	A-85000	BESS PACKAGE		
10	YLB-079001/2	LIFE RAFTS		
11	B-100	HV SWITCHROOM 66kV/6.6kV		
12	B-200	LV SWITCHROOM 400V		
13	B-300	AC UPS EQUIPMENT ROOM		
14	B-400	I&T EQUIPMENT ROOM		
15	TR-100AD1	TRANSFORMER MAIN 66kV/6.6kV		
16	TR-100AD1-NER	NEUTRAL EARTHING RESISTOR		
17	TR-200DE1	TRANSFORMER AUX. 6.6kV/0.4kV		
18	TR-200ED1	SOLAR TRANSFORMER PV FARM EQUIPMENT		
19	X-99001	CRANE		
20	V-64001	NITROGEN RECEIVER		





NOTES

1. ALL DIMENSIONS IN mm U.N.O
2. ALL ELEVATIONS IN METERS.
3. PLATFORM NORTH DIRECTION IS N 25°W.
4. VENT TOP SHALL BE REACHEABLE FOR MAINTENANCE PURPOSE.
5. THE BESS IS CONSIDERED SAFE AREA EXCEPT EXTRACTORES FROM BATTERIES , CURRENTLY NOT SHOWN IN DRAWINGS, SINCE INFORMATION FROM VENDOR IS NOT YET AVAILABLE.[ES17]
6. FOR ES12 PLUME, PLEASE REFER TO THE DETAIL "A" BELOW. (02)
7. THE LOCATION OF EMISSION SOURCES ON THE LAYOUT ARE ONLY INDICATIVE. EMISSION SOURCES CONSIDERED ARE PRESENT WITHIN THE EXTENSION OF HAZARDOUS CLASSIFIED AREAS SHOWN ON THE LAYOUT. THIS IS BECAUSE VALVES AND FLANGES,WHICH ARE CONSIDERED POTENTIAL SOURCES OF RELEASE POINTS FOR FLAMMABLE GAS ARE NOT SHOWN ON CURRENT LAYOUT PROVIDED. THE SAME APPLIES TO THE EMISSION SOURCES FOR CPI'S ITEM.
8. IDENTIFIED EMISSION SOURCES DETAIL

EMISSION SOURCE No.	IDENTIFIED AREAS
ES10	HYDROGEN STORAGE VESSLES
ES11	HYDROGEN VENT KO DRUM
ES12	HYDROGEN VENT
ES16	FUEL CELL

LEGEND

ZONE 0 — ZONE 1

ZONE 2 — ES EMISSION SOURCES

REFERENCE DOCUMENTS

123A90-DDL-PP-DS-70070	PLOT PLAN - LOWER & UPPER DECK
123A90-DDL-PP-DS-70071	PLOT PLAN - BELOW LOWER DECK

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	15/01/24	MMA	CCA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	27/08/24	MMA	CCA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	08/02/24	MMA	CCA	DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND

ROSETTI MARINO

TITLE :
BASE LOAD POWER HUB (BLPH)
HAZARDOUS AREA CLASSIFICATION
ELEVATION LOOKING NORTH & EAST

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK			SCALE 1:150
DRAWN M. MAGNI	CHECKED C. CARACCIOLO	APPROVED D. LO STERZO	DATE 03/07/24

A1 | DRAWING NO. 123A90-DDL-SAF-DL-30024 | SHEET 001 | REV. 02

File Name : 123A90-DDL-SAF-DL-30024 Rev.02

ITEM	Tag	EJB-200N1-02-L1-12 : JB - NORMAL LIGHTING		Dwg	123A90-DDL-EL-DL-20118
	S/Sys	83-40 : Normal Lighting Upper Deck		Module	UD
TASK	code	C10001633	Location: Onshore Activities	User	Rosetti Marino Quality Control
FORM	Process	MC	Activity: CCK / Discipline: ATEX / Form: CJX01		Hazardous Area Equipment Detailed Inspection

Schedule Ref. #				**Area Code**					
Area Class Drawing	123A90-DDL-SAF-DL-30022			**Serial No.**		24P00297990031			
Manufacturer	TECHNOR ITALSMEA			**Model**		AQ-252612P			
Cert No.	FIDI 21 ATEX 0090X-FIDI 21 0015 X			**Equipment Ambient Temp.**		-20 to + 40 °C			
Area Classification	Hazardous	**Zone**	2	**Gas group**	IIC	**Temp class**	T1		
Equipment Protection Type	Ex eb	**EPL**	Gb	**Gas group**	IIC	**Temp class**	T6	**IP Rating**	IP66

Detailed Note:

1) Inspection shall only be performed by competent personnel

2) All fields are to be completed. Any non-applicable field shall state “NA”. Comments are required for ‘Failure’ column ONLY.

3) An Inspection Sheet should be completed for EACH individual item of Equipment.

	General Equipment	Detailed	OK/NA/PL	Comments
1	Equipment is appropriate to the EPL / Zone requirements of the area	x	OK	
2	Equipment group is correct	x	OK	
3	Equipment temperature class is correct	x	OK	
4	Degree of IP protection of equipment is appropriate for the level of protection	x	OK	
5	Equipment circuit identification is correct	x	OK	
6	Equipment circuit identification is available	x	OK	
7	Enclosure glass parts and glass-to-metal sealing gaskets and / or compounds are satisfactory	x	NA	
8	There is no damage or unauthorized modifications	x	OK	
9	There is no evidence of unauthorized modifications	x	OK	
10	Bolts, cable entry devices (direct and indirect) & blanking elements are of the correct type, are complete & tight		PL	
	Physical check	x	OK	
11	Threaded covers on enclosures are of the correct type, are tight and secured		NA	
	Physical check	x	NA	
12	Joint surfaces are clean and undamaged and gaskets, if any, are satisfactory and positioned correctly	x	OK	
13	Condition of enclosure gaskets is satisfactory	x	OK	
14	There is no evidence or ingress of water or dust in the enclosure in accordance with the IP rating	x	OK	
15	Electrical connections are tight	x	OK	
16	Bridging links do not reduce creepage / clearance and are allowed	x	OK	
17	Unused terminals are tightened	x	OK	
18	Encapsulated components are undamaged	x	NA	
19	Flameproof components are undamaged	x	NA	
20	Fluorescent lamps are not indicating EOL effects (only for Ex “e” – Ex “n” – Ex “t”)	x	NA	
21	HID lamps are not indicating EOL effects	x	NA	
22	Lamp type, rating, pin configuration and position are correct	x	NA	
23	Breathing and drainage devices are satisfactory	x	PL	
24	Type of cable is appropriate	x	OK	
25	There is no obvious damage to the cables	x	OK	
26	Cable glands are the correct type and installed correctly	x	Note	See PL C30002208, C30002210, C30002211
27	Sealing of trunking, ducts, pipes and or conduits is satisfactory	x	NA	
28	Stopping boxes and cable boxes are corrected filled	x	OK	

ITEM	Tag	EJB-200N1-02-L1-12	: JB - NORMAL LIGHTING			Dwg	123A90-DDL-EL-DL-20118
	S/Sys	83-40	: Normal Lighting Upper Deck			Module	UD
TASK	code	C10001633		Location	Onshore Activities	User	Rosetti Marino Quality Control
FORM	Process	MC	Activity CCK	Discipline	ATEX	Form	CJX01 Hazardous Area Equipment Detailed Inspection

29	Integrity of conduit system and interface with mixed system maintained	x	NA	
30	Earthing connections, including any supplementary earthing bonding connections are satisfactory (for example connections are tight and conductors are of sufficient cross-section		OK	
	Physical check	x	OK	
31	Automated electric protective devices operate within permitted limits	x	NA	
32	Special conditions (if applicable) have been complied with.	x	OK	
33	All cable cores are uniquely labeled	x	Note	See PL C3000220, C30001504, C30002209, C
34	Cable cores not in use are correctly terminated	x	OK	
35	Equipment is adequately protected against corrosion, weather, vibration and other adverse factors	x	OK	
36	No undue accumulation of dust and dirt	x	OK	
37	All equipment housings are clean and dry	x	OK	
38	All moving parts are free and have no mechanical damage	x	OK	
	Applicable for Installation of Heating Systems			
39	Temperature sensors function according to manufacturer's documents (only applicable for Ex-d e Ex-e)	x	NA	
40	Safety cut off devices function according to manufacturer's documents (only applicable for Ex-d e Ex-e)	x	NA	
41	The setting of the safety cut off is sealed (only applicable for Ex-d e Ex-e)	x	NA	
42	Reset of a heating system safety cut off possible with tool only(only applicable for Ex-d e Ex-e)	x	NA	
43	Auto-reset is not possible (only applicable for Ex-d e Ex-e)	x	NA	
44	Reset of a safety cut off under fault conditions is prevented (only applicable for Ex-d e Ex-e)	x	NA	
45	Safety cut off independent from control system (only applicable for Ex-d e Ex-e)	x	NA	
46	Level switch is installed and correctly set, if required (only applicable for Ex-d e Ex-e)	x	NA	
47	Flow switch is installed and correctly set, if required (only applicable for Ex-d e Ex-e)	x	NA	
	Extra Ex d checks			
48	Obstructions adjacent to flame proof flanged joints are in accordance with IEC 60079-14	x	NA	
49	Ex d conduits seals are fitted to all conduits and satisfactorily sealed	x	NA	
50	Cable glands are of the correct type and installed correctly	x	NA	
51	Adaptors, reducers, stop ends, etc. are all certified Ex d	x	NA	
52	Flame path are clean and undamaged	x	NA	
53	Flange gap dimensions are within tolerances	x	NA	
54	Motor fans have sufficient clearance to the enclosure and/or covers, cooling systems are undamaged, motor foundations have no indentations or cracks	x	NA	
55	The ventilation airflow is not impeded	x	NA	
56	Insulation resistance (IR) of the motor windings is satisfactory	x	NA	
57	Fault loop impedance (TN systems) or earthing resistance (IT systems) is satisfactory	x	NA	
58	Variable voltage/frequency installation complies with documentation	x	NA	
	Extra Ex e checks			
59	All Equipment is Ex e certified (including components within enclosure)	x	OK	
60	Power conductors are not bunched together causing possible hot spots	x	OK	
61	Motor fans have sufficient clearance to the enclosure and/or covers, cooling systems are undamaged, motor foundations have no indentations or cracks	x	NA	
62	Insulation resistance (IR) of the motor windings is satisfactory	x	NA	
63	Fault loop impedance (TN systems) or earthing resistance (IT systems) is satisfactory	x	NA	
64	The ventilation airflow is not impeded	x	NA	
65	Motor protection devices operate within the permitted tE or tA time limits.	x	NA	
66	Variable voltage/frequency installation complies with documentation	x	NA	

ITEM	Tag	EJB-200N1-02-L1-12	: JB - NORMAL LIGHTING		Dwg	123A90-DDL-EL-DL-20118	
	S/Sys	83-40	: Normal Lighting Upper Deck		Module	UD	
TASK	code	C10001633	Location	Onshore Activities	User	Rosetti Marino Quality Control	
FORM	Process	MC	Activity CCK	Discipline ATEX	Form	CJX01	Hazardous Area Equipment Detailed Inspection

Extra Ex n (nR, nL) checks				
67	All Terminals are Ex n certified (if required on certificate)	x	NA	
68	Hermetically sealed and enclosed break devices are undamaged	x	NA	
69	Restricted breathing properties satisfactory (conduct vacuum test)	x	NA	
70	Test port, if fitted, is functional (type “nR” only)	x	NA	
71	Breathing operation is satisfactory (type “nR” only)	x	NA	
72	Motor fans have sufficient clearance to the enclosure and/or covers, cooling systems are	x	NA	
73	The ventilation airflow is not impeded	x	NA	
74	Insulation resistance (IR) of the motor windings is satisfactory	x	NA	
75	Motor protection devices operate within the permitted tE or tA time limits.	x	NA	
76	Variable voltage/frequency installation complies with documentation	x	NA	
Extra Ex p checks				
77	Pressurization gas is correct type	x	NA	
78	Actual pressure is within maximum and minimum settings for equipment	x	NA	
79	Timers set as per certification documentation	x	NA	
80	Alarms and trip functions operate correctly as per certification documentation	x	NA	
81	Fault loop impedance (TN systems) or earthing resistance (IT systems) is satisfactory	x	NA	
82	Automatic electrical protective devices operate within permitted limits	x	NA	
83	Automatic electrical protective devices are set correctly	x	NA	
84	Protective gas inlet temperature is below maximum specified	x	NA	
85	Ducts, pipes and enclosures are in good condition	x	NA	
86	Protective gas is substantially free from contaminants	x	NA	
87	Protective gas pressure and/or flow is adequate	x	NA	
88	Pressure and/or flow indicators, alarms and interlocks function correctly	x	NA	
89	Conditions of spark and particle barriers of ducts for exhausting the gas in hazardous area are satisfactory	x	NA	
90	Specific conditions of use (if applicable) are complied with		NA	
Extra Ex i (Intrinsically Safe – IS) checks				
91	Equipment has adequate circuit identification for ‘IS’ Installation	x	NA	
92	Cables are installed in accordance with the documentation	x	NA	
93	Segregation is maintained between IS and non-IS Circuits	x	NA	
94	Cable screens are isolated at one end (field side)	x	NA	
95	Cable screens are earthed in accordance with the documentation	x	NA	
96	Safety barrier units, relays and other energy limiting devices are of the approved type, installed in	x	NA	
97	Equipment installed is the one specified in the documentation	x	NA	
98	Ambient temperature range of the apparatus is correct for the installation	x	NA	
99	Service temperature range of the apparatus is correct for the installation	x	NA	
100	Installation is clearly labelled	x	NA	
101	Printed circuit boards are clean and undamaged	x	NA	
102	The maximum voltage Um of the associated apparatus is not exceeded	x	NA	
103	Point-to-point connections are all correct	x	NA	
104	Earth continuity is satisfactory (e.g. connections are tight, conductors are of sufficient cross-section)	x	NA	
105	Earth connections maintain the integrity of the type of protection	x	NA	
106	Intrinsically safe circuit earthing is satisfactory	x	NA	
107	Insulation resistance is satisfactory	x	NA	
108	Short-circuit protection of the power supply is in accordance with the documentation	x	NA	

	BARRIER:	**Manufacturer:**	NA	**Model:**	NA		
		Authority:	NA	**Cert No:**	NA	**Type:**	NA

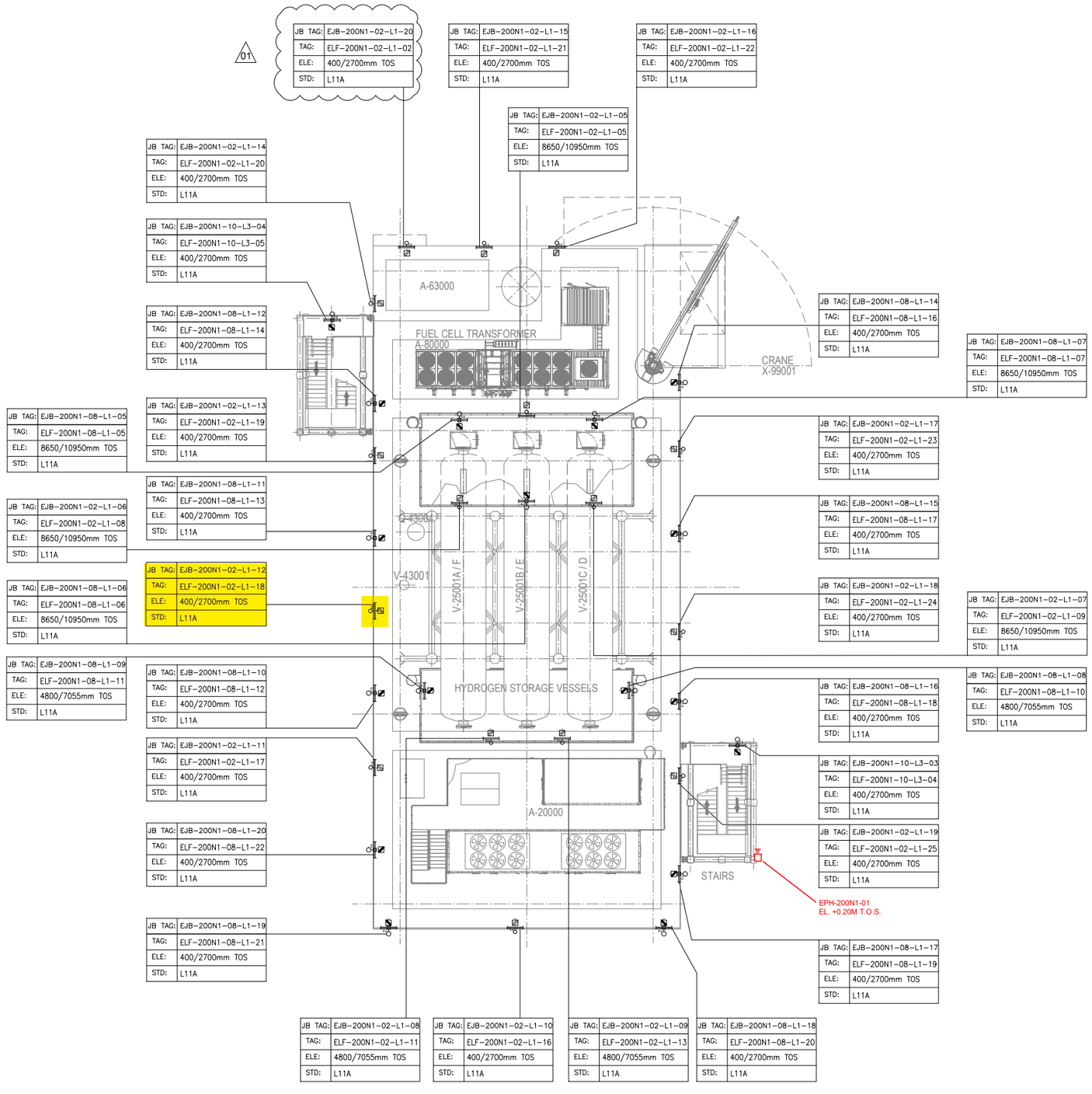
Remarks: Initial inspection should be detailed and carried out before equipment is brought into service as per IEC 60079-17

Please mark only one box as appropriate	
●	**Passed - Complete**
	Failed

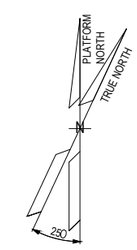
Page 3/3	Performed by	☐ WITNESS ☐ REVIEW	☐ WITNESS ☐ REVIEW
Company	ICS IMPIANTI	RM(ROSETTI MARINO)	
Name	Francesco Zucca	Luca Mussi	
Date	2024-12-28	2025-01-02	
Signature	PROVERLIS Digitaly signed by Francesco Zucca 2024-12-28T07:34:13.374Z	PROVERLIS Digitaly signed by Luca Mussi 2025-01-02T17:08:37.562Z	

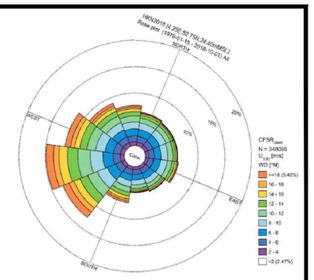
DRAWING NO. 123A90-DDL-EL-DL-20118

REV. 01



PLAN ON UPPER DECK
EL+30.310 T.O.S.





NOTES

1. ALL DIMENSIONS AND ELEVATIONS ARE GIVEN IN mm UNLESS OTHERWISE NOTED.
2. ELEVATIONS REFER TO T.O.S.
3. ELEVATION OF THE LAMPS ARE REFFERED TO THE BOTTOM OF THE LAMP.
4. FOR THE ELEVATION OF JB, REFER TO THE TYPICAL INSTALLATION.

LEGEND

- EMERGENCY LIGHTING JB
- 60W LED EMERGENCY LUMINARIES
- 60W LED EMERGENCY LUMINARIES FIXTURE POLE MOUNTED
- NORMAL LIGHTING JB
- 45W LED NORMAL LUMINARIES
- 45W LED NORMAL LUMINARIES FIXTURE POLE MOUNTED
- WELDING SOCKET WITH INTEGRATED JB
- SMALL POWER SOCKET WITH INTEGRATED JB
- TWILIGHT RELAY SENSOR

JB TAG:	JB-TAG
TAG:	TAG
ELE:	ELEVATION
STD:	STANDARD

VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DL-20118**

REV.:	DATE:	SIGNATURE:
1_B	22/10/24	G.Randi

ROSETTI MARINO SpA

REFERENCE DOCUMENTS

123A90-DDL-PP-DL-70070	PLOT PLAN - LOWER & UPPER DECK
123A90-DDL-EL-DL-20100	ELECTRICAL EQUIPMENT LAYOUT - TOP DECK
123A90-DDL-EL-DD-20091	ELECTRICAL TYPICAL INSTALLATION DETAILS - LIGHTING SYSTEM
123A90-DDL-EL-DD-20092	ELECTRICAL TYPICAL INSTALLATION DETAILS - POWER SYSTEM & CABLE INSTALLATION
123A90-DDL-EL-RE-20153	LIGHTING CALCULATION STUDY REPORT

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	02/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	28/05/24	ASR	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND | ROSETTI MARINO

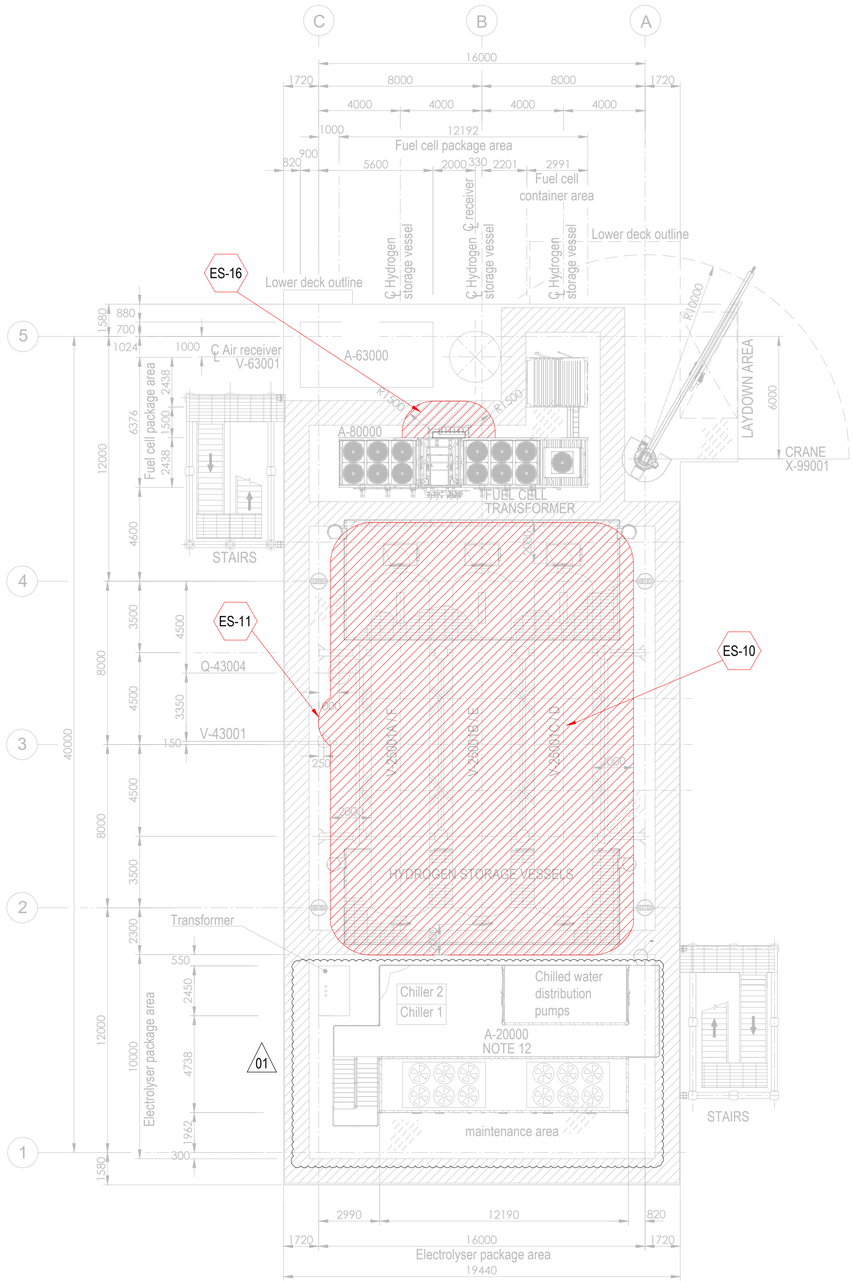
TITLE :
BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET LAYOUT – TOP DECK

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK			SCALE 1:150
DRAWN ASR	CHECKED FMA/AMA	APPROVED FPA/DLO	DATE 01/08/24
A1	DRAWING NO. 123A90-DDL-EL-DL-20118	SHEET 1of2	REV. 01

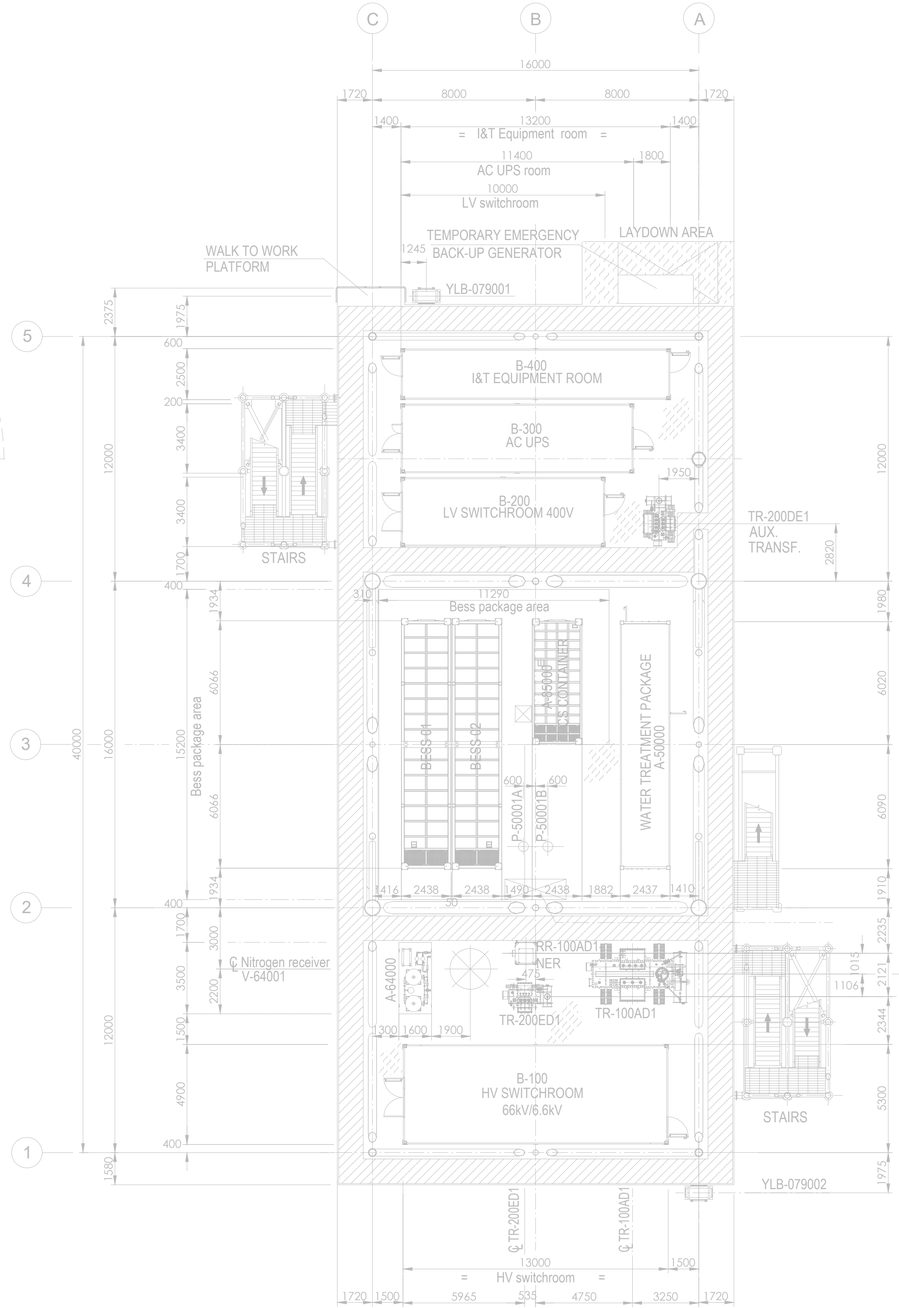
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DRAWING NO. 123A90-DDL-SAF-DL-30022

REV. 01



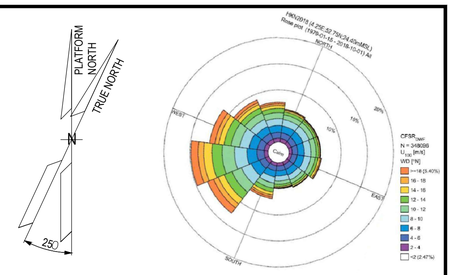
PLAN ON UPPER DECK
EL+30.310 T.O.S.



PLAN ON LOWER DECK
EL+23.310 T.O.S.

Tag No.	Equipment Tag	Description	Material	Ventilation Type
01	P-50001 A/B	SEA WATER LIFT PUMPS	SEA WATER	NATURAL (OPEN AREA)
02	Q-43004	HYDROGEN VENT	HYDROGEN	NATURAL (OPEN AREA)
03	V-43001	HYDROGEN VENT KO DRUM	HYDROGEN	NATURAL (OPEN AREA)
04	V-25001 (A/B/C/D/E/F)	HYDROGEN STORAGE VESSELS	HYDROGEN	NATURAL (OPEN AREA)
05	V-63001	AIR RECEIVER	INSTRUMENT AIR	NATURAL (OPEN AREA)
06	A-20000	ELECTROLYSER PACKAGE		
07	A-63000	INSTRUMENT AIR PACKAGE		
08	A-80000	FUEL CELL PACKAGE		
09	A-85000	BESS PACKAGE		
10	YLB-079001/2	LIFE RAFTS		
11	A-50000	WATER TREATMENT PACKAGE		

Tag No.	Equipment Tag	Description	Material	Ventilation Type
12	A-64000	NITROGEN SYSTEM		
13	B-100	HV SWITCHROOM 66kV/6.6kV		
14	B-200	LV SWITCHROOM 400V		
15	B-300	AC UPS EQUIPMENT ROOM		
16	B-400	I&T EQUIPMENT ROOM		
17	TR-100AD1	TRANSFORMER MAIN 66kV/6.6kV		
18	RR-100AD1-NER	NEUTRAL EARTHING RESISTOR		
19	TR-200DE1	TRANSFORMER AUX. 6.6kV/0.4kV		
20	TR-200ED1	SOLAR TRANSFORMER PV FARM EQUIPMENT		
21	X-99001	CRANE		
22	V-64001	NITROGEN RECEIVER		



1. ALL DIMENSIONS IN mm U.N.O
2. ALL ELEVATIONS IN METERS.
3. PLATFORM NORTH DIRECTION IS N 25°W.
4. VENT TOP SHALL BE REACHEABLE FOR MAINTENANCE PURPOSE.
5. THE BESS IS CONSIDERED SAFE AREA EXCEPT EXTRACTORES FROM BATTERIES , CURRENTLY NOT SHOWN IN DRAWINGS, SINCE INFORMATION FROM VENDOR IS NOT YET AVAILABLE.[ES17]
6. THE LOCATION OF EMISSION SOURCES ON THE LAYOUT ARE ONLY INDICATIVE. EMISSION SOURCES CONSIDERED ARE PRESENT WITHIN THE EXTENSION OF HAZARDOUS CLASSIFIED AREAS SHOWN ON THE LAYOUT. THIS IS BECAUSE VALVES AND FLANGES,WHICH ARE CONSIDERED POTENTIAL SOURCES OF RELEASE POINTS FOR FLAMMABLE GAS ARE NOT SHOWN ON CURRENT LAYOUT PROVIDED. THE SAME APPLIES TO THE EMISSION SOURCES FOR CPI'S ITEM.
7. IDENTIFIED EMISSION SOURCES DETAIL

EMISSION SOURCE No.	IDENTIFIED AREAS
ES10	HYDROGEN STORAGE VESSLES
ES11	HYDROGEN VENT KO DRUM
ES16	FUEL CELL

01

ZONE 0 | ZONE 1 | ZONE 2 | ES EMISSION SOURCES

01

01

123A90-DDL-PP-DS-70071	PLOT PLAN - BELOW LOWER DECK
123A90-DDL-PP-DS-70072	PLOT PLAN - ELEVATION LOOKING NORTH & EAST

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	27/08/24	MMA	CCA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	08/02/24	MMA	CCA	DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND

ROSETTI MARINO

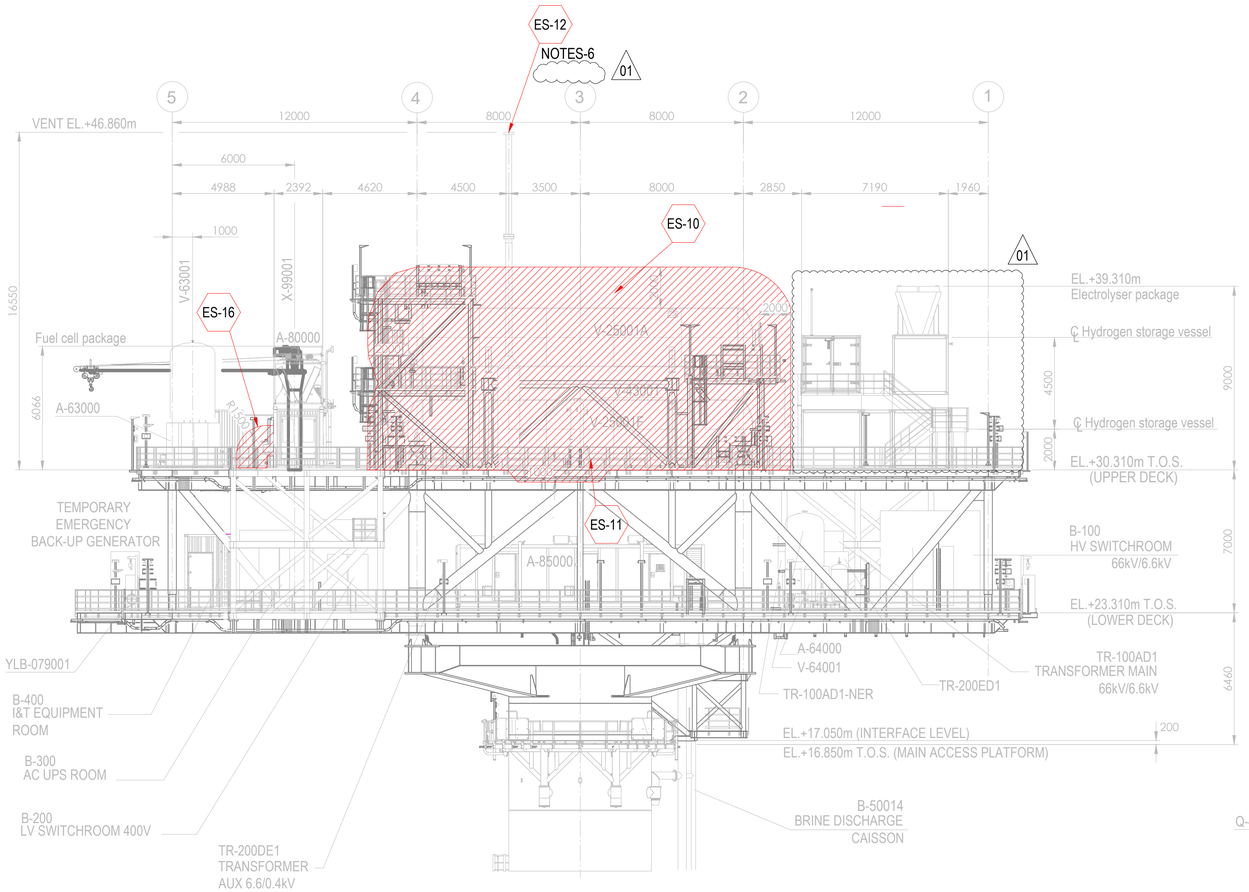
TITLE : BASE LOAD POWER HUB (BLPH)
HAZARDOUS AREA CLASSIFICATION
LOWER & UPPER DECK

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK		SCALE 1:150
DRAWN M. MAGNI	CHECKED C. CARACCIOLO	APPROVED D. LO STERZO	DATE 03/07/24
A1	DRAWING NO. 123A90-DDL-SAF-DL-30022	SHEET 001	REV. 01

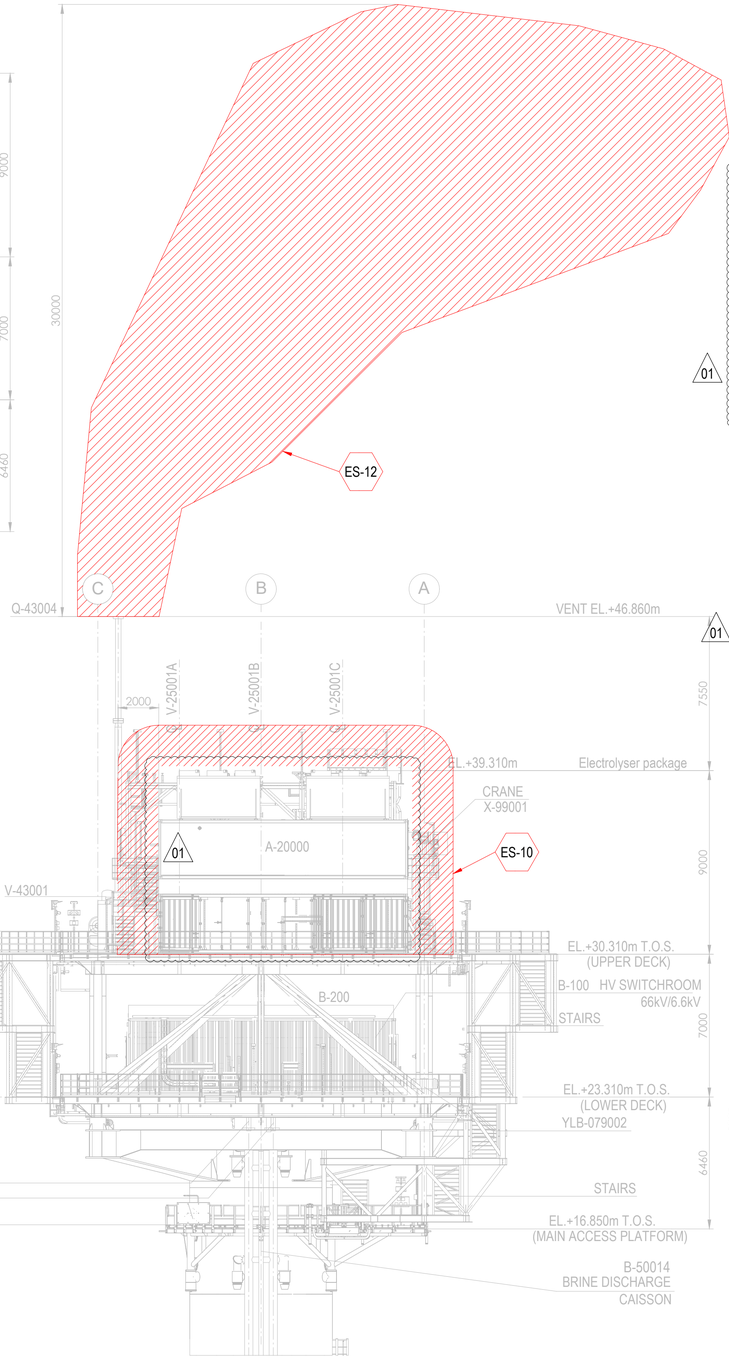
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DRAWING NO. 123A90-DDL-SAF-DL-30024

REV. 01



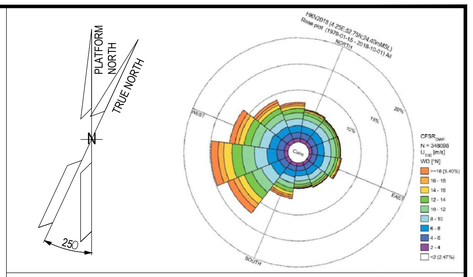
ELEVATION LOOKING EAST



ELEVATION LOOKING NORTH

01

Tag No.	Equipment Tag	Description	Material	Ventilation Type
01	P-50001 A/B	SEA WATER LIFT PUMPS	SEA WATER	NATURAL (OPEN AREA)
02	Q-43004	HYDROGEN VENT	HYDROGEN	NATURAL (OPEN AREA)
03	V-43001	HYDROGEN VENT KO DRUM	HYDROGEN	NATURAL (OPEN AREA)
04	V-25001 (A/B/C/D/E/F)	HYDROGEN STORAGE VESSELS	HYDROGEN	NATURAL (OPEN AREA)
05	V-63001	INSTRUMENT AIR RECEIVER	INSTRUMENT AIR	NATURAL (OPEN AREA)
06	A-20000	ELECTROLYSER PACKAGE		
07	A-63000	INSTRUMENT AIR PACKAGE		
08	A-80000	FUEL CELL PACKAGE		
09	A-85000	BESS PACKAGE		
10	YLB-079001/2	LIFE RAFTS		
11	B-100	HV SWITCHROOM 66kV/6.6kV		
12	B-200	LV SWITCHROOM 400V		
13	B-300	AC UPS EQUIPMENT ROOM		
14	B-400	I&T EQUIPMENT ROOM		
15	TR-100AD1	TRANSFORMER MAIN 66kV/6.6kV		
16	TR-100AD1-NER	NEUTRAL EARTHING RESISTOR		
17	TR-200DE1	TRANSFORMER AUX. 6.6kV/0.4kV		
18	TR-200ED1	SOLAR TRANSFORMER PV FARM EQUIPMENT		
19	X-99001	CRANE		
20	V-64001	NITROGEN RECEIVER		



NOTES

1. ALL DIMENSIONS IN mm U.N.O
2. ALL ELEVATIONS IN METERS.
3. PLATFORM NORTH DIRECTION IS N 25°W.
4. VENT TOP SHALL BE REACHEABLE FOR MAINTENANCE PURPOSE.
5. THE BESS IS CONSIDERED SAFE AREA EXCEPT EXTRACTORES FROM BATTERIES , CURRENTLY NOT SHOWN IN DRAWINGS, SINCE INFORMATION FROM VENDOR IS NOT YET AVAILABLE.[ES17]
6. (ES12) IS SHOWN ONLY ON ELEVATION LOOKING NORTH ON THIS LAYOUT
7. THE LOCATION OF EMISSION SOURCES ON THE LAYOUT ARE ONLY INDICATIVE. EMISSION SOURCES CONSIDERED ARE PRESENT WITHIN THE EXTENSION OF HAZARDOUS CLASSIFIED AREAS SHOWN ON THE LAYOUT. THIS IS BECAUSE VALVES AND FLANGES,WHICH ARE CONSIDERED POTENTIAL SOURCES OF RELEASE POINTS FOR FLAMMABLE GAS ARE NOT SHOWN ON CURRENT LAYOUT PROVIDED. THE SAME APPLIES TO THE EMISSION SOURCES FOR CPI'S ITEM.
8. IDENTIFIED EMISSION SOURCES DETAIL

EMISSION SOURCE No.	IDENTIFIED AREAS
ES10	HYDROGEN STORAGE VESSLES
ES11	HYDROGEN VENT KO DRUM
ES12	HYDROGEN VENT
ES16	FUEL CELL

01

LEGEND

ZONE 0 | ZONE 1 | ZONE 2 | ES EMISSION SOURCES

01

REFERENCE DOCUMENTS

123A90-DDL-PP-DS-70070	PLOT PLAN - LOWER & UPPER DECK
123A90-DDL-PP-DS-70071	PLOT PLAN - BELOW LOWER DECK

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	27/08/24	MMA	CCA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	08/02/24	MMA	CCA	DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND | ROSETTI MARINO

TITLE :
BASE LOAD POWER HUB (BLPH)
HAZARDOUS AREA CLASSIFICATION
ELEVATION LOOKING NORTH & EAST

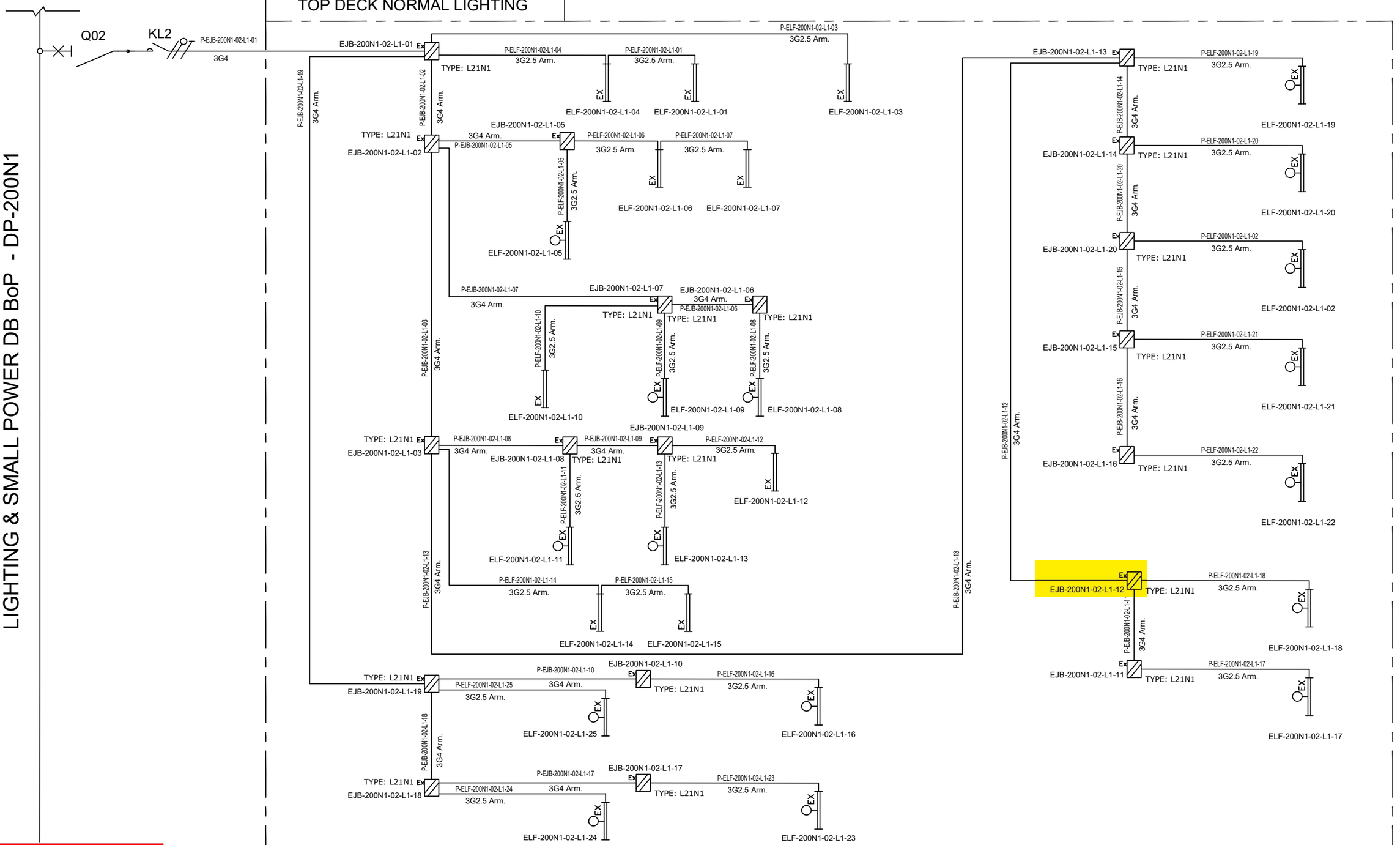
CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK			SCALE 1:150
DRAWN M. MAGNI	CHECKED C. CARACCIOLO	APPROVED D. LO STERZO	DATE 03/07/24

A1	DRAWING NO. 123A90-DDL-SAF-DL-30024	SHEET 001	REV. 01

File Name : 123A90-DDL-SAF-DL-30024 Rev.01

LIGHTING & SMALL POWER DB BoP - DP-200N1

TOP DECK NORMAL LIGHTING



VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DG-20125**

REV.:	DATE:	SIGNATURE:
2_C	20/12/24	V.Ramponi

ROSETTI MARINO SpA

CROSSWIND

ROSETTI MARINO

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	08/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	01/07/24	ASR	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

TITLE : BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET CIRCUIT DIAGRAM
TOP DECK–NORMAL LIGHTING

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE : NTS

A3

DRAWING NO. 123A90–DDL–EL–DG–20125

SHEET 010

REV. 01

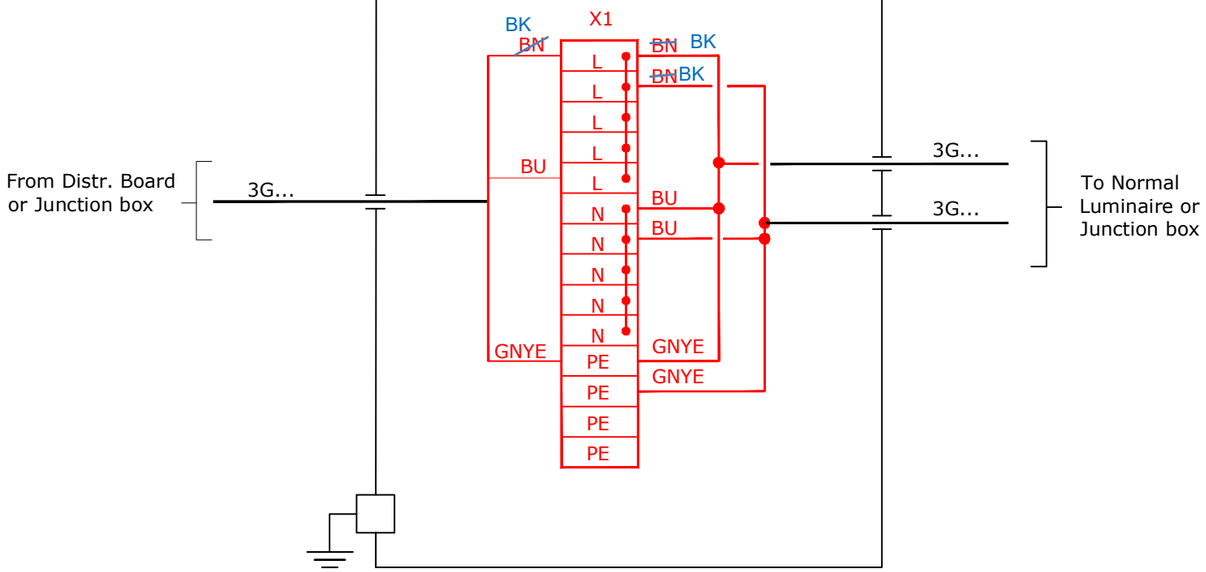
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File Name : 123A90-DDL-EL-DG-20125

TYPE : L21N1 & L21N2

ITEM: NORMAL LIGHTING JUNCTION BOX

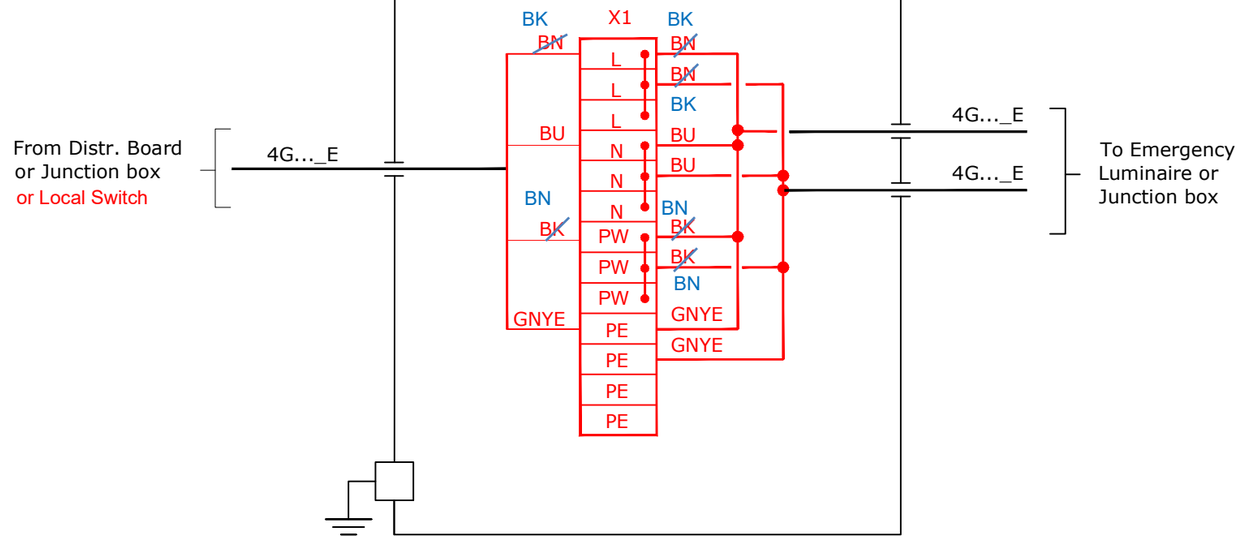
TAG : Typical



TYPE : L21E1 & L21E2

ITEM: EMERGENCY LIGHTING JUNCTION BOX

TAG : Typical



VALID FOR CONSTRUCTION

FDL DWG: **123A90-FDL-EL-DG-20125**

REV.:	DATE:	SIGNATURE:
2_C	20/12/24	V.Ramponi

ROSETTI MARINO SpA

CROSSWIND

ROSETTI MARINO

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	08/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)

TITLE : BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET CIRCUIT DIAGRAM
TYPICAL JB INTERCONNECTING DIAGRAM

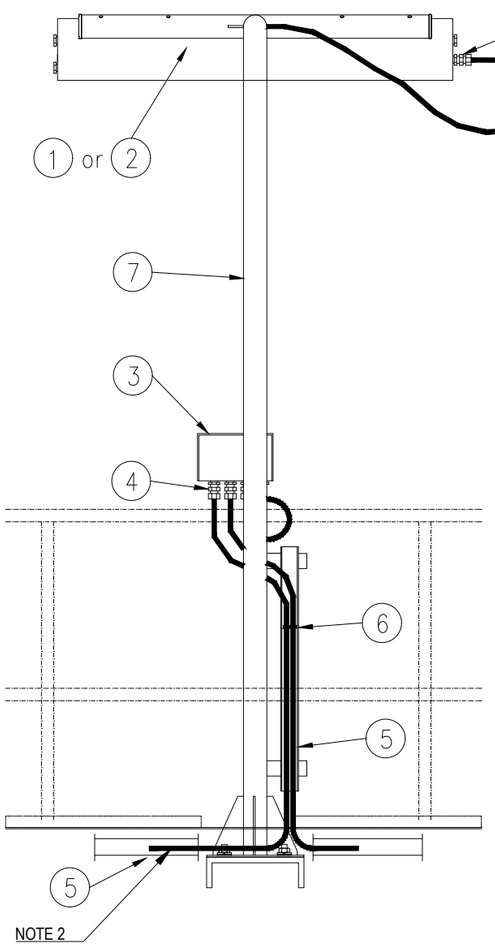
CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK | SCALE : NTS

A3	DRAWING NO.	SHEET	REV.
	123A90-DDL-EL-DG-20125	016	01

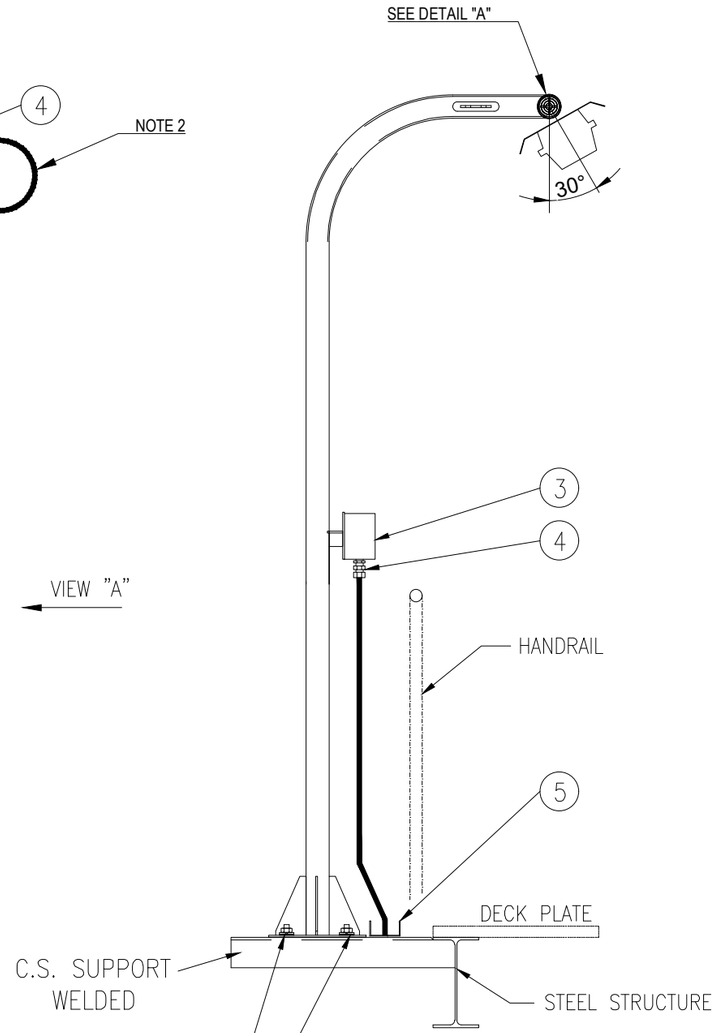
F.to UNI A3: 420mmx297mm

File Name : 123A90-DDL-EL-DG-20125

L11A

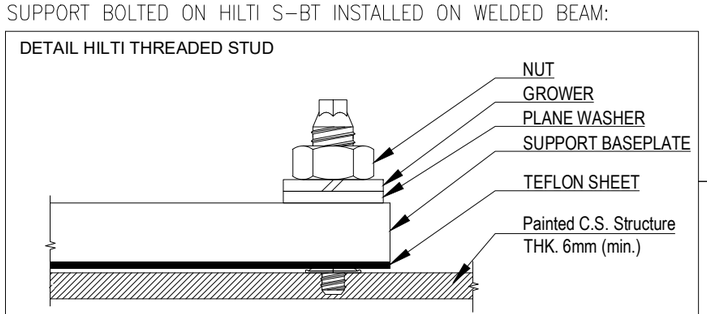


VIEW "A"

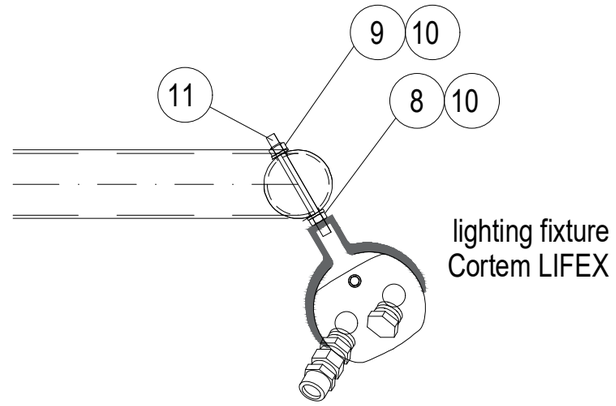


VIEW "A"

SUPPORT BOLTED ON HILTI S-BT INSTALLED ON WELDED BEAM:



POS.	DESCRIPTION	MATERIAL	SIZE	Q.TY	NOTE
1	42W LED LUMINARIES	ALUMINIUM ALLOY		1	
2	45W LED LUMINARIES C/W BATTERY	ALUMINIUM ALLOY		1	
3	JUNCTION BOX (Ex)	GRP		1	NOTE 1
4	CABLE GLAND ~~C/W EARTH TAG,~~ WASHERS, LOCKNUT AND WEATHERPROOF WASHERS	BRASS NICKEL PLATED		AS REQ.	
5	CABLE TRAY	AISI 316L			
6	STAINLESS STEEL NYLON COATED CABLE TIE	SS NYLON COATED			
7	POLE SUPPORT FOR LAMP	AISI 316L	2"		
8	NUT	AISI 316L	M8		
9	SELF.LOCKING NUT	AISI 316L	M8		
10	LARGE PLANE WASHER (24mm DIAM.)	AISI 316L	M8		
11	THREADED ROD M8x100	AISI 316L	M8		



DETAIL "A"

VALID FOR CONSTRUCTION

REV.:	DATE:	SIGNATURE:
2_B	12/12/24	C.Pilato

ROSETTI MARINO SpA

NOTES:

1) FOR LAMPS IN HAZARDOUS AREA, USE ARMOURED CABLE, DOUBLE SEAL CABLE GLAND AND EX JUNCTION BOX.

2) ALWAYS ENSURE CABLE LENGTH IS >3m

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	30/09/24	GRA	AMA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	04/07/24	NLK	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	21/11/23	SPS	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

02

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL TYPICAL INSTALLATION DETAILS-LIGHTING SYSTEM
LIGHTING FIXTURE MOUNTED ON POLE

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE : NTS

A3

DRAWING NO. 123A90-DDL-EL-DD-20091

SHEET 014

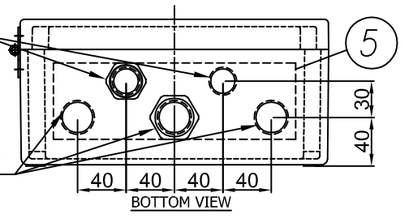
REV. 02

F.to UNI A3: 420mmx297mm

File Name : 123A90-DDL-EL-DD-20091 REV.02.DWG

(10)(4) N°2 PASSING HOLES Ø20.2
C/W N°1 BNK PLUG M20 +
N°1 DUSTPROOF PVC PLUG

(3)(3) N°3 PASSING HOLES Ø25.2
C/W N°1 BNK PLUG M25 +
N°2 DUSTPROOF PVC PLUG



BOTTOM VIEW

(8) I2400722-B015I00029809

TECHNOR ITALSMEA
A COMPANY OF MARECHAL ELECTRIC
Via Italia 33 - 20060 Cassano (MI) ITALY

CE 0080 Ex II 2G II 2D
FIDI 21ATEX 0090X
IECEx FIDI 21.0015X
Year of construction:

MADE IN ITALY

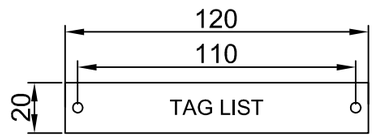
TYPE: AQ-252612P
230VAC 50Hz 20A
Max Dis. P. 6W

Ex eb IIC T6 Gb
Ex tb IIIC T85°C Db
IP66
T.amb. -20/+40°C
Serial Nr.

WARNINGS : DO NOT OPEN WHEN ENERGIZED

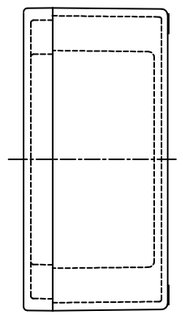
A002MAX

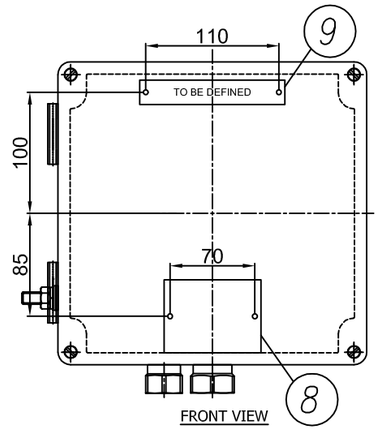
(9) PLATE DETAIL



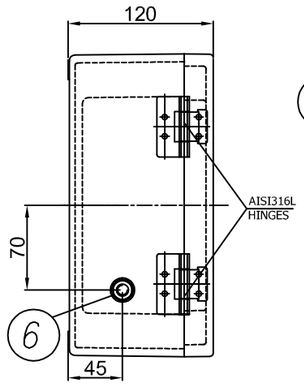
MATERIAL: LAMINATED PLASTIC
BACKGROUND: WHITE
LETTERS: BLACK

(7) Terminals numbered: NOTE 1

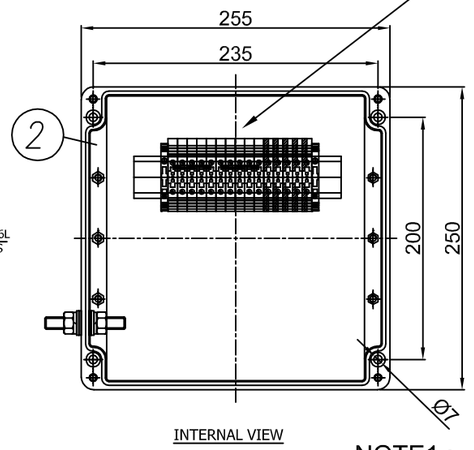

RIGHT VIEW



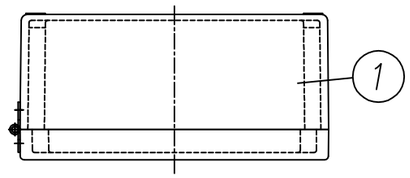
FRONT VIEW



LEFT VIEW



INTERNAL VIEW



TOP VIEW

NOTE1 :
- JB for Normal Lighting have terminals bridge: L-L-L-L-L, N-N-N-N-N, PE-PE-PE-PE-PE - JB for Emergency Lighting have terminals bridge: L-L-L, N-N-N, PW-PW-PW, PE-PE-PE-PE-PE

ITEM	DESCRIPTION	Pcs Q.TY	NOTE/MAT.	CODE	MANUFACTURER
11	DUSTPROOF PVC PLUG Ø25	2	–	.	TECHNOR ITALSMEA
10	DUSTPROOF PVC PLUG Ø20	1	–	.	TECHNOR ITALSMEA
9	LAMINATED PLASTIC TAG 120X20	1	–	.	TECHNOR ITALSMEA
8	AISI316L CERTIFICATE PLATE 80X60	1	–	.	TECHNOR ITALSMEA
7	BEIGE TERMINAL BLOCK SIZE 6 SQMM EARTH TERMINAL BLOCK SIZE 6 SQMM	10 5	WDU–6 WPE–6	.	WEIDMULLER
6	AISI316L INT/EXT EARTH BOLT M10	1	BTP–10	.	TECHNOR ITALSMEA
5	BRASS CONTINUITY PLATE THK. 0.8 MM	1	–	.	TECHNOR ITALSMEA
4	NICKEL PLATED BRASS PLUG M20	1	T20	.	TECHNOR ITALSMEA
3	NICKEL PLATED BRASS PLUG M25	1	T25	.	TECHNOR ITALSMEA
2	INTERNAL MOUNTING PLATE	1	PS–2526	.	TECHNOR ITALSMEA
1	GRP ENCLOSURE	1	AQ–252612P	.	TECHNOR ITALSMEA

-UNPAINTED (BLACK NATURAL)
Q.TY 92, ITEM 20: 2JBXXGPEE, ELEJB02

Explosion Proof
Electrical Equipment
Materiali Elettrici Antideflagranti
TECHNOR ITALSMEA
A COMPANY OF MARECHAL ELECTRIC

CROSSWIND

ROSETTI MARINO

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
05	20/12/24	FB	OB	OB	ACCEPTED FOR CONSTRUCTION (AFC)
04	26/11/24	FB	OB	OB	ACCEPTED FOR CONSTRUCTION (AFC)
03	25/10/24	FB	OB	OB	ACCEPTED FOR CONSTRUCTION (AFC)
02	12/09/24	FB	OB	OB	ACCEPTED FOR CONSTRUCTION (AFC)
01	03/09/24	FB	OB	OB	ACCEPTED FOR CONSTRUCTION (AFC)
00	30/07/24	FB	OB	OB	ISSUE FOR REVIEW (IFR)

TITLE : BASE LOAD POWER HUB (BLPH)

Junction Box for Normal & Emergency Lighting

CONTRACT NO./TITLE CW–I–WP4–2023–05/HOLLANDSE KUST NOORD WIND PARK | SCALE : NTS

A3 | DRAWING NO. 1724001481–EL–DA–00003 | SHEET 004 | REV. 05

F.to UNI A3: 420mmx297mm

File Name : 1724001481–EL–DA–00003 Rev. 01

ENCLOSURE N°	TAG LIST	NORMAL LIGHTING	EMERGENCY LIGHTING
1	EJB-200N1-03-L2-04	X	
2	EJB-200N1-03-L2-03	X	
3	EJB-200N1-03-L2-01	X	
4	EJB-200N1-03-L2-02	X	
5	EJB-200N1-03-L2-12	X	
6	EJB-200N1-03-L2-11	X	
7	EJB-200N1-03-L2-10	X	
8	EJB-200N1-03-L2-09	X	
9	EJB-200N1-03-L2-08	X	
10	EJB-200N1-03-L2-07	X	
11	EJB-200N1-03-L2-06	X	
12	EJB-200N1-03-L2-05	X	
13	EJB-200N1-03-L2-14	X	
14	EJB-200N1-03-L2-13		X
15	EJB-200N1-09-L2-17		X
16	EJB-200N1-09-L2-01		X
17	EJB-200N1-09-L2-04		X
18	SPARE (TO BE PROVIDED BLANK)		X
19	EJB-200N1-09-L2-02		X
20	EJB-200N1-09-L2-15		X
21	EJB-200N1-09-L2-14		X
22	EJB-200N1-09-L2-13		X
23	EJB-200N1-09-L2-12		X
24	EJB-200N1-09-L2-11		X
25	EJB-200N1-09-L2-10		X
26	EJB-200N1-09-L2-09		X
27	EJB-200N1-09-L2-08		X
28	EJB-200N1-09-L2-07		X
29	EJB-200N1-09-L2-06		X
30	EJB-200N1-09-L2-05		X
31	EJB-200N1-09-L2-16	X	
32	EJB-200N1-04-L3-01	X	
33	EJB-200N1-04-L3-02	X	
34	EJB-200N1-10-L3-05		X
35	EJB-200N1-10-L3-06		X
36	EJB-200N1-10-L3-07		X
37	EJB-200N1-10-L3-08		X
38	EJB-200N1-10-L3-09		X
39	EJB-200N1-10-L3-02		X
40	EJB-200N1-10-L3-01		X
41	EJB-200N1-10-L3-03		X
42	EJB-200N1-10-L3-04		X
43	EJB-200N1-02-L1-03	X	
44	EJB-200N1-02-L1-02	X	
45	EJB-200N1-02-L1-01	X	
46	SPARE (TO BE PROVIDED BLANK)	X	
47	EJB-200N1-02-L1-10	X	
48	EJB-200N1-02-L1-19	X	
49	EJB-200N1-02-L1-18	X	

ENCLOSURE N°	TAG LIST	NORMAL LIGHTING	EMERGENCY LIGHTING
50	EJB-200N1-02-L1-17	X	
51	EJB-200N1-02-L1-16	X	
52	EJB-200N1-02-L1-15	X	
53	EJB-200N1-02-L1-14	X	
54	EJB-200N1-02-L1-13	X	
55	EJB-200N1-02-L1-12	X	
56	EJB-200N1-02-L1-11	X	
57	EJB-200N1-02-L1-06	X	
58	EJB-200N1-02-L1-05	X	
59	EJB-200N1-02-L1-07	X	
60	EJB-200N1-02-L1-08	X	
61	EJB-200N1-02-L1-09	X	
62	EJB-200N1-08-L1-03		X
63	SPARE (TO BE PROVIDED BLANK)		X
64	EJB-200N1-08-L1-01		X
65	EJB-200N1-08-L1-04		X
66	EJB-200N1-08-L1-19		X
67	EJB-200N1-08-L1-18		X
68	EJB-200N1-08-L1-17		X
69	EJB-200N1-08-L1-16		X
70	EJB-200N1-08-L1-15		X
71	EJB-200N1-08-L1-14		X
72	EJB-200N1-02-L1-20	X	
73	EJB-200N1-08-L1-12		X
74	EJB-200N1-08-L1-11		X
75	EJB-200N1-08-L1-10		X
76	EJB-200N1-08-L1-20		X
77	EJB-200N1-08-L1-05		X
78	EJB-200N1-08-L1-06		X
79	EJB-200N1-08-L1-07		X
80	EJB-200N1-08-L1-09		X
81	EJB-200N1-08-L1-08		X
82	EJB-200F2-01	X	
83	EJB-200F2-02	X	
84	SPARE (TO BE PROVIDED BLANK)	X	
85	SPARE (TO BE PROVIDED BLANK)	X	
86	SPARE (TO BE PROVIDED BLANK)	X	
87	SPARE (TO BE PROVIDED BLANK)	X	
88	SPARE (TO BE PROVIDED BLANK)	X	
89	SPARE (TO BE PROVIDED BLANK)		X
90	SPARE (TO BE PROVIDED BLANK)		X
91	SPARE (TO BE PROVIDED BLANK)		X
92	SPARE (TO BE PROVIDED BLANK)		X

Q.TY 92, ITEM 20: 2JBXXGPEE, ELEJB02

Explosion Proof
Electrical Equipment
Materiali Elettrici Antideflagranti

TECHNOR ITALSMEA
A COMPANY OF MARECHAL ELECTRIC

CROSSWIND

ROSETTI MARINO

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
05	20/12/24	FB	OB	OB	ACCEPTED FOR CONSTRUCTION (AFC)
04	26/11/24	FB	OB	OB	ACCEPTED FOR CONSTRUCTION (AFC)
03	25/10/24	FB	OB	OB	ACCEPTED FOR CONSTRUCTION (AFC)
02	12/09/24	FB	OB	OB	ACCEPTED FOR CONSTRUCTION (AFC)
01	03/09/24	FB	OB	OB	ACCEPTED FOR CONSTRUCTION (AFC)
00	30/07/24	FB	OB	OB	ISSUE FOR REVIEW (IFR)

TITLE : BASE LOAD POWER HUB (BLPH)

Junction Box for Normal & Emergency Lighting–Tag List

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE : NTS

A3

DRAWING NO. 1724001481-EL-DA-00003

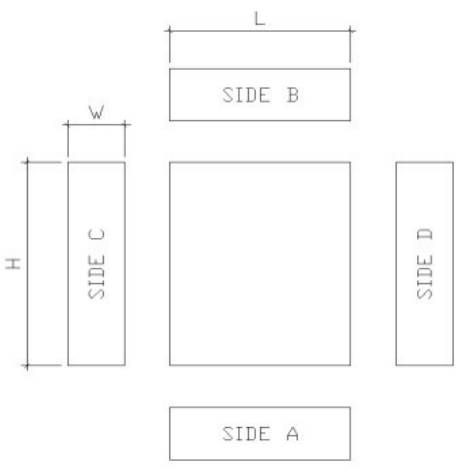
SHEET 005

REV. 05

F.to UNI A3: 420mmx297mm

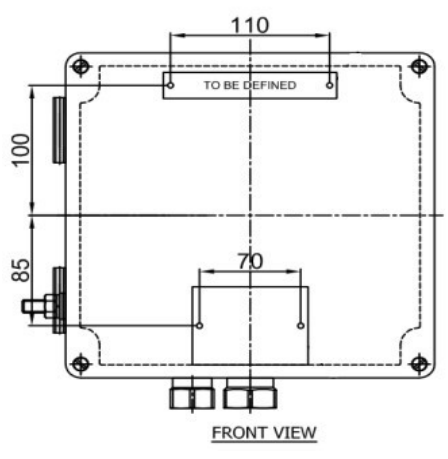
File Name : 1724001481-EL-DA-00003 Rev. 01

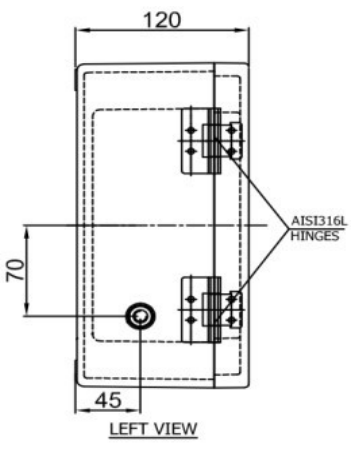
Row	Data Sheet for Control Stations, Junction Boxes and Sockets				Rev.
1	Junction Box for Normal & Emergency Lighting (Exdb)				
2	Item	Required	Manufacturer Proposal	Comments	
3	Model Number	by Vendor	AQ-252612P		01
4	Serial Number	by Vendor	B011041010004		01
5	Quantity	43+5(spare)		(39+9 spare)	01
6	Appkication	Lighting pole JB/Lighting JB			00
7	**Installation area**				
8	Indoor/Outdoor	Outdoor			00
9	Safe Area/Hazardous Area	Hazardous area			00
10	Zone 1/Zone 2	Zone-1			00
11	Temp. Class	Zone 1 Gas Group IIC (or) IIB + H2, T1	Ex eb IIC, T6 Gb		01
12	**Electrical input data**				
13	Voltage	230 V ac	230 V ac		01
14	Number of Phases	1ph + N + PE			00
15	**Material**				
16	Body	GRP	GRP		01
17	Execution	Ex eb	Ex eb		00
18	Protection Degree	IP56	IP 66		01
19	**Accessories**				
20	Hinged Cover	Required	AISI316L Hinges		01
21	Gasket	Required			00
22	Removable Gland Plates	Required	Brass Continuity plate 0.8mm thick		01
23	Internal Mounting Plate	Thickness 3mm threaded		connected to Internal ground bar	00
24	Internal Ground Bar	Required		connected to earth stud	00
25	Earth Stud	Required			00
26	Drainage Valve	Required			00
27	Pad lockable Cover	Required			00
28	Identification Label	Trafolite/ Stainless Steel	Laminated Plastic	for all label	01
29	**Side 'A'**				
30	Hubs Qty.	5	5		01
31	Size	No.3 M25, No.2 M20	No.3 Ø 25.2 mm, No.2 Ø 20.2 mm		01
32	Thread	ISO-M			00
33	Plug	No. 1 M20, No.1 M25	No. 1 Ø 20.2 mm, No.1 Ø 25.2 mm	nickel-plated brass	01
34	**Side 'B'**				
35	Hubs Qty.	Not Required			00
36	Size	NA			00
37	Thread	NA			00
38	**Side 'C'**				
39	Hubs Qty.	Not Required			00
40	Size	NA			00
41	Thread	NA			00
42	**Side 'D'**				
43	Hubs Qty.	Not Required			00
44	Size	NA			00
45	Thread	NA			00
46	**Terminals**				
47	Size [mm^2]	Suitable for 6 Sq.mm & 2.5 Sq.mm Cable	M25 & M20	suitable with wire-end ferrules DIN 46228	01
48	Qty.	n°5 for Ph // n°5 for N // n°5 for PE	n°5 for Ph // n°5 for N // n°5 for PE	Ex - jumpered	01
49	**Bonding Cable (yellow/Green)**				
50	Size [mm^2]	by vendor		6 mm^2	01
51	Qty.	Min. 0.15m			00
52	**Dimension**				
53	Height 'H' [mm]	by vendor	120 mm		01
54	Width 'W' [mm]	by vendor	250 mm		01
55	Length 'L' [mm]	by vendor	255 mm		01
56	Weight [Kg]	by vendor	2.65 Kg		01
57	JB Code (*)	Remarks			
58					



NOTES:

(*) Filled by Vendor





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Tag Number	Tag Description	Location	P.O.	Vendor	Manufacturer	Serial Number	Model Type Catalogue Number	Installation Zone	ATEX Certificate Number	Reference Document	ATEX Certification Marking	Notes / Comments	Skid / Package	Electrical Equip.	Barrier Calculation Ref.	Special Conditions of Safe Use Applicable	3D Location
CB-200F4B	AC UPS F&G - Battery Isolator-B	CONTAINER B-300 (LOWER DECK)	1724000372	3W Power	Cortem Spa		EJBC	Zone 1	EPT 20 ATEX 4075X	1724000372-EL-DG-00011	II 2GDEx db IIC T6 Gb Ex tb IIIC T 85°C Db	-	N/A	True	N/A	False	
EAT-200N1-01	Trace Heating - Remote Ambient Thermostat	LOWER DECK	1724001647	nVent	nVent	1244-022663	ETS-05-A2-E-A	Zone 1	Baseefa 13ATEX0137	1724001647-EL-DD-00004	II 2(1)G Ex eb ia mb [ia Ga] IIC T5 Gb - 40ºC ≤ Ta ≤ +60ºC II 2D Ex tb IIIC T100ºC Db	-	N/A	True	N/A	False	
EHT-1001-A	Self-regulating heat cable	LOWER DECK	1724001647	nVent	nVent	469145-000	3BTV2-CT	Zone 1	SGS20ATEX0048X	1724001647-EL-DD-00004	II 2 GD Ex 60079-30-1 eb IIC T6 Gb	-	N/A	True	N/A	True	
EHT-1002-A	Self-regulating heat cable	LOWER DECK	1724001647	nVent	nVent	469145-000	3BTV2-CT	Zone 1	SGS20ATEX0048X	1724001647-EL-DD-00004	II 2 GD Ex 60079-30-1 eb IIC T6 Gb	-	N/A	True	N/A	True	
EHT-1003-A	Self-regulating heat cable	LOWER DECK	1724001647	nVent	nVent	469145-000	3BTV2-CT	Zone 1	SGS20ATEX0048X	1724001647-EL-DD-00004	II 2 GD Ex 60079-30-1 eb IIC T6 Gb	-	N/A	True	N/A	True	
EHT-1004-A	Self-regulating heat cable	UPPER DECK	1724001647	nVent	nVent	469145-000	3BTV2-CT	Zone 1	SGS20ATEX0048X	1724001647-EL-DD-00004	II 2 GD Ex 60079-30-1 eb IIC T6 Gb	-	N/A	True	N/A	True	
EHT-1004-B	Self-regulating heat cable	UPPER DECK	1724001647	nVent	nVent	469145-000	3BTV2-CT	Zone 1	SGS20ATEX0048X	1724001647-EL-DD-00004	II 2 GD Ex 60079-30-1 eb IIC T6 Gb	-	N/A	True	N/A	True	
EHT-1005-A	Self-regulating heat cable	UPPER DECK	1724001647	nVent	nVent	469145-000	3BTV2-CT	Zone 1	SGS20ATEX0048X	1724001647-EL-DD-00004	II 2 GD Ex 60079-30-1 eb IIC T6 Gb	-	N/A	True	N/A	True	
EHT-1006-A	Self-regulating heat cable	UPPER DECK	1724001647	nVent	nVent	469145-000	3BTV2-CT	Zone 1	SGS20ATEX0048X	1724001647-EL-DD-00004	II 2 GD Ex 60079-30-1 eb IIC T6 Gb	-	N/A	True	N/A	True	
EHT-1007-A	Self-regulating heat cable	LOWER DECK	1724001647	nVent	nVent	469145-000	3BTV2-CT	Zone 1	SGS20ATEX0048X	1724001647-EL-DD-00004	II 2 GD Ex 60079-30-1 eb IIC T6 Gb	-	N/A	True	N/A	True	
EHT-2002-A	Self-regulating heat cable	UPPER DECK	1724001647	nVent	nVent	469145-000	3BTV2-CT	Zone 1	SGS20ATEX0048X	1724001647-EL-DD-00004	II 2 GD Ex 60079-30-1 eb IIC T6 Gb	-	N/A	True	N/A	True	
EJB-200F2-01	Top Obstruction Lights Junction Box	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990082	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	HAZARDOUS-AREA_8 HAZARDOUS-AREA_3
EJB-200F2-02	Intermediate obstruction lights junction box	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990083	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	HAZARDOUS-AREA_4
EJB-200N1-02-L1-01	Normal Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990045	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-02-L1-02	Normal Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990044	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-02-L1-03	Normal Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990043	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	HAZARDOUS-AREA_3
EJB-200N1-02-L1-05	Normal Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990058	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-02-L1-06	Normal Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990057	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-02-L1-07	Normal Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990059	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-02-L1-08	Normal Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990060	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-02-L1-09	Normal Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990061	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-02-L1-10	Normal Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990047	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-02-L1-11	Normal Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990056	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-02-L1-12	Normal Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990055	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-02-L1-13	Normal Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990054	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-02-L1-14	Normal Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990053	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-02-L1-15	Normal Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990052	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-02-L1-16	Normal Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990051	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-02-L1-17	Normal Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990050	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-02-L1-18	Normal Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990049	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-02-L1-19	Normal Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990048	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-02-L1-20	Normal Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990072	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-03-L2-01	Normal Lighting JB	LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990003	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-03-L2-02	Normal Lighting JB	LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990004	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-03-L2-03	Normal Lighting JB	LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990002	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-03-L2-04	Normal Lighting JB	LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990001	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-03-L2-05	Normal Lighting JB	LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990012	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-03-L2-06	Normal Lighting JB	LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990011	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-03-L2-07	Normal Lighting JB	LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990010	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-03-L2-08	Normal Lighting JB	LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990009	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-03-L2-09	Normal Lighting JB	LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990008	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-03-L2-10	Normal Lighting JB	LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990007	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-03-L2-11	Normal Lighting JB	LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990006	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-03-L2-12	Normal Lighting JB	LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990005	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-03-L2-13	Normal Lighting JB	LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990014	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-03-L2-14	Normal Lighting JB	LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990013	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-04-L3-01	Stair Normal Lighting JB	LOWER DECK STAIRS	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990032	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-04-L3-02	Stair Normal Lighting JB	LOWER DECK STAIRS	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990033	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-08-L1-01	Emergency Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990064	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-08-L1-03	Emergency Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990062	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	HAZARDOUS-AREA_3
EJB-200N1-08-L1-04	Emergency Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990065	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-08-L1-05	Emergency Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990077	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-08-L1-06	Emergency Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990078	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	

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explosion safety solutions

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[1] # EU – TYPE EXAMINATION CERTIFICATE

[2] Equipment or Protective Systems Intended for use in Potentially Explosive Atmospheres Directive 2014/34/EU.

[3] EU-Type Examination Certificate Number: **FIDI 21 ATEX 0090X** Issue: **1**

[4] Product: **Junction boxes, local control stations and local control panels**

Type: **AQ-***P / AQ-***AL / AR-***P / AR-***AL**
AQ-*P-HT / AQ-***AL-HT / AR-***P-HT / AR-***AL-HT**
SB-* / ST-***
EFE-* / EFXE-*** AL / EFXE-***SB / EFXE-***ST**
EFE-*-HT / EFXE-***AL-HT**

[5] Manufacturer: **Technor Italsmea S.p.A.**

[6] Address: **Via Italia 33, 20060 Gessate (MI), Italy**

[7] This product and any acceptable variation thereto is specified in the schedule to this certificate and documents therein referred to.

[8] FIDITAS Ltd., Notified Body number 2829 in accordance with Article 17 of Directive 2014/34/EU of the European Parliament and of the Council, dated 26 February 2014, certifies that this product has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of products intended for use in potentially explosive atmospheres given in Annex II of the Directive.

The examination and test results are recorded in confidential Report No: **FIDI 21 CR 075**

[9] Compliance with the Essential Health and Safety Requirements has been assured by compliance with:

EN IEC 60079-0:2018	**EN 60079-1:2014**	**EN IEC 60079-7:2015 / A1:2018**
EN 60079-11:2012	**EN 60079-18:2015/A1:2017**	**EN 60079-31:2014**

except in respect of those requirements listed at item 18 of the Schedule.

[10] If the sign 'X' is placed after the certificate number, it indicates that the product is subject to Specific Conditions of Use specified in the schedule to this certificate.

[11] This EU-Type Examination Certificate relates only to the design, examination and test of the specified product in accordance with Annex III. Further requirements of the Directive apply to the manufacturing process and supply of this products. These are not covered by this certificate.

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This certificate may only be reproduced in its entirety, without any change, schedule included

[12] The marking of the product shall include the following:



II 1 G	**Ex ia IIC/IIB T6...T4 Ga**(2) or
II 2(1) G or **II 2(2) G**	**Ex db eb ia/ib mb [**(3)**] IIC/IIB T6...T4 Gb**(1) or
II 2 G	**Ex eb IIC/IIB T6...T4 Gb**(1) or
II 2 D	**Ex tb IIIC T85°C...T135°C Db**

(1) Others type of protection additional to 'eb' depending to the components actually mounted.

(2) In case of enclosures containing 'eb' terminals and/or 'ia Ga' already certified components (with compatible marking) only.

(3) Associated equipment protection depending on the components actually mounted (see lists): e.g. [ia/ib/ia Ga/ia IIIC Da] and/or [ia IIIC Da] or [ia/ib/ia Ga/ia IIIC Da] and/or [ia/ib/ia Ga] [ia IIIC Da]

Our ref.: 21.CRT.400

Date: 23. 12.2021.

Fiditas d.o.o. ZAGREB

FIDITAS Ltd.
Certification department
Approved:

Marino Kelava, M.E.Eng.

Fiditas Ltd. Karlovačka cesta 197, 10250 Zagreb-Lučko, Croatia
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[13] **SCHEDULE**

[14] **EU - TYPE EXAMINATION CERTIFICATE No.:** **FIDI 21 ATEX 0090X**

[15] **Description of product**

Junction boxes, local control stations and local control panels are made of 'eb' and 'tb' enclosures in stainless steel, aluminium alloy or glass fiber reinforced polyester resin, of various dimensions, which shall house 'eb' and/or 'ia/ib' terminals and/or Ex components or Ex equipment made in different type of Ex protection. All Ex terminals, Ex components and Ex equipment are covered by their own ATEX certificates.

The terminals and components are be used according to data available in related component certificates, in relevant temperature range, voltage and current limitations. The terminals must be fitted in accordance with EN IEC 60079-0 and EN IEC 60079-7 with regards to creepage and clearance distances, and according to related safety instructions.

The cover is fixed to the body with screw, between body and cover a gasket guarantee the protection degree IP66 (IP66/67 depending on models). The cover of stainless-steel enclosure can be also fixed the body with looking devices, between body and cover a gasket guarantee the protection degree IP66. The IP degree of junction boxes, local control stations and local control panels depend on the components actually mounted. The walls and the bottom of the boxes can be drilled and taped with maximum size and maximum number of holes as specified in the manufacturer documents.

The cable glands or plugs, with separate ATEX certificate, made in type of protection 'eb' and/or 'tb' with appropriate IP protection are mounted according to related manufacturer's installation instructions. Each enclosure is provided with internal earthing certified terminal or earthing screw or bolt. Metal enclosures are provided by external earthing screw or bolt. Metal and polyester enclosures can be provided by passing through earthing terminals.

All enclosures can be provided by:
- Externally installed accessories as specified in manufacturer documents,
- Drain breath device type ECR3, included in this certificate,
- Internal/external earthing plate.

Model identification

Junction boxes

A(1)-(2) (3) (4) (5) (6)	(1) –	**Q**: Square size **R**: Rectangular size
	(2) (3) (4)	dimension, in cm
	(5)	Material **P**: Glass fiber reinforced polyester resin **AL**: Aluminium Alloy
	(6)	None: up to internal temperature of 105°C **HT**: up to internal temperature of 130°C
SB- (2) (3) (4)	(2) (3) (4)	dimension, in cm
ST- (2) (3) (4)	(2) (3) (4)	dimension, in cm

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Panel boards

EFE- (2) (3) (4) (6)	(2) (3) (4)	dimension, in cm
	(6)	None: up to internal temperature of 105°C **HT**: up to internal temperature of 130°C
EFXE- (2) (3) (4) (5) (6)	(2) (3) (4)	dimension, in cm
		Material
	(5)	**SB** or **ST**: stainless steel **AL**: Aluminium Alloy
	(6)	None: up to internal temperature of 105°C **HT**: up to internal temperature of 130°C

Technical data:

Electrical data:	According to Ex component to actually installed
Ambient temperature:	-50°C ÷ +95°C Other possible ranges are with: - min temperature: -50°C to -20 °C - max temperature of +40 °C to +95 °C
Mechanical protection:	IP66/IP67 depending on models IP66 without swing handle element IP55 with swing handle element

Temperature class and/or maximum surface temperature of any junction box or control panel depend on ambient temperature and internal power dissipation. The values that must be observed are given in relevant tables in this certificate.

For commercial reasons model name listed in the tables below can be modified as follows: first (2) and second (3) pair of digits can be reversed.

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Model sizes

Polyester High Temperature		Aluminium High Temperature	
AQ-080806P-HT	EFE-080806-HT	AQ-080806AL-HT	EFXE-080806AL-HT
AQ-080808P-HT	EFE-080808-HT	AR-081306AL-HT	EFXE-081306AL-HT
AR-081106P-HT	EFE-081106-HT	AR-081806AL-HT	EFXE-081806AL-HT
AR-081108P-HT	EFE-081108-HT	AR-082505AL-HT	EFXE-082505AL-HT
AR-081606P-HT	EFE-081606-HT	AQ-101008AL-HT	EFXE-101008AL-HT
AR-081608P-HT	EFE-081608-HT	AR-101608AL-HT	EFXE-101608AL-HT
AR-081906P-HT	EFE-081906-HT	AR-102008AL-HT	EFXE-102008AL-HT
AR-081908P-HT	EFE-081908-HT	AQ-121208AL-HT	EFXE-121208AL-HT
AR-082306P-HT	EFE-082306-HT	AQ-121209AL-HT	EFXE-121209AL-HT
AR-082308P-HT	EFE-082308-HT	AR-122208AL-HT	EFXE-122208AL-HT
AQ-121209P-HT	EFE-121209-HT	AR-122209AL-HT	EFXE-122209AL-HT
AR-122209P-HT	EFE-122209-HT	AR-123608AL-HT	EFXE-123608AL-HT
AQ-161609P-HT	EFE-161609-HT	AQ-141409AL-HT	EFXE-141409AL-HT
AR-162609P-HT	EFE-162609-HT	AR-142009AL-HT	EFXE-142009AL-HT
AR-163609P-HT	EFE-163609-HT	AQ-161609AL-HT	EFXE-161609AL-HT
AR-165609P-HT	EFE-165609-HT	AR-162609AL-HT	EFXE-162609AL-HT
AQ-202017P-HT	EFE-202017-HT	AR-163609AL-HT	EFXE-163609AL-HT
AR-203017P-HT	EFE-203017-HT	AR-165609AL-HT	EFXE-165609AL-HT
AQ-252612P-HT	EFE-252612-HT	AQ-181810AL-HT	EFXE-181810AL-HT
AQ-252616P-HT	EFE-252616-HT	AR-182810AL-HT	EFXE-182810AL-HT
AR-254012P-HT	EFE-254012-HT	AR-102311AL-HT	EFXE-102311AL-HT
AR-254016P-HT	EFE-254016-HT	AR-202311AL-HT	EFXE-202311AL-HT
AR-256012P-HT	EFE-256012-HT	AR-202318AL-HT	EFXE-202318AL-HT
AR-304020P-HT	EFE-304020-HT	AR-232811AL-HT	EFXE-232811AL-HT
AQ-363609P-HT	EFE-363609-HT	AR-233311AL-HT	EFXE-233311AL-HT
AR-406025P-HT	EFE-406025-HT	AR-233318AL-HT	EFXE-233318AL-HT
AQ-414012P-HT	EFE-414012-HT	AR-234011AL-HT	EFXE-234011AL-HT
AQ-414020P-HT	EFE-414020-HT	AR-234023AL-HT	EFXE-234023AL-HT
		AR-236011AL-HT	EFXE-236011AL-HT
		AR-314011AL-HT	EFXE-314011AL-HT
		AR-314014AL-HT	EFXE-314014AL-HT
		AR-314018AL-HT	EFXE-314018AL-HT
		AR-314023AL-HT	EFXE-314023AL-HT
		AR-316011AL-HT	EFXE-316011AL-HT
		AR-316018AL-HT	EFXE-316018AL-HT
		AQ-606020AL-HT	EFXE-606020AL-HT

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Polyester		Aluminium		Stainless steel	
AQ-080806P	EFE-080806	AQ-080806AL	EFXE-080806AL	SB-101210	EFXE-101210SB
AQ-080808P	EFE-080808	AR-081306AL	EFXE-081306AL	SB-151510	EFXE-151510SB
AR-081106P	EFE-081106	AR-081806AL	EFXE-081806AL	SB-142013	EFXE-142013SB
AR-081606P	EFE-081606	AR-081808AL	EFXE-081808AL	SB-202010	EFXE-202010SB
AR-081906P	EFE-081906	AR-082505AL	EFXE-082505AL	SB-202016	EFXE-202016SB
AQ-121209P	EFE-121209	AR-082508AL	EFXE-082508AL	SB-202713	EFXE-202713SB
AR-122209P	EFE-122209	AQ-101008AL	EFXE-101008AL	SB-272713	EFXE-272713SB
AQ-161609P	EFE-161609	AR-101508AL	EFXE-101508AL	SB-203016	EFXE-203016SB
AR-162609P	EFE-162609	AR-101608AL	EFXE-101608AL	SB-273513	EFXE-273513SB
AR-163609P	EFE-163609	AR-102008AL	EFXE-102008AL	SB-282816	EFXE-282816SB
AQ-252612P	EFE-252612	AQ-121208AL	EFXE-121208AL	SB-204016	EFXE-204016SB
AQ-252616P	EFE-252616	AR-122209AL	EFXE-122209AL	SB-353516	EFXE-353516SB
AR-254012P	EFE-254012	AQ-141409AL	EFXE-141409AL	SB-282827	EFXE-282827SB
AR-254016P	EFE-254016	AR-142009AL	EFXE-142009AL	SB-355016	EFXE-355016SB
AR-256012P	EFE-256012	AQ-161609AL	EFXE-161609AL	SB-383816	EFXE-383816SB
AQ-414012P	EFE-414012	AR-162410AL	EFXE-162410AL	SB-384516	EFXE-384516SB
		AR-162609AL	EFXE-162609AL	SB-385716	EFXE-385716SB
		AQ-181810AL	EFXE-181810AL	SB-505016	EFXE-505016SB
		AR-182810AL	EFXE-182810AL	SB-383827	EFXE-383827SB
		AR-202311AL	EFXE-202311AL	SB-575716	EFXE-575716SB
		AR-202318AL	EFXE-202318AL	SB-577620	EFXE-577620SB
		AR-232811AL	EFXE-232811AL	SB-575730	EFXE-575730SB
		AR-233312AL	EFXE-233312AL	SB-769520	EFXE-769520SB
		AR-233318AL	EFXE-233318AL	SB-1258040	EFXE-1258040SB

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Enclosure types (Stainless steel)	
ST-101210	EFXE-101210ST
ST-151510	EFXE-151510ST
ST-142013	EFXE-142013ST
ST-202010	EFXE-202010ST
ST-202016	EFXE-202016ST
ST-202713	EFXE-202713ST
ST-272713	EFXE-272713ST
ST-203016	EFXE-203016ST
ST-273513	EFXE-273513ST
ST-282816	EFXE-282816ST
ST-204016	EFXE-204016ST
ST-353516	EFXE-353516ST
ST-282827	EFXE-282827ST
ST-355016	EFXE-355016ST
ST-383816	EFXE-383816ST
ST-384516	EFXE-384516ST
ST-385716	EFXE-385716ST
ST-505016	EFXE-505016ST
ST-383827	EFXE-383827ST
ST-575716	EFXE-575716ST
ST-577620	EFXE-577620ST
ST-575730	EFXE-575730ST
ST-769520	EFXE-769520ST
ST-1258040	EFXE-1258040ST

Note 2 For stainless steel enclosures: dimensions (2) and (3) can be decreased or increased up to 20%, dimensions (4) can be increased up to 500 mm. Model name changes consequently.

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Power dissipation – HT glass fiber reinforced polyester resin enclosures

Enclosure types (polyester)		Maximum power dissipation (W) – Tamb. up to **40**°C							
		INTERNAL TEMP.60°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)	INTERNAL TEMP.127°C (T4/T135°C)
AQ-080806P-HT	EFE-080806-HT	3,5	5,2	7,0	7,8	9,6	10,4	11,3	15,2
AQ-080808P-HT	EFE-080808-HT	4,6	6,8	9,1	10,2	12,5	13,7	14,8	19,8
AR-081106P-HT	EFE-081106-HT	4,3	6,4	8,5	9,6	11,8	12,8	13,9	18,6
AR-081108P-HT	EFE-081108-HT	5,6	8,4	11,2	12,6	15,3	16,7	18,1	24,2
AR-081606P-HT	EFE-081606-HT	5,8	8,7	11,6	13,0	15,9	17,4	18,8	25.2
AR-081608P-HT	EFE-081608-HT	6,8	10,2	13,7	15,4	18,8	20,5	22,2	29,7
AR-081906P-HT	EFE-081906-HT	6,4	9,6	12,8	14,4	17,6	19,2	20,8	27,8
AR-081908P-HT	EFE-081908-HT	7,5	11,3	15,1	17,0	20,7	22,6	24,5	32,7
AR-082306P-HT	EFE-082306-HT	7,2	10,8	14,4	16,2	19,8	21,6	23,4	31,3
AR-082308P-HT	EFE-082308-HT	8,5	12,7	16,9	19,0	23,3	25,4	27,5	36,7
AQ-121209P-HT	EFE-121209-HT	8,0	12,0	15,9	17,9	21,9	23,9	25,9	34,7
AR-122209P-HT	EFE-122209-HT	10,8	16,2	21,6	24,3	29,7	32,4	35,1	47,0
AQ-161609P-HT	EFE-161609-HT	10,4	15,6	20,8	23,4	28,6	31,2	33,8	45,2
AR-162609P-HT	EFE-162609-HT	13,4	20,1	26,8	30,2	36,9	40,2	43,6	58,3
AR-163609P-HT	EFE-163609-HT	16,2	24,3	32,4	36,5	44,6	48,6	52,7	70,5
AR-165609P-HT	EFE-165609-HT	21,4	32,0	42,7	48,1	58,7	64,1	69,4	92,9
AQ-202017P-HT	EFE-202017-HT	18,0	26,9	35,9	40,4	49,4	53,9	58,4	78,1
AR-203017P-HT	EFE-203017-HT	20,9	31,3	41,7	47,0	57,4	62,6	67,8	90,8
AQ-252612P-HT	EFE-252612-HT	18,8	28,2	37,6	42,4	51,8	56,5	61,2	81,9
AQ-252616P-HT	EFE-252616-HT	20,8	31,1	41,5	46,7	57,1	62,3	67,5	90,3
AR-254012P-HT	EFE-254012-HT	22,8	34,2	45,7	51,4	62,8	68,5	74,2	99,3
AR-254016P-HT	EFE-254016-HT	26,2	39,3	52,4	58,9	72,0	78,6	85,1	113,9
AR-256012P-HT	EFE-256012-HT	29,0	43,6	58,1	65,3	79,9	87,1	94,4	126,3
AR-304020P-HT	EFE-304020-HT	32,3	48,5	64,7	72,7	88,9	97,0	105,1	140,7
AQ-363609P-HT	EFE-363609-HT	23,0	34,6	46,1	51,8	63,4	69,1	74,9	100,2
AR-406025P-HT	EFE-406025-HT	50,3	75,5	100,7	113,3	138,4	151,0	163,6	218,9
AQ-414012P-HT	EFE-414012-HT	29,1	43,7	58,2	65,5	80,1	87,3	94,6	126,6
AQ-414020P-HT	EFE-414020-HT	36,6	55,0	73,3	82,4	100,8	109,9	119,1	159,4

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Enclosure types (polyester)		Maximum power dissipation (W) – Tamb. up to **50**°C							
		INTERNAL TEMP.60°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)	INTERNAL TEMP.127°C (T4/T135°C)
AQ-080806P-HT	EFE-080806-HT	1,7	3,5	5,2	6,1	7,8	8,7	9,6	13,4
AQ-080808P-HT	EFE-080808-HT	2,3	4,6	6,8	8,0	10,2	11,4	12,5	17,5
AR-081106P-HT	EFE-081106-HT	2,1	4,3	6,4	7,5	9,6	10,7	11,8	16,5
AR-081108P-HT	EFE-081108-HT	2,8	5,6	8,4	9,8	12,6	13,9	15,3	21.5
AR-081606P-HT	EFE-081606-HT	2,9	5,8	8,7	10,1	13,0	14,5	15,9	22,3
AR-081608P-HT	EFE-081608-HT	3,4	6,8	10,2	11,9	15,4	17,1	18,8	26,3
AR-081906P-HT	EFE-081906-HT	3,2	6,4	9,6	11,2	14,4	16,0	17,6	24,6
AR-081908P-HT	EFE-081908-HT	3,8	7,5	11,3	13,2	17,0	18,8	20,7	29,0
AR-082306P-HT	EFE-082306-HT	3,6	7,2	10,8	12,6	16,2	18,0	19,8	27,7
AR-082308P-HT	EFE-082308-HT	4,2	8,5	12,7	14,8	19,0	21,1	23,3	32,5
AQ-121209P-HT	EFE-121209-HT	4,0	8,0	12,0	14,0	17,9	19,9	21,9	30,7
AR-122209P-HT	EFE-122209-HT	5,4	10,8	16,2	18,9	24,3	27,0	29,7	41,6
AQ-161609P-HT	EFE-161609-HT	5,2	10,4	15,6	18,2	23,4	26,0	28,6	40,0
AR-162609P-HT	EFE-162609-HT	6,7	13,4	20,1	23,5	30,2	33,5	36,9	51,6
AR-163609P-HT	EFE-163609-HT	8,1	16,2	24,3	28,4	36,5	40,5	44,6	62,3
AR-165609P-HT	EFE-165609-HT	10,7	21,4	32,0	37,4	48,1	53,4	58,7	82,2
AQ-202017P-HT	EFE-202017-HT	9,0	18,0	26,9	31,4	40,4	44,9	49,4	69,1
AR-203017P-HT	EFE-203017-HT	10,4	20,9	31,3	36,5	47,0	52,2	57,4	80,4
AQ-252612P-HT	EFE-252612-HT	9,4	18,8	28,2	32,9	42,4	47,1	51,8	72,5
AQ-252616P-HT	EFE-252616-HT	10,4	20,8	31,1	36,3	46,7	51,9	57,1	79,9
AR-254012P-HT	EFE-254012-HT	11,4	22,8	34,2	39,9	51,4	57,1	62,8	87,9
AR-254016P-HT	EFE-254016-HT	13,1	26,2	39,3	45,8	58,9	65,5	72,0	100,8
AR-256012P-HT	EFE-256012-HT	14,5	29,0	43,6	50,8	65,3	72,6	79,9	111,8
AR-304020P-HT	EFE-304020-HT	16,2	32,3	48,5	56,6	72,7	80,8	88,9	124,4
AQ-363609P-HT	EFE-363609-HT	11,5	23,0	34,6	40,3	51,8	57,6	63,4	88,7
AR-406025P-HT	EFE-406025-HT	25,2	50,3	75,5	88,1	113,3	125,8	138,4	193,8
AQ-414012P-HT	EFE-414012-HT	14,6	29,1	43,7	51,0	65,5	72,8	80,1	112,1
AQ-414020P-HT	EFE-414020-HT	18,3	36,6	55,0	64,1	82,4	91,6	100,8	141,1

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Enclosure types (polyester)		Maximum power dissipation (W) – Tamb. up to **55**°C							
		INTERNAL TEMP.65°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)	INTERNAL TEMP.127°C (T4/T135°C)
AQ-080806P-HT	EFE-080806-HT	1,7	2,6	4,4	5,2	7,0	7,8	8,7	12,5
AQ-080808P-HT	EFE-080808-HT	2,3	3,4	5,7	6,8	9,1	10,2	11,4	16,2
AR-081106P-HT	EFE-081106-HT	2,1	3,2	5,3	6,4	8,5	9,6	10,7	15,2
AR-081108P-HT	EFE-081108-HT	2,8	4,2	7,0	8,4	11,2	12,6	13,9	19,8
AR-081606P-HT	EFE-081606-HT	2,9	4,3	7,2	8,7	11,6	13,0	14,5	20,6
AR-081608P-HT	EFE-081608-HT	3,4	5,1	8,5	10,2	13,7	15,4	17,1	24,3
AR-081906P-HT	EFE-081906-HT	3,2	4,8	8,0	9,6	12,8	14,4	16,0	22,8
AR-081908P-HT	EFE-081908-HT	3,8	5,7	9,4	11,3	15,1	17,0	18,8	26,8
AR-082306P-HT	EFE-082306-HT	3,6	5,4	9,0	10,8	14,4	16,2	18,0	25,6
AR-082308P-HT	EFE-082308-HT	4,2	6,3	10,6	12,7	16,9	19,0	21,1	30,0
AQ-121209P-HT	EFE-121209-HT	4,0	6,0	10,0	12,0	15,9	17,9	19,9	28,3
AR-122209P-HT	EFE-122209-HT	5,4	8,1	13,5	16,2	21,6	24,3	27,0	38,3
AQ-161609P-HT	EFE-161609-HT	5,2	7,8	13,0	15,6	20,8	23,4	26,0	36,9
AR-162609P-HT	EFE-162609-HT	6,7	10,1	16,8	20,1	26,8	30,2	33,5	47,6
AR-163609P-HT	EFE-163609-HT	8,1	12,2	20,3	24,3	32,4	36,5	40,5	57,5
AR-165609P-HT	EFE-165609-HT	10,7	16,0	26,7	32,0	42,7	48,1	53,4	75,8
AQ-202017P-HT	EFE-202017-HT	9,0	13,5	22,4	26,9	35,9	40,4	44,9	63,7
AR-203017P-HT	EFE-203017-HT	10,4	15,7	26,1	31,3	41,7	47,0	52,2	74,0
AQ-252612P-HT	EFE-252612-HT	9,4	14,1	23,5	28,2	37,6	42,4	47,1	66,8
AQ-252616P-HT	EFE-252616-HT	10,4	15,6	26,0	31,1	41,5	46,7	51,9	73,7
AR-254012P-HT	EFE-254012-HT	11,4	17,1	28,5	34,2	45,7	51,4	57,1	81,0
AR-254016P-HT	EFE-254016-HT	13,1	19,6	32,7	39,3	52,4	58,9	65,5	92,9
AR-256012P-HT	EFE-256012-HT	14,5	21,8	36,3	43,6	58,1	65,3	72,6	103,0
AR-304020P-HT	EFE-304020-HT	16,2	24,2	40,4	48,5	64,7	72,7	80,8	114,7
AQ-363609P-HT	EFE-363609-HT	11,5	17,3	28,8	34,6	46,1	51,8	57,6	81,8
AR-406025P-HT	EFE-406025-HT	25,2	37,8	62,9	75,5	100,7	113,3	125,8	178,6
AQ-414012P-HT	EFE-414012-HT	14,6	21,8	36,4	43,7	58,2	65,5	72,8	103,0
AQ-414020P-HT	EFE-414020-HT	18,3	27,5	45,8	55,0	73,3	82,4	91,6	130,0

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Enclosure types (polyester)		Maximum power dissipation (W) – Tamb. up to **60**°C						
		INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)	INTERNAL TEMP.127°C (T4/T135°C)
AQ-080806P-HT	EFE-080806-HT	1,7	3,5	4,4	6,1	7,0	7,8	11,7
AQ-080808P-HT	EFE-080808-HT	2,3	4,6	5,7	8,0	9,1	10,2	15,2
AR-081106P-HT	EFE-081106-HT	2,1	4,3	5,3	7,5	8,5	9,6	14,3
AR-081108P-HT	EFE-081108-HT	2,8	5,6	7,0	9,8	11,2	12,6	18,7
AR-081606P-HT	EFE-081606-HT	2,9	5,8	7,2	10,1	11,6	13,0	19,4
AR-081608P-HT	EFE-081608-HT	3,4	6,8	8,5	11,9	13,7	15,4	22,9
AR-081906P-HT	EFE-081906-HT	3,2	6,4	8,0	11,2	12,8	14,4	21,4
AR-081908P-HT	EFE-081908-HT	3,8	7,5	9,4	13,2	15,1	17,0	25,3
AR-082306P-HT	EFE-082306-HT	3,6	7,2	9,0	12,6	14,4	16,2	24,1
AR-082308P-HT	EFE-082308-HT	4,2	8,5	10,6	14,8	16,9	19,0	28,3
AQ-121209P-HT	EFE-121209-HT	4,0	8,0	10,0	14,0	15,9	17,9	26,7
AR-122209P-HT	EFE-122209-HT	5,4	10,8	13,5	18,9	21,6	24,3	36,2
AQ-161609P-HT	EFE-161609-HT	5,2	10,4	13,0	18,2	20,8	23,4	34,8
AR-162609P-HT	EFE-162609-HT	6,7	13,4	16,8	23,5	26,8	30,2	44,9
AR-163609P-HT	EFE-163609-HT	8,1	16,2	20,3	28,4	32,4	36,5	54,2
AR-165609P-HT	EFE-165609-HT	10,7	21,4	26,7	37,4	42,7	48,1	71,5
AQ-202017P-HT	EFE-202017-HT	9,0	18,0	22,4	31,4	35,9	40,4	60,1
AR-203017P-HT	EFE-203017-HT	10,4	20,9	26,1	36,5	41,7	47,0	69,9
AQ-252612P-HT	EFE-252612-HT	9,4	18,8	23,5	32,9	37,6	42,4	63,0
AQ-252616P-HT	EFE-252616-HT	10,4	20,8	26,0	36,3	41,5	46,7	69,5
AR-254012P-HT	EFE-254012-HT	11,4	22,8	28,5	39,9	45,7	51,4	76,5
AR-254016P-HT	EFE-254016-HT	13,1	26,2	32,7	45,8	52,4	58,9	87,7
AR-256012P-HT	EFE-256012-HT	14,5	29,0	36,3	50,8	58,1	65,3	97,2
AR-304020P-HT	EFE-304020-HT	16,2	32,3	40,4	56,6	64,7	72,7	108,3
AQ-363609P-HT	EFE-363609-HT	11,5	23,0	28,8	40,3	46,1	51,8	77,1
AR-406025P-HT	EFE-406025-HT	25,2	50,3	62,9	88,1	100,7	113,3	168,7
AQ-414012P-HT	EFE-414012-HT	14,6	29,1	36,4	51,0	58,2	65,5	97,5
AQ-414020P-HT	EFE-414020-HT	18,3	36,6	45,8	64,1	73,3	82,4	122,7

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Enclosure types (polyester)		Maximum power dissipation (W) Tamb. up to **95**°C		
		INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)	INTERNAL TEMP.127°C (T4/T135°C)
AQ-080806P-HT	EFE-080806-HT	0,9	1,7	5,6
AQ-080808P-HT	EFE-080808-HT	1,1	2,3	7,3
AR-081106P-HT	EFE-081106-HT	1,1	2,1	6,5
AR-081108P-HT	EFE-081108-HT	1,4	2,8	9,0
AR-081606P-HT	EFE-081606-HT	1,4	2,9	9,2
AR-081608P-HT	EFE-081608-HT	1,7	3,4	10,9
AR-081906P-HT	EFE-081906-HT	1,6	3,2	10,2
AR-081908P-HT	EFE-081908-HT	1,9	3,8	12,1
AR-082306P-HT	EFE-082306-HT	1,8	3,6	11,5
AR-082308P-HT	EFE-082308-HT	2,1	4,2	13,5
AQ-121209P-HT	EFE-121209-HT	2,0	4,0	12,8
AR-122209P-HT	EFE-122209-HT	2,7	5,4	17,3
AQ-161609P-HT	EFE-161609-HT	2,6	5,2	16,6
AR-162609P-HT	EFE-162609-HT	3,4	6,7	21,5
AR-163609P-HT	EFE-163609-HT	4,1	8,1	26,0
AR-165609P-HT	EFE-165609-HT	5,3	10,7	34,2
AQ-202017P-HT	EFE-202017-HT	4,5	9,0	28,7
AR-203017P-HT	EFE-203017-HT	5,2	10,4	33,4
AQ-252612P-HT	EFE-252612-HT	4,7	9,4	30,1
AQ-252616P-HT	EFE-252616-HT	5,2	10,4	33,2
AR-254012P-HT	EFE-254012-HT	5,7	11,4	36,5
AR-254016P-HT	EFE-254016-HT	6,5	13,1	41,9
AR-256012P-HT	EFE-256012-HT	7,3	14,5	46,4
AR-304020P-HT	EFE-304020-HT	8,1	16,2	51,8
AQ-363609P-HT	EFE-363609-HT	5,8	11,5	36,8
AR-406025P-HT	EFE-406025-HT	12,6	25,2	80,6
AQ-414012P-HT	EFE-414012-HT	7,3	14,6	46,6
AQ-414020P-HT	EFE-414020-HT	9,2	18,3	58,6

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Power dissipation – HT aluminum alloy enclosures

Enclosure types (aluminium)		Maximum power dissipation (W) – Tamb. up to **40**°C							
		INTERNAL TEMP.60°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)	INTERNAL TEMP.130°C (T4/T135°C)
AQ-080806AL-HT	EFXE-080806AL-HT	5,2	7,8	10,4	11,7	14,3	15,6	16,9	23,4
AR-081306AL-HT	EFXE-081306AL-HT	7,0	10,6	14,1	15,9	19,4	21,2	23,0	31,8
AR-081806AL-HT	EFXE-081806AL-HT	8,9	13,3	17,8	20,0	24,5	26,7	28,9	40,0
AR-082505AL-HT	EFXE-082505AL-HT	10,9	16,4	21,9	24,7	30,1	32,9	35,6	49,4
AQ-101008AL-HT	EFXE-101008AL-HT	8,7	13,0	17,4	19,6	23,9	26,1	28,3	39,2
AR-101608AL-HT	EFXE-101608AL-HT	11,5	17,3	23,1	26,0	31,8	34,7	37,6	52,0
AR-102008AL-HT	EFXE-102008AL-HT	13,4	20,1	26,8	30,2	36,9	40,3	43,6	60,4
AQ-121208AL-HT	EFXE-121208AL-HT	10,8	16,2	21,6	24,3	29,7	32,4	35,1	48,6
AQ-121209AL-HT	EFXE-121209AL-HT	11,6	17,5	23,3	26,2	32,1	35,0	37,9	52,5
AR-122208AL-HT	EFXE-122208AL-HT	15,6	23,5	31,3	35,3	43,1	47,0	50,9	70,6
AR-122209AL-HT	EFXE-122209AL-HT	16,8	25,3	33,7	37,9	46,3	50,6	54,8	75,9
AR-123608AL-HT	EFXE-123608AL-HT	22,3	33,5	44,7	50,3	61,5	67,1	72,7	100,7
AQ-141409AL-HT	EFXE-141409AL-HT	13,7	20,6	27,5	31,0	37,9	41,3	44,8	62,0
AR-142009AL-HT	EFXE-142009AL-HT	17,1	25,7	34,2	38,5	47,1	51,4	55,7	77,1
AQ-161609AL-HT	EFXE-161609AL-HT	16,1	24,1	32,2	36,2	44,2	48,3	52,3	72,4
AR-162609AL-HT	EFXE-162609AL-HT	21,9	32,8	43,8	49,3	60,2	65,7	71,2	98,6
AR-163609AL-HT	EFXE-163609AL-HT	27,5	41,3	55,1	62,0	75,7	82,6	89,5	124,0
AR-165609AL-HT	EFXE-165609AL-HT	38,4	57,7	76,9	86,6	105,8	115,4	125,0	173,2
AQ-181810AL-HT	EFXE-181810AL-HT	19,7	29,6	39,5	44,4	54,3	59,2	64,2	88,8
AR-182810AL-HT	EFXE-182810AL-HT	26,1	39,1	52,2	58,7	71,8	78,3	84,8	117,5
AR-102311AL-HT	EFXE-102311AL-HT	18,2	27,3	36,5	41,0	50,1	54,7	59,3	82,1
AR-202311AL-HT	EFXE-202311AL-HT	26,1	39,1	52,2	58,7	71,7	78,3	84,8	117,4
AR-202318AL-HT	EFXE-202318AL-HT	35,9	53,9	71,8	80,8	98,8	107,8	116,8	161,7
AR-232811AL-HT	EFXE-232811AL-HT	31,6	47,5	63,3	71,3	87,1	95,0	103,0	142,6
AR-233311AL-HT	EFXE-233311AL-HT	35,3	52,9	70,6	79,4	97,0	105,9	114,7	158,8
AR-233318AL-HT	EFXE-233318AL-HT	47,5	71,3	95,1	107,0	130,8	142,7	154,6	214,1
AR-234011AL-HT	EFXE-234011AL-HT	40,2	60,4	80,5	90,6	110,7	120,8	130,9	181,2
AR-234023AL-HT	EFXE-234023AL-HT	62,2	93,3	124,5	140,0	171,2	186,7	202,3	280,1
AR-236011AL-HT	EFXE-236011AL-HT	54,1	81,2	108,3	121,9	148,9	162,5	176,0	243,8
AR-314011AL-HT	EFXE-314011AL-HT	48,6	72,9	97,2	109,3	133,6	145,8	157,9	218,7
AR-314014AL-HT	EFXE-314014AL-HT	54,9	82,4	109,9	123,7	151,2	164,9	178,7	247,4
AR-314018AL-HT	EFXE-314018AL-HT	63,8	95,7	127,6	143,5	175,4	191,4	207,3	287,1
AR-314023AL-HT	EFXE-314023AL-HT	73,5	110,3	147,1	165,5	202,3	220,7	239,1	331,0
AR-316011AL-HT	EFXE-316011AL-HT	64,0	96,0	128,1	144,1	176,1	192,1	208,1	288,2
AR-316018AL-HT	EFXE-316018AL-HT	82,7	124,1	165,5	186,2	227,6	248,3	268,9	372,4
AQ-606020AL-HT	EFXE-606020AL-HT	129,1	193,7	258,3	290,5	355,1	387,4	419,7	581,1

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Enclosure types (aluminium)		Maximum power dissipation (W) – Tamb. up to **50**°C							
		INTERNAL TEMP.60°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)	INTERNAL TEMP.130°C (T4/T135°C)
AQ-080806AL-HT	EFXE-080806AL-HT	2,6	5,2	7,8	9,1	11,7	13,0	14,3	20,8
AR-081306AL-HT	EFXE-081306AL-HT	3,5	7,0	10,6	12,3	15,9	17,7	19,4	28,3
AR-081806AL-HT	EFXE-081806AL-HT	4,4	8,9	13,3	15,5	20,0	22,2	24,5	35,6
AR-082505AL-HT	EFXE-082505AL-HT	5,4	10,9	16,4	19,2	24,7	27,4	30,1	43,9
AQ-101008AL-HT	EFXE-101008AL-HT	4,3	8,7	13,0	15,2	19,6	21,7	23,9	34,8
AR-101608AL-HT	EFXE-101608AL-HT	5,7	11,5	17,3	20,2	26,0	28,9	31,8	46,2
AR-102008AL-HT	EFXE-102008AL-HT	6,7	13,4	20,1	23,5	30,2	33,5	36,9	53,7
AQ-121208AL-HT	EFXE-121208AL-HT	5,4	10,8	16,2	18,9	24,3	27,0	29,7	43,2
AQ-121209AL-HT	EFXE-121209AL-HT	5,8	11,6	17,5	20,4	26,2	29,2	32,1	46,7
AR-122208AL-HT	EFXE-122208AL-HT	7,8	15,6	23,5	27,4	35,3	39,2	43,1	62,7
AR-122209AL-HT	EFXE-122209AL-HT	8,4	16,8	25,3	29,5	37,9	42,1	46,3	67,4
AR-123608AL-HT	EFXE-123608AL-HT	11,1	22,3	33,5	39,1	50,3	55,9	61,5	89,5
AQ-141409AL-HT	EFXE-141409AL-HT	6,8	13,7	20,6	24,1	31,0	34,4	37,9	55,1
AR-142009AL-HT	EFXE-142009AL-HT	8,5	17,1	25,7	30,0	38,5	42,8	47,1	68,5
AQ-161609AL-HT	EFXE-161609AL-HT	8,0	16,1	24,1	28,1	36,2	40,2	44,2	64,4
AR-162609AL-HT	EFXE-162609AL-HT	10,9	21,9	32,8	38,3	49,3	54,8	60,2	87,6
AR-163609AL-HT	EFXE-163609AL-HT	13,7	27,5	41,3	48,2	62,0	68,9	75,7	110,2
AR-165609AL-HT	EFXE-165609AL-HT	19,2	38,4	57,7	67,3	86,6	96,2	105,8	153,9
AQ-181810AL-HT	EFXE-181810AL-HT	9,8	19,7	29,6	34,5	44,4	49,3	54,3	79,0
AR-182810AL-HT	EFXE-182810AL-HT	13,0	26,1	39,1	45,7	58,7	65,2	71,8	104,4
AR-102311AL-HT	EFXE-102311AL-HT	9,1	18,2	27,3	31,9	41,0	45,6	50,1	73,0
AR-202311AL-HT	EFXE-202311AL-HT	13,0	26,1	39,1	45,6	58,7	65,2	71,7	104,4
AR-202318AL-HT	EFXE-202318AL-HT	17,9	35,9	53,9	62,8	80,8	89,8	98,8	143,7
AR-232811AL-HT	EFXE-232811AL-HT	15,8	31,6	47,5	55,4	71,3	79,2	87,1	126,7
AR-233311AL-HT	EFXE-233311AL-HT	17,6	35,3	52,9	61,7	79,4	88,2	97,0	141,2
AR-233318AL-HT	EFXE-233318AL-HT	23,7	47,5	71,3	83,2	107,0	118,9	130,8	190,3
AR-234011AL-HT	EFXE-234011AL-HT	20,1	40,2	60,4	70,5	90,6	100,7	110,7	161,1
AR-234023AL-HT	EFXE-234023AL-HT	31,1	62,2	93,3	108,9	140,0	155,6	171,2	249,0
AR-236011AL-HT	EFXE-236011AL-HT	27,0	54,1	81,2	94,8	121,9	135,4	148,9	216,7
AR-314011AL-HT	EFXE-314011AL-HT	24,3	48,6	72,9	85,0	109,3	121,5	133,6	194,4
AR-314014AL-HT	EFXE-314014AL-HT	27,4	54,9	82,4	96,2	123,7	137,4	151,2	219,9
AR-314018AL-HT	EFXE-314018AL-HT	31,9	63,8	95,7	111,6	143,5	159,5	175,4	255,2
AR-314023AL-HT	EFXE-314023AL-HT	36,7	73,5	110,3	128,7	165,5	183,9	202,3	294,2
AR-316011AL-HT	EFXE-316011AL-HT	32,0	64,0	96,0	112,0	144,1	160,1	176,1	256,2
AR-316018AL-HT	EFXE-316018AL-HT	41,3	82,7	124,1	144,8	186,2	206,9	227,6	331,0
AQ-606020AL-HT	EFXE-606020AL-HT	64,5	129,1	193,7	226,0	290,5	322,8	355,1	516,6

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Enclosure types (aluminium)		Maximum power dissipation (W) – Tamb. up to **55**°C							
		INTERNAL TEMP.65°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)	INTERNAL TEMP.130°C (T4/T135°C)
AQ-080806AL-HT	EFXE-080806AL-HT	2,6	3,9	6,5	7,8	10,4	11,7	13,0	19,5
AR-081306AL-HT	EFXE-081306AL-HT	3,5	5,3	8,8	10,6	14,1	15,9	17,7	26,5
AR-081806AL-HT	EFXE-081806AL-HT	4,4	6,6	11,1	13,3	17,8	20,0	22,2	33,4
AR-082505AL-HT	EFXE-082505AL-HT	5,4	8,2	13,7	16,4	21,9	24,7	27,4	41,1
AQ-101008AL-HT	EFXE-101008AL-HT	4,3	6,5	10,8	13,0	17,4	19,6	21,7	32,6
AR-101608AL-HT	EFXE-101608AL-HT	5,7	8,6	14,4	17,3	23,1	26,0	28,9	43,3
AR-102008AL-HT	EFXE-102008AL-HT	6,7	10,0	16,7	20,1	26,8	30,2	33,5	50,3
AQ-121208AL-HT	EFXE-121208AL-HT	5,4	8,1	13,5	16,2	21,6	24,3	27,0	40,5
AQ-121209AL-HT	EFXE-121209AL-HT	5,8	8,7	14,6	17,5	23,3	26,2	29,2	43,8
AR-122208AL-HT	EFXE-122208AL-HT	7,8	11,7	19,6	23,5	31,3	35,3	39,2	58,8
AR-122209AL-HT	EFXE-122209AL-HT	8,4	12,6	21,0	25,3	33,7	37,9	42,1	63,2
AR-123608AL-HT	EFXE-123608AL-HT	11,1	16,7	27,9	33,5	44,7	50,3	55,9	83,9
AQ-141409AL-HT	EFXE-141409AL-HT	6,8	10,3	17,2	20,6	27,5	31,0	34,4	51,7
AR-142009AL-HT	EFXE-142009AL-HT	8,5	12,8	21,4	25,7	34,2	38,5	42,8	64,3
AQ-161609AL-HT	EFXE-161609AL-HT	8,0	12,0	20,1	24,1	32,2	36,2	40,2	60,4
AR-162609AL-HT	EFXE-162609AL-HT	10,9	16,4	27,4	32,8	43,8	49,3	54,8	82,2
AR-163609AL-HT	EFXE-163609AL-HT	13,7	20,6	34,4	41,3	55,1	62,0	68,9	103,3
AR-165609AL-HT	EFXE-165609AL-HT	19,2	28,8	48,1	57,7	76,9	86,6	96,2	144,3
AQ-181810AL-HT	EFXE-181810AL-HT	9,8	14,8	24,6	29,6	39,5	44,4	49,3	74,0
AR-182810AL-HT	EFXE-182810AL-HT	13,0	19,5	32,6	39,1	52,2	58,7	65,2	97,9
AR-102311AL-HT	EFXE-102311AL-HT	9,1	13,6	22,8	27,3	36,5	41,0	45,6	68,4
AR-202311AL-HT	EFXE-202311AL-HT	13,0	19,5	32,6	39,1	52,2	58,7	65,2	97,9
AR-202318AL-HT	EFXE-202318AL-HT	17,9	26,9	44,9	53,9	71,8	80,8	89,8	134,7
AR-232811AL-HT	EFXE-232811AL-HT	15,8	23,7	39,6	47,5	63,3	71,3	79,2	118,8
AR-233311AL-HT	EFXE-233311AL-HT	17,6	26,4	44,1	52,9	70,6	79,4	88,2	132,3
AR-233318AL-HT	EFXE-233318AL-HT	23,7	35,6	59,4	71,3	95,1	107,0	118,9	178,4
AR-234011AL-HT	EFXE-234011AL-HT	20,1	30,2	50,3	60,4	80,5	90,6	100,7	151,0
AR-234023AL-HT	EFXE-234023AL-HT	31,1	46,6	77,8	93,3	124,5	140,0	155,6	233,4
AR-236011AL-HT	EFXE-236011AL-HT	27,0	40,6	67,7	81,2	108,3	121,9	135,4	203,1
AR-314011AL-HT	EFXE-314011AL-HT	24,3	36,4	60,7	72,9	97,2	109,3	121,5	182,3
AR-314014AL-HT	EFXE-314014AL-HT	27,4	41,2	68,7	82,4	109,9	123,7	137,4	206,2
AR-314018AL-HT	EFXE-314018AL-HT	31,9	47,8	79,7	95,7	127,6	143,5	159,5	239,2
AR-314023AL-HT	EFXE-314023AL-HT	36,7	55,1	91,9	110,3	147,1	165,5	183,9	275,8
AR-316011AL-HT	EFXE-316011AL-HT	32,0	48,0	80,0	96,0	128,1	144,1	160,1	240,1
AR-316018AL-HT	EFXE-316018AL-HT	41,3	62,0	103,4	124,1	165,5	186,2	206,9	310,3
AQ-606020AL-HT	EFXE-606020AL-HT	64,5	96,8	161,4	193,7	258,3	290,5	322,8	484,3

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Enclosure types (aluminium)		Maximum power dissipation (W) – Tamb. up to **60**°C						
		INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)	INTERNAL TEMP.130°C (T4/T135°C)
AQ-080806AL-HT	EFXE-080806AL-HT	2,6	5,2	6,5	9,1	10,4	11,7	18,2
AR-081306AL-HT	EFXE-081306AL-HT	3,5	7,0	8,8	12,3	14,1	15,9	24,7
AR-081806AL-HT	EFXE-081806AL-HT	4,4	8,9	11,1	15,5	17,8	20,0	31,1
AR-082505AL-HT	EFXE-082505AL-HT	5,4	10,9	13,7	19,2	21,9	24,7	38,4
AQ-101008AL-HT	EFXE-101008AL-HT	4,3	8,7	10,8	15,2	17,4	19,6	30,4
AR-101608AL-HT	EFXE-101608AL-HT	5,7	11,5	14,4	20,2	23,1	26,0	40,5
AR-102008AL-HT	EFXE-102008AL-HT	6,7	13,4	16,7	23,5	26,8	30,2	47,0
AQ-121208AL-HT	EFXE-121208AL-HT	5,4	10,8	13,5	18,9	21,6	24,3	37,8
AQ-121209AL-HT	EFXE-121209AL-HT	5,8	11,6	14,6	20,4	23,3	26,2	40,8
AR-122208AL-HT	EFXE-122208AL-HT	7,8	15,6	19,6	27,4	31,3	35,3	54,9
AR-122209AL-HT	EFXE-122209AL-HT	8,4	16,8	21,0	29,5	33,7	37,9	59,0
AR-123608AL-HT	EFXE-123608AL-HT	11,1	22,3	27,9	39,1	44,7	50,3	78,3
AQ-141409AL-HT	EFXE-141409AL-HT	6,8	13,7	17,2	24,1	27,5	31,0	48,2
AR-142009AL-HT	EFXE-142009AL-HT	8,5	17,1	21,4	30,0	34,2	38,5	60,0
AQ-161609AL-HT	EFXE-161609AL-HT	8,0	16,1	20,1	28,1	32,2	36,2	56,3
AR-162609AL-HT	EFXE-162609AL-HT	10,9	21,9	27,4	38,3	43,8	49,3	76,7
AR-163609AL-HT	EFXE-163609AL-HT	13,7	27,5	34,4	48,2	55,1	62,0	96,4
AR-165609AL-HT	EFXE-165609AL-HT	19,2	38,4	48,1	67,3	76,9	86,6	134,7
AQ-181810AL-HT	EFXE-181810AL-HT	9,8	19,7	24,6	34,5	39,5	44,4	69,1
AR-182810AL-HT	EFXE-182810AL-HT	13,0	26,1	32,6	45,7	52,2	58,7	91,4
AR-102311AL-HT	EFXE-102311AL-HT	9,1	18,2	22,8	31,9	36,5	41,0	63,8
AR-202311AL-HT	EFXE-202311AL-HT	13,0	26,1	32,6	45,6	52,2	58,7	91,3
AR-202318AL-HT	EFXE-202318AL-HT	17,9	35,9	44,9	62,8	71,8	80,8	125,7
AR-232811AL-HT	EFXE-232811AL-HT	15,8	31,6	39,6	55,4	63,3	71,3	110,9
AR-233311AL-HT	EFXE-233311AL-HT	17,6	35,3	44,1	61,7	70,6	79,4	123,5
AR-233318AL-HT	EFXE-233318AL-HT	23,7	47,5	59,4	83,2	95,1	107,0	166,5
AR-234011AL-HT	EFXE-234011AL-HT	20,1	40,2	50,3	70,5	80,5	90,6	141,0
AR-234023AL-HT	EFXE-234023AL-HT	31,1	62,2	77,8	108,9	124,5	140,0	217,9
AR-236011AL-HT	EFXE-236011AL-HT	27,0	54,1	67,7	94,8	108,3	121,9	189,6
AR-314011AL-HT	EFXE-314011AL-HT	24,3	48,6	60,7	85,0	97,2	109,3	170,1
AR-314014AL-HT	EFXE-314014AL-HT	27,4	54,9	68,7	96,2	109,9	123,7	192,4
AR-314018AL-HT	EFXE-314018AL-HT	31,9	63,8	79,7	111,6	127,6	143,5	223,3
AR-314023AL-HT	EFXE-314023AL-HT	36,7	73,5	91,9	128,7	147,1	165,5	257,4
AR-316011AL-HT	EFXE-316011AL-HT	32,0	64,0	80,0	112,0	128,1	144,1	224,1
AR-316018AL-HT	EFXE-316018AL-HT	41,3	82,7	103,4	144,8	165,5	186,2	289,6
AQ-606020AL-HT	EFXE-606020AL-HT	64,5	129,1	161,4	226,0	258,3	290,5	452,0

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Enclosure types (aluminium)		Maximum power dissipation (W) Tamb. up to **95**°C		
		INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)	INTERNAL TEMP.130°C (T4/T135°C)
AQ-080806AL-HT	EFXE-080806AL-HT	1,3	2,6	9,1
AR-081306AL-HT	EFXE-081306AL-HT	1,7	3,5	12,3
AR-081806AL-HT	EFXE-081806AL-HT	2,2	4,4	15,5
AR-082505AL-HT	EFXE-082505AL-HT	2,7	5,4	19,2
AQ-101008AL-HT	EFXE-101008AL-HT	2,1	4,3	15,2
AR-101608AL-HT	EFXE-101608AL-HT	2,8	5,7	20,2
AR-102008AL-HT	EFXE-102008AL-HT	3,3	6,7	23,5
AQ-121208AL-HT	EFXE-121208AL-HT	2,7	5,4	18,9
AQ-121209AL-HT	EFXE-121209AL-HT	2,9	5,8	20,4
AR-122208AL-HT	EFXE-122208AL-HT	3,9	7,8	27,4
AR-122209AL-HT	EFXE-122209AL-HT	4,2	8,4	29,5
AR-123608AL-HT	EFXE-123608AL-HT	5,5	11,1	39,1
AQ-141409AL-HT	EFXE-141409AL-HT	3,4	6,8	24,1
AR-142009AL-HT	EFXE-142009AL-HT	4,2	8,5	30,0
AQ-161609AL-HT	EFXE-161609AL-HT	4,0	8,0	28,1
AR-162609AL-HT	EFXE-162609AL-HT	5,4	10,9	38,3
AR-163609AL-HT	EFXE-163609AL-HT	6,8	13,7	48,2
AR-165609AL-HT	EFXE-165609AL-HT	9,6	19,2	67,3
AQ-181810AL-HT	EFXE-181810AL-HT	4,9	9,8	34,5
AR-182810AL-HT	EFXE-182810AL-HT	6,5	13,0	45,7
AR-102311AL-HT	EFXE-102311AL-HT	4,5	9,1	31,9
AR-202311AL-HT	EFXE-202311AL-HT	6,5	13,0	45,6
AR-202318AL-HT	EFXE-202318AL-HT	8,9	17,9	62,8
AR-232811AL-HT	EFXE-232811AL-HT	7,9	15,8	55,4
AR-233311AL-HT	EFXE-233311AL-HT	8,8	17,6	61,7
AR-233318AL-HT	EFXE-233318AL-HT	11,8	23,7	83,2
AR-234011AL-HT	EFXE-234011AL-HT	10,0	20,1	70,5
AR-234023AL-HT	EFXE-234023AL-HT	15,5	31,1	108,9
AR-236011AL-HT	EFXE-236011AL-HT	13,5	27,0	94,8
AR-314011AL-HT	EFXE-314011AL-HT	12,1	24,3	85,0
AR-314014AL-HT	EFXE-314014AL-HT	13,7	27,4	96,2
AR-314018AL-HT	EFXE-314018AL-HT	15,9	31,9	111,6
AR-314023AL-HT	EFXE-314023AL-HT	18,3	36,7	128,7
AR-316011AL-HT	EFXE-316011AL-HT	16,0	32,0	112,0
AR-316018AL-HT	EFXE-316018AL-HT	20,6	41,3	144,8
AQ-606020AL-HT	EFXE-606020AL-HT	32,2	64,5	226,0

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Power dissipation – Glass fiber reinforced polyester resin enclosures

Enclosure types (polyester)		Maximum power dissipation (W) – Tamb. up to **40**°C						
		INTERNAL TEMP.60°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
AQ-080806P	EFE-080806	3,4	5,2	6,9	7,8	9,5	10,4	11,3
AQ-080808P	EFE-080808	4,5	6,8	9,1	10,2	12,5	13,6	14,7
AR-081106P	EFE-081106	4,2	6,4	8,5	9,6	11,7	12,8	13,8
AR-081606P	EFE-081606	5,7	8,6	11,5	13,0	15,9	17,3	18,8
AR-081906P	EFE-081906	6,4	9,6	12,8	14,4	17,6	19,2	20,8
AQ-121209P	EFE-121209	7,9	11,9	15,9	17,9	21,9	23,9	25,9
AR-122209P	EFE-122209	10,8	16,2	21,6	24,3	29,7	32,4	35,1
AQ-161609P	EFE-161609	10,3	15,5	20,7	23,3	28,5	31,1	33,7
AR-162609P	EFE-162609	13,4	20,1	26,8	30,1	36,8	40,2	43,5
AR-163609P	EFE-163609	16,2	24,3	32,4	36,4	44,5	48,6	52,6
AQ-252612P	EFE-252612	18,8	28,2	37,6	42,3	51,7	56,4	61,1
AQ-252616P	EFE-252616	21,7	32,6	43,5	49,0	59,9	65,3	70,8
AR-254012P	EFE-254012	23,9	35,9	47,9	53,9	65,9	71,8	77,8
AR-254016P	EFE-254016	27,4	41,2	54,9	61,8	75,6	82,4	89,3
AR-256012P	EFE-256012	29,0	43,5	58,0	65,3	79,8	87,1	94,3
AQ-414012P	EFE-414012	29,1	43,6	58,2	65,5	80,0	87,3	94,6
AQ-414016P	EFE-414016	32,9	49,4	65,9	74,1	90,6	98,8	107,0

Enclosure types (polyester)		Maximum power dissipation (W) – Tamb. up to **50**°C						
		INTERNAL TEMP.60°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
AQ-080806P	EFE-080806	1,7	3,4	5,2	6,0	7,8	8,7	9,5
AQ-080808P	EFE-080808	2,2	4,5	6,8	7,9	10,2	11,3	12,5
AR-081106P	EFE-081106	2,1	4,2	6,4	7,4	9,6	10,6	11,7
AR-081606P	EFE-081606	2,8	5,7	8,6	10,1	13,0	14,4	15,9
AR-081906P	EFE-081906	3,2	6,4	9,6	11,2	14,4	16,0	17,6
AQ-121209P	EFE-121209	3,9	7,9	11,9	13,9	17,9	19,9	21,9
AR-122209P	EFE-122209	5,4	10,8	16,2	18,9	24,3	27,0	29,7
AQ-161609P	EFE-161609	5,1	10,3	15,5	18,1	23,3	25,9	28,5
AR-162609P	EFE-162609	6,7	13,4	20,1	23,4	30,1	33,5	36,8
AR-163609P	EFE-163609	8,1	16,2	24,3	28,3	36,4	40,5	44,5
AQ-252612P	EFE-252612	9,4	18,8	28,2	32,9	42,3	47,0	51,7
AQ-252616P	EFE-252616	10,8	21,7	32,6	38,1	49,0	54,4	59,9
AR-254012P	EFE-254012	11,9	23,9	35,9	41,9	53,9	59,9	65,9
AR-254016P	EFE-254016	13,7	27,4	41,2	48,1	61,8	68,7	75,6
AR-256012P	EFE-256012	14,5	29,0	43,5	50,8	65,3	72,6	79,8
AQ-414012P	EFE-414012	14,5	29,1	43,6	50,9	65,5	72,7	80,0
AQ-414016P	EFE-414016	16,4	32,9	49,4	57,6	74,1	82,3	90,6

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Enclosure types (polyester)		Maximum power dissipation (W) – Tamb. up to **55**°C						
		INTERNAL TEMP.65°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
AQ-080806P	EFE-080806	1,7	2,6	4,3	5,2	6,9	7,8	8,7
AQ-080808P	EFE-080808	2,2	3,4	5,6	6,8	9,1	10,2	11,3
AR-081106P	EFE-081106	2,1	3,2	5,3	6,4	8,5	9,6	10,6
AR-081606P	EFE-081606	2,8	4,3	7,2	8,6	11,5	13,0	14,4
AR-081906P	EFE-081906	3,2	4,8	8,0	9,6	12,8	14,4	16,0
AQ-121209P	EFE-121209	3,9	5,9	9,9	11,9	15,9	17,9	19,9
AR-122209P	EFE-122209	5,4	8,1	13,5	16,2	21,6	24,3	27,0
AQ-161609P	EFE-161609	5,1	7,7	12,9	15,5	20,7	23,3	25,9
AR-162609P	EFE-162609	6,7	10,0	16,7	20,1	26,8	30,1	33,5
AR-163609P	EFE-163609	8,1	12,1	20,2	24,3	32,4	36,4	40,5
AQ-252612P	EFE-252612	9,4	14,1	23,5	28,2	37,6	42,3	47,0
AQ-252616P	EFE-252616	10,8	16,3	27,2	32,6	43,5	49,0	54,4
AR-254012P	EFE-254012	11,9	17,9	29,9	35,9	47,9	53,9	59,9
AR-254016P	EFE-254016	13,7	20,6	34,3	41,2	54,9	61,8	68,7
AR-256012P	EFE-256012	14,5	21,7	36,3	43,5	58,0	65,3	72,6
AQ-414012P	EFE-414012	14,5	21,8	36,3	43,6	58,2	65,5	72,7
AQ-414016P	EFE-414016	16,4	24,7	41,1	49,4	65,9	74,1	82,3

Enclosure types (polyester)		Maximum power dissipation (W) – Tamb. up to **60**°C					
		INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
AQ-080806P	EFE-080806	1,7	3,4	4,3	6,0	6,9	7,8
AQ-080808P	EFE-080808	2,2	4,5	5,6	7,9	9,1	10,2
AR-081106P	EFE-081106	2,1	4,2	5,3	7,4	8,5	9,6
AR-081606P	EFE-081606	2,8	5,7	7,2	10,1	11,5	13,0
AR-081906P	EFE-081906	3,2	6,4	8,0	11,2	12,8	14,4
AQ-121209P	EFE-121209	3,9	7,9	9,9	13,9	15,9	17,9
AR-122209P	EFE-122209	5,4	10,8	13,5	18,9	21,6	24,3
AQ-161609P	EFE-161609	5,1	10,3	12,9	18,1	20,7	23,3
AR-162609P	EFE-162609	6,7	13,4	16,7	23,4	26,8	30,1
AR-163609P	EFE-163609	8,1	16,2	20,2	28,3	32,4	36,4
AQ-252612P	EFE-252612	9,4	18,8	23,5	32,9	37,6	42,3
AQ-252616P	EFE-252616	10,8	21,7	27,2	38,1	43,5	49,0
AR-254012P	EFE-254012	11,9	23,9	29,9	41,9	47,9	53,9
AR-254016P	EFE-254016	13,7	27,4	34,3	48,1	54,9	61,8
AR-256012P	EFE-256012	14,5	29,0	36,3	50,8	58,0	65,3
AQ-414012P	EFE-414012	14,5	29,1	36,3	50,9	58,2	65,5
AQ-414016P	EFE-414016	16,4	32,9	41,1	57,6	65,9	74,1

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Enclosure types (polyester)		Maximum power dissipation (W) – Tamb. up to **95**°C	
		INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
AQ-080806P	EFE-080806	0,8	1,7
AQ-080808P	EFE-080808	1,1	2,2
AR-081106P	EFE-081106	1,0	2,1
AR-081606P	EFE-081606	1,4	2,8
AR-081906P	EFE-081906	1,6	3,2
AQ-121209P	EFE-121209	1,9	3,9
AR-122209P	EFE-122209	2,7	5,4
AQ-161609P	EFE-161609	2,5	5,1
AR-162609P	EFE-162609	3,3	6,7
AR-163609P	EFE-163609	4,0	8,1
AQ-252612P	EFE-252612	4,7	9,4
AQ-252616P	EFE-252616	5,4	10,8
AR-254012P	EFE-254012	5,9	11,9
AR-254016P	EFE-254016	6,8	13,7
AR-256012P	EFE-256012	7,2	14,5
AQ-414012P	EFE-414012	7,2	14,5
AQ-414016P	EFE-414016	8,2	16,4

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Power dissipation – Aluminum alloy enclosures

Enclosure types (aluminium)		Maximum power dissipation (W) – Tamb. up to **40**°C						
		INTERNAL TEMP.60°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
AQ-080806AL	EFXE-080806AL	5,2	7,8	10,4	11,7	14,3	15,6	16,9
AR-081306AL	EFXE-081306AL	7,0	10,6	14,1	15,9	19,4	21,2	23,0
AR-081806AL	EFXE-081806AL	8,9	13,3	17,8	20,0	24,5	26,7	28,9
AR-081808AL	EFXE-081808AL	11,0	16,5	22,1	24,8	30,4	33,1	35,9
AR-082505AL	EFXE-082505AL	10,7	16,1	21,4	24,1	29,5	32,2	34,8
AR-082508AL	EFXE-082508AL	14,2	21,4	28,5	32,1	39,2	42,8	46,4
AQ-101008AL	EFXE-101008AL	8,7	13,0	17,4	19,6	23,9	26,1	28,3
AR-101508AL	EFXE-101508AL	11,1	16,6	22,2	24,9	30,5	33,3	36,0
AR-101608AL	EFXE-101608AL	11,5	17,3	23,1	26,0	31,8	34,7	37,6
AR-102008AL	EFXE-102008AL	13,4	20,1	26,8	30,2	36,9	40,3	43,6
AQ-121208AL	EFXE-121208AL	10,8	16,2	21,6	24,3	29,7	32,4	35,1
AR-122209AL	EFXE-122209AL	16,8	25,3	33,7	37,9	46,3	50,6	54,8
AQ-141409AL	EFXE-141409AL	13,7	20,6	27,5	31,0	37,9	41,3	44,8
AR-142009AL	EFXE-142009AL	17,1	25,7	34,2	38,5	47,1	51,4	55,7
AQ-161609AL	EFXE-161609AL	17,2	25,8	34,4	38,7	47,3	51,6	55,9
AR-162410AL	EFXE-162410AL	22,1	33,1	44,2	49,7	60,8	66,3	71,8
AR-162609AL	EFXE-162609AL	21,9	32,8	43,8	49,3	60,2	65,7	71,2
AQ-181810AL	EFXE-181810AL	19,7	29,6	39,5	44,4	54,3	59,2	64,2
AR-182810AL	EFXE-182810AL	26,1	39,1	52,2	58,7	71,8	78,3	84,8
AR-202311AL	EFXE-202311AL	25,8	38,7	51,6	58,0	71,0	77,4	83,9
AR-202318AL	EFXE-202318AL	35,5	53,3	71,1	80,0	97,8	106,7	115,6
AR-232811AL	EFXE-232811AL	31,6	47,5	63,3	71,3	87,1	95,0	103,0
AR-233312AL	EFXE-233312AL	37,0	55,6	74,1	83,4	101,9	111,2	120,5
AR-233318AL	EFXE-233318AL	47,5	71,3	95,1	107,0	130,8	142,7	154,6

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Enclosure types (aluminium)		Maximum power dissipation (W) – Tamb. up to **50**°C						
		INTERNAL TEMP.60°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
AQ-080806AL	EFXE-080806AL	2,6	5,2	7,8	9,1	11,7	13,0	14,3
AR-081306AL	EFXE-081306AL	3,5	7,0	10,6	12,3	15,9	17,7	19,4
AR-081806AL	EFXE-081806AL	4,4	8,9	13,3	15,5	20,0	22,2	24,5
AR-081808AL	EFXE-081808AL	5,5	11,0	16,5	19,3	24,8	27,6	30,4
AR-082505AL	EFXE-082505AL	5,3	10,7	16,1	18,7	24,1	26,8	29,5
AR-082508AL	EFXE-082508AL	7,1	14,2	21,4	24,9	32,1	35,7	39,2
AQ-101008AL	EFXE-101008AL	4,3	8,7	13,0	15,2	19,6	21,7	23,9
AR-101508AL	EFXE-101508AL	5,5	11,1	16,6	19,4	24,9	27,7	30,5
AR-101608AL	EFXE-101608AL	5,7	11,5	17,3	20,2	26,0	28,9	31,8
AR-102008AL	EFXE-102008AL	6,7	13,4	20,1	23,5	30,2	33,5	36,9
AQ-121208AL	EFXE-121208AL	5,4	10,8	16,2	18,9	24,3	27,0	29,7
AR-122209AL	EFXE-122209AL	8,4	16,8	25,3	29,5	37,9	42,1	46,3
AQ-141409AL	EFXE-141409AL	6,8	13,7	20,6	24,1	31,0	34,4	37,9
AR-142009AL	EFXE-142009AL	8,5	17,1	25,7	30,0	38,5	42,8	47,1
AQ-161609AL	EFXE-161609AL	8,6	17,2	25,8	30,1	38,7	43,0	47,3
AR-162410AL	EFXE-162410AL	11,0	22,1	33,1	38,7	49,7	55,3	60,8
AR-162609AL	EFXE-162609AL	10,9	21,9	32,8	38,3	49,3	54,8	60,2
AQ-181810AL	EFXE-181810AL	9,8	19,7	29,6	34,5	44,4	49,3	54,3
AR-182810AL	EFXE-182810AL	13,0	26,1	39,1	45,7	58,7	65,2	71,8
AR-202311AL	EFXE-202311AL	12,9	25,8	38,7	45,1	58,0	64,5	71,0
AR-202318AL	EFXE-202318AL	17,7	35,5	53,3	62,2	80,0	88,9	97,8
AR-232811AL	EFXE-232811AL	15,8	31,6	47,5	55,4	71,3	79,2	87,1
AR-233312AL	EFXE-233312AL	18,5	37,0	55,6	64,8	83,4	92,7	101,9
AR-233318AL	EFXE-233318AL	23,7	47,5	71,3	83,2	107,0	118,9	130,8

Enclosure types (aluminium)		Maximum power dissipation (W) – Tamb. up to **55**°C						
		INTERNAL TEMP.65°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
AQ-080806AL	EFXE-080806AL	2,6	3,9	6,5	7,8	10,4	11,7	13,0
AR-081306AL	EFXE-081306AL	3,5	5,3	8,8	10,6	14,1	15,9	17,7
AR-081806AL	EFXE-081806AL	4,4	6,6	11,1	13,3	17,8	20,0	22,2
AR-081808AL	EFXE-081808AL	5,5	8,2	13,8	16,5	22,1	24,8	27,6
AR-082505AL	EFXE-082505AL	5,3	8,0	13,4	16,1	21,4	24,1	26,8
AR-082508AL	EFXE-082508AL	7,1	10,7	17,8	21,4	28,5	32,1	35,7
AQ-101008AL	EFXE-101008AL	4,3	6,5	10,8	13,0	17,4	19,6	21,7
AR-101508AL	EFXE-101508AL	5,5	8,3	13,8	16,6	22,2	24,9	27,7
AR-101608AL	EFXE-101608AL	5,7	8,6	14,4	17,3	23,1	26,0	28,9
AR-102008AL	EFXE-102008AL	6,7	10,0	16,7	20,1	26,8	30,2	33,5
AQ-121208AL	EFXE-121208AL	5,4	8,1	13,5	16,2	21,6	24,3	27,0
AR-122209AL	EFXE-122209AL	8,4	12,6	21,0	25,3	33,7	37,9	42,1
AQ-141409AL	EFXE-141409AL	6,8	10,3	17,2	20,6	27,5	31,0	34,4
AR-142009AL	EFXE-142009AL	8,5	12,8	21,4	25,7	34,2	38,5	42,8
AQ-161609AL	EFXE-161609AL	8,6	12,9	21,5	25,8	34,4	38,7	43,0
AR-162410AL	EFXE-162410AL	11,0	16,5	27,6	33,1	44,2	49,7	55,3
AR-162609AL	EFXE-162609AL	10,9	16,4	27,4	32,8	43,8	49,3	54,8
AQ-181810AL	EFXE-181810AL	9,8	14,8	24,6	29,6	39,5	44,4	49,3
AR-182810AL	EFXE-182810AL	13,0	19,5	32,6	39,1	52,2	58,7	65,2
AR-202311AL	EFXE-202311AL	12,9	19,3	32,2	38,7	51,6	58,0	64,5
AR-202318AL	EFXE-202318AL	17,7	26,6	44,4	53,3	71,1	80,0	88,9
AR-232811AL	EFXE-232811AL	15,8	23,7	39,6	47,5	63,3	71,3	79,2
AR-233312AL	EFXE-233312AL	18,5	27,8	46,3	55,6	74,1	83,4	92,7
AR-233318AL	EFXE-233318AL	23,7	35,6	59,4	71,3	95,1	107,0	118,9

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Enclosure types (aluminium)		Maximum power dissipation (W) – Tamb. up to **60**°C					
		INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
AQ-080806AL	EFXE-080806AL	2,6	5,2	6,5	9,1	10,4	11,7
AR-081306AL	EFXE-081306AL	3,5	7,0	8,8	12,3	14,1	15,9
AR-081806AL	EFXE-081806AL	4,4	8,9	11,1	15,5	17,8	20,0
AR-081808AL	EFXE-081808AL	5,5	11,0	13,8	19,3	22,1	24,8
AR-082505AL	EFXE-082505AL	5,3	10,7	13,4	18,7	21,4	24,1
AR-082508AL	EFXE-082508AL	7,1	14,2	17,8	24,9	28,5	32,1
AQ-101008AL	EFXE-101008AL	4,3	8,7	10,8	15,2	17,4	19,6
AR-101508AL	EFXE-101508AL	5,5	11,1	13,8	19,4	22,2	24,9
AR-101608AL	EFXE-101608AL	5,7	11,5	14,4	20,2	23,1	26,0
AR-102008AL	EFXE-102008AL	6,7	13,4	16,7	23,5	26,8	30,2
AQ-121208AL	EFXE-121208AL	5,4	10,8	13,5	18,9	21,6	24,3
AR-122209AL	EFXE-122209AL	8,4	16,8	21,0	29,5	33,7	37,9
AQ-141409AL	EFXE-141409AL	6,8	13,7	17,2	24,1	27,5	31,0
AR-142009AL	EFXE-142009AL	8,5	17,1	21,4	30,0	34,2	38,5
AQ-161609AL	EFXE-161609AL	8,6	17,2	21,5	30,1	34,4	38,7
AR-162410AL	EFXE-162410AL	11,0	22,1	27,6	38,7	44,2	49,7
AR-162609AL	EFXE-162609AL	10,9	21,9	27,4	38,3	43,8	49,3
AQ-181810AL	EFXE-181810AL	9,8	19,7	24,6	34,5	39,5	44,4
AR-182810AL	EFXE-182810AL	13,0	26,1	32,6	45,7	52,2	58,7
AR-202311AL	EFXE-202311AL	12,9	25,8	32,2	45,1	51,6	58,0
AR-202318AL	EFXE-202318AL	17,7	35,5	44,4	62,2	71,1	80,0
AR-232811AL	EFXE-232811AL	15,8	31,6	39,6	55,4	63,3	71,3
AR-233312AL	EFXE-233312AL	18,5	37,0	46,3	64,8	74,1	83,4
AR-233318AL	EFXE-233318AL	23,7	47,5	59,4	83,2	95,1	107,0

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Enclosure types (aluminium)		Maximum power dissipation (W) – Tamb. up to **95**°C	
		INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
AQ-080806AL	EFXE-080806AL	1,3	2,6
AR-081306AL	EFXE-081306AL	1,7	3,5
AR-081806AL	EFXE-081806AL	2,2	4,4
AR-081808AL	EFXE-081808AL	2,7	5,5
AR-082505AL	EFXE-082505AL	2,6	5,3
AR-082508AL	EFXE-082508AL	3,5	7,1
AQ-101008AL	EFXE-101008AL	2,1	4,3
AR-101508AL	EFXE-101508AL	2,7	5,5
AR-101608AL	EFXE-101608AL	2,8	5,7
AR-102008AL	EFXE-102008AL	3,3	6,7
AQ-121208AL	EFXE-121208AL	2,7	5,4
AR-122209AL	EFXE-122209AL	4,2	8,4
AQ-141409AL	EFXE-141409AL	3,4	6,8
AR-142009AL	EFXE-142009AL	4,2	8,5
AQ-161609AL	EFXE-161609AL	4,3	8,6
AR-162410AL	EFXE-162410AL	5,5	11,0
AR-162609AL	EFXE-162609AL	5,4	10,9
AQ-181810AL	EFXE-181810AL	4,9	9,8
AR-182810AL	EFXE-182810AL	6,5	13,0
AR-202311AL	EFXE-202311AL	6,4	12,9
AR-202318AL	EFXE-202318AL	8,8	17,7
AR-232811AL	EFXE-232811AL	7,9	15,8
AR-233312AL	EFXE-233312AL	9,2	18,5
AR-233318AL	EFXE-233318AL	11,8	23,7

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Power dissipation – Stainless steel enclosures SB series

Enclosure types (stainless steel)		Maximum power dissipation (W) – Tamb. up to **40**°C						
		INTERNAL TEMP.60°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
SB-101210	EFXE-101210SB	5,5	8,3	11,1	12,5	15,3	16,7	18,1
SB-151510	EFXE-151510SB	8,0	12,0	16,0	18,0	22,0	24,0	26,1
SB-142013	EFXE-142013SB	10,4	15,7	20,9	23,5	28,8	31,4	34,0
SB-202010	EFXE-202010SB	10,7	16,1	21,4	24,1	29,5	32,2	34,8
SB-202016	EFXE-202016SB	13,9	20,8	27,8	31,3	38,3	41,7	45,2
SB-202713	EFXE-202713SB	14,4	21,6	28,9	32,5	39,7	43,3	46,9
SB-272713	EFXE-272713SB	16,7	25,1	33,5	37,7	46,0	50,2	54,4
SB-203016	EFXE-203016SB	17,1	25,7	34,3	38,6	47,2	51,4	55,7
SB-273513	EFXE-273513SB	19,2	28,9	38,5	43,3	53,0	57,8	62,6
SB-282816	EFXE-282816SB	19,3	29,0	38,7	43,6	53,3	58,1	63,0
SB-204016	EFXE-204016SB	20,2	30,3	40,4	45,5	55,6	60,6	65,7
SB-353516	EFXE-353516SB	24,4	36,6	48,8	54,9	67,1	73,2	79,3
SB-282827	EFXE-282827SB	26,2	39,3	52,5	59,0	72,2	78,7	85,3
SB-355016	EFXE-355016SB	29,7	44,5	59,4	66,8	81,7	89,1	96,6
SB-383816	EFXE-383816SB	26,6	39,9	53,2	59,8	73,1	79,8	86,5
SB-384516	EFXE-384516SB	29,1	43,7	58,3	65,6	80,2	87,5	94,8
SB-385716	EFXE-385716SB	33,4	50,1	66,8	75,2	91,9	100,3	108,7
SB-505016	EFXE-505016SB	35,8	53,8	71,7	80,7	98,6	107,6	116,6
SB-383827	EFXE-383827SB	35,1	52,7	70,2	79,0	96,6	105,4	114,2
SB-575716	EFXE-575716SB	41,5	62,3	83,1	93,5	114,3	124,7	135,1
SB-577620	EFXE-577620SB	53,9	80,9	107,9	121,3	148,3	161,8	175,3
SB-575730	EFXE-575730SB	55,8	83,7	111,6	125,6	153,5	167,5	181,4
SB-769520	EFXE-769520SB	72,2	108,3	144,4	162,4	198,5	216,6	234,6
SB-1258040	EFXE-1258040SB	72,2	108,3	144,4	162,4	198,5	216,6	234,6

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Enclosure types (Stainless steel)		Maximum power dissipation (W) – Tamb. up to **50**°C						
		INTERNAL TEMP.60°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
SB-101210	EFXE-101210SB	2,7	5,5	8,3	9,7	12,5	13,9	15,3
SB-151510	EFXE-151510SB	4,0	8,0	12,0	14,0	18,0	20,0	22,0
SB-142013	EFXE-142013SB	5,2	10,4	15,7	18,3	23,5	26,2	28,8
SB-202010	EFXE-202010SB	5,3	10,7	16,1	18,7	24,1	26,8	29,5
SB-202016	EFXE-202016SB	6,9	13,9	20,8	24,3	31,3	34,8	38,3
SB-202713	EFXE-202713SB	7,2	14,4	21,6	25,2	32,5	36,1	39,7
SB-272713	EFXE-272713SB	8,3	16,7	25,1	29,3	37,7	41,8	46,0
SB-203016	EFXE-203016SB	8,5	17,1	25,7	30,0	38,6	42,9	47,2
SB-273513	EFXE-273513SB	9,6	19,2	28,9	33,7	43,3	48,2	53,0
SB-282816	EFXE-282816SB	9,6	19,3	29,0	33,9	43,6	48,4	53,3
SB-204016	EFXE-204016SB	10,1	20,2	30,3	35,4	45,5	50,5	55,6
SB-353516	EFXE-353516SB	12,2	24,4	36,6	42,7	54,9	61,0	67,1
SB-282827	EFXE-282827SB	13,1	26,2	39,3	45,9	59,0	65,6	72,2
SB-355016	EFXE-355016SB	14,8	29,7	44,5	52,0	66,8	74,3	81,7
SB-383816	EFXE-383816SB	13,3	26,6	39,9	46,5	59,8	66,5	73,1
SB-384516	EFXE-384516SB	14,5	29,1	43,7	51,0	65,6	72,9	80,2
SB-385716	EFXE-385716SB	16,7	33,4	50,1	58,5	75,2	83,6	91,9
SB-505016	EFXE-505016SB	17,9	35,8	53,8	62,7	80,7	89,7	98,6
SB-383827	EFXE-383827SB	17,5	35,1	52,7	61,4	79,0	87,8	96,6
SB-575716	EFXE-575716SB	20,7	41,5	62,3	72,7	93,5	103,9	114,3
SB-577620	EFXE-577620SB	26,9	53,9	80,9	94,4	121,3	134,8	148,3
SB-575730	EFXE-575730SB	27,9	55,8	83,7	97,7	125,6	139,5	153,5
SB-769520	EFXE-769520SB	36,1	72,2	108,3	126,3	162,4	180,5	198,5
SB-1258040	EFXE-1258040SB	36,1	72,2	108,3	126,3	162,4	180,5	198,5

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Enclosure types (Stainless steel)		Maximum power dissipation (W) – Tamb. up to **55**°C						
		INTERNAL TEMP.65°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
SB-101210	EFXE-101210SB	2,7	4,1	6,9	8,3	11,1	12,5	13,9
SB-151510	EFXE-151510SB	4,0	6,0	10,0	12,0	16,0	18,0	20,0
SB-142013	EFXE-142013SB	5,2	7,8	13,1	15,7	20,9	23,5	26,2
SB-202010	EFXE-202010SB	5,3	8,0	13,4	16,1	21,4	24,1	26,8
SB-202016	EFXE-202016SB	6,9	10,4	17,4	20,8	27,8	31,3	34,8
SB-202713	EFXE-202713SB	7,2	10,8	18,0	21,6	28,9	32,5	36,1
SB-272713	EFXE-272713SB	8,3	12,5	20,9	25,1	33,5	37,7	41,8
SB-203016	EFXE-203016SB	8,5	12,8	21,4	25,7	34,3	38,6	42,9
SB-273513	EFXE-273513SB	9,6	14,4	24,1	28,9	38,5	43,3	48,2
SB-282816	EFXE-282816SB	9,6	14,5	24,2	29,0	38,7	43,6	48,4
SB-204016	EFXE-204016SB	10,1	15,1	25,2	30,3	40,4	45,5	50,5
SB-353516	EFXE-353516SB	12,2	18,3	30,5	36,6	48,8	54,9	61,0
SB-282827	EFXE-282827SB	13,1	19,6	32,8	39,3	52,5	59,0	65,6
SB-355016	EFXE-355016SB	14,8	22,2	37,1	44,5	59,4	66,8	74,3
SB-383816	EFXE-383816SB	13,3	19,9	33,2	39,9	53,2	59,8	66,5
SB-384516	EFXE-384516SB	14,5	21,8	36,4	43,7	58,3	65,6	72,9
SB-385716	EFXE-385716SB	16,7	25,0	41,8	50,1	66,8	75,2	83,6
SB-505016	EFXE-505016SB	17,9	26,9	44,8	53,8	71,7	80,7	89,7
SB-383827	EFXE-383827SB	17,5	26,3	43,9	52,7	70,2	79,0	87,8
SB-575716	EFXE-575716SB	20,7	31,1	51,9	62,3	83,1	93,5	103,9
SB-577620	EFXE-577620SB	26,9	40,4	67,4	80,9	107,9	121,3	134,8
SB-575730	EFXE-575730SB	27,9	41,8	69,7	83,7	111,6	125,6	139,5
SB-769520	EFXE-769520SB	36,1	54,1	90,2	108,3	144,4	162,4	180,5
SB-1258040	EFXE-1258040SB	36,1	54,1	90,2	108,3	144,4	162,4	180,5

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Enclosure types (Stainless steel)		Maximum power dissipation (W) – Tamb. up to **60**°C					
		INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
SB-101210	EFXE-101210SB	2,7	5,5	6,9	9,7	11,1	12,5
SB-151510	EFXE-151510SB	4,0	8,0	10,0	14,0	16,0	18,0
SB-142013	EFXE-142013SB	5,2	10,4	13,1	18,3	20,9	23,5
SB-202010	EFXE-202010SB	5,3	10,7	13,4	18,7	21,4	24,1
SB-202016	EFXE-202016SB	6,9	13,9	17,4	24,3	27,8	31,3
SB-202713	EFXE-202713SB	7,2	14,4	18,0	25,2	28,9	32,5
SB-272713	EFXE-272713SB	8,3	16,7	20,9	29,3	33,5	37,7
SB-203016	EFXE-203016SB	8,5	17,1	21,4	30,0	34,3	38,6
SB-273513	EFXE-273513SB	9,6	19,2	24,1	33,7	38,5	43,3
SB-282816	EFXE-282816SB	9,6	19,3	24,2	33,9	38,7	43,6
SB-204016	EFXE-204016SB	10,1	20,2	25,2	35,4	40,4	45,5
SB-353516	EFXE-353516SB	12,2	24,4	30,5	42,7	48,8	54,9
SB-282827	EFXE-282827SB	13,1	26,2	32,8	45,9	52,5	59,0
SB-355016	EFXE-355016SB	14,8	29,7	37,1	52,0	59,4	66,8
SB-383816	EFXE-383816SB	13,3	26,6	33,2	46,5	53,2	59,8
SB-384516	EFXE-384516SB	14,5	29,1	36,4	51,0	58,3	65,6
SB-385716	EFXE-385716SB	16,7	33,4	41,8	58,5	66,8	75,2
SB-505016	EFXE-505016SB	17,9	35,8	44,8	62,7	71,7	80,7
SB-383827	EFXE-383827SB	17,5	35,1	43,9	61,4	70,2	79,0
SB-575716	EFXE-575716SB	20,7	41,5	51,9	72,7	83,1	93,5
SB-577620	EFXE-577620SB	26,9	53,9	67,4	94,4	107,9	121,3
SB-575730	EFXE-575730SB	27,9	55,8	69,7	97,7	111,6	125,6
SB-769520	EFXE-769520SB	36,1	72,2	90,2	126,3	144,4	162,4
SB-1258040	EFXE-1258040SB	36,1	72,2	90,2	126,3	144,4	162,4

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Enclosure types (Stainless steel)		Maximum power dissipation (W) – Tamb. up to **95**°C	
		INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
SB-101210	EFXE-101210SB	1,3	2,7
SB-151510	EFXE-151510SB	2,0	4,0
SB-142013	EFXE-142013SB	2,6	5,2
SB-202010	EFXE-202010SB	2,6	5,3
SB-202016	EFXE-202016SB	3,4	6,9
SB-202713	EFXE-202713SB	3,6	7,2
SB-272713	EFXE-272713SB	4,1	8,3
SB-203016	EFXE-203016SB	4,2	8,5
SB-273513	EFXE-273513SB	4,8	9,6
SB-282816	EFXE-282816SB	4,8	9,6
SB-204016	EFXE-204016SB	5,0	10,1
SB-353516	EFXE-353516SB	6,1	12,2
SB-282827	EFXE-282827SB	6,5	13,1
SB-355016	EFXE-355016SB	7,4	14,8
SB-383816	EFXE-383816SB	6,6	13,3
SB-384516	EFXE-384516SB	7,2	14,5
SB-385716	EFXE-385716SB	8,3	16,7
SB-505016	EFXE-505016SB	8,9	17,9
SB-383827	EFXE-383827SB	8,7	17,5
SB-575716	EFXE-575716SB	10,3	20,7
SB-577620	EFXE-577620SB	13,4	26,9
SB-575730	EFXE-575730SB	13,9	27,9
SB-769520	EFXE-769520SB	18,0	36,1
SB-1258040	EFXE-1258040SB	18,0	36,1

Power dissipation – Stainless steel enclosures ST series

Enclosure types (Stainless steel)		Maximum power dissipation (W) – Tamb. up to **40**°C						
		INTERNAL TEMP.60°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
ST-101210	EFXE-101210ST	5,5	8,3	11,1	12,5	15,3	16,7	18,1
ST-151510	EFXE-151510ST	8,0	12,0	16,0	18,0	22,0	24,0	26,1
ST-142013	EFXE-142013ST	10,4	15,7	20,9	23,5	28,8	31,4	34,0
ST-202010	EFXE-202010ST	10,7	16,1	21,4	24,1	29,5	32,2	34,8
ST-202016	EFXE-202016ST	13,9	20,8	27,8	31,3	38,3	41,7	45,2
ST-202713	EFXE-202713ST	14,4	21,6	28,9	32,5	39,7	43,3	46,9
ST-272713	EFXE-272713ST	16,7	25,1	33,5	37,7	46,0	50,2	54,4
ST-203016	EFXE-203016ST	17,1	25,7	34,3	38,6	47,2	51,4	55,7
ST-273513	EFXE-273513ST	19,2	28,9	38,5	43,3	53,0	57,8	62,6
ST-282816	EFXE-282816ST	19,3	29,0	38,7	43,6	53,3	58,1	63,0
ST-204016	EFXE-204016ST	20,2	30,3	40,4	45,5	55,6	60,6	65,7
ST-353516	EFXE-353516ST	24,4	36,6	48,8	54,9	67,1	73,2	79,3
ST-282827	EFXE-282827ST	26,2	39,3	52,5	59,0	72,2	78,7	85,3
ST-355016	EFXE-355016ST	29,7	44,5	59,4	66,8	81,7	89,1	96,6
ST-383816	EFXE-383816ST	26,6	39,9	53,2	59,8	73,1	79,8	86,5
ST-384516	EFXE-384516ST	29,1	43,7	58,3	65,6	80,2	87,5	94,8
ST-385716	EFXE-385716ST	33,4	50,1	66,8	75,2	91,9	100,3	108,7
ST-505016	EFXE-505016ST	35,8	53,8	71,7	80,7	98,6	107,6	116,6
ST-383827	EFXE-383827ST	35,1	52,7	70,2	79,0	96,6	105,4	114,2
ST-575716	EFXE-575716ST	41,5	62,3	83,1	93,5	114,3	124,7	135,1
ST-577620	EFXE-577620ST	53,9	80,9	107,9	121,3	148,3	161,8	175,3
ST-575730	EFXE-575730ST	55,8	83,7	111,6	125,6	153,5	167,5	181,4
ST-769520	EFXE-769520ST	72,2	108,3	144,4	162,4	198,5	216,6	234,6
ST-1258040	EFXE-1258040ST	72,2	108,3	144,4	162,4	198,5	216,6	234,6

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Enclosure types (Stainless steel)		Maximum power dissipation (W) – Tamb. up to **50**°C						
		INTERNAL TEMP.60°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
ST-101210	EFXE-101210ST	2,7	5,5	8,3	9,7	12,5	13,9	15,3
ST-151510	EFXE-151510ST	4,0	8,0	12,0	14,0	18,0	20,0	22,0
ST-142013	EFXE-142013ST	5,2	10,4	15,7	18,3	23,5	26,2	28,8
ST-202010	EFXE-202010ST	5,3	10,7	16,1	18,7	24,1	26,8	29,5
ST-202016	EFXE-202016ST	6,9	13,9	20,8	24,3	31,3	34,8	38,3
ST-202713	EFXE-202713ST	7,2	14,4	21,6	25,2	32,5	36,1	39,7
ST-272713	EFXE-272713ST	8,3	16,7	25,1	29,3	37,7	41,8	46,0
ST-203016	EFXE-203016ST	8,5	17,1	25,7	30,0	38,6	42,9	47,2
ST-273513	EFXE-273513ST	9,6	19,2	28,9	33,7	43,3	48,2	53,0
ST-282816	EFXE-282816ST	9,6	19,3	29,0	33,9	43,6	48,4	53,3
ST-204016	EFXE-204016ST	10,1	20,2	30,3	35,4	45,5	50,5	55,6
ST-353516	EFXE-353516ST	12,2	24,4	36,6	42,7	54,9	61,0	67,1
ST-282827	EFXE-282827ST	13,1	26,2	39,3	45,9	59,0	65,6	72,2
ST-355016	EFXE-355016ST	14,8	29,7	44,5	52,0	66,8	74,3	81,7
ST-383816	EFXE-383816ST	13,3	26,6	39,9	46,5	59,8	66,5	73,1
ST-384516	EFXE-384516ST	14,5	29,1	43,7	51,0	65,6	72,9	80,2
ST-385716	EFXE-385716ST	16,7	33,4	50,1	58,5	75,2	83,6	91,9
ST-505016	EFXE-505016ST	17,9	35,8	53,8	62,7	80,7	89,7	98,6
ST-383827	EFXE-383827ST	17,5	35,1	52,7	61,4	79,0	87,8	96,6
ST-575716	EFXE-575716ST	20,7	41,5	62,3	72,7	93,5	103,9	114,3
ST-577620	EFXE-577620ST	26,9	53,9	80,9	94,4	121,3	134,8	148,3
ST-575730	EFXE-575730ST	27,9	55,8	83,7	97,7	125,6	139,5	153,5
ST-769520	EFXE-769520ST	36,1	72,2	108,3	126,3	162,4	180,5	198,5
ST-1258040	EFXE-1258040ST	36,1	72,2	108,3	126,3	162,4	180,5	198,5

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Enclosure types (Stainless steel)		Maximum power dissipation (W) – Tamb. up to **55**°C						
		INTERNAL TEMP.65°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
ST-101210	EFXE-101210ST	2,7	4,1	6,9	8,3	11,1	12,5	13,9
ST-151510	EFXE-151510ST	4,0	6,0	10,0	12,0	16,0	18,0	20,0
ST-142013	EFXE-142013ST	5,2	7,8	13,1	15,7	20,9	23,5	26,2
ST-202010	EFXE-202010ST	5,3	8,0	13,4	16,1	21,4	24,1	26,8
ST-202016	EFXE-202016ST	6,9	10,4	17,4	20,8	27,8	31,3	34,8
ST-202713	EFXE-202713ST	7,2	10,8	18,0	21,6	28,9	32,5	36,1
ST-272713	EFXE-272713ST	8,3	12,5	20,9	25,1	33,5	37,7	41,8
ST-203016	EFXE-203016ST	8,5	12,8	21,4	25,7	34,3	38,6	42,9
ST-273513	EFXE-273513ST	9,6	14,4	24,1	28,9	38,5	43,3	48,2
ST-282816	EFXE-282816ST	9,6	14,5	24,2	29,0	38,7	43,6	48,4
ST-204016	EFXE-204016ST	10,1	15,1	25,2	30,3	40,4	45,5	50,5
ST-353516	EFXE-353516ST	12,2	18,3	30,5	36,6	48,8	54,9	61,0
ST-282827	EFXE-282827ST	13,1	19,6	32,8	39,3	52,5	59,0	65,6
ST-355016	EFXE-355016ST	14,8	22,2	37,1	44,5	59,4	66,8	74,3
ST-383816	EFXE-383816ST	13,3	19,9	33,2	39,9	53,2	59,8	66,5
ST-384516	EFXE-384516ST	14,5	21,8	36,4	43,7	58,3	65,6	72,9
ST-385716	EFXE-385716ST	16,7	25,0	41,8	50,1	66,8	75,2	83,6
ST-505016	EFXE-505016ST	17,9	26,9	44,8	53,8	71,7	80,7	89,7
ST-383827	EFXE-383827ST	17,5	26,3	43,9	52,7	70,2	79,0	87,8
ST-575716	EFXE-575716ST	20,7	31,1	51,9	62,3	83,1	93,5	103,9
ST-577620	EFXE-577620ST	26,9	40,4	67,4	80,9	107,9	121,3	134,8
ST-575730	EFXE-575730ST	27,9	41,8	69,7	83,7	111,6	125,6	139,5
ST-769520	EFXE-769520ST	36,1	54,1	90,2	108,3	144,4	162,4	180,5
ST-1258040	EFXE-1258040ST	36,1	54,1	90,2	108,3	144,4	162,4	180,5

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Enclosure types (Stainless steel)		Maximum power dissipation (W) – Tamb. up to **60**°C					
		INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
ST-101210	EFXE-101210ST	2,7	5,5	6,9	9,7	11,1	12,5
ST-151510	EFXE-151510ST	4,0	8,0	10,0	14,0	16,0	18,0
ST-142013	EFXE-142013ST	5,2	10,4	13,1	18,3	20,9	23,5
ST-202010	EFXE-202010ST	5,3	10,7	13,4	18,7	21,4	24,1
ST-202016	EFXE-202016ST	6,9	13,9	17,4	24,3	27,8	31,3
ST-202713	EFXE-202713ST	7,2	14,4	18,0	25,2	28,9	32,5
ST-272713	EFXE-272713ST	8,3	16,7	20,9	29,3	33,5	37,7
ST-203016	EFXE-203016ST	8,5	17,1	21,4	30,0	34,3	38,6
ST-273513	EFXE-273513ST	9,6	19,2	24,1	33,7	38,5	43,3
ST-282816	EFXE-282816ST	9,6	19,3	24,2	33,9	38,7	43,6
ST-204016	EFXE-204016ST	10,1	20,2	25,2	35,4	40,4	45,5
ST-353516	EFXE-353516ST	12,2	24,4	30,5	42,7	48,8	54,9
ST-282827	EFXE-282827ST	13,1	26,2	32,8	45,9	52,5	59,0
ST-355016	EFXE-355016ST	14,8	29,7	37,1	52,0	59,4	66,8
ST-383816	EFXE-383816ST	13,3	26,6	33,2	46,5	53,2	59,8
ST-384516	EFXE-384516ST	14,5	29,1	36,4	51,0	58,3	65,6
ST-385716	EFXE-385716ST	16,7	33,4	41,8	58,5	66,8	75,2
ST-505016	EFXE-505016ST	17,9	35,8	44,8	62,7	71,7	80,7
ST-383827	EFXE-383827ST	17,5	35,1	43,9	61,4	70,2	79,0
ST-575716	EFXE-575716ST	20,7	41,5	51,9	72,7	83,1	93,5
ST-577620	EFXE-577620ST	26,9	53,9	67,4	94,4	107,9	121,3
ST-575730	EFXE-575730ST	27,9	55,8	69,7	97,7	111,6	125,6
ST-769520	EFXE-769520ST	36,1	72,2	90,2	126,3	144,4	162,4
ST-1258040	EFXE-1258040ST	36,1	72,2	90,2	126,3	144,4	162,4

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Enclosure types (Stainless steel)		Maximum power dissipation (W) – Tamb. up to **95**°C	
		INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
ST-101210	EFXE-101210ST	1,3	2,7
ST-151510	EFXE-151510ST	2,0	4,0
ST-142013	EFXE-142013ST	2,6	5,2
ST-202010	EFXE-202010ST	2,6	5,3
ST-202016	EFXE-202016ST	3,4	6,9
ST-202713	EFXE-202713ST	3,6	7,2
ST-272713	EFXE-272713ST	4,1	8,3
ST-203016	EFXE-203016ST	4,2	8,5
ST-273513	EFXE-273513ST	4,8	9,6
ST-282816	EFXE-282816ST	4,8	9,6
ST-204016	EFXE-204016ST	5,0	10,1
ST-353516	EFXE-353516ST	6,1	12,2
ST-282827	EFXE-282827ST	6,5	13,1
ST-355016	EFXE-355016ST	7,4	14,8
ST-383816	EFXE-383816ST	6,6	13,3
ST-384516	EFXE-384516ST	7,2	14,5
ST-385716	EFXE-385716ST	8,3	16,7
ST-505016	EFXE-505016ST	8,9	17,9
ST-383827	EFXE-383827ST	8,7	17,5
ST-575716	EFXE-575716ST	10,3	20,7
ST-577620	EFXE-577620ST	13,4	26,9
ST-575730	EFXE-575730ST	13,9	27,9
ST-769520	EFXE-769520ST	18,0	36,1
ST-1258040	EFXE-1258040ST	18,0	36,1

Maximum Power Dissipation calculation

The values specified in the tables as per clause 2.1.1 may be modified within the maximum admitted Tamb and maximum admitted internal temperature as follows.

$$Pdiss\ (W) = \frac{Tmax - Tamb}{Rth}$$

$Rth = A \times (\text{enclosure surface in } mm^2 \text{ except enclosure bottom})^B$

Legend:
Rth – Thermal resistance [K/W].
Tmax – Maximum allowed temperature inside enclosure.
Tamb – Ambient temperature of enclosure
A and B - coefficients determined for each series o enclosure. Exact values are given in manufacturer's documentation.

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[16] Confidential Report No. FIDI 21 CR 075

[16.1] Routine testing

Junction boxes, local control stations and local control panels fitted with wiring, shall be subject to a routine dielectric strength test according to the clause 7.1 of IEC 60079-7.

[17] Specific Conditions of Use

- Enclosures marked with warning label: "WARNING – POTENTIAL ELECTROSTATIC CHARGING HAZARD – SEE INSTRUCTIONS" must be cleaned only by damp cloth or antistatic products.
- Apparatus equipped with drain / venting valve Technor Italsmea model ECR3:
  - the valve cannot be open when an explosive dust atmosphere is present.
  - The valve can be open when an explosive gas atmosphere is present: when open, the equipment reaches the protection degree IP44.
  - When the valve is left in open position, it should be protected from light exposure.
- On the intrinsic safety terminals, the user must only connect devices with compatible intrinsic safety parameters according to EN 60079-14.

[18] Essential Health and Safety Requirements

Covered by the conformity with harmonized standards listed under item 9.

[19] Drawings and Documents

Title:	Drawing No.:	Rev. level:	Date:
Technical note	TN2111	0	17.11.2021
Instruction for use	TN2111 Annex A	0	08.11.2021
Apparatus list	TN2111 Annex B	0	17.11.2021
Drawings:			
Cable entries, plug, adaptors coupling systems	AC2111, sheet 1	0	10.11.2021
Example of operator arrangements for AQ-AR-EFE	AC2111, sheet 2	0	10.11.2021
Example of operator arrangements for SB-ST-EFEXE	AC2111, sheet 3	0	10.11.2021
Example terminals and earth bus bar	AC2111, sheet 4	0	10.11.2021
Drain / breath device type ECR3	AC2111, sheet 5	0	10.11.2021
Marking label SB..., ST..., AQ..., AR...	AC2111, sheet 6	0	10.11.2021
Marking label SB..., ST..., AQ..., AR...	AC2111, sheet 7	0	10.11.2021

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[1] **SUPPLEMENTARY EU – TYPE EXAMINATION CERTIFICATE**

[2] Equipment or Protective Systems Intended for use in Potentially Explosive Atmospheres Directive 2014/34/EU.

[3] Supplementary EU-Type Examination Certificate Number: **FIDI 21 ATEX 0090X/1**

[4] Product: **Junction boxes, local control stations and local control panels**

Type: **AQ-***P / AQ-***AL / AR-***P / AR-***AL**
AQ-*P-HT / AQ-***AL-HT / AR-***P-HT / AR-***AL-HT**
SB-* / ST-***
EFE-* / EFXE-*** AL/ EFXE-***SB / EFXE-***ST**
EFE-*-HT / EFXE-***AL-HT**

[5] Manufacturer: **Technor Italsmea S.p.A.**

[6] Address: **Via Italia 33, 20060 Gessate (MI), Italy**

[7] This supplementary certificate extends EU – Type Examination Certificate to apply to product designed and constructed in accordance with the specification set out in the Schedule of the said certificate but having any variations specified in the Schedule to this certificate and the documents therein referred to.

[8] FIDITAS Ltd., Notified Body number 2829 in accordance with Article 17 of Directive 2014/34/EU of the European Parliament and of the Council, dated 26 February 2014, certifies that this product has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of products intended for use in potentially explosive atmospheres given in Annex II of the Directive.

[9] The examination and test results are recorded in confidential Report No: **FIDI 23 CR 019**

[10] The marking of the product shall include the following:

II 1 G	**Ex ia IIC/IIB T6...T4 Ga**(2) or
II 2(1) G or **II 2(2) G**	**Ex db eb ia/ib mb [**(3)**] IIC/IIB T6...T4 Gb**(1) or
II 2 G	**Ex eb IIC/IIB T6...T4 Gb**(1) or
II 2 D	**Ex tb IIIC T85°C...T135°C Db**

(1) Others type of protection additional to 'eb' depending to the components actually mounted.

(2) In case of enclosures containing 'eb' terminals and/or 'ia Ga' already certified components (with compatible marking) only.

(3) Associated equipment protection depending on the components actually mounted (see lists): e.g. [ia/ib/ia Ga/ia IIIC Da] and/or [ia IIIC Da] or [ia/ib/ia Ga/ia IIIC Da] and/or [ia/ib/ia Ga] [ia IIIC Da]

FIDITAS Ltd.
Certification department
Approved:

Marino Kelava, M.E.Eng.

Our ref.: 23.CRT.071

Date: 19.04.2023

Fiditas d.o.o. ZAGREB

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[11] **SCHEDULE**

[12] **SUPPLEMENTARY EU - TYPE EXAMINATION CERTIFICATE No.: FIDI 21 ATEX 0090X /1**

[13] Description of the variation to the Product

New Ex products added:

- Surge voltage protection unit type: PLUGTRAB PT2 or PT4 – PHOENIX CONTACT; II 1G> Ex ia IIC T4...T6 Ga; KEMA 00 ATEX 1099X;
- SITRANS TH230/420, type: 7NG0317, 0310; 0410 TR320/TR420 7NG0327; 7NG0320; TYPE 7NG0420; Siemens AG; II 1G Ex ia IIC T6...T4 Ga; II 2(1)G Ex ib [ia Ga] IIC T6...T4 Gb; DEKRA 17 ATEX 0116X
- Enhanced Model 644 Temperature Transmitter, ROSEMOUNT INCORPORATED, II 1G Ex ia IIC T6...T4 Ga; DEKRA 21ATEX0003X,
- Temperature Transmitter type: 5434D; 5431D; 6431D; 5435D; 5437D; 5437D; 5437B; 6437D, II 1G Ex ia IIC T6...T4 Ga; II 2(1)G Ex ib [ia Ga] IIC T6...T4 Gb; DEKRA 16 ATEX 0047X,
- Controls Units and / or Junction Boxes Type: GUB..., TECHNOR ITALSMEA; II 2G Ex db (*) IIC T(*) Gb; INERIS 22 ATEX 0008X
- Cable Transit Device type: CF 8 Ex, CF 32 Ex, CF 16 Ex, C RS T...Ex, RS..B Ex, SF...Ex, SFX...B Ex, B...B Ex, R...B Ex and RO...B; ROXTEC INTERNATIONAL AB, II 2G Ex e IIC Gb, II 2D Ex tb IIC Db; NEMKO 12 ATEX 1278X
- Cable Transit Device type: HD 16 Ex, HD 24 Ex, HD 32 Ex and HDLC Ex, ROXTEC INTERNATIONAL AB, II 2G Ex eb IIC Gb, II 2D Ex tb IIIC Db, PRESAFE 15 ATEX 6419X
- Control stations and junction boxes type: CP..., TECHNOR ITALSMEA, II 2G Ex db IIC T6 or T5 or T4 Gb or II 2(1)G Ex db [ia Ga] IIC T6 Gb(***) or II 2(2)G Ex db [ib] IIC T6 Gb (***); INERIS 03 ATEX 0009X
- Industrial plug and socket type: DXN1, MARECHAL ELECTRIC, II 2G Ex db eb IIC T5 or T6; II 2D Ex tb IIIC T90°C/T70°C; LCIE 99 ATEX6027X
- Industrial plug and socket type: DXN3, MARECHAL ELECTRIC; II 2G Ex db eb IIC T5 or T6; II 2D Ex tb IIIC T90°C/T70°C; LCIE 05 ATEX 6149X
- Industrial plug and socket type: DXN6, MARECHAL ELECTRIC, II 2G Ex db eb IIC T5 or T6; II 2D Ex tb IIIC T90°C/T70°C; LCIE 05 ATEX 6150X
- Industrial plug and socket type: PXN12C, MARECHAL ELECTRIC, II 2G Ex eb IIC T*; II 2G Ex ia or ib IIC T*; II 2D Ex tb IIIC T* Db; LCIE 07 ATEX 6070X
- Industrial plug and socket type: DXN25C, MARECHAL ELECTRIC; II 2G Ex eb IIC T*; II 2G Ex ia or ib IIC T6; II2D Ex tb IIIC T*; LCIE 09ATEX3050X
- Industrial plug and socket type: DXN37C, MARECHAL ELECTRIC; II 2G Ex eb IIC T*; II 2G Ex ia or ib IIC T6; II2D Ex tb IIIC T*; LCIE 07ATEX6071X
- Industrial plug and socket type: SPeX, MARECHAL ELECTRIC, II 2G Ex eb IIC T*; II2D Ex tb IIIC T* Db; LCIE 07ATEX6073X
- Industrial plug and socket type: DXA1, MARECHAL ELECTRIC, II 2G Ex db eb IIC T* Gb; II 2D Ex tb IIC T*°C Db; LCIE 15ATEX 3033X
- Industrial plug and socket type: PNCX, MARECHAL ELECTRIC, II 2G Ex IIC T6 Gb; II 2D Ex tb IIIC T72°C Db; LCIE 16ATEX3001X
- Terminal type: WDU 240, WEIDMULLER, II 2G Ex eb IIC Gb; KEMA 01 ATEX 2186U.

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[14] Confidential Report No. FIDI 23 CR 019

[14.1] Routine testing

No change to specified in the initial certificate.

[15] Specific Conditions of Use

Addditional to those specified the initial certificate:

- Manufacturer must obey relevant specific condition of use of Ex equipment and/or schedule of limitation of Ex components installed in/on the product and forward to the end user if relevant for the installation and use.

[16] Essential Health and Safety Requirements

Compliance with the Essential Health and Safety Requirements is not affected by this variation.

[17] Drawings and Documents

Title:	Drawing No.:	Rev. level:	Date:
Technical note	TN2111	1	20.01.2023
Instruction for use	TN2111 Annex A	1	20.01.2023
Apparatus list	TN2111 Annex B	1	20.01.2023

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IECEx Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION
IEC Certification System for Explosive Atmospheres

for rules and details of the IECEx Scheme visit www.iecex.com

Certificate No.:	**IECEx FIDI 21.0015X**	Page 1 of 4	Certificate history: Issue 0 (2022-02-18)
Status:	**Current**	Issue No: 1	
Date of Issue:	2023-05-04		

Applicant: **Technor Italsmea S.p.A.**
Via Italia 33
20060 Gessate (MI)
Italy

Equipment: **Junction boxes, local control stations and local control panels**

Optional accessory: Model reference: AQ-***P / AQ-***AL / AR-***P / AR-***AL / AQ-***P-HT / AQ-***AL-HT / AR-***P-HT / AR-***AL-HT / SB-*** / ST-*** / EFE-*** / EFXE-*** AL/ EFXE-***SB / EFXE-***ST / EFE-***-HT / EFXE-***AL-HT

Type of Protection: **Flameproof enclosure 'db'; Intrinsic safety 'ia/ib'; Increased safety 'eb'; Encapsulation 'mb', Protection by enclosure 'tb'**

Marking: **Ex ia IIC/IIB T6...T4 Ga**(2) or

Ex db eb ia/ib mb [(3)] IIC/IIB T6...T4 Gb(1) or

Ex eb IIC/IIB T6...T4 Gb(1) or

Ex tb IIIC T85°C...T135°C Db

(1) Others type of protection additional to Ex e/eb depending to the components actually mounted.

(2) In case of enclosures containing Ex e/Ex eb terminals and/or Ex ia Ga already certified components (with compatible marking) only.

(3) Associated equipment protection depending on the components actually mounted (see lists): e.g. [ia/ib/ia Ga/ia IIIC Da] and/or [ia IIIC Da] or [ia/ib/ia Ga/ia IIIC Da] and/or [ia/ib/ia Ga] [ia IIIC Da]

Approved for issue on behalf of the IECEx Certification Body: **Marino Kelava**

Position: **Certification Signatory**

Signature:
(for printed version)

Date:
(for printed version)

1. This certificate and schedule may only be reproduced in full.
2. This certificate is not transferable and remains the property of the issuing body.
3. The Status and authenticity of this certificate may be verified by visiting www.iecex.com or use of this QR Code.

Certificate issued by:

Fiditas Ltd
Slavka Tomerlina 44
HR-10361 Zagreb-Sesvete
Croatia

Fiditas
explosion safety solutions

IECEx Certificate of Conformity

Certificate No.: **IECEx FIDI 21.0015X**

Date of issue: 2023-05-04 Issue No: 1

Manufacturer: **Technor Italsmea S.p.A.**
Via Italia 33
20060 Gessate (MI)
Italy

Manufacturing locations:

This certificate is issued as verification that a sample(s), representative of production, was assessed and tested and found to comply with the IEC Standard list below and that the manufacturer's quality system, relating to the Ex products covered by this certificate, was assessed and found to comply with the IECEx Quality system requirements.This certificate is granted subject to the conditions as set out in IECEx Scheme Rules, IECEx 02 and Operational Documents as amended

STANDARDS :
The equipment and any acceptable variations to it specified in the schedule of this certificate and the identified documents, was found to comply with the following standards

IEC 60079-0:2017 Explosive atmospheres - Part 0: Equipment - General requirements
Edition:7.0

IEC 60079-1:2014-06 Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"
Edition:7.0

IEC 60079-11:2011 Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"
Edition:6.0

IEC 60079-18:2017 Explosive atmospheres - Part 18: Protection by encapsulation "m"
Edition:4.1

IEC 60079-31:2013 Explosive atmospheres - Part 31: Equipment dust ignition protection by enclosure "t"
Edition:2

IEC 60079-7:2017 Explosive atmospheres - Part 7: Equipment protection by increased safety "e"
Edition:5.1

This Certificate **does not** indicate compliance with safety and performance requirements other than those expressly included in the Standards listed above.

TEST & ASSESSMENT REPORTS:
A sample(s) of the equipment listed has successfully met the examination and test requirements as recorded in:

Test Reports:

HR/FIDI/ExTR21.0016/00 HR/FIDI/ExTR21.0016/01

Quality Assessment Report:

FR/INE/QAR08.0002/15

IECEx Certificate of Conformity

EQUIPMENT:
Equipment and systems covered by this Certificate are as follows:

Junction boxes, local control stations and local control panels series AQ-…..; AR-…..; SB…..; EFE-…..; EFXE-….. use certified enclosures of various sizes, manufactured by Technor Italsmea S.p.A., type: AQ-.... ; AR-....; SB-...; ST- …, certificate IECEx FIDI 21.0012U.

Enclosures coded …-HT are made in glass fiber reinforced polyester resin or in aluminum, and covered by IECEx component certificates: IECEx PTB 08.0003U, enclosure type: 26.****** and IECEx PTB 08.0003U, enclosure type: 25.******.

Enclosures may be equipped with certified Ex equipment or Ex components and Ex terminals listed in manufacturer's documentation. Certified Ex equipment or Ex components and Ex terminals must be used according to data available in related component or equipment certificates, in particular relevant temperature range, voltage and current limitations. The cable glands or plugs, with separate IECEx certificate, made in type of protection ‘eb’ and/or ‘tb’ with appropriate IP protection are mounted according to related manufacturer’s installation instructions. Each enclosure is provided with internal earthing certified terminal or earthing screw or bolt. Metal enclosures are provided by external earthing screw or bolt. Metal and polyester enclosures can be provided by passing through earthing terminals.

All enclosures can be provided by:
- Externally installed accessories as specified in manufacturer documents,
- Drain breath device type ECR3, included in this certificate,
- Internal/external earthing plate.

For other description see Annex.

SPECIFIC CONDITIONS OF USE: YES as shown below:

- Enclosures marked with warning label: “WARNING – POTENTIAL ELECTROSTATIC CHARGING HAZARD – SEE INSTRUCTIONS” must be cleaned only by damp cloth or antistatic products.
- Apparatus equipped with drain / venting valve Technor Italsmea model ECR3:
  - the valve cannot be open when an explosive dust atmosphere is present.
  - The valve can be open when an explosive gas atmosphere is present: when open, the equipment reaches the protection degree IP44.
  - When the valve is left in open position, it should be protected from light exposure.
- On the intrinsic safety terminals, the user must only connect devices with compatible intrinsic safety parameters according to IEC 60079-14.

IECEx Certificate of Conformity

DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)
New IECEx certified Ex products added in the Apparatus list according to list given in HR/FIDI/ ExTR 21.0016/01.

Annex:

IECEx FIDI 21.0015X Technor Equipment Annex1 issue1.pdf

Technical description (continued from original certificate)

Model identification

Junction boxes

A(1)-(2) (3) (4) (5) (6)	(1) –	**Q**: Square size **R**: Rectangular size
	(2) (3) (4)	dimension, in cm
	(5)	Material **P**: Glass fiber reinforced polyester resin **AL**: Aluminium Alloy
	(6)	None: up to internal temperature of 105°C **HT**: up to internal temperature of 130°C
SB- (2) (3) (4)	(2) (3) (4)	dimension, in cm
ST- (2) (3) (4)	(2) (3) (4)	dimension, in cm

Panel boards

EFE- (2) (3) (4) (6)	(2) (3) (4)	dimension, in cm
	(6)	None: up to internal temperature of 105°C **HT**: up to internal temperature of 130°C
EFXE- (2) (3) (4) (5) (6)	(2) (3) (4)	dimension, in cm
	(5)	Material **SB** or **ST**: stainless steel **AL**: Aluminium Alloy
	(6)	None: up to internal temperature of 105°C **HT**: up to internal temperature of 130°C

Technical data:

Electrical data:	According to Ex component to actually installed
Ambient temperature:	-50°C to +95°C Other possible ranges are with: - min temperature: -50°C to -20 °C - max temperature of +40 °C to +95 °C
Mechanical protection:	IP55, IP66 or IP67 depending on model

Temperature class and/or maximum surface temperature of any junction box or control panel depend on ambient temperature and internal power dissipation. The values that must be observed are given in relevant tables in this certificate.

For commercial reasons model name listed in the tables below can be modified as follows: first (2) and second (3) pair of digits can be reversed.

Models sizes

Polyester High Temperature		Aluminium High Temperature	
AQ-080806P-HT	EFE-080806-HT	AQ-080806AL-HT	EFXE-080806AL-HT
AQ-080808P-HT	EFE-080808-HT	AR-081306AL-HT	EFXE-081306AL-HT
AR-081106P-HT	EFE-081106-HT	AR-081806AL-HT	EFXE-081806AL-HT
AR-081108P-HT	EFE-081108-HT	AR-082505AL-HT	EFXE-082505AL-HT
AR-081606P-HT	EFE-081606-HT	AQ-101008AL-HT	EFXE-101008AL-HT
AR-081608P-HT	EFE-081608-HT	AR-101608AL-HT	EFXE-101608AL-HT
AR-081906P-HT	EFE-081906-HT	AR-102008AL-HT	EFXE-102008AL-HT
AR-081908P-HT	EFE-081908-HT	AQ-121208AL-HT	EFXE-121208AL-HT
AR-082306P-HT	EFE-082306-HT	AQ-121209AL-HT	EFXE-121209AL-HT
AR-082308P-HT	EFE-082308-HT	AR-122208AL-HT	EFXE-122208AL-HT
AQ-121209P-HT	EFE-121209-HT	AR-122209AL-HT	EFXE-122209AL-HT
AR-122209P-HT	EFE-122209-HT	AR-123608AL-HT	EFXE-123608AL-HT
AQ-161609P-HT	EFE-161609-HT	AQ-141409AL-HT	EFXE-141409AL-HT
AR-162609P-HT	EFE-162609-HT	AR-142009AL-HT	EFXE-142009AL-HT
AR-163609P-HT	EFE-163609-HT	AQ-161609AL-HT	EFXE-161609AL-HT
AR-165609P-HT	EFE-165609-HT	AR-162609AL-HT	EFXE-162609AL-HT
AQ-202017P-HT	EFE-202017-HT	AR-163609AL-HT	EFXE-163609AL-HT
AR-203017P-HT	EFE-203017-HT	AR-165609AL-HT	EFXE-165609AL-HT
AQ-252612P-HT	EFE-252612-HT	AQ-181810AL-HT	EFXE-181810AL-HT
AQ-252616P-HT	EFE-252616-HT	AR-182810AL-HT	EFXE-182810AL-HT
AR-254012P-HT	EFE-254012-HT	AR-102311AL-HT	EFXE-102311AL-HT
AR-254016P-HT	EFE-254016-HT	AR-202311AL-HT	EFXE-202311AL-HT
AR-256012P-HT	EFE-256012-HT	AR-202318AL-HT	EFXE-202318AL-HT
AR-304020P-HT	EFE-304020-HT	AR-232811AL-HT	EFXE-232811AL-HT
AQ-363609P-HT	EFE-363609-HT	AR-233311AL-HT	EFXE-233311AL-HT
AR-406025P-HT	EFE-406025-HT	AR-233318AL-HT	EFXE-233318AL-HT
AQ-414012P-HT	EFE-414012-HT	AR-234011AL-HT	EFXE-234011AL-HT
AQ-414020P-HT	EFE-414020-HT	AR-234023AL-HT	EFXE-234023AL-HT
		AR-236011AL-HT	EFXE-236011AL-HT
		AR-314011AL-HT	EFXE-314011AL-HT
		AR-314014AL-HT	EFXE-314014AL-HT
		AR-314018AL-HT	EFXE-314018AL-HT
		AR-314023AL-HT	EFXE-314023AL-HT
		AR-316011AL-HT	EFXE-316011AL-HT
		AR-316018AL-HT	EFXE-316018AL-HT
		AQ-606020AL-HT	EFXE-606020AL-HT

Polyester		Aluminium		Stainless steel	
AQ-080806P	EFE-080806	AQ-080806AL	EFXE-080806AL	SB-101210	EFXE-101210SB
AQ-080808P	EFE-080808	AR-081306AL	EFXE-081306AL	SB-151510	EFXE-151510SB
AR-081106P	EFE-081106	AR-081806AL	EFXE-081806AL	SB-142013	EFXE-142013SB
AR-081606P	EFE-081606	AR-081808AL	EFXE-081808AL	SB-202010	EFXE-202010SB
AR-081906P	EFE-081906	AR-082505AL	EFXE-082505AL	SB-202016	EFXE-202016SB
AQ-121209P	EFE-121209	AR-082508AL	EFXE-082508AL	SB-202713	EFXE-202713SB
AR-122209P	EFE-122209	AQ-101008AL	EFXE-101008AL	SB-272713	EFXE-272713SB
AQ-161609P	EFE-161609	AR-101508AL	EFXE-101508AL	SB-203016	EFXE-203016SB
AR-162609P	EFE-162609	AR-101608AL	EFXE-101608AL	SB-273513	EFXE-273513SB
AR-163609P	EFE-163609	AR-102008AL	EFXE-102008AL	SB-282816	EFXE-282816SB
AQ-252612P	EFE-252612	AQ-121208AL	EFXE-121208AL	SB-204016	EFXE-204016SB
AQ-252616P	EFE-252616	AR-122209AL	EFXE-122209AL	SB-353516	EFXE-353516SB
AR-254012P	EFE-254012	AQ-141409AL	EFXE-141409AL	SB-282827	EFXE-282827SB
AR-254016P	EFE-254016	AR-142009AL	EFXE-142009AL	SB-355016	EFXE-355016SB
AR-256012P	EFE-256012	AQ-161609AL	EFXE-161609AL	SB-383816	EFXE-383816SB
AQ-414012P	EFE-414012	AR-162410AL	EFXE-162410AL	SB-384516	EFXE-384516SB
		AR-162609AL	EFXE-162609AL	SB-385716	EFXE-385716SB
		AQ-181810AL	EFXE-181810AL	SB-505016	EFXE-505016SB
		AR-182810AL	EFXE-182810AL	SB-383827	EFXE-383827SB
		AR-202311AL	EFXE-202311AL	SB-575716	EFXE-575716SB
		AR-202318AL	EFXE-202318AL	SB-577620	EFXE-577620SB
		AR-232811AL	EFXE-232811AL	SB-575730	EFXE-575730SB
		AR-233312AL	EFXE-233312AL	SB-769520	EFXE-769520SB
		AR-233318AL	EFXE-233318AL	SB-1258040	EFXE-1258040SB

Enclosure types (Stainless steel)	
ST-101210	EFXE-101210ST
ST-151510	EFXE-151510ST
ST-142013	EFXE-142013ST
ST-202010	EFXE-202010ST
ST-202016	EFXE-202016ST
ST-202713	EFXE-202713ST
ST-272713	EFXE-272713ST
ST-203016	EFXE-203016ST
ST-273513	EFXE-273513ST
ST-282816	EFXE-282816ST
ST-204016	EFXE-204016ST
ST-353516	EFXE-353516ST
ST-282827	EFXE-282827ST
ST-355016	EFXE-355016ST
ST-383816	EFXE-383816ST
ST-384516	EFXE-384516ST
ST-385716	EFXE-385716ST
ST-505016	EFXE-505016ST
ST-383827	EFXE-383827ST
ST-575716	EFXE-575716ST
ST-577620	EFXE-577620ST
ST-575730	EFXE-575730ST
ST-769520	EFXE-769520ST
ST-1258040	EFXE-1258040ST

Note 2 For stainless steel enclosures: dimensions (2) and (3) can be decreased or increased up to 20%, dimensions (4) can be increased up to 500 mm. Model name changes consequently.

Power dissipation – HT glass fiber reinforced polyester resin enclosures

Enclosure types (polyester)		Maximum power dissipation (W) – Tamb. up to **40**°C							
		INTERNAL TEMP.60°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)	INTERNAL TEMP.127°C (T4/T135°C)
AQ-080806P-HT	EFE-080806-HT	3,5	5,2	7,0	7,8	9,6	10,4	11,3	15,2
AQ-080808P-HT	EFE-080808-HT	4,6	6,8	9,1	10,2	12,5	13,7	14,8	19,8
AR-081106P-HT	EFE-081106-HT	4,3	6,4	8,5	9,6	11,8	12,8	13,9	18,6
AR-081108P-HT	EFE-081108-HT	5,6	8,4	11,2	12,6	15,3	16,7	18,1	24,2
AR-081606P-HT	EFE-081606-HT	5,8	8,7	11,6	13,0	15,9	17,4	18,8	25.2
AR-081608P-HT	EFE-081608-HT	6,8	10,2	13,7	15,4	18,8	20,5	22,2	29,7
AR-081906P-HT	EFE-081906-HT	6,4	9,6	12,8	14,4	17,6	19,2	20,8	27,8
AR-081908P-HT	EFE-081908-HT	7,5	11,3	15,1	17,0	20,7	22,6	24,5	32,7
AR-082306P-HT	EFE-082306-HT	7,2	10,8	14,4	16,2	19,8	21,6	23,4	31,3
AR-082308P-HT	EFE-082308-HT	8,5	12,7	16,9	19,0	23,3	25,4	27,5	36,7
AQ-121209P-HT	EFE-121209-HT	8,0	12,0	15,9	17,9	21,9	23,9	25,9	34,7
AR-122209P-HT	EFE-122209-HT	10,8	16,2	21,6	24,3	29,7	32,4	35,1	47,0
AQ-161609P-HT	EFE-161609-HT	10,4	15,6	20,8	23,4	28,6	31,2	33,8	45,2
AR-162609P-HT	EFE-162609-HT	13,4	20,1	26,8	30,2	36,9	40,2	43,6	58,3
AR-163609P-HT	EFE-163609-HT	16,2	24,3	32,4	36,5	44,6	48,6	52,7	70,5
AR-165609P-HT	EFE-165609-HT	21,4	32,0	42,7	48,1	58,7	64,1	69,4	92,9
AQ-202017P-HT	EFE-202017-HT	18,0	26,9	35,9	40,4	49,4	53,9	58,4	78,1
AR-203017P-HT	EFE-203017-HT	20,9	31,3	41,7	47,0	57,4	62,6	67,8	90,8
AQ-252612P-HT	EFE-252612-HT	18,8	28,2	37,6	42,4	51,8	56,5	61,2	81,9
AQ-252616P-HT	EFE-252616-HT	20,8	31,1	41,5	46,7	57,1	62,3	67,5	90,3
AR-254012P-HT	EFE-254012-HT	22,8	34,2	45,7	51,4	62,8	68,5	74,2	99,3
AR-254016P-HT	EFE-254016-HT	26,2	39,3	52,4	58,9	72,0	78,6	85,1	113,9
AR-256012P-HT	EFE-256012-HT	29,0	43,6	58,1	65,3	79,9	87,1	94,4	126,3
AR-304020P-HT	EFE-304020-HT	32,3	48,5	64,7	72,7	88,9	97,0	105,1	140,7
AQ-363609P-HT	EFE-363609-HT	23,0	34,6	46,1	51,8	63,4	69,1	74,9	100,2
AR-406025P-HT	EFE-406025-HT	50,3	75,5	100,7	113,3	138,4	151,0	163,6	218,9
AQ-414012P-HT	EFE-414012-HT	29,1	43,7	58,2	65,5	80,1	87,3	94,6	126,6
AQ-414020P-HT	EFE-414020-HT	36,6	55,0	73,3	82,4	100,8	109,9	119,1	159,4

Enclosure types (polyester)		Maximum power dissipation (W) – Tamb. up to **50**°C							
		INTERNAL TEMP.60°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)	INTERNAL TEMP.127°C (T4/T135°C)
AQ-080806P-HT	EFE-080806-HT	1,7	3,5	5,2	6,1	7,8	8,7	9,6	13,4
AQ-080808P-HT	EFE-080808-HT	2,3	4,6	6,8	8,0	10,2	11,4	12,5	17,5
AR-081106P-HT	EFE-081106-HT	2,1	4,3	6,4	7,5	9,6	10,7	11,8	16,5
AR-081108P-HT	EFE-081108-HT	2,8	5,6	8,4	9,8	12,6	13,9	15,3	21.5
AR-081606P-HT	EFE-081606-HT	2,9	5,8	8,7	10,1	13,0	14,5	15,9	22,3
AR-081608P-HT	EFE-081608-HT	3,4	6,8	10,2	11,9	15,4	17,1	18,8	26,3
AR-081906P-HT	EFE-081906-HT	3,2	6,4	9,6	11,2	14,4	16,0	17,6	24,6
AR-081908P-HT	EFE-081908-HT	3,8	7,5	11,3	13,2	17,0	18,8	20,7	29,0
AR-082306P-HT	EFE-082306-HT	3,6	7,2	10,8	12,6	16,2	18,0	19,8	27,7
AR-082308P-HT	EFE-082308-HT	4,2	8,5	12,7	14,8	19,0	21,1	23,3	32,5
AQ-121209P-HT	EFE-121209-HT	4,0	8,0	12,0	14,0	17,9	19,9	21,9	30,7
AR-122209P-HT	EFE-122209-HT	5,4	10,8	16,2	18,9	24,3	27,0	29,7	41,6
AQ-161609P-HT	EFE-161609-HT	5,2	10,4	15,6	18,2	23,4	26,0	28,6	40,0
AR-162609P-HT	EFE-162609-HT	6,7	13,4	20,1	23,5	30,2	33,5	36,9	51,6
AR-163609P-HT	EFE-163609-HT	8,1	16,2	24,3	28,4	36,5	40,5	44,6	62,3
AR-165609P-HT	EFE-165609-HT	10,7	21,4	32,0	37,4	48,1	53,4	58,7	82,2
AQ-202017P-HT	EFE-202017-HT	9,0	18,0	26,9	31,4	40,4	44,9	49,4	69,1
AR-203017P-HT	EFE-203017-HT	10,4	20,9	31,3	36,5	47,0	52,2	57,4	80,4
AQ-252612P-HT	EFE-252612-HT	9,4	18,8	28,2	32,9	42,4	47,1	51,8	72,5
AQ-252616P-HT	EFE-252616-HT	10,4	20,8	31,1	36,3	46,7	51,9	57,1	79,9
AR-254012P-HT	EFE-254012-HT	11,4	22,8	34,2	39,9	51,4	57,1	62,8	87,9
AR-254016P-HT	EFE-254016-HT	13,1	26,2	39,3	45,8	58,9	65,5	72,0	100,8
AR-256012P-HT	EFE-256012-HT	14,5	29,0	43,6	50,8	65,3	72,6	79,9	111,8
AR-304020P-HT	EFE-304020-HT	16,2	32,3	48,5	56,6	72,7	80,8	88,9	124,4
AQ-363609P-HT	EFE-363609-HT	11,5	23,0	34,6	40,3	51,8	57,6	63,4	88,7
AR-406025P-HT	EFE-406025-HT	25,2	50,3	75,5	88,1	113,3	125,8	138,4	193,8
AQ-414012P-HT	EFE-414012-HT	14,6	29,1	43,7	51,0	65,5	72,8	80,1	112,1
AQ-414020P-HT	EFE-414020-HT	18,3	36,6	55,0	64,1	82,4	91,6	100,8	141,1

Enclosure types (polyester)		Maximum power dissipation (W) – Tamb. up to **55**°C							
		INTERNAL TEMP.65°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)	INTERNAL TEMP.127°C (T4/T135°C)
AQ-080806P-HT	EFE-080806-HT	1,7	2,6	4,4	5,2	7,0	7,8	8,7	12,5
AQ-080808P-HT	EFE-080808-HT	2,3	3,4	5,7	6,8	9,1	10,2	11,4	16,2
AR-081106P-HT	EFE-081106-HT	2,1	3,2	5,3	6,4	8,5	9,6	10,7	15,2
AR-081108P-HT	EFE-081108-HT	2,8	4,2	7,0	8,4	11,2	12,6	13,9	19,8
AR-081606P-HT	EFE-081606-HT	2,9	4,3	7,2	8,7	11,6	13,0	14,5	20,6
AR-081608P-HT	EFE-081608-HT	3,4	5,1	8,5	10,2	13,7	15,4	17,1	24,3
AR-081906P-HT	EFE-081906-HT	3,2	4,8	8,0	9,6	12,8	14,4	16,0	22,8
AR-081908P-HT	EFE-081908-HT	3,8	5,7	9,4	11,3	15,1	17,0	18,8	26,8
AR-082306P-HT	EFE-082306-HT	3,6	5,4	9,0	10,8	14,4	16,2	18,0	25,6
AR-082308P-HT	EFE-082308-HT	4,2	6,3	10,6	12,7	16,9	19,0	21,1	30,0
AQ-121209P-HT	EFE-121209-HT	4,0	6,0	10,0	12,0	15,9	17,9	19,9	28,3
AR-122209P-HT	EFE-122209-HT	5,4	8,1	13,5	16,2	21,6	24,3	27,0	38,3
AQ-161609P-HT	EFE-161609-HT	5,2	7,8	13,0	15,6	20,8	23,4	26,0	36,9
AR-162609P-HT	EFE-162609-HT	6,7	10,1	16,8	20,1	26,8	30,2	33,5	47,6
AR-163609P-HT	EFE-163609-HT	8,1	12,2	20,3	24,3	32,4	36,5	40,5	57,5
AR-165609P-HT	EFE-165609-HT	10,7	16,0	26,7	32,0	42,7	48,1	53,4	75,8
AQ-202017P-HT	EFE-202017-HT	9,0	13,5	22,4	26,9	35,9	40,4	44,9	63,7
AR-203017P-HT	EFE-203017-HT	10,4	15,7	26,1	31,3	41,7	47,0	52,2	74,0
AQ-252612P-HT	EFE-252612-HT	9,4	14,1	23,5	28,2	37,6	42,4	47,1	66,8
AQ-252616P-HT	EFE-252616-HT	10,4	15,6	26,0	31,1	41,5	46,7	51,9	73,7
AR-254012P-HT	EFE-254012-HT	11,4	17,1	28,5	34,2	45,7	51,4	57,1	81,0
AR-254016P-HT	EFE-254016-HT	13,1	19,6	32,7	39,3	52,4	58,9	65,5	92,9
AR-256012P-HT	EFE-256012-HT	14,5	21,8	36,3	43,6	58,1	65,3	72,6	103,0
AR-304020P-HT	EFE-304020-HT	16,2	24,2	40,4	48,5	64,7	72,7	80,8	114,7
AQ-363609P-HT	EFE-363609-HT	11,5	17,3	28,8	34,6	46,1	51,8	57,6	81,8
AR-406025P-HT	EFE-406025-HT	25,2	37,8	62,9	75,5	100,7	113,3	125,8	178,6
AQ-414012P-HT	EFE-414012-HT	14,6	21,8	36,4	43,7	58,2	65,5	72,8	103,0
AQ-414020P-HT	EFE-414020-HT	18,3	27,5	45,8	55,0	73,3	82,4	91,6	130,0

Enclosure types (polyester)		Maximum power dissipation (W) – Tamb. up to **60**°C						
		INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)	INTERNAL TEMP.127°C (T4/T135°C)
AQ-080806P-HT	EFE-080806-HT	1,7	3,5	4,4	6,1	7,0	7,8	11,7
AQ-080808P-HT	EFE-080808-HT	2,3	4,6	5,7	8,0	9,1	10,2	15,2
AR-081106P-HT	EFE-081106-HT	2,1	4,3	5,3	7,5	8,5	9,6	14,3
AR-081108P-HT	EFE-081108-HT	2,8	5,6	7,0	9,8	11,2	12,6	18,7
AR-081606P-HT	EFE-081606-HT	2,9	5,8	7,2	10,1	11,6	13,0	19,4
AR-081608P-HT	EFE-081608-HT	3,4	6,8	8,5	11,9	13,7	15,4	22,9
AR-081906P-HT	EFE-081906-HT	3,2	6,4	8,0	11,2	12,8	14,4	21,4
AR-081908P-HT	EFE-081908-HT	3,8	7,5	9,4	13,2	15,1	17,0	25,3
AR-082306P-HT	EFE-082306-HT	3,6	7,2	9,0	12,6	14,4	16,2	24,1
AR-082308P-HT	EFE-082308-HT	4,2	8,5	10,6	14,8	16,9	19,0	28,3
AQ-121209P-HT	EFE-121209-HT	4,0	8,0	10,0	14,0	15,9	17,9	26,7
AR-122209P-HT	EFE-122209-HT	5,4	10,8	13,5	18,9	21,6	24,3	36,2
AQ-161609P-HT	EFE-161609-HT	5,2	10,4	13,0	18,2	20,8	23,4	34,8
AR-162609P-HT	EFE-162609-HT	6,7	13,4	16,8	23,5	26,8	30,2	44,9
AR-163609P-HT	EFE-163609-HT	8,1	16,2	20,3	28,4	32,4	36,5	54,2
AR-165609P-HT	EFE-165609-HT	10,7	21,4	26,7	37,4	42,7	48,1	71,5
AQ-202017P-HT	EFE-202017-HT	9,0	18,0	22,4	31,4	35,9	40,4	60,1
AR-203017P-HT	EFE-203017-HT	10,4	20,9	26,1	36,5	41,7	47,0	69,9
AQ-252612P-HT	EFE-252612-HT	9,4	18,8	23,5	32,9	37,6	42,4	63,0
AQ-252616P-HT	EFE-252616-HT	10,4	20,8	26,0	36,3	41,5	46,7	69,5
AR-254012P-HT	EFE-254012-HT	11,4	22,8	28,5	39,9	45,7	51,4	76,5
AR-254016P-HT	EFE-254016-HT	13,1	26,2	32,7	45,8	52,4	58,9	87,7
AR-256012P-HT	EFE-256012-HT	14,5	29,0	36,3	50,8	58,1	65,3	97,2
AR-304020P-HT	EFE-304020-HT	16,2	32,3	40,4	56,6	64,7	72,7	108,3
AQ-363609P-HT	EFE-363609-HT	11,5	23,0	28,8	40,3	46,1	51,8	77,1
AR-406025P-HT	EFE-406025-HT	25,2	50,3	62,9	88,1	100,7	113,3	168,7
AQ-414012P-HT	EFE-414012-HT	14,6	29,1	36,4	51,0	58,2	65,5	97,5
AQ-414020P-HT	EFE-414020-HT	18,3	36,6	45,8	64,1	73,3	82,4	122,7

Enclosure types (polyester)		Maximum power dissipation (W) Tamb. up to **95**°C		
		INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)	INTERNAL TEMP.127°C (T4/T135°C)
AQ-080806P-HT	EFE-080806-HT	0,9	1,7	5,6
AQ-080808P-HT	EFE-080808-HT	1,1	2,3	7,3
AR-081106P-HT	EFE-081106-HT	1,1	2,1	6,5
AR-081108P-HT	EFE-081108-HT	1,4	2,8	9,0
AR-081606P-HT	EFE-081606-HT	1,4	2,9	9,2
AR-081608P-HT	EFE-081608-HT	1,7	3,4	10,9
AR-081906P-HT	EFE-081906-HT	1,6	3,2	10,2
AR-081908P-HT	EFE-081908-HT	1,9	3,8	12,1
AR-082306P-HT	EFE-082306-HT	1,8	3,6	11,5
AR-082308P-HT	EFE-082308-HT	2,1	4,2	13,5
AQ-121209P-HT	EFE-121209-HT	2,0	4,0	12,8
AR-122209P-HT	EFE-122209-HT	2,7	5,4	17,3
AQ-161609P-HT	EFE-161609-HT	2,6	5,2	16,6
AR-162609P-HT	EFE-162609-HT	3,4	6,7	21,5
AR-163609P-HT	EFE-163609-HT	4,1	8,1	26,0
AR-165609P-HT	EFE-165609-HT	5,3	10,7	34,2
AQ-202017P-HT	EFE-202017-HT	4,5	9,0	28,7
AR-203017P-HT	EFE-203017-HT	5,2	10,4	33,4
AQ-252612P-HT	EFE-252612-HT	4,7	9,4	30,1
AQ-252616P-HT	EFE-252616-HT	5,2	10,4	33,2
AR-254012P-HT	EFE-254012-HT	5,7	11,4	36,5
AR-254016P-HT	EFE-254016-HT	6,5	13,1	41,9
AR-256012P-HT	EFE-256012-HT	7,3	14,5	46,4
AR-304020P-HT	EFE-304020-HT	8,1	16,2	51,8
AQ-363609P-HT	EFE-363609-HT	5,8	11,5	36,8
AR-406025P-HT	EFE-406025-HT	12,6	25,2	80,6
AQ-414012P-HT	EFE-414012-HT	7,3	14,6	46,6
AQ-414020P-HT	EFE-414020-HT	9,2	18,3	58,6

Power dissipation – HT aluminium alloy enclosures

Enclosure types (aluminium)		Maximum power dissipation (W) – Tamb. up to **40**°C							
		INTERNAL TEMP.60°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)	INTERNAL TEMP.130°C (T4/T135°C)
AQ-080806AL-HT	EFXE-080806AL-HT	5,2	7,8	10,4	11,7	14,3	15,6	16,9	23,4
AR-081306AL-HT	EFXE-081306AL-HT	7,0	10,6	14,1	15,9	19,4	21,2	23,0	31,8
AR-081806AL-HT	EFXE-081806AL-HT	8,9	13,3	17,8	20,0	24,5	26,7	28,9	40,0
AR-082505AL-HT	EFXE-082505AL-HT	10,9	16,4	21,9	24,7	30,1	32,9	35,6	49,4
AQ-101008AL-HT	EFXE-101008AL-HT	8,7	13,0	17,4	19,6	23,9	26,1	28,3	39,2
AR-101608AL-HT	EFXE-101608AL-HT	11,5	17,3	23,1	26,0	31,8	34,7	37,6	52,0
AR-102008AL-HT	EFXE-102008AL-HT	13,4	20,1	26,8	30,2	36,9	40,3	43,6	60,4
AQ-121208AL-HT	EFXE-121208AL-HT	10,8	16,2	21,6	24,3	29,7	32,4	35,1	48,6
AQ-121209AL-HT	EFXE-121209AL-HT	11,6	17,5	23,3	26,2	32,1	35,0	37,9	52,5
AR-122208AL-HT	EFXE-122208AL-HT	15,6	23,5	31,3	35,3	43,1	47,0	50,9	70,6
AR-122209AL-HT	EFXE-122209AL-HT	16,8	25,3	33,7	37,9	46,3	50,6	54,8	75,9
AR-123608AL-HT	EFXE-123608AL-HT	22,3	33,5	44,7	50,3	61,5	67,1	72,7	100,7
AQ-141409AL-HT	EFXE-141409AL-HT	13,7	20,6	27,5	31,0	37,9	41,3	44,8	62,0
AR-142009AL-HT	EFXE-142009AL-HT	17,1	25,7	34,2	38,5	47,1	51,4	55,7	77,1
AQ-161609AL-HT	EFXE-161609AL-HT	16,1	24,1	32,2	36,2	44,2	48,3	52,3	72,4
AR-162609AL-HT	EFXE-162609AL-HT	21,9	32,8	43,8	49,3	60,2	65,7	71,2	98,6
AR-163609AL-HT	EFXE-163609AL-HT	27,5	41,3	55,1	62,0	75,7	82,6	89,5	124,0
AR-165609AL-HT	EFXE-165609AL-HT	38,4	57,7	76,9	86,6	105,8	115,4	125,0	173,2
AQ-181810AL-HT	EFXE-181810AL-HT	19,7	29,6	39,5	44,4	54,3	59,2	64,2	88,8
AR-182810AL-HT	EFXE-182810AL-HT	26,1	39,1	52,2	58,7	71,8	78,3	84,8	117,5
AR-102311AL-HT	EFXE-102311AL-HT	18,2	27,3	36,5	41,0	50,1	54,7	59,3	82,1
AR-202311AL-HT	EFXE-202311AL-HT	26,1	39,1	52,2	58,7	71,7	78,3	84,8	117,4
AR-202318AL-HT	EFXE-202318AL-HT	35,9	53,9	71,8	80,8	98,8	107,8	116,8	161,7
AR-232811AL-HT	EFXE-232811AL-HT	31,6	47,5	63,3	71,3	87,1	95,0	103,0	142,6
AR-233311AL-HT	EFXE-233311AL-HT	35,3	52,9	70,6	79,4	97,0	105,9	114,7	158,8
AR-233318AL-HT	EFXE-233318AL-HT	47,5	71,3	95,1	107,0	130,8	142,7	154,6	214,1
AR-234011AL-HT	EFXE-234011AL-HT	40,2	60,4	80,5	90,6	110,7	120,8	130,9	181,2
AR-234023AL-HT	EFXE-234023AL-HT	62,2	93,3	124,5	140,0	171,2	186,7	202,3	280,1
AR-236011AL-HT	EFXE-236011AL-HT	54,1	81,2	108,3	121,9	148,9	162,5	176,0	243,8
AR-314011AL-HT	EFXE-314011AL-HT	48,6	72,9	97,2	109,3	133,6	145,8	157,9	218,7
AR-314014AL-HT	EFXE-314014AL-HT	54,9	82,4	109,9	123,7	151,2	164,9	178,7	247,4
AR-314018AL-HT	EFXE-314018AL-HT	63,8	95,7	127,6	143,5	175,4	191,4	207,3	287,1
AR-314023AL-HT	EFXE-314023AL-HT	73,5	110,3	147,1	165,5	202,3	220,7	239,1	331,0
AR-316011AL-HT	EFXE-316011AL-HT	64,0	96,0	128,1	144,1	176,1	192,1	208,1	288,2
AR-316018AL-HT	EFXE-316018AL-HT	82,7	124,1	165,5	186,2	227,6	248,3	268,9	372,4
AQ-606020AL-HT	EFXE-606020AL-HT	129,1	193,7	258,3	290,5	355,1	387,4	419,7	581,1

Enclosure types (aluminium)		Maximum power dissipation (W) – Tamb. up to **50**°C							
		INTERNAL TEMP.60°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)	INTERNAL TEMP.130°C (T4/T135°C)
AQ-080806AL-HT	EFXE-080806AL-HT	2,6	5,2	7,8	9,1	11,7	13,0	14,3	20,8
AR-081306AL-HT	EFXE-081306AL-HT	3,5	7,0	10,6	12,3	15,9	17,7	19,4	28,3
AR-081806AL-HT	EFXE-081806AL-HT	4,4	8,9	13,3	15,5	20,0	22,2	24,5	35,6
AR-082505AL-HT	EFXE-082505AL-HT	5,4	10,9	16,4	19,2	24,7	27,4	30,1	43,9
AQ-101008AL-HT	EFXE-101008AL-HT	4,3	8,7	13,0	15,2	19,6	21,7	23,9	34,8
AR-101608AL-HT	EFXE-101608AL-HT	5,7	11,5	17,3	20,2	26,0	28,9	31,8	46,2
AR-102008AL-HT	EFXE-102008AL-HT	6,7	13,4	20,1	23,5	30,2	33,5	36,9	53,7
AQ-121208AL-HT	EFXE-121208AL-HT	5,4	10,8	16,2	18,9	24,3	27,0	29,7	43,2
AQ-121209AL-HT	EFXE-121209AL-HT	5,8	11,6	17,5	20,4	26,2	29,2	32,1	46,7
AR-122208AL-HT	EFXE-122208AL-HT	7,8	15,6	23,5	27,4	35,3	39,2	43,1	62,7
AR-122209AL-HT	EFXE-122209AL-HT	8,4	16,8	25,3	29,5	37,9	42,1	46,3	67,4
AR-123608AL-HT	EFXE-123608AL-HT	11,1	22,3	33,5	39,1	50,3	55,9	61,5	89,5
AQ-141409AL-HT	EFXE-141409AL-HT	6,8	13,7	20,6	24,1	31,0	34,4	37,9	55,1
AR-142009AL-HT	EFXE-142009AL-HT	8,5	17,1	25,7	30,0	38,5	42,8	47,1	68,5
AQ-161609AL-HT	EFXE-161609AL-HT	8,0	16,1	24,1	28,1	36,2	40,2	44,2	64,4
AR-162609AL-HT	EFXE-162609AL-HT	10,9	21,9	32,8	38,3	49,3	54,8	60,2	87,6
AR-163609AL-HT	EFXE-163609AL-HT	13,7	27,5	41,3	48,2	62,0	68,9	75,7	110,2
AR-165609AL-HT	EFXE-165609AL-HT	19,2	38,4	57,7	67,3	86,6	96,2	105,8	153,9
AQ-181810AL-HT	EFXE-181810AL-HT	9,8	19,7	29,6	34,5	44,4	49,3	54,3	79,0
AR-182810AL-HT	EFXE-182810AL-HT	13,0	26,1	39,1	45,7	58,7	65,2	71,8	104,4
AR-102311AL-HT	EFXE-102311AL-HT	9,1	18,2	27,3	31,9	41,0	45,6	50,1	73,0
AR-202311AL-HT	EFXE-202311AL-HT	13,0	26,1	39,1	45,6	58,7	65,2	71,7	104,4
AR-202318AL-HT	EFXE-202318AL-HT	17,9	35,9	53,9	62,8	80,8	89,8	98,8	143,7
AR-232811AL-HT	EFXE-232811AL-HT	15,8	31,6	47,5	55,4	71,3	79,2	87,1	126,7
AR-233311AL-HT	EFXE-233311AL-HT	17,6	35,3	52,9	61,7	79,4	88,2	97,0	141,2
AR-233318AL-HT	EFXE-233318AL-HT	23,7	47,5	71,3	83,2	107,0	118,9	130,8	190,3
AR-234011AL-HT	EFXE-234011AL-HT	20,1	40,2	60,4	70,5	90,6	100,7	110,7	161,1
AR-234023AL-HT	EFXE-234023AL-HT	31,1	62,2	93,3	108,9	140,0	155,6	171,2	249,0
AR-236011AL-HT	EFXE-236011AL-HT	27,0	54,1	81,2	94,8	121,9	135,4	148,9	216,7
AR-314011AL-HT	EFXE-314011AL-HT	24,3	48,6	72,9	85,0	109,3	121,5	133,6	194,4
AR-314014AL-HT	EFXE-314014AL-HT	27,4	54,9	82,4	96,2	123,7	137,4	151,2	219,9
AR-314018AL-HT	EFXE-314018AL-HT	31,9	63,8	95,7	111,6	143,5	159,5	175,4	255,2
AR-314023AL-HT	EFXE-314023AL-HT	36,7	73,5	110,3	128,7	165,5	183,9	202,3	294,2
AR-316011AL-HT	EFXE-316011AL-HT	32,0	64,0	96,0	112,0	144,1	160,1	176,1	256,2
AR-316018AL-HT	EFXE-316018AL-HT	41,3	82,7	124,1	144,8	186,2	206,9	227,6	331,0
AQ-606020AL-HT	EFXE-606020AL-HT	64,5	129,1	193,7	226,0	290,5	322,8	355,1	516,6

Enclosure types (aluminium)		Maximum power dissipation (W) – Tamb. up to **55**°C							
		INTERNAL TEMP.65°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)	INTERNAL TEMP.130°C (T4/T135°C)
AQ-080806AL-HT	EFXE-080806AL-HT	2,6	3,9	6,5	7,8	10,4	11,7	13,0	19,5
AR-081306AL-HT	EFXE-081306AL-HT	3,5	5,3	8,8	10,6	14,1	15,9	17,7	26,5
AR-081806AL-HT	EFXE-081806AL-HT	4,4	6,6	11,1	13,3	17,8	20,0	22,2	33,4
AR-082505AL-HT	EFXE-082505AL-HT	5,4	8,2	13,7	16,4	21,9	24,7	27,4	41,1
AQ-101008AL-HT	EFXE-101008AL-HT	4,3	6,5	10,8	13,0	17,4	19,6	21,7	32,6
AR-101608AL-HT	EFXE-101608AL-HT	5,7	8,6	14,4	17,3	23,1	26,0	28,9	43,3
AR-102008AL-HT	EFXE-102008AL-HT	6,7	10,0	16,7	20,1	26,8	30,2	33,5	50,3
AQ-121208AL-HT	EFXE-121208AL-HT	5,4	8,1	13,5	16,2	21,6	24,3	27,0	40,5
AQ-121209AL-HT	EFXE-121209AL-HT	5,8	8,7	14,6	17,5	23,3	26,2	29,2	43,8
AR-122208AL-HT	EFXE-122208AL-HT	7,8	11,7	19,6	23,5	31,3	35,3	39,2	58,8
AR-122209AL-HT	EFXE-122209AL-HT	8,4	12,6	21,0	25,3	33,7	37,9	42,1	63,2
AR-123608AL-HT	EFXE-123608AL-HT	11,1	16,7	27,9	33,5	44,7	50,3	55,9	83,9
AQ-141409AL-HT	EFXE-141409AL-HT	6,8	10,3	17,2	20,6	27,5	31,0	34,4	51,7
AR-142009AL-HT	EFXE-142009AL-HT	8,5	12,8	21,4	25,7	34,2	38,5	42,8	64,3
AQ-161609AL-HT	EFXE-161609AL-HT	8,0	12,0	20,1	24,1	32,2	36,2	40,2	60,4
AR-162609AL-HT	EFXE-162609AL-HT	10,9	16,4	27,4	32,8	43,8	49,3	54,8	82,2
AR-163609AL-HT	EFXE-163609AL-HT	13,7	20,6	34,4	41,3	55,1	62,0	68,9	103,3
AR-165609AL-HT	EFXE-165609AL-HT	19,2	28,8	48,1	57,7	76,9	86,6	96,2	144,3
AQ-181810AL-HT	EFXE-181810AL-HT	9,8	14,8	24,6	29,6	39,5	44,4	49,3	74,0
AR-182810AL-HT	EFXE-182810AL-HT	13,0	19,5	32,6	39,1	52,2	58,7	65,2	97,9
AR-102311AL-HT	EFXE-102311AL-HT	9,1	13,6	22,8	27,3	36,5	41,0	45,6	68,4
AR-202311AL-HT	EFXE-202311AL-HT	13,0	19,5	32,6	39,1	52,2	58,7	65,2	97,9
AR-202318AL-HT	EFXE-202318AL-HT	17,9	26,9	44,9	53,9	71,8	80,8	89,8	134,7
AR-232811AL-HT	EFXE-232811AL-HT	15,8	23,7	39,6	47,5	63,3	71,3	79,2	118,8
AR-233311AL-HT	EFXE-233311AL-HT	17,6	26,4	44,1	52,9	70,6	79,4	88,2	132,3
AR-233318AL-HT	EFXE-233318AL-HT	23,7	35,6	59,4	71,3	95,1	107,0	118,9	178,4
AR-234011AL-HT	EFXE-234011AL-HT	20,1	30,2	50,3	60,4	80,5	90,6	100,7	151,0
AR-234023AL-HT	EFXE-234023AL-HT	31,1	46,6	77,8	93,3	124,5	140,0	155,6	233,4
AR-236011AL-HT	EFXE-236011AL-HT	27,0	40,6	67,7	81,2	108,3	121,9	135,4	203,1
AR-314011AL-HT	EFXE-314011AL-HT	24,3	36,4	60,7	72,9	97,2	109,3	121,5	182,3
AR-314014AL-HT	EFXE-314014AL-HT	27,4	41,2	68,7	82,4	109,9	123,7	137,4	206,2
AR-314018AL-HT	EFXE-314018AL-HT	31,9	47,8	79,7	95,7	127,6	143,5	159,5	239,2
AR-314023AL-HT	EFXE-314023AL-HT	36,7	55,1	91,9	110,3	147,1	165,5	183,9	275,8
AR-316011AL-HT	EFXE-316011AL-HT	32,0	48,0	80,0	96,0	128,1	144,1	160,1	240,1
AR-316018AL-HT	EFXE-316018AL-HT	41,3	62,0	103,4	124,1	165,5	186,2	206,9	310,3
AQ-606020AL-HT	EFXE-606020AL-HT	64,5	96,8	161,4	193,7	258,3	290,5	322,8	484,3

Enclosure types (aluminium)		Maximum power dissipation (W) – Tamb. up to **60**°C						
		INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)	INTERNAL TEMP.130°C (T4/T135°C)
AQ-080806AL-HT	EFXE-080806AL-HT	2,6	5,2	6,5	9,1	10,4	11,7	18,2
AR-081306AL-HT	EFXE-081306AL-HT	3,5	7,0	8,8	12,3	14,1	15,9	24,7
AR-081806AL-HT	EFXE-081806AL-HT	4,4	8,9	11,1	15,5	17,8	20,0	31,1
AR-082505AL-HT	EFXE-082505AL-HT	5,4	10,9	13,7	19,2	21,9	24,7	38,4
AQ-101008AL-HT	EFXE-101008AL-HT	4,3	8,7	10,8	15,2	17,4	19,6	30,4
AR-101608AL-HT	EFXE-101608AL-HT	5,7	11,5	14,4	20,2	23,1	26,0	40,5
AR-102008AL-HT	EFXE-102008AL-HT	6,7	13,4	16,7	23,5	26,8	30,2	47,0
AQ-121208AL-HT	EFXE-121208AL-HT	5,4	10,8	13,5	18,9	21,6	24,3	37,8
AQ-121209AL-HT	EFXE-121209AL-HT	5,8	11,6	14,6	20,4	23,3	26,2	40,8
AR-122208AL-HT	EFXE-122208AL-HT	7,8	15,6	19,6	27,4	31,3	35,3	54,9
AR-122209AL-HT	EFXE-122209AL-HT	8,4	16,8	21,0	29,5	33,7	37,9	59,0
AR-123608AL-HT	EFXE-123608AL-HT	11,1	22,3	27,9	39,1	44,7	50,3	78,3
AQ-141409AL-HT	EFXE-141409AL-HT	6,8	13,7	17,2	24,1	27,5	31,0	48,2
AR-142009AL-HT	EFXE-142009AL-HT	8,5	17,1	21,4	30,0	34,2	38,5	60,0
AQ-161609AL-HT	EFXE-161609AL-HT	8,0	16,1	20,1	28,1	32,2	36,2	56,3
AR-162609AL-HT	EFXE-162609AL-HT	10,9	21,9	27,4	38,3	43,8	49,3	76,7
AR-163609AL-HT	EFXE-163609AL-HT	13,7	27,5	34,4	48,2	55,1	62,0	96,4
AR-165609AL-HT	EFXE-165609AL-HT	19,2	38,4	48,1	67,3	76,9	86,6	134,7
AQ-181810AL-HT	EFXE-181810AL-HT	9,8	19,7	24,6	34,5	39,5	44,4	69,1
AR-182810AL-HT	EFXE-182810AL-HT	13,0	26,1	32,6	45,7	52,2	58,7	91,4
AR-102311AL-HT	EFXE-102311AL-HT	9,1	18,2	22,8	31,9	36,5	41,0	63,8
AR-202311AL-HT	EFXE-202311AL-HT	13,0	26,1	32,6	45,6	52,2	58,7	91,3
AR-202318AL-HT	EFXE-202318AL-HT	17,9	35,9	44,9	62,8	71,8	80,8	125,7
AR-232811AL-HT	EFXE-232811AL-HT	15,8	31,6	39,6	55,4	63,3	71,3	110,9
AR-233311AL-HT	EFXE-233311AL-HT	17,6	35,3	44,1	61,7	70,6	79,4	123,5
AR-233318AL-HT	EFXE-233318AL-HT	23,7	47,5	59,4	83,2	95,1	107,0	166,5
AR-234011AL-HT	EFXE-234011AL-HT	20,1	40,2	50,3	70,5	80,5	90,6	141,0
AR-234023AL-HT	EFXE-234023AL-HT	31,1	62,2	77,8	108,9	124,5	140,0	217,9
AR-236011AL-HT	EFXE-236011AL-HT	27,0	54,1	67,7	94,8	108,3	121,9	189,6
AR-314011AL-HT	EFXE-314011AL-HT	24,3	48,6	60,7	85,0	97,2	109,3	170,1
AR-314014AL-HT	EFXE-314014AL-HT	27,4	54,9	68,7	96,2	109,9	123,7	192,4
AR-314018AL-HT	EFXE-314018AL-HT	31,9	63,8	79,7	111,6	127,6	143,5	223,3
AR-314023AL-HT	EFXE-314023AL-HT	36,7	73,5	91,9	128,7	147,1	165,5	257,4
AR-316011AL-HT	EFXE-316011AL-HT	32,0	64,0	80,0	112,0	128,1	144,1	224,1
AR-316018AL-HT	EFXE-316018AL-HT	41,3	82,7	103,4	144,8	165,5	186,2	289,6
AQ-606020AL-HT	EFXE-606020AL-HT	64,5	129,1	161,4	226,0	258,3	290,5	452,0

Enclosure types (aluminium)		Maximum power dissipation (W) Tamb. up to **95**°C		
		INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)	INTERNAL TEMP.130°C (T4/T135°C)
AQ-080806AL-HT	EFXE-080806AL-HT	1,3	2,6	9,1
AR-081306AL-HT	EFXE-081306AL-HT	1,7	3,5	12,3
AR-081806AL-HT	EFXE-081806AL-HT	2,2	4,4	15,5
AR-082505AL-HT	EFXE-082505AL-HT	2,7	5,4	19,2
AQ-101008AL-HT	EFXE-101008AL-HT	2,1	4,3	15,2
AR-101608AL-HT	EFXE-101608AL-HT	2,8	5,7	20,2
AR-102008AL-HT	EFXE-102008AL-HT	3,3	6,7	23,5
AQ-121208AL-HT	EFXE-121208AL-HT	2,7	5,4	18,9
AQ-121209AL-HT	EFXE-121209AL-HT	2,9	5,8	20,4
AR-122208AL-HT	EFXE-122208AL-HT	3,9	7,8	27,4
AR-122209AL-HT	EFXE-122209AL-HT	4,2	8,4	29,5
AR-123608AL-HT	EFXE-123608AL-HT	5,5	11,1	39,1
AQ-141409AL-HT	EFXE-141409AL-HT	3,4	6,8	24,1
AR-142009AL-HT	EFXE-142009AL-HT	4,2	8,5	30,0
AQ-161609AL-HT	EFXE-161609AL-HT	4,0	8,0	28,1
AR-162609AL-HT	EFXE-162609AL-HT	5,4	10,9	38,3
AR-163609AL-HT	EFXE-163609AL-HT	6,8	13,7	48,2
AR-165609AL-HT	EFXE-165609AL-HT	9,6	19,2	67,3
AQ-181810AL-HT	EFXE-181810AL-HT	4,9	9,8	34,5
AR-182810AL-HT	EFXE-182810AL-HT	6,5	13,0	45,7
AR-102311AL-HT	EFXE-102311AL-HT	4,5	9,1	31,9
AR-202311AL-HT	EFXE-202311AL-HT	6,5	13,0	45,6
AR-202318AL-HT	EFXE-202318AL-HT	8,9	17,9	62,8
AR-232811AL-HT	EFXE-232811AL-HT	7,9	15,8	55,4
AR-233311AL-HT	EFXE-233311AL-HT	8,8	17,6	61,7
AR-233318AL-HT	EFXE-233318AL-HT	11,8	23,7	83,2
AR-234011AL-HT	EFXE-234011AL-HT	10,0	20,1	70,5
AR-234023AL-HT	EFXE-234023AL-HT	15,5	31,1	108,9
AR-236011AL-HT	EFXE-236011AL-HT	13,5	27,0	94,8
AR-314011AL-HT	EFXE-314011AL-HT	12,1	24,3	85,0
AR-314014AL-HT	EFXE-314014AL-HT	13,7	27,4	96,2
AR-314018AL-HT	EFXE-314018AL-HT	15,9	31,9	111,6
AR-314023AL-HT	EFXE-314023AL-HT	18,3	36,7	128,7
AR-316011AL-HT	EFXE-316011AL-HT	16,0	32,0	112,0
AR-316018AL-HT	EFXE-316018AL-HT	20,6	41,3	144,8
AQ-606020AL-HT	EFXE-606020AL-HT	32,2	64,5	226,0

Power dissipation – Glass fiber reinforced polyester resin enclosures

Enclosure types (polyester)		Maximum power dissipation (W) – Tamb. up to **40**°C						
		INTERNAL TEMP.60°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
AQ-080806P	EFE-080806	3,4	5,2	6,9	7,8	9,5	10,4	11,3
AQ-080808P	EFE-080808	4,5	6,8	9,1	10,2	12,5	13,6	14,7
AR-081106P	EFE-081106	4,2	6,4	8,5	9,6	11,7	12,8	13,8
AR-081606P	EFE-081606	5,7	8,6	11,5	13,0	15,9	17,3	18,8
AR-081906P	EFE-081906	6,4	9,6	12,8	14,4	17,6	19,2	20,8
AQ-121209P	EFE-121209	7,9	11,9	15,9	17,9	21,9	23,9	25,9
AR-122209P	EFE-122209	10,8	16,2	21,6	24,3	29,7	32,4	35,1
AQ-161609P	EFE-161609	10,3	15,5	20,7	23,3	28,5	31,1	33,7
AR-162609P	EFE-162609	13,4	20,1	26,8	30,1	36,8	40,2	43,5
AR-163609P	EFE-163609	16,2	24,3	32,4	36,4	44,5	48,6	52,6
AQ-252612P	EFE-252612	18,8	28,2	37,6	42,3	51,7	56,4	61,1
AQ-252616P	EFE-252616	21,7	32,6	43,5	49,0	59,9	65,3	70,8
AR-254012P	EFE-254012	23,9	35,9	47,9	53,9	65,9	71,8	77,8
AR-254016P	EFE-254016	27,4	41,2	54,9	61,8	75,6	82,4	89,3
AR-256012P	EFE-256012	29,0	43,5	58,0	65,3	79,8	87,1	94,3
AQ-414012P	EFE-414012	29,1	43,6	58,2	65,5	80,0	87,3	94,6
AQ-414016P	EFE-414016	32,9	49,4	65,9	74,1	90,6	98,8	107,0

Enclosure types (polyester)		Maximum power dissipation (W) – Tamb. up to **50**°C						
		INTERNAL TEMP.60°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
AQ-080806P	EFE-080806	1,7	3,4	5,2	6,0	7,8	8,7	9,5
AQ-080808P	EFE-080808	2,2	4,5	6,8	7,9	10,2	11,3	12,5
AR-081106P	EFE-081106	2,1	4,2	6,4	7,4	9,6	10,6	11,7
AR-081606P	EFE-081606	2,8	5,7	8,6	10,1	13,0	14,4	15,9
AR-081906P	EFE-081906	3,2	6,4	9,6	11,2	14,4	16,0	17,6
AQ-121209P	EFE-121209	3,9	7,9	11,9	13,9	17,9	19,9	21,9
AR-122209P	EFE-122209	5,4	10,8	16,2	18,9	24,3	27,0	29,7
AQ-161609P	EFE-161609	5,1	10,3	15,5	18,1	23,3	25,9	28,5
AR-162609P	EFE-162609	6,7	13,4	20,1	23,4	30,1	33,5	36,8
AR-163609P	EFE-163609	8,1	16,2	24,3	28,3	36,4	40,5	44,5
AQ-252612P	EFE-252612	9,4	18,8	28,2	32,9	42,3	47,0	51,7
AQ-252616P	EFE-252616	10,8	21,7	32,6	38,1	49,0	54,4	59,9
AR-254012P	EFE-254012	11,9	23,9	35,9	41,9	53,9	59,9	65,9
AR-254016P	EFE-254016	13,7	27,4	41,2	48,1	61,8	68,7	75,6
AR-256012P	EFE-256012	14,5	29,0	43,5	50,8	65,3	72,6	79,8
AQ-414012P	EFE-414012	14,5	29,1	43,6	50,9	65,5	72,7	80,0
AQ-414016P	EFE-414016	16,4	32,9	49,4	57,6	74,1	82,3	90,6

Enclosure types (polyester)		Maximum power dissipation (W) – Tamb. up to **55**°C						
		INTERNAL TEMP.65°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
AQ-080806P	EFE-080806	1,7	2,6	4,3	5,2	6,9	7,8	8,7
AQ-080808P	EFE-080808	2,2	3,4	5,6	6,8	9,1	10,2	11,3
AR-081106P	EFE-081106	2,1	3,2	5,3	6,4	8,5	9,6	10,6
AR-081606P	EFE-081606	2,8	4,3	7,2	8,6	11,5	13,0	14,4
AR-081906P	EFE-081906	3,2	4,8	8,0	9,6	12,8	14,4	16,0
AQ-121209P	EFE-121209	3,9	5,9	9,9	11,9	15,9	17,9	19,9
AR-122209P	EFE-122209	5,4	8,1	13,5	16,2	21,6	24,3	27,0
AQ-161609P	EFE-161609	5,1	7,7	12,9	15,5	20,7	23,3	25,9
AR-162609P	EFE-162609	6,7	10,0	16,7	20,1	26,8	30,1	33,5
AR-163609P	EFE-163609	8,1	12,1	20,2	24,3	32,4	36,4	40,5
AQ-252612P	EFE-252612	9,4	14,1	23,5	28,2	37,6	42,3	47,0
AQ-252616P	EFE-252616	10,8	16,3	27,2	32,6	43,5	49,0	54,4
AR-254012P	EFE-254012	11,9	17,9	29,9	35,9	47,9	53,9	59,9
AR-254016P	EFE-254016	13,7	20,6	34,3	41,2	54,9	61,8	68,7
AR-256012P	EFE-256012	14,5	21,7	36,3	43,5	58,0	65,3	72,6
AQ-414012P	EFE-414012	14,5	21,8	36,3	43,6	58,2	65,5	72,7
AQ-414016P	EFE-414016	16,4	24,7	41,1	49,4	65,9	74,1	82,3

Enclosure types (polyester)		Maximum power dissipation (W) – Tamb. up to **60**°C					
		INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
AQ-080806P	EFE-080806	1,7	3,4	4,3	6,0	6,9	7,8
AQ-080808P	EFE-080808	2,2	4,5	5,6	7,9	9,1	10,2
AR-081106P	EFE-081106	2,1	4,2	5,3	7,4	8,5	9,6
AR-081606P	EFE-081606	2,8	5,7	7,2	10,1	11,5	13,0
AR-081906P	EFE-081906	3,2	6,4	8,0	11,2	12,8	14,4
AQ-121209P	EFE-121209	3,9	7,9	9,9	13,9	15,9	17,9
AR-122209P	EFE-122209	5,4	10,8	13,5	18,9	21,6	24,3
AQ-161609P	EFE-161609	5,1	10,3	12,9	18,1	20,7	23,3
AR-162609P	EFE-162609	6,7	13,4	16,7	23,4	26,8	30,1
AR-163609P	EFE-163609	8,1	16,2	20,2	28,3	32,4	36,4
AQ-252612P	EFE-252612	9,4	18,8	23,5	32,9	37,6	42,3
AQ-252616P	EFE-252616	10,8	21,7	27,2	38,1	43,5	49,0
AR-254012P	EFE-254012	11,9	23,9	29,9	41,9	47,9	53,9
AR-254016P	EFE-254016	13,7	27,4	34,3	48,1	54,9	61,8
AR-256012P	EFE-256012	14,5	29,0	36,3	50,8	58,0	65,3
AQ-414012P	EFE-414012	14,5	29,1	36,3	50,9	58,2	65,5
AQ-414016P	EFE-414016	16,4	32,9	41,1	57,6	65,9	74,1

Enclosure types (polyester)		Maximum power dissipation (W) – Tamb. up to **95**°C	
		INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
AQ-080806P	EFE-080806	0,8	1,7
AQ-080808P	EFE-080808	1,1	2,2
AR-081106P	EFE-081106	1,0	2,1
AR-081606P	EFE-081606	1,4	2,8
AR-081906P	EFE-081906	1,6	3,2
AQ-121209P	EFE-121209	1,9	3,9
AR-122209P	EFE-122209	2,7	5,4
AQ-161609P	EFE-161609	2,5	5,1
AR-162609P	EFE-162609	3,3	6,7
AR-163609P	EFE-163609	4,0	8,1
AQ-252612P	EFE-252612	4,7	9,4
AQ-252616P	EFE-252616	5,4	10,8
AR-254012P	EFE-254012	5,9	11,9
AR-254016P	EFE-254016	6,8	13,7
AR-256012P	EFE-256012	7,2	14,5
AQ-414012P	EFE-414012	7,2	14,5
AQ-414016P	EFE-414016	8,2	16,4

Power dissipation – Aluminium alloy enclosures

Enclosure types (aluminium)		Maximum power dissipation (W) – Tamb. up to **40**°C						
		INTERNAL TEMP.60°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
AQ-080806AL	EFXE-080806AL	5,2	7,8	10,4	11,7	14,3	15,6	16,9
AR-081306AL	EFXE-081306AL	7,0	10,6	14,1	15,9	19,4	21,2	23,0
AR-081806AL	EFXE-081806AL	8,9	13,3	17,8	20,0	24,5	26,7	28,9
AR-081808AL	EFXE-081808AL	11,0	16,5	22,1	24,8	30,4	33,1	35,9
AR-082505AL	EFXE-082505AL	10,7	16,1	21,4	24,1	29,5	32,2	34,8
AR-082508AL	EFXE-082508AL	14,2	21,4	28,5	32,1	39,2	42,8	46,4
AQ-101008AL	EFXE-101008AL	8,7	13,0	17,4	19,6	23,9	26,1	28,3
AR-101508AL	EFXE-101508AL	11,1	16,6	22,2	24,9	30,5	33,3	36,0
AR-101608AL	EFXE-101608AL	11,5	17,3	23,1	26,0	31,8	34,7	37,6
AR-102008AL	EFXE-102008AL	13,4	20,1	26,8	30,2	36,9	40,3	43,6
AQ-121208AL	EFXE-121208AL	10,8	16,2	21,6	24,3	29,7	32,4	35,1
AR-122209AL	EFXE-122209AL	16,8	25,3	33,7	37,9	46,3	50,6	54,8
AQ-141409AL	EFXE-141409AL	13,7	20,6	27,5	31,0	37,9	41,3	44,8
AR-142009AL	EFXE-142009AL	17,1	25,7	34,2	38,5	47,1	51,4	55,7
AQ-161609AL	EFXE-161609AL	17,2	25,8	34,4	38,7	47,3	51,6	55,9
AR-162410AL	EFXE-162410AL	22,1	33,1	44,2	49,7	60,8	66,3	71,8
AR-162609AL	EFXE-162609AL	21,9	32,8	43,8	49,3	60,2	65,7	71,2
AQ-181810AL	EFXE-181810AL	19,7	29,6	39,5	44,4	54,3	59,2	64,2
AR-182810AL	EFXE-182810AL	26,1	39,1	52,2	58,7	71,8	78,3	84,8
AR-202311AL	EFXE-202311AL	25,8	38,7	51,6	58,0	71,0	77,4	83,9
AR-202318AL	EFXE-202318AL	35,5	53,3	71,1	80,0	97,8	106,7	115,6
AR-232811AL	EFXE-232811AL	31,6	47,5	63,3	71,3	87,1	95,0	103,0
AR-233312AL	EFXE-233312AL	37,0	55,6	74,1	83,4	101,9	111,2	120,5
AR-233318AL	EFXE-233318AL	47,5	71,3	95,1	107,0	130,8	142,7	154,6

Enclosure types (aluminium)		Maximum power dissipation (W) – Tamb. up to **50**°C						
		INTERNAL TEMP.60°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
AQ-080806AL	EFXE-080806AL	2,6	5,2	7,8	9,1	11,7	13,0	14,3
AR-081306AL	EFXE-081306AL	3,5	7,0	10,6	12,3	15,9	17,7	19,4
AR-081806AL	EFXE-081806AL	4,4	8,9	13,3	15,5	20,0	22,2	24,5
AR-081808AL	EFXE-081808AL	5,5	11,0	16,5	19,3	24,8	27,6	30,4
AR-082505AL	EFXE-082505AL	5,3	10,7	16,1	18,7	24,1	26,8	29,5
AR-082508AL	EFXE-082508AL	7,1	14,2	21,4	24,9	32,1	35,7	39,2
AQ-101008AL	EFXE-101008AL	4,3	8,7	13,0	15,2	19,6	21,7	23,9
AR-101508AL	EFXE-101508AL	5,5	11,1	16,6	19,4	24,9	27,7	30,5
AR-101608AL	EFXE-101608AL	5,7	11,5	17,3	20,2	26,0	28,9	31,8
AR-102008AL	EFXE-102008AL	6,7	13,4	20,1	23,5	30,2	33,5	36,9
AQ-121208AL	EFXE-121208AL	5,4	10,8	16,2	18,9	24,3	27,0	29,7
AR-122209AL	EFXE-122209AL	8,4	16,8	25,3	29,5	37,9	42,1	46,3
AQ-141409AL	EFXE-141409AL	6,8	13,7	20,6	24,1	31,0	34,4	37,9
AR-142009AL	EFXE-142009AL	8,5	17,1	25,7	30,0	38,5	42,8	47,1
AQ-161609AL	EFXE-161609AL	8,6	17,2	25,8	30,1	38,7	43,0	47,3
AR-162410AL	EFXE-162410AL	11,0	22,1	33,1	38,7	49,7	55,3	60,8
AR-162609AL	EFXE-162609AL	10,9	21,9	32,8	38,3	49,3	54,8	60,2
AQ-181810AL	EFXE-181810AL	9,8	19,7	29,6	34,5	44,4	49,3	54,3
AR-182810AL	EFXE-182810AL	13,0	26,1	39,1	45,7	58,7	65,2	71,8
AR-202311AL	EFXE-202311AL	12,9	25,8	38,7	45,1	58,0	64,5	71,0
AR-202318AL	EFXE-202318AL	17,7	35,5	53,3	62,2	80,0	88,9	97,8
AR-232811AL	EFXE-232811AL	15,8	31,6	47,5	55,4	71,3	79,2	87,1
AR-233312AL	EFXE-233312AL	18,5	37,0	55,6	64,8	83,4	92,7	101,9
AR-233318AL	EFXE-233318AL	23,7	47,5	71,3	83,2	107,0	118,9	130,8

Enclosure types (aluminium)		Maximum power dissipation (W) – Tamb. up to **55**°C						
		INTERNAL TEMP.65°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
AQ-080806AL	EFXE-080806AL	2,6	3,9	6,5	7,8	10,4	11,7	13,0
AR-081306AL	EFXE-081306AL	3,5	5,3	8,8	10,6	14,1	15,9	17,7
AR-081806AL	EFXE-081806AL	4,4	6,6	11,1	13,3	17,8	20,0	22,2
AR-081808AL	EFXE-081808AL	5,5	8,2	13,8	16,5	22,1	24,8	27,6
AR-082505AL	EFXE-082505AL	5,3	8,0	13,4	16,1	21,4	24,1	26,8
AR-082508AL	EFXE-082508AL	7,1	10,7	17,8	21,4	28,5	32,1	35,7
AQ-101008AL	EFXE-101008AL	4,3	6,5	10,8	13,0	17,4	19,6	21,7
AR-101508AL	EFXE-101508AL	5,5	8,3	13,8	16,6	22,2	24,9	27,7
AR-101608AL	EFXE-101608AL	5,7	8,6	14,4	17,3	23,1	26,0	28,9
AR-102008AL	EFXE-102008AL	6,7	10,0	16,7	20,1	26,8	30,2	33,5
AQ-121208AL	EFXE-121208AL	5,4	8,1	13,5	16,2	21,6	24,3	27,0
AR-122209AL	EFXE-122209AL	8,4	12,6	21,0	25,3	33,7	37,9	42,1
AQ-141409AL	EFXE-141409AL	6,8	10,3	17,2	20,6	27,5	31,0	34,4
AR-142009AL	EFXE-142009AL	8,5	12,8	21,4	25,7	34,2	38,5	42,8
AQ-161609AL	EFXE-161609AL	8,6	12,9	21,5	25,8	34,4	38,7	43,0
AR-162410AL	EFXE-162410AL	11,0	16,5	27,6	33,1	44,2	49,7	55,3
AR-162609AL	EFXE-162609AL	10,9	16,4	27,4	32,8	43,8	49,3	54,8
AQ-181810AL	EFXE-181810AL	9,8	14,8	24,6	29,6	39,5	44,4	49,3
AR-182810AL	EFXE-182810AL	13,0	19,5	32,6	39,1	52,2	58,7	65,2
AR-202311AL	EFXE-202311AL	12,9	19,3	32,2	38,7	51,6	58,0	64,5
AR-202318AL	EFXE-202318AL	17,7	26,6	44,4	53,3	71,1	80,0	88,9
AR-232811AL	EFXE-232811AL	15,8	23,7	39,6	47,5	63,3	71,3	79,2
AR-233312AL	EFXE-233312AL	18,5	27,8	46,3	55,6	74,1	83,4	92,7
AR-233318AL	EFXE-233318AL	23,7	35,6	59,4	71,3	95,1	107,0	118,9

Enclosure types (aluminium)		Maximum power dissipation (W) – Tamb. up to **60**°C					
		INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
AQ-080806AL	EFXE-080806AL	2,6	5,2	6,5	9,1	10,4	11,7
AR-081306AL	EFXE-081306AL	3,5	7,0	8,8	12,3	14,1	15,9
AR-081806AL	EFXE-081806AL	4,4	8,9	11,1	15,5	17,8	20,0
AR-081808AL	EFXE-081808AL	5,5	11,0	13,8	19,3	22,1	24,8
AR-082505AL	EFXE-082505AL	5,3	10,7	13,4	18,7	21,4	24,1
AR-082508AL	EFXE-082508AL	7,1	14,2	17,8	24,9	28,5	32,1
AQ-101008AL	EFXE-101008AL	4,3	8,7	10,8	15,2	17,4	19,6
AR-101508AL	EFXE-101508AL	5,5	11,1	13,8	19,4	22,2	24,9
AR-101608AL	EFXE-101608AL	5,7	11,5	14,4	20,2	23,1	26,0
AR-102008AL	EFXE-102008AL	6,7	13,4	16,7	23,5	26,8	30,2
AQ-121208AL	EFXE-121208AL	5,4	10,8	13,5	18,9	21,6	24,3
AR-122209AL	EFXE-122209AL	8,4	16,8	21,0	29,5	33,7	37,9
AQ-141409AL	EFXE-141409AL	6,8	13,7	17,2	24,1	27,5	31,0
AR-142009AL	EFXE-142009AL	8,5	17,1	21,4	30,0	34,2	38,5
AQ-161609AL	EFXE-161609AL	8,6	17,2	21,5	30,1	34,4	38,7
AR-162410AL	EFXE-162410AL	11,0	22,1	27,6	38,7	44,2	49,7
AR-162609AL	EFXE-162609AL	10,9	21,9	27,4	38,3	43,8	49,3
AQ-181810AL	EFXE-181810AL	9,8	19,7	24,6	34,5	39,5	44,4
AR-182810AL	EFXE-182810AL	13,0	26,1	32,6	45,7	52,2	58,7
AR-202311AL	EFXE-202311AL	12,9	25,8	32,2	45,1	51,6	58,0
AR-202318AL	EFXE-202318AL	17,7	35,5	44,4	62,2	71,1	80,0
AR-232811AL	EFXE-232811AL	15,8	31,6	39,6	55,4	63,3	71,3
AR-233312AL	EFXE-233312AL	18,5	37,0	46,3	64,8	74,1	83,4
AR-233318AL	EFXE-233318AL	23,7	47,5	59,4	83,2	95,1	107,0

Enclosure types (aluminium)		Maximum power dissipation (W) – Tamb. up to **95**°C	
		INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
AQ-080806AL	EFXE-080806AL	1,3	2,6
AR-081306AL	EFXE-081306AL	1,7	3,5
AR-081806AL	EFXE-081806AL	2,2	4,4
AR-081808AL	EFXE-081808AL	2,7	5,5
AR-082505AL	EFXE-082505AL	2,6	5,3
AR-082508AL	EFXE-082508AL	3,5	7,1
AQ-101008AL	EFXE-101008AL	2,1	4,3
AR-101508AL	EFXE-101508AL	2,7	5,5
AR-101608AL	EFXE-101608AL	2,8	5,7
AR-102008AL	EFXE-102008AL	3,3	6,7
AQ-121208AL	EFXE-121208AL	2,7	5,4
AR-122209AL	EFXE-122209AL	4,2	8,4
AQ-141409AL	EFXE-141409AL	3,4	6,8
AR-142009AL	EFXE-142009AL	4,2	8,5
AQ-161609AL	EFXE-161609AL	4,3	8,6
AR-162410AL	EFXE-162410AL	5,5	11,0
AR-162609AL	EFXE-162609AL	5,4	10,9
AQ-181810AL	EFXE-181810AL	4,9	9,8
AR-182810AL	EFXE-182810AL	6,5	13,0
AR-202311AL	EFXE-202311AL	6,4	12,9
AR-202318AL	EFXE-202318AL	8,8	17,7
AR-232811AL	EFXE-232811AL	7,9	15,8
AR-233312AL	EFXE-233312AL	9,2	18,5
AR-233318AL	EFXE-233318AL	11,8	23,7

Power dissipation – Stainless steel enclosures SB series

Enclosure types (stainless steel)		Maximum power dissipation (W) – Tamb. up to **40**°C						
		INTERNAL TEMP.60°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
SB-101210	EFXE-101210SB	5,5	8,3	11,1	12,5	15,3	16,7	18,1
SB-151510	EFXE-151510SB	8,0	12,0	16,0	18,0	22,0	24,0	26,1
SB-142013	EFXE-142013SB	10,4	15,7	20,9	23,5	28,8	31,4	34,0
SB-202010	EFXE-202010SB	10,7	16,1	21,4	24,1	29,5	32,2	34,8
SB-202016	EFXE-202016SB	13,9	20,8	27,8	31,3	38,3	41,7	45,2
SB-202713	EFXE-202713SB	14,4	21,6	28,9	32,5	39,7	43,3	46,9
SB-272713	EFXE-272713SB	16,7	25,1	33,5	37,7	46,0	50,2	54,4
SB-203016	EFXE-203016SB	17,1	25,7	34,3	38,6	47,2	51,4	55,7
SB-273513	EFXE-273513SB	19,2	28,9	38,5	43,3	53,0	57,8	62,6
SB-282816	EFXE-282816SB	19,3	29,0	38,7	43,6	53,3	58,1	63,0
SB-204016	EFXE-204016SB	20,2	30,3	40,4	45,5	55,6	60,6	65,7
SB-353516	EFXE-353516SB	24,4	36,6	48,8	54,9	67,1	73,2	79,3
SB-282827	EFXE-282827SB	26,2	39,3	52,5	59,0	72,2	78,7	85,3
SB-355016	EFXE-355016SB	29,7	44,5	59,4	66,8	81,7	89,1	96,6
SB-383816	EFXE-383816SB	26,6	39,9	53,2	59,8	73,1	79,8	86,5
SB-384516	EFXE-384516SB	29,1	43,7	58,3	65,6	80,2	87,5	94,8
SB-385716	EFXE-385716SB	33,4	50,1	66,8	75,2	91,9	100,3	108,7
SB-505016	EFXE-505016SB	35,8	53,8	71,7	80,7	98,6	107,6	116,6
SB-383827	EFXE-383827SB	35,1	52,7	70,2	79,0	96,6	105,4	114,2
SB-575716	EFXE-575716SB	41,5	62,3	83,1	93,5	114,3	124,7	135,1
SB-577620	EFXE-577620SB	53,9	80,9	107,9	121,3	148,3	161,8	175,3
SB-575730	EFXE-575730SB	55,8	83,7	111,6	125,6	153,5	167,5	181,4
SB-769520	EFXE-769520SB	72,2	108,3	144,4	162,4	198,5	216,6	234,6
SB-1258040	EFXE-1258040SB	72,2	108,3	144,4	162,4	198,5	216,6	234,6

Enclosure types (Stainless steel)		Maximum power dissipation (W) – Tamb. up to **50**°C						
		INTERNAL TEMP.60°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
SB-101210	EFXE-101210SB	2,7	5,5	8,3	9,7	12,5	13,9	15,3
SB-151510	EFXE-151510SB	4,0	8,0	12,0	14,0	18,0	20,0	22,0
SB-142013	EFXE-142013SB	5,2	10,4	15,7	18,3	23,5	26,2	28,8
SB-202010	EFXE-202010SB	5,3	10,7	16,1	18,7	24,1	26,8	29,5
SB-202016	EFXE-202016SB	6,9	13,9	20,8	24,3	31,3	34,8	38,3
SB-202713	EFXE-202713SB	7,2	14,4	21,6	25,2	32,5	36,1	39,7
SB-272713	EFXE-272713SB	8,3	16,7	25,1	29,3	37,7	41,8	46,0
SB-203016	EFXE-203016SB	8,5	17,1	25,7	30,0	38,6	42,9	47,2
SB-273513	EFXE-273513SB	9,6	19,2	28,9	33,7	43,3	48,2	53,0
SB-282816	EFXE-282816SB	9,6	19,3	29,0	33,9	43,6	48,4	53,3
SB-204016	EFXE-204016SB	10,1	20,2	30,3	35,4	45,5	50,5	55,6
SB-353516	EFXE-353516SB	12,2	24,4	36,6	42,7	54,9	61,0	67,1
SB-282827	EFXE-282827SB	13,1	26,2	39,3	45,9	59,0	65,6	72,2
SB-355016	EFXE-355016SB	14,8	29,7	44,5	52,0	66,8	74,3	81,7
SB-383816	EFXE-383816SB	13,3	26,6	39,9	46,5	59,8	66,5	73,1
SB-384516	EFXE-384516SB	14,5	29,1	43,7	51,0	65,6	72,9	80,2
SB-385716	EFXE-385716SB	16,7	33,4	50,1	58,5	75,2	83,6	91,9
SB-505016	EFXE-505016SB	17,9	35,8	53,8	62,7	80,7	89,7	98,6
SB-383827	EFXE-383827SB	17,5	35,1	52,7	61,4	79,0	87,8	96,6
SB-575716	EFXE-575716SB	20,7	41,5	62,3	72,7	93,5	103,9	114,3
SB-577620	EFXE-577620SB	26,9	53,9	80,9	94,4	121,3	134,8	148,3
SB-575730	EFXE-575730SB	27,9	55,8	83,7	97,7	125,6	139,5	153,5
SB-769520	EFXE-769520SB	36,1	72,2	108,3	126,3	162,4	180,5	198,5
SB-1258040	EFXE-1258040SB	36,1	72,2	108,3	126,3	162,4	180,5	198,5

Enclosure types (Stainless steel)		Maximum power dissipation (W) – Tamb. up to **55**°C						
		INTERNAL TEMP.65°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
SB-101210	EFXE-101210SB	2,7	4,1	6,9	8,3	11,1	12,5	13,9
SB-151510	EFXE-151510SB	4,0	6,0	10,0	12,0	16,0	18,0	20,0
SB-142013	EFXE-142013SB	5,2	7,8	13,1	15,7	20,9	23,5	26,2
SB-202010	EFXE-202010SB	5,3	8,0	13,4	16,1	21,4	24,1	26,8
SB-202016	EFXE-202016SB	6,9	10,4	17,4	20,8	27,8	31,3	34,8
SB-202713	EFXE-202713SB	7,2	10,8	18,0	21,6	28,9	32,5	36,1
SB-272713	EFXE-272713SB	8,3	12,5	20,9	25,1	33,5	37,7	41,8
SB-203016	EFXE-203016SB	8,5	12,8	21,4	25,7	34,3	38,6	42,9
SB-273513	EFXE-273513SB	9,6	14,4	24,1	28,9	38,5	43,3	48,2
SB-282816	EFXE-282816SB	9,6	14,5	24,2	29,0	38,7	43,6	48,4
SB-204016	EFXE-204016SB	10,1	15,1	25,2	30,3	40,4	45,5	50,5
SB-353516	EFXE-353516SB	12,2	18,3	30,5	36,6	48,8	54,9	61,0
SB-282827	EFXE-282827SB	13,1	19,6	32,8	39,3	52,5	59,0	65,6
SB-355016	EFXE-355016SB	14,8	22,2	37,1	44,5	59,4	66,8	74,3
SB-383816	EFXE-383816SB	13,3	19,9	33,2	39,9	53,2	59,8	66,5
SB-384516	EFXE-384516SB	14,5	21,8	36,4	43,7	58,3	65,6	72,9
SB-385716	EFXE-385716SB	16,7	25,0	41,8	50,1	66,8	75,2	83,6
SB-505016	EFXE-505016SB	17,9	26,9	44,8	53,8	71,7	80,7	89,7
SB-383827	EFXE-383827SB	17,5	26,3	43,9	52,7	70,2	79,0	87,8
SB-575716	EFXE-575716SB	20,7	31,1	51,9	62,3	83,1	93,5	103,9
SB-577620	EFXE-577620SB	26,9	40,4	67,4	80,9	107,9	121,3	134,8
SB-575730	EFXE-575730SB	27,9	41,8	69,7	83,7	111,6	125,6	139,5
SB-769520	EFXE-769520SB	36,1	54,1	90,2	108,3	144,4	162,4	180,5
SB-1258040	EFXE-1258040SB	36,1	54,1	90,2	108,3	144,4	162,4	180,5

Enclosure types (Stainless steel)		Maximum power dissipation (W) – Tamb. up to **60**°C					
		INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
SB-101210	EFXE-101210SB	2,7	5,5	6,9	9,7	11,1	12,5
SB-151510	EFXE-151510SB	4,0	8,0	10,0	14,0	16,0	18,0
SB-142013	EFXE-142013SB	5,2	10,4	13,1	18,3	20,9	23,5
SB-202010	EFXE-202010SB	5,3	10,7	13,4	18,7	21,4	24,1
SB-202016	EFXE-202016SB	6,9	13,9	17,4	24,3	27,8	31,3
SB-202713	EFXE-202713SB	7,2	14,4	18,0	25,2	28,9	32,5
SB-272713	EFXE-272713SB	8,3	16,7	20,9	29,3	33,5	37,7
SB-203016	EFXE-203016SB	8,5	17,1	21,4	30,0	34,3	38,6
SB-273513	EFXE-273513SB	9,6	19,2	24,1	33,7	38,5	43,3
SB-282816	EFXE-282816SB	9,6	19,3	24,2	33,9	38,7	43,6
SB-204016	EFXE-204016SB	10,1	20,2	25,2	35,4	40,4	45,5
SB-353516	EFXE-353516SB	12,2	24,4	30,5	42,7	48,8	54,9
SB-282827	EFXE-282827SB	13,1	26,2	32,8	45,9	52,5	59,0
SB-355016	EFXE-355016SB	14,8	29,7	37,1	52,0	59,4	66,8
SB-383816	EFXE-383816SB	13,3	26,6	33,2	46,5	53,2	59,8
SB-384516	EFXE-384516SB	14,5	29,1	36,4	51,0	58,3	65,6
SB-385716	EFXE-385716SB	16,7	33,4	41,8	58,5	66,8	75,2
SB-505016	EFXE-505016SB	17,9	35,8	44,8	62,7	71,7	80,7
SB-383827	EFXE-383827SB	17,5	35,1	43,9	61,4	70,2	79,0
SB-575716	EFXE-575716SB	20,7	41,5	51,9	72,7	83,1	93,5
SB-577620	EFXE-577620SB	26,9	53,9	67,4	94,4	107,9	121,3
SB-575730	EFXE-575730SB	27,9	55,8	69,7	97,7	111,6	125,6
SB-769520	EFXE-769520SB	36,1	72,2	90,2	126,3	144,4	162,4
SB-1258040	EFXE-1258040SB	36,1	72,2	90,2	126,3	144,4	162,4

Enclosure types (Stainless steel)		Maximum power dissipation (W) – Tamb. up to **95**°C	
		INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
SB-101210	EFXE-101210SB	1,3	2,7
SB-151510	EFXE-151510SB	2,0	4,0
SB-142013	EFXE-142013SB	2,6	5,2
SB-202010	EFXE-202010SB	2,6	5,3
SB-202016	EFXE-202016SB	3,4	6,9
SB-202713	EFXE-202713SB	3,6	7,2
SB-272713	EFXE-272713SB	4,1	8,3
SB-203016	EFXE-203016SB	4,2	8,5
SB-273513	EFXE-273513SB	4,8	9,6
SB-282816	EFXE-282816SB	4,8	9,6
SB-204016	EFXE-204016SB	5,0	10,1
SB-353516	EFXE-353516SB	6,1	12,2
SB-282827	EFXE-282827SB	6,5	13,1
SB-355016	EFXE-355016SB	7,4	14,8
SB-383816	EFXE-383816SB	6,6	13,3
SB-384516	EFXE-384516SB	7,2	14,5
SB-385716	EFXE-385716SB	8,3	16,7
SB-505016	EFXE-505016SB	8,9	17,9
SB-383827	EFXE-383827SB	8,7	17,5
SB-575716	EFXE-575716SB	10,3	20,7
SB-577620	EFXE-577620SB	13,4	26,9
SB-575730	EFXE-575730SB	13,9	27,9
SB-769520	EFXE-769520SB	18,0	36,1
SB-1258040	EFXE-1258040SB	18,0	36,1

Power dissipation – Stainless steel enclosures ST series

Enclosure types (Stainless steel)		Maximum power dissipation (W) – Tamb. up to **40**°C						
		INTERNAL TEMP.60°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
ST-101210	EFXE-101210ST	5,5	8,3	11,1	12,5	15,3	16,7	18,1
ST-151510	EFXE-151510ST	8,0	12,0	16,0	18,0	22,0	24,0	26,1
ST-142013	EFXE-142013ST	10,4	15,7	20,9	23,5	28,8	31,4	34,0
ST-202010	EFXE-202010ST	10,7	16,1	21,4	24,1	29,5	32,2	34,8
ST-202016	EFXE-202016ST	13,9	20,8	27,8	31,3	38,3	41,7	45,2
ST-202713	EFXE-202713ST	14,4	21,6	28,9	32,5	39,7	43,3	46,9
ST-272713	EFXE-272713ST	16,7	25,1	33,5	37,7	46,0	50,2	54,4
ST-203016	EFXE-203016ST	17,1	25,7	34,3	38,6	47,2	51,4	55,7
ST-273513	EFXE-273513ST	19,2	28,9	38,5	43,3	53,0	57,8	62,6
ST-282816	EFXE-282816ST	19,3	29,0	38,7	43,6	53,3	58,1	63,0
ST-204016	EFXE-204016ST	20,2	30,3	40,4	45,5	55,6	60,6	65,7
ST-353516	EFXE-353516ST	24,4	36,6	48,8	54,9	67,1	73,2	79,3
ST-282827	EFXE-282827ST	26,2	39,3	52,5	59,0	72,2	78,7	85,3
ST-355016	EFXE-355016ST	29,7	44,5	59,4	66,8	81,7	89,1	96,6
ST-383816	EFXE-383816ST	26,6	39,9	53,2	59,8	73,1	79,8	86,5
ST-384516	EFXE-384516ST	29,1	43,7	58,3	65,6	80,2	87,5	94,8
ST-385716	EFXE-385716ST	33,4	50,1	66,8	75,2	91,9	100,3	108,7
ST-505016	EFXE-505016ST	35,8	53,8	71,7	80,7	98,6	107,6	116,6
ST-383827	EFXE-383827ST	35,1	52,7	70,2	79,0	96,6	105,4	114,2
ST-575716	EFXE-575716ST	41,5	62,3	83,1	93,5	114,3	124,7	135,1
ST-577620	EFXE-577620ST	53,9	80,9	107,9	121,3	148,3	161,8	175,3
ST-575730	EFXE-575730ST	55,8	83,7	111,6	125,6	153,5	167,5	181,4
ST-769520	EFXE-769520ST	72,2	108,3	144,4	162,4	198,5	216,6	234,6
ST-1258040	EFXE-1258040ST	72,2	108,3	144,4	162,4	198,5	216,6	234,6

Enclosure types (Stainless steel)		Maximum power dissipation (W) – Tamb. up to **50**°C						
		INTERNAL TEMP.60°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
ST-101210	EFXE-101210ST	2,7	5,5	8,3	9,7	12,5	13,9	15,3
ST-151510	EFXE-151510ST	4,0	8,0	12,0	14,0	18,0	20,0	22,0
ST-142013	EFXE-142013ST	5,2	10,4	15,7	18,3	23,5	26,2	28,8
ST-202010	EFXE-202010ST	5,3	10,7	16,1	18,7	24,1	26,8	29,5
ST-202016	EFXE-202016ST	6,9	13,9	20,8	24,3	31,3	34,8	38,3
ST-202713	EFXE-202713ST	7,2	14,4	21,6	25,2	32,5	36,1	39,7
ST-272713	EFXE-272713ST	8,3	16,7	25,1	29,3	37,7	41,8	46,0
ST-203016	EFXE-203016ST	8,5	17,1	25,7	30,0	38,6	42,9	47,2
ST-273513	EFXE-273513ST	9,6	19,2	28,9	33,7	43,3	48,2	53,0
ST-282816	EFXE-282816ST	9,6	19,3	29,0	33,9	43,6	48,4	53,3
ST-204016	EFXE-204016ST	10,1	20,2	30,3	35,4	45,5	50,5	55,6
ST-353516	EFXE-353516ST	12,2	24,4	36,6	42,7	54,9	61,0	67,1
ST-282827	EFXE-282827ST	13,1	26,2	39,3	45,9	59,0	65,6	72,2
ST-355016	EFXE-355016ST	14,8	29,7	44,5	52,0	66,8	74,3	81,7
ST-383816	EFXE-383816ST	13,3	26,6	39,9	46,5	59,8	66,5	73,1
ST-384516	EFXE-384516ST	14,5	29,1	43,7	51,0	65,6	72,9	80,2
ST-385716	EFXE-385716ST	16,7	33,4	50,1	58,5	75,2	83,6	91,9
ST-505016	EFXE-505016ST	17,9	35,8	53,8	62,7	80,7	89,7	98,6
ST-383827	EFXE-383827ST	17,5	35,1	52,7	61,4	79,0	87,8	96,6
ST-575716	EFXE-575716ST	20,7	41,5	62,3	72,7	93,5	103,9	114,3
ST-577620	EFXE-577620ST	26,9	53,9	80,9	94,4	121,3	134,8	148,3
ST-575730	EFXE-575730ST	27,9	55,8	83,7	97,7	125,6	139,5	153,5
ST-769520	EFXE-769520ST	36,1	72,2	108,3	126,3	162,4	180,5	198,5
ST-1258040	EFXE-1258040ST	36,1	72,2	108,3	126,3	162,4	180,5	198,5

Enclosure types (Stainless steel)		Maximum power dissipation (W) – Tamb. up to **55**°C						
		INTERNAL TEMP.65°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
ST-101210	EFXE-101210ST	2,7	4,1	6,9	8,3	11,1	12,5	13,9
ST-151510	EFXE-151510ST	4,0	6,0	10,0	12,0	16,0	18,0	20,0
ST-142013	EFXE-142013ST	5,2	7,8	13,1	15,7	20,9	23,5	26,2
ST-202010	EFXE-202010ST	5,3	8,0	13,4	16,1	21,4	24,1	26,8
ST-202016	EFXE-202016ST	6,9	10,4	17,4	20,8	27,8	31,3	34,8
ST-202713	EFXE-202713ST	7,2	10,8	18,0	21,6	28,9	32,5	36,1
ST-272713	EFXE-272713ST	8,3	12,5	20,9	25,1	33,5	37,7	41,8
ST-203016	EFXE-203016ST	8,5	12,8	21,4	25,7	34,3	38,6	42,9
ST-273513	EFXE-273513ST	9,6	14,4	24,1	28,9	38,5	43,3	48,2
ST-282816	EFXE-282816ST	9,6	14,5	24,2	29,0	38,7	43,6	48,4
ST-204016	EFXE-204016ST	10,1	15,1	25,2	30,3	40,4	45,5	50,5
ST-353516	EFXE-353516ST	12,2	18,3	30,5	36,6	48,8	54,9	61,0
ST-282827	EFXE-282827ST	13,1	19,6	32,8	39,3	52,5	59,0	65,6
ST-355016	EFXE-355016ST	14,8	22,2	37,1	44,5	59,4	66,8	74,3
ST-383816	EFXE-383816ST	13,3	19,9	33,2	39,9	53,2	59,8	66,5
ST-384516	EFXE-384516ST	14,5	21,8	36,4	43,7	58,3	65,6	72,9
ST-385716	EFXE-385716ST	16,7	25,0	41,8	50,1	66,8	75,2	83,6
ST-505016	EFXE-505016ST	17,9	26,9	44,8	53,8	71,7	80,7	89,7
ST-383827	EFXE-383827ST	17,5	26,3	43,9	52,7	70,2	79,0	87,8
ST-575716	EFXE-575716ST	20,7	31,1	51,9	62,3	83,1	93,5	103,9
ST-577620	EFXE-577620ST	26,9	40,4	67,4	80,9	107,9	121,3	134,8
ST-575730	EFXE-575730ST	27,9	41,8	69,7	83,7	111,6	125,6	139,5
ST-769520	EFXE-769520ST	36,1	54,1	90,2	108,3	144,4	162,4	180,5
ST-1258040	EFXE-1258040ST	36,1	54,1	90,2	108,3	144,4	162,4	180,5

Enclosure types (Stainless steel)		Maximum power dissipation (W) – Tamb. up to **60**°C					
		INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
ST-101210	EFXE-101210ST	2,7	5,5	6,9	9,7	11,1	12,5
ST-151510	EFXE-151510ST	4,0	8,0	10,0	14,0	16,0	18,0
ST-142013	EFXE-142013ST	5,2	10,4	13,1	18,3	20,9	23,5
ST-202010	EFXE-202010ST	5,3	10,7	13,4	18,7	21,4	24,1
ST-202016	EFXE-202016ST	6,9	13,9	17,4	24,3	27,8	31,3
ST-202713	EFXE-202713ST	7,2	14,4	18,0	25,2	28,9	32,5
ST-272713	EFXE-272713ST	8,3	16,7	20,9	29,3	33,5	37,7
ST-203016	EFXE-203016ST	8,5	17,1	21,4	30,0	34,3	38,6
ST-273513	EFXE-273513ST	9,6	19,2	24,1	33,7	38,5	43,3
ST-282816	EFXE-282816ST	9,6	19,3	24,2	33,9	38,7	43,6
ST-204016	EFXE-204016ST	10,1	20,2	25,2	35,4	40,4	45,5
ST-353516	EFXE-353516ST	12,2	24,4	30,5	42,7	48,8	54,9
ST-282827	EFXE-282827ST	13,1	26,2	32,8	45,9	52,5	59,0
ST-355016	EFXE-355016ST	14,8	29,7	37,1	52,0	59,4	66,8
ST-383816	EFXE-383816ST	13,3	26,6	33,2	46,5	53,2	59,8
ST-384516	EFXE-384516ST	14,5	29,1	36,4	51,0	58,3	65,6
ST-385716	EFXE-385716ST	16,7	33,4	41,8	58,5	66,8	75,2
ST-505016	EFXE-505016ST	17,9	35,8	44,8	62,7	71,7	80,7
ST-383827	EFXE-383827ST	17,5	35,1	43,9	61,4	70,2	79,0
ST-575716	EFXE-575716ST	20,7	41,5	51,9	72,7	83,1	93,5
ST-577620	EFXE-577620ST	26,9	53,9	67,4	94,4	107,9	121,3
ST-575730	EFXE-575730ST	27,9	55,8	69,7	97,7	111,6	125,6
ST-769520	EFXE-769520ST	36,1	72,2	90,2	126,3	144,4	162,4
ST-1258040	EFXE-1258040ST	36,1	72,2	90,2	126,3	144,4	162,4

Enclosure types (Stainless steel)		Maximum power dissipation (W) – Tamb. up to **95**°C	
		INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
ST-101210	EFXE-101210ST	1,3	2,7
ST-151510	EFXE-151510ST	2,0	4,0
ST-142013	EFXE-142013ST	2,6	5,2
ST-202010	EFXE-202010ST	2,6	5,3
ST-202016	EFXE-202016ST	3,4	6,9
ST-202713	EFXE-202713ST	3,6	7,2
ST-272713	EFXE-272713ST	4,1	8,3
ST-203016	EFXE-203016ST	4,2	8,5
ST-273513	EFXE-273513ST	4,8	9,6
ST-282816	EFXE-282816ST	4,8	9,6
ST-204016	EFXE-204016ST	5,0	10,1
ST-353516	EFXE-353516ST	6,1	12,2
ST-282827	EFXE-282827ST	6,5	13,1
ST-355016	EFXE-355016ST	7,4	14,8
ST-383816	EFXE-383816ST	6,6	13,3
ST-384516	EFXE-384516ST	7,2	14,5
ST-385716	EFXE-385716ST	8,3	16,7
ST-505016	EFXE-505016ST	8,9	17,9
ST-383827	EFXE-383827ST	8,7	17,5
ST-575716	EFXE-575716ST	10,3	20,7
ST-577620	EFXE-577620ST	13,4	26,9
ST-575730	EFXE-575730ST	13,9	27,9
ST-769520	EFXE-769520ST	18,0	36,1
ST-1258040	EFXE-1258040ST	18,0	36,1

Maximum Power Dissipation calculation

The values specified in the tables as per clause 2.1.1 may be modified within the maximum admitted Tamb and maximum admitted internal temperature as follows.

$$Pdiss\ (W) = \frac{Tmax - Tamb}{Rth}$$

$Rth = A \times (\text{enclosure surface in } mm^2 \text{ except enclosure bottom})^B$

Legend:
Rth – Thermal resistance [K/W].
Tmax – Maximum allowed temperature inside enclosure.
Tamb – Ambient temperature of enclosure
A and B - coefficients determined for each series of enclosure. Exact values are given in manufacturer's documentation.

Warning labels:

WARNING – DO NOT OPEN WHEN ENERGIZED (*)
(*) Not mandatory for apparatus with protection type Ex ia Ga and Ex ib Gb.

WARNING – POTENTIAL ELECTROSTATIC CHARGING HAZARD – SEE INSTRUCTIONS

To be added when the enclosures or parts of them have a surface resistance more than 10^9 Ω or 10^{11} Ω according to IEC 60079-0 Clause 7.4.2 a), as applicable, and as per following cases:

- are equipped with transparent parts made of polycarbonate.
- for category II 2 G / EPL Gb Gas group IIC: are painted and the paint layer thickness is > 0.2mm.
- for category II 2 G / EPL Gb Gas group IIB: are painted and the paint layer thickness is > 2mm.
- for category II 2 D / EPL Db: are painted and the paint layer thickness is > 2mm.
- for category II 2 G / EPL Gb Gas group IIC: not conductive individual materials (labels), applied on painted enclosures, have exposed (chargeable area) > 2000mm^2 or, not conductive individual materials (labels), applied on unpainted (conductive earthed surface) enclosures, have exposed (chargeable area) > 8000mm^2.
- for category II 2 G /EPL Gb Gas group IIB: not conductive individual materials (labels), applied on painted enclosures, have exposed (chargeable area) > 10000mm^2 or, not conductive individual materials (labels), applied on unpainted (conductive earthed surface) enclosures, have exposed (chargeable area) > 40000mm^2.

OPEN THE VALVE ONLY WHEN THE APPARATUS IS DE-ENERGIZED AND ONLY WHEN AN EXPLOSIVE DUST ATMOSPHERE IS NOT PRESENT
To be added on Ex tb apparatus equipped with the drain / venting device ECR3.

Other warnings depend on the components actually mounted, according to the component manufacturer's documentation.

The tables below state the maximum power dissipation values (W) related to the internal temperature (Tint) and ambient temperature (Tamb).

ITEM	Tag	EJB-200N1-02-L1-13	: JB - NORMAL LIGHTING	Dwg	123A90-DDL-EL-DL-20118
	S/Sys	83-40	: Normal Lighting Upper Deck	Module	UD
TASK	code	C10001634	Location: Onshore Activities	User	Rosetti Marino Quality Control
FORM	Process	MC	Activity: CCK / Discipline: ATEX / Form: CJX01		Hazardous Area Equipment Detailed Inspection

Schedule Ref. #				**Area Code**					
Area Class Drawing	123A90-DDL-SAF-DL-30022			**Serial No.**		24P00297990029			
Manufacturer	TECHNOR ITALSMEA			**Model**		AQ-252612P			
Cert No.	FIDI 21 ATEX 0090X-FIDI 21 0015X			**Equipment Ambient Temp.**		-20 to + 40 °C			
Area Classification	Hazardous	**Zone**	2	**Gas group**	II C	**Temp class**	T1		
Equipment Protection Type	Ex eb	**EPL**	Gb	**Gas group**	II C	**Temp class**	T6	**IP Rating**	IP66

Detailed Note:

1) Inspection shall only be performed by competent personnel

2) All fields are to be completed. Any non-applicable field shall state “NA”. Comments are required for ‘Failure’ column ONLY.

3) An Inspection Sheet should be completed for EACH individual item of Equipment.

	General Equipment	Detailed	OK/NA/PL	Comments
1	Equipment is appropriate to the EPL / Zone requirements of the area	x	OK	
2	Equipment group is correct	x	OK	
3	Equipment temperature class is correct	x	OK	
4	Degree of IP protection of equipment is appropriate for the level of protection	x	OK	
5	Equipment circuit identification is correct	x	OK	
6	Equipment circuit identification is available	x	NA	
7	Enclosure glass parts and glass-to-metal sealing gaskets and / or compounds are satisfactory	x	OK	
8	There is no damage or unauthorized modifications	x	OK	
9	There is no evidence of unauthorized modifications	x	OK	
10	Bolts, cable entry devices (direct and indirect) & blanking elements are of the correct type, are complete & tight		OK	
	Physical check	x	OK	
11	Threaded covers on enclosures are of the correct type, are tight and secured		NA	
	Physical check	x	NA	
12	Joint surfaces are clean and undamaged and gaskets, if any, are satisfactory and positioned correctly	x	OK	
13	Condition of enclosure gaskets is satisfactory	x	OK	
14	There is no evidence or ingress of water or dust in the enclosure in accordance with the IP rating	x	OK	
15	Electrical connections are tight	x	OK	
16	Bridging links do not reduce creepage / clearance and are allowed	x	NA	
17	Unused terminals are tightened	x	OK	
18	Encapsulated components are undamaged	x	NA	
19	Flameproof components are undamaged	x	NA	
20	Fluorescent lamps are not indicating EOL effects (only for Ex “e” – Ex “n” – Ex “t”)	x	NA	
21	HID lamps are not indicating EOL effects	x	NA	
22	Lamp type, rating, pin configuration and position are correct	x	NA	
23	Breathing and drainage devices are satisfactory	x	OK	
24	Type of cable is appropriate	x	OK	
25	There is no obvious damage to the cables	x	OK	
26	Cable glands are the correct type and installed correctly	x	PL	
27	Sealing of trunking, ducts, pipes and or conduits is satisfactory	x	NA	
28	Stopping boxes and cable boxes are corrected filled	x	PL	

ITEM	Tag	EJB-200N1-02-L1-13	: JB - NORMAL LIGHTING			Dwg	123A90-DDL-EL-DL-20118
	S/Sys	83-40	: Normal Lighting Upper Deck			Module	UD
TASK	code	C10001634		Location	Onshore Activities	User	Rosetti Marino Quality Control
FORM	Process	MC	Activity CCK	Discipline	ATEX	Form	CJX01 Hazardous Area Equipment Detailed Inspection

29	Integrity of conduit system and interface with mixed system maintained	x	NA	
30	Earthing connections, including any supplementary earthing bonding connections are satisfactory (for example connections are tight and conductors are of sufficient cross-section		OK	
	Physical check	x	OK	
31	Automated electric protective devices operate within permitted limits	x	NA	
32	Special conditions (if applicable) have been complied with.	x	OK	
33	All cable cores are uniquely labeled	x	OK	
34	Cable cores not in use are correctly terminated	x	OK	
35	Equipment is adequately protected against corrosion, weather, vibration and other adverse factors	x	OK	
36	No undue accumulation of dust and dirt	x	OK	
37	All equipment housings are clean and dry	x	OK	
38	All moving parts are free and have no mechanical damage	x	OK	
	Applicable for Installation of Heating Systems			
39	Temperature sensors function according to manufacturer's documents (only applicable for Ex-d e Ex-e)	x	NA	
40	Safety cut off devices function according to manufacturer's documents (only applicable for Ex-d e Ex-e)	x	NA	
41	The setting of the safety cut off is sealed (only applicable for Ex-d e Ex-e)	x	NA	
42	Reset of a heating system safety cut off possible with tool only(only applicable for Ex-d e Ex-e)	x	NA	
43	Auto-reset is not possible (only applicable for Ex-d e Ex-e)	x	NA	
44	Reset of a safety cut off under fault conditions is prevented (only applicable for Ex-d e Ex-e)	x	NA	
45	Safety cut off independent from control system (only applicable for Ex-d e Ex-e)	x	NA	
46	Level switch is installed and correctly set, if required (only applicable for Ex-d e Ex-e)	x	NA	
47	Flow switch is installed and correctly set, if required (only applicable for Ex-d e Ex-e)	x	NA	
	Extra Ex d checks			
48	Obstructions adjacent to flame proof flanged joints are in accordance with IEC 60079-14	x	NA	
49	Ex d conduits seals are fitted to all conduits and satisfactorily sealed	x	NA	
50	Cable glands are of the correct type and installed correctly	x	NA	
51	Adaptors, reducers, stop ends, etc. are all certified Ex d	x	NA	
52	Flame path are clean and undamaged	x	NA	
53	Flange gap dimensions are within tolerances	x	NA	
54	Motor fans have sufficient clearance to the enclosure and/or covers, cooling systems are undamaged, motor foundations have no indentations or cracks	x	NA	
55	The ventilation airflow is not impeded	x	NA	
56	Insulation resistance (IR) of the motor windings is satisfactory	x	NA	
57	Fault loop impedance (TN systems) or earthing resistance (IT systems) is satisfactory	x	NA	
58	Variable voltage/frequency installation complies with documentation	x	NA	
	Extra Ex e checks			
59	All Equipment is Ex e certified (including components within enclosure)	x	OK	
60	Power conductors are not bunched together causing possible hot spots	x	OK	
61	Motor fans have sufficient clearance to the enclosure and/or covers, cooling systems are undamaged, motor foundations have no indentations or cracks	x	NA	
62	Insulation resistance (IR) of the motor windings is satisfactory	x	NA	
63	Fault loop impedance (TN systems) or earthing resistance (IT systems) is satisfactory	x	NA	
64	The ventilation airflow is not impeded	x	NA	
65	Motor protection devices operate within the permitted tE or tA time limits.	x	NA	
66	Variable voltage/frequency installation complies with documentation	x	NA	

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ITEM	Tag	EJB-200N1-02-L1-13	: JB - NORMAL LIGHTING		Dwg	123A90-DDL-EL-DL-20118	
	S/Sys	83-40	: Normal Lighting Upper Deck		Module	UD	
TASK	code	C10001634	Location	Onshore Activities	User	Rosetti Marino Quality Control	
FORM	Process	MC	Activity CCK	Discipline ATEX	Form	CJX01	Hazardous Area Equipment Detailed Inspection

Extra Ex n (nR, nL) checks				
67	All Terminals are Ex n certified (if required on certificate)	x	NA	
68	Hermetically sealed and enclosed break devices are undamaged	x	NA	
69	Restricted breathing properties satisfactory (conduct vacuum test)	x	NA	
70	Test port, if fitted, is functional (type “nR” only)	x	NA	
71	Breathing operation is satisfactory (type “nR” only)	x	NA	
72	Motor fans have sufficient clearance to the enclosure and/or covers, cooling systems are	x	NA	
73	The ventilation airflow is not impeded	x	NA	
74	Insulation resistance (IR) of the motor windings is satisfactory	x	NA	
75	Motor protection devices operate within the permitted tE or tA time limits.	x	NA	
76	Variable voltage/frequency installation complies with documentation	x	NA	
Extra Ex p checks				
77	Pressurization gas is correct type	x	NA	
78	Actual pressure is within maximum and minimum settings for equipment	x	NA	
79	Timers set as per certification documentation	x	NA	
80	Alarms and trip functions operate correctly as per certification documentation	x	NA	
81	Fault loop impedance (TN systems) or earthing resistance (IT systems) is satisfactory	x	NA	
82	Automatic electrical protective devices operate within permitted limits	x	NA	
83	Automatic electrical protective devices are set correctly	x	NA	
84	Protective gas inlet temperature is below maximum specified	x	NA	
85	Ducts, pipes and enclosures are in good condition	x	NA	
86	Protective gas is substantially free from contaminants	x	NA	
87	Protective gas pressure and/or flow is adequate	x	NA	
88	Pressure and/or flow indicators, alarms and interlocks function correctly	x	NA	
89	Conditions of spark and particle barriers of ducts for exhausting the gas in hazardous area are satisfactory	x	NA	
90	Specific conditions of use (if applicable) are complied with		NA	
Extra Ex i (Intrinsically Safe – IS) checks				
91	Equipment has adequate circuit identification for ‘IS’ Installation	x	NA	
92	Cables are installed in accordance with the documentation	x	NA	
93	Segregation is maintained between IS and non-IS Circuits	x	NA	
94	Cable screens are isolated at one end (field side)	x	NA	
95	Cable screens are earthed in accordance with the documentation	x	NA	
96	Safety barrier units, relays and other energy limiting devices are of the approved type, installed in	x	NA	
97	Equipment installed is the one specified in the documentation	x	NA	
98	Ambient temperature range of the apparatus is correct for the installation	x	NA	
99	Service temperature range of the apparatus is correct for the installation	x	NA	
100	Installation is clearly labelled	x	NA	
101	Printed circuit boards are clean and undamaged	x	NA	
102	The maximum voltage Um of the associated apparatus is not exceeded	x	NA	
103	Point-to-point connections are all correct	x	NA	
104	Earth continuity is satisfactory (e.g. connections are tight, conductors are of sufficient cross-section)	x	NA	
105	Earth connections maintain the integrity of the type of protection	x	NA	
106	Intrinsically safe circuit earthing is satisfactory	x	NA	
107	Insulation resistance is satisfactory	x	NA	
108	Short-circuit protection of the power supply is in accordance with the documentation	x	NA	

	BARRIER:	**Manufacturer:**	NA	**Model:**	NA		
		Authority:	NA	**Cert No:**	NA	**Type:**	NA

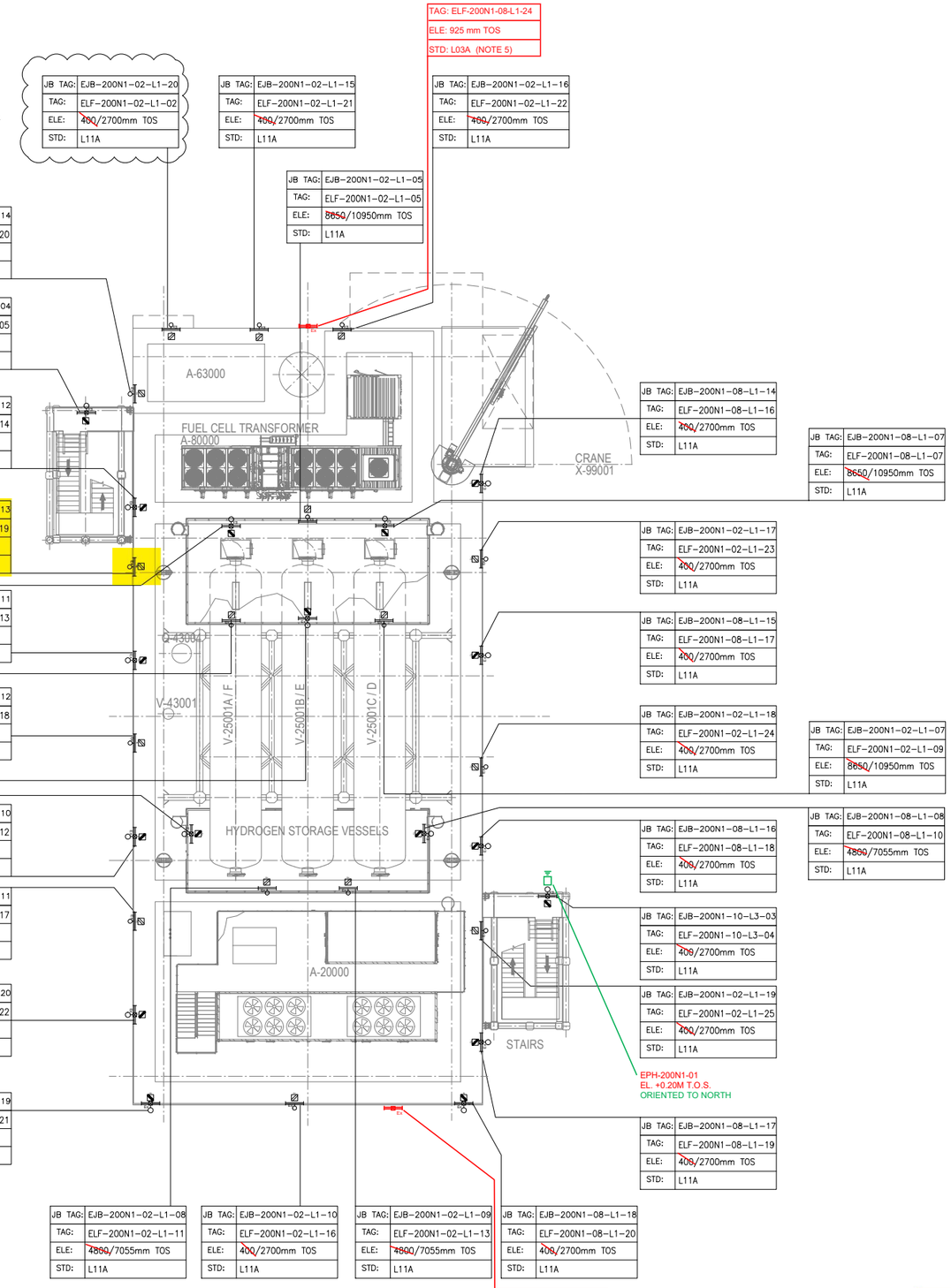
Remarks: Initial inspection should be detailed and carried out before equipment is brought into service as per IEC 60079-17

Please mark only one box as appropriate	
●	**Passed - Complete**
	Failed

Page 3/3	Performed by	☐ WITNESS ☐ REVIEW	☐ WITNESS ☐ REVIEW
Company	ICS IMPIANTI	RM(ROSETTI MARINO)	
Name	Michele Tartaglia	Alessio Polo	
Date	2025-01-08	2025-01-18	
Signature	PROVERLIS Digitaly signed by Michele Tartaglia 2025-01-08T10:02:26.976Z	PROVERLIS Digitaly signed by Alessio Polo 2025-01-18T13:10:25.884Z	

DRAWING NO. 123A90-DDL-EL-DL-20118

REV. 01



JB TAG:	EJB-200N1-02-L1-20
TAG:	ELF-200N1-02-L1-02
ELE:	400/2700mm TOS
STD:	L11A

JB TAG:	EJB-200N1-02-L1-15
TAG:	ELF-200N1-02-L1-21
ELE:	400/2700mm TOS
STD:	L11A

JB TAG:	EJB-200N1-02-L1-16
TAG:	ELF-200N1-02-L1-22
ELE:	400/2700mm TOS
STD:	L11A

TAG: ELF-200N1-08-L1-24
ELE: 925 mm TOS
STD: L03A (NOTE 5)

JB TAG:	EJB-200N1-02-L1-05
TAG:	ELF-200N1-02-L1-05
ELE:	8650/10950mm TOS
STD:	L11A

JB TAG:	EJB-200N1-02-L1-14
TAG:	ELF-200N1-02-L1-20
ELE:	400/2700mm TOS
STD:	L11A

JB TAG:	EJB-200N1-10-L3-04
TAG:	ELF-200N1-10-L3-05
ELE:	400/2700mm TOS
STD:	L11A

JB TAG:	EJB-200N1-08-L1-12
TAG:	ELF-200N1-08-L1-14
ELE:	400/2700mm TOS
STD:	L11A

JB TAG:	EJB-200N1-08-L1-14
TAG:	ELF-200N1-08-L1-16
ELE:	400/2700mm TOS
STD:	L11A

JB TAG:	EJB-200N1-08-L1-07
TAG:	ELF-200N1-08-L1-07
ELE:	8650/10950mm TOS
STD:	L11A

JB TAG:	EJB-200N1-02-L1-13
TAG:	ELF-200N1-02-L1-19
ELE:	400/2700mm TOS
STD:	L11A

JB TAG:	EJB-200N1-08-L1-05
TAG:	ELF-200N1-08-L1-05
ELE:	8650/10950mm TOS
STD:	L11A

JB TAG:	EJB-200N1-02-L1-17
TAG:	ELF-200N1-02-L1-23
ELE:	400/2700mm TOS
STD:	L11A

JB TAG:	EJB-200N1-08-L1-11
TAG:	ELF-200N1-08-L1-13
ELE:	400/2700mm TOS
STD:	L11A

JB TAG:	EJB-200N1-02-L1-06
TAG:	ELF-200N1-02-L1-08
ELE:	8650/10950mm TOS
STD:	L11A

JB TAG:	EJB-200N1-08-L1-15
TAG:	ELF-200N1-08-L1-17
ELE:	400/2700mm TOS
STD:	L11A

JB TAG:	EJB-200N1-02-L1-12
TAG:	ELF-200N1-02-L1-18
ELE:	400/2700mm TOS
STD:	L11A

JB TAG:	EJB-200N1-02-L1-18
TAG:	ELF-200N1-02-L1-24
ELE:	400/2700mm TOS
STD:	L11A

JB TAG:	EJB-200N1-08-L1-06
TAG:	ELF-200N1-08-L1-06
ELE:	8650/10950mm TOS
STD:	L11A

JB TAG:	EJB-200N1-02-L1-07
TAG:	ELF-200N1-02-L1-09
ELE:	8650/10950mm TOS
STD:	L11A

JB TAG:	EJB-200N1-08-L1-09
TAG:	ELF-200N1-08-L1-11
ELE:	4800/7055mm TOS
STD:	L11A

JB TAG:	EJB-200N1-08-L1-10
TAG:	ELF-200N1-08-L1-12
ELE:	400/2700mm TOS
STD:	L11A

JB TAG:	EJB-200N1-08-L1-16
TAG:	ELF-200N1-08-L1-18
ELE:	400/2700mm TOS
STD:	L11A

JB TAG:	EJB-200N1-08-L1-08
TAG:	ELF-200N1-08-L1-10
ELE:	4800/7055mm TOS
STD:	L11A

JB TAG:	EJB-200N1-02-L1-11
TAG:	ELF-200N1-02-L1-17
ELE:	400/2700mm TOS
STD:	L11A

JB TAG:	EJB-200N1-10-L3-03
TAG:	ELF-200N1-10-L3-04
ELE:	400/2700mm TOS
STD:	L11A

JB TAG:	EJB-200N1-08-L1-20
TAG:	ELF-200N1-08-L1-22
ELE:	400/2700mm TOS
STD:	L11A

JB TAG:	EJB-200N1-02-L1-19
TAG:	ELF-200N1-02-L1-25
ELE:	400/2700mm TOS
STD:	L11A

JB TAG:	EJB-200N1-08-L1-19
TAG:	ELF-200N1-08-L1-21
ELE:	400/2700mm TOS
STD:	L11A

JB TAG:	EJB-200N1-08-L1-17
TAG:	ELF-200N1-08-L1-19
ELE:	400/2700mm TOS
STD:	L11A

JB TAG:	EJB-200N1-02-L1-08
TAG:	ELF-200N1-02-L1-11
ELE:	4800/7055mm TOS
STD:	L11A

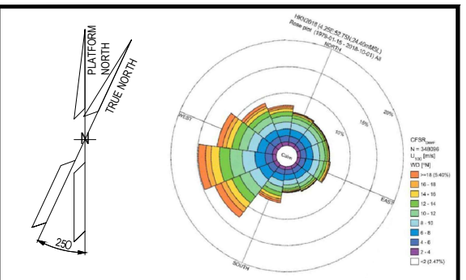
JB TAG:	EJB-200N1-02-L1-10
TAG:	ELF-200N1-02-L1-16
ELE:	400/2700mm TOS
STD:	L11A

JB TAG:	EJB-200N1-02-L1-09
TAG:	ELF-200N1-02-L1-13
ELE:	4800/7055mm TOS
STD:	L11A

JB TAG:	EJB-200N1-08-L1-18
TAG:	ELF-200N1-08-L1-20
ELE:	400/2700mm TOS
STD:	L11A

TAG: ELF-200N1-08-L1-25
ELE: 925 mm TOS
STD: L03A (NOTE 5)

PLAN ON UPPER DECK
EL+30.310 T.O.S.



NOTES

1. ALL DIMENSIONS AND ELEVATIONS ARE GIVEN IN mm UNLESS OTHERWISE NOTED.
2. ELEVATIONS REFER TO T.O.S.
3. ELEVATION OF THE LAMPS ARE REFFERED TO THE BOTTOM OF THE LAMP.
4. FOR THE ELEVATION OF JB, REFER TO THE TYPICAL INSTALLATION.
5. FOR ELF-200N1-08-L1-24 AND ELF-200N1-08-L1-25 CONSTRUCTION DETAILS REFER TO DOC. 123A90-DDL-ST-DD-90076

LEGEND

- EMERGENCY LIGHTING JB
- 60W LED EMERGENCY LUMINARIES
- 60W LED EMERGENCY LUMINARIES FIXTURE POLE MOUNTED
- NORMAL LIGHTING JB
- 45W LED NORMAL LUMINARIES
- 45W LED NORMAL LUMINARIES FIXTURE POLE MOUNTED
- WELDING SOCKET WITH INTEGRATED JB
- SMALL POWER SOCKET WITH INTEGRATED JB
- TWILIGHT RELAY SENSOR

JB TAG:	JB-TAG
TAG:	TAG
ELE:	ELEVATION
STD:	STANDARD

REFERENCE DOCUMENTS

123A90-DDL-PP-DL-70070	PLOT PLAN - LOWER & UPPER DECK
123A90-DDL-EL-DL-20100	ELECTRICAL EQUIPMENT LAYOUT - TOP DECK
123A90-DDL-EL-DD-20091	ELECTRICAL TYPICAL INSTALLATION DETAILS - LIGHTING SYSTEM
123A90-DDL-EL-DD-20092	ELECTRICAL TYPICAL INSTALLATION DETAILS - POWER SYSTEM & CABLE INSTALLATION
123A90-DDL-EL-RE-20153	LIGHTING CALCULATION STUDY REPORT
123A90-DDL-ST-DD-90076	IDENTIFICATION PANELS ASSEMBLY AND DETAILS

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	02/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	28/05/24	ASR	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DL-20118**

REV.:	DATE:	SIGNATURE:
1_G	09/01/25	V.Ramponi

ROSETTI MARINO SpA

CROSSWIND | ROSETTI MARINO

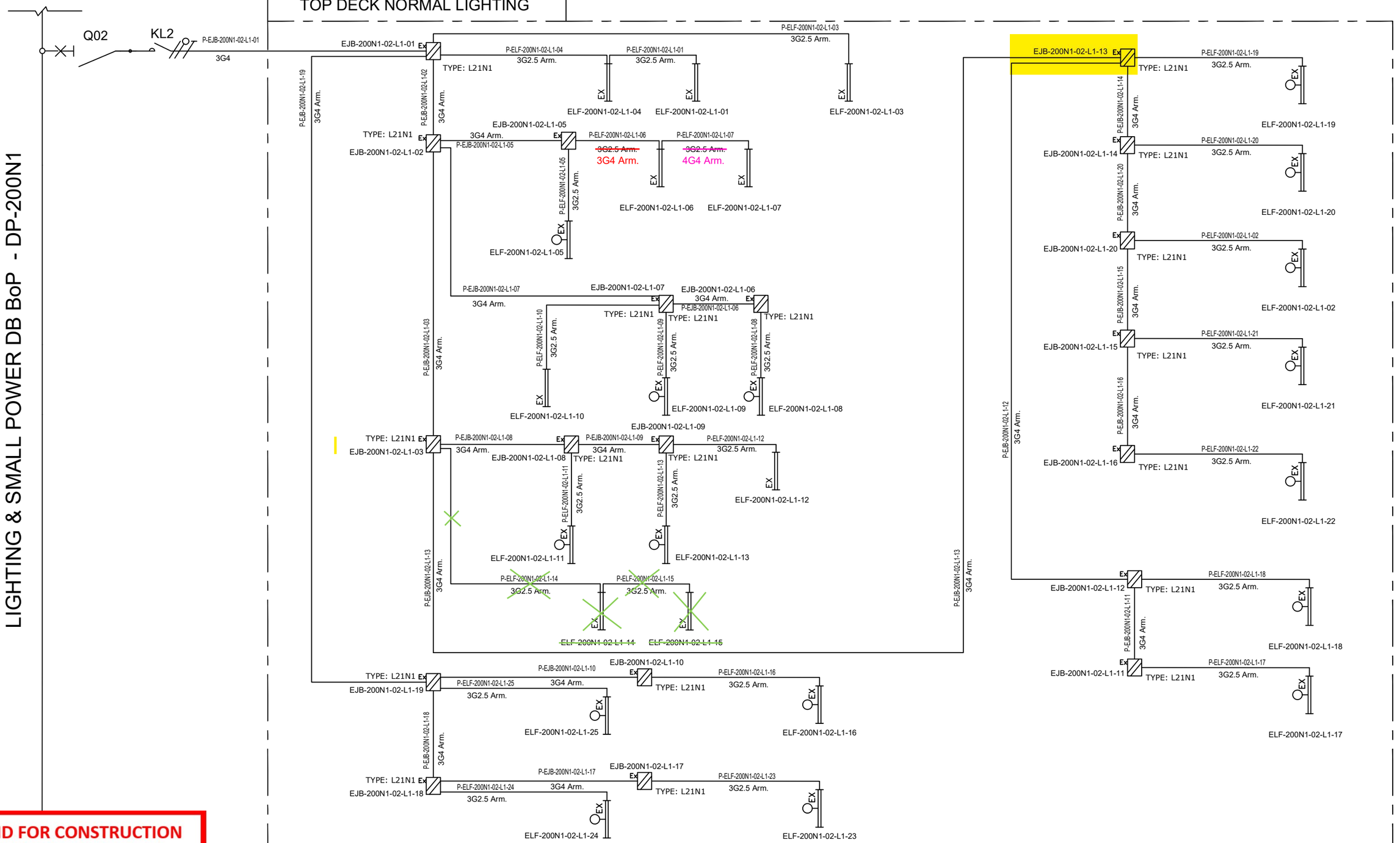
TITLE : BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET LAYOUT – TOP DECK

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK			SCALE 1:150
DRAWN ASR	CHECKED FMA/AMA	APPROVED FPA/DLO	DATE 01/08/24
A1	DRAWING NO. 123A90-DDL-EL-DL-20118	SHEET 1of2	REV. 01

File Name : 123A90-DDL-EL-DL-20118

LIGHTING & SMALL POWER DB BoP - DP-200N1

TOP DECK NORMAL LIGHTING



VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DG-20125**

REV.:	DATE:	SIGNATURE:
2_G	16/01/25	G.Randi

ROSETTI MARINO SpA

CROSSWIND

ROSETTI MARINO

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	08/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	01/07/24	ASR	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

TITLE : BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET CIRCUIT DIAGRAM
TOP DECK–NORMAL LIGHTING

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE : NTS

A3

DRAWING NO. 123A90–DDL–EL–DG–20125

SHEET 010

REV. 01

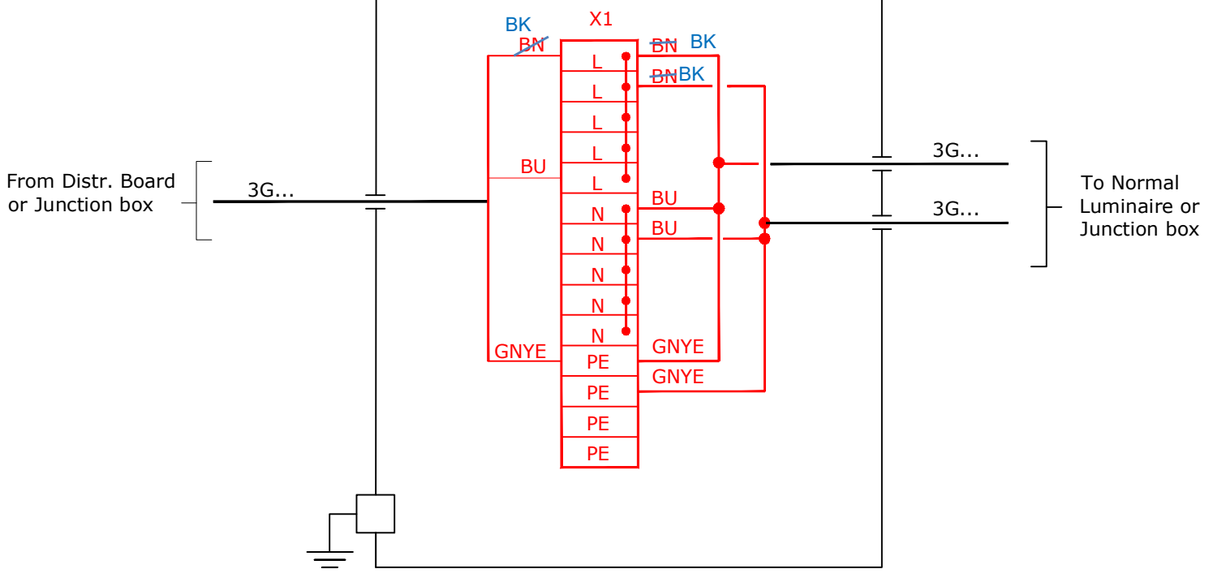
F.to UNI A3: 420mmx297mm

File Name : 123A90–DDL–EL–DG–20125

TYPE : L21N1 & L21N2

ITEM: NORMAL LIGHTING JUNCTION BOX

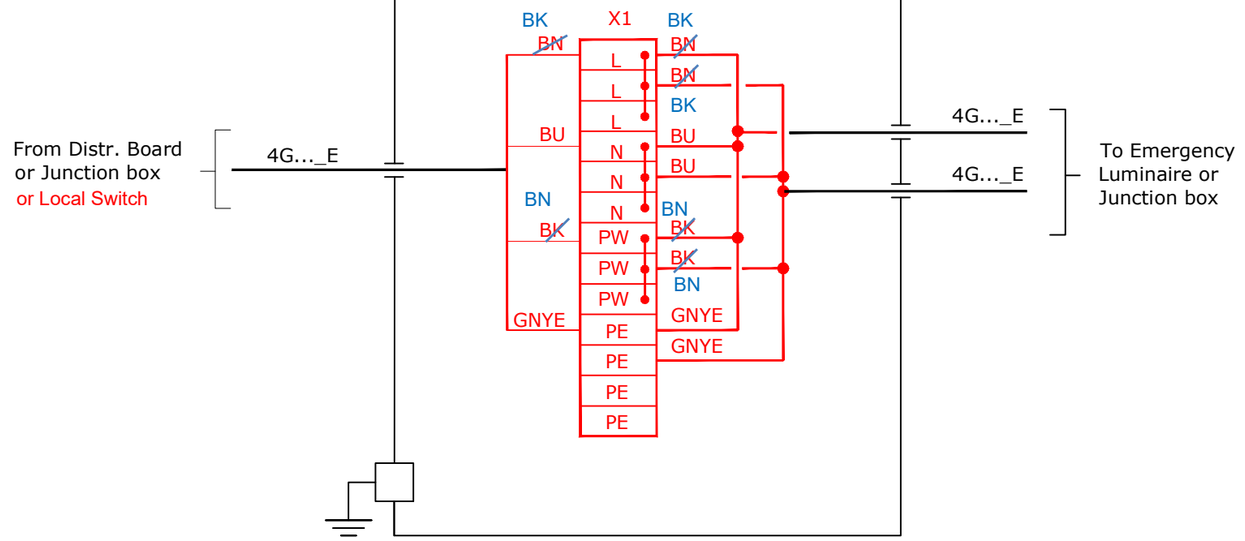
TAG : Typical



TYPE : L21E1 & L21E2

ITEM: EMERGENCY LIGHTING JUNCTION BOX

TAG : Typical



VALID FOR CONSTRUCTION

FDL DWG: **123A90-FDL-EL-DG-20125**

REV.:	DATE:	SIGNATURE:
2_G	16/01/25	G.Randi

ROSETTI MARINO SpA

CROSSWIND

ROSETTI MARINO

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	08/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)

TITLE : BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET CIRCUIT DIAGRAM
TYPICAL JB INTERCONNECTING DIAGRAM

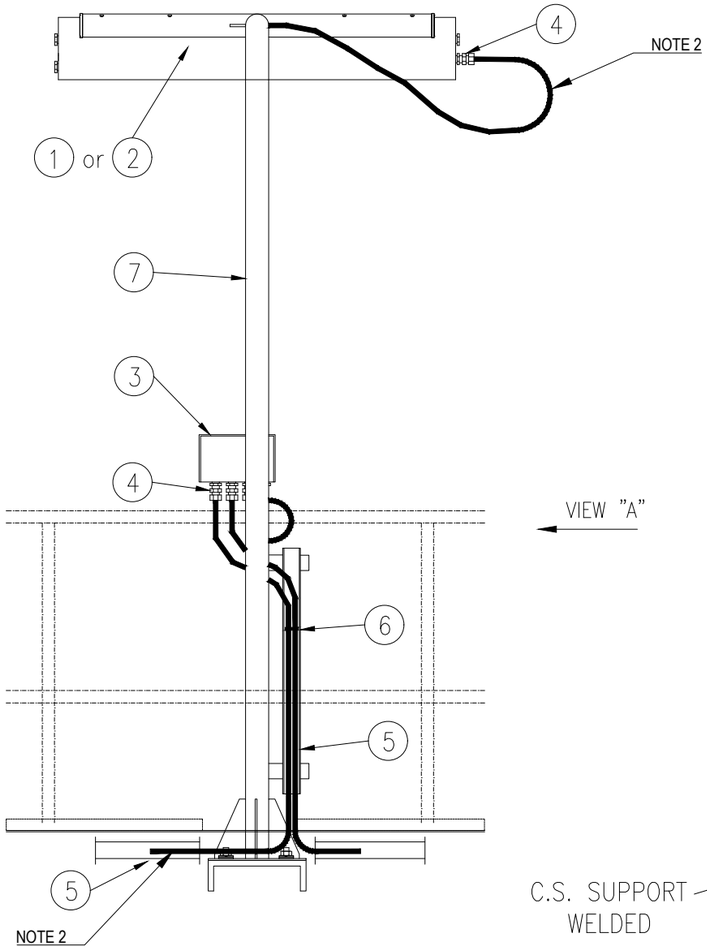
CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK | SCALE : NTS

A3	DRAWING NO.	SHEET	REV.
	123A90-DDL-EL-DG-20125	016	01

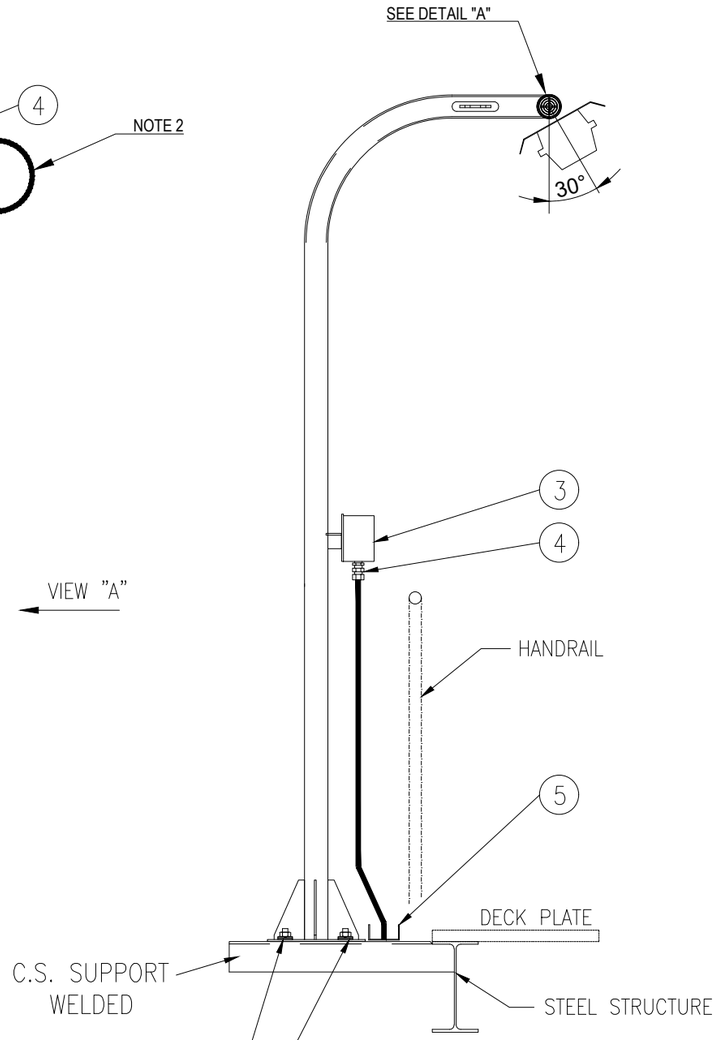
F.to UNI A3: 420mmx297mm

File Name : 123A90-DDL-EL-DG-20125

L11A

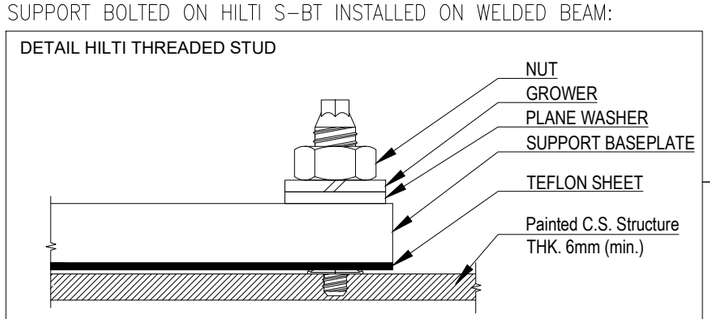


VIEW "A"

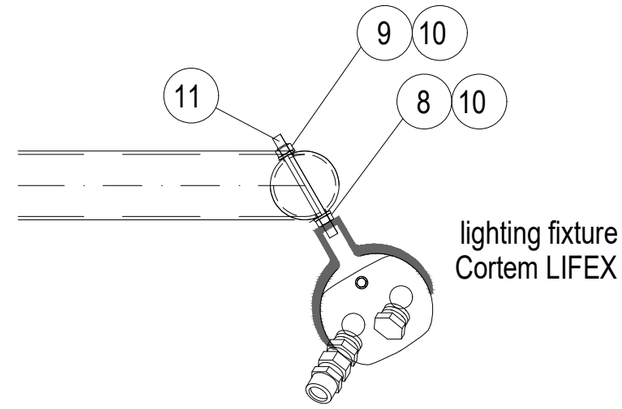


VIEW "A"

SUPPORT BOLTED ON HILTI S-BT INSTALLED ON WELDED BEAM:



POS.	DESCRIPTION	MATERIAL	SIZE	Q.TY	NOTE
1	42W LED LUMINARIES	ALUMINIUM ALLOY		1	
2	45W LED LUMINARIES C/W BATTERY	ALUMINIUM ALLOY		1	
3	JUNCTION BOX (Ex)	GRP		1	NOTE 1
4	CABLE GLAND C/W EARTH TAG, WASHERS, LOCKNUT AND WEATHERPROOF WASHERS	BRASS NICKEL PLATED		AS REQ.	
5	CABLE TRAY	AISI 316L			
6	STAINLESS STEEL NYLON COATED CABLE TIE	SS NYLON COATED			
7	POLE SUPPORT FOR LAMP	AISI 316L	2"		
8	NUT	AISI 316L	M8		
9	SELF.LOCKING NUT	AISI 316L	M8		
10	LARGE PLANE WASHER (24mm DIAM.)	AISI 316L	M8		
11	THREADED ROD M8x100	AISI 316L	M8		



DETAIL "A"

NOTES:

1) FOR LAMPS IN HAZARDOUS AREA, USE ARMOURED CABLE, DOUBLE SEAL CABLE GLAND AND EX JUNCTION BOX.

2) ALWAYS ENSURE CABLE LENGTH IS >3m

VALID FOR CONSTRUCTION

REV.:	DATE:	SIGNATURE:
2_B	12/12/24	C.Pilato

ROSETTI MARINO SpA

02

CROSSWIND

ROSETTI MARINO

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	30/09/24	GRA	AMA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	04/07/24	NLK	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	21/11/23	SPS	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL TYPICAL INSTALLATION DETAILS-LIGHTING SYSTEM
LIGHTING FIXTURE MOUNTED ON POLE

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK | SCALE : NTS

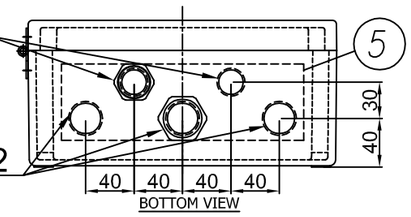
A3 | DRAWING NO. 123A90-DDL-EL-DD-20091 | SHEET 014 | REV. 02

F.to UNI A3: 420mmx297mm

File Name : 123A90-DDL-EL-DD-20091 REV.02.DWG

(10)(4) N°2 PASSING HOLES Ø20.2
C/W N°1 BNK PLUG M20 +
N°1 DUSTPROOF PVC PLUG

(3)(3) N°3 PASSING HOLES Ø25.2
C/W N°1 BNK PLUG M25 +
N°1 DUSTPROOF PVC PLUG



BOTTOM VIEW

(8) I2400722-B015I00029809

TECHNOR ITALSMEA
A COMPANY OF MARECHAL ELECTRIC
Via Italia 33 - 20060 Gessate (MI) ITALY

CE 0080 Ex II 2G II 2D
FIDI 21ATEX 0090X
IECEx FIDI 21.0015X
Year of construction:

MADE IN ITALY

TYPE: AQ-252612P
230VAC 50Hz 20A
Max Dis. P. 6W

Ex eb IIC T6 Gb
Ex tb IIIC T85°C Db
IP66
T.amb. -20/+40°C
Serial Nr.

WARNINGS : DO NOT OPEN WHEN ENERGIZED

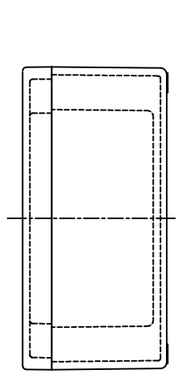
A002MAX

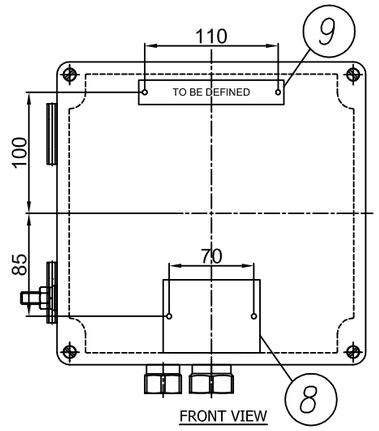
(9) PLATE DETAIL



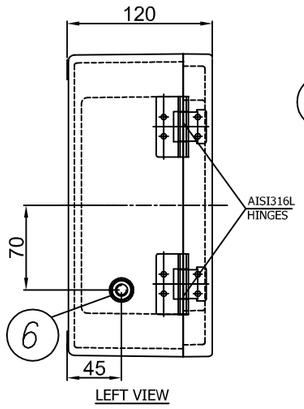
MATERIAL: LAMINATED PLASTIC
BACKGROUND: WHITE
LETTERS: BLACK

(7) Terminals numbered: NOTE 1

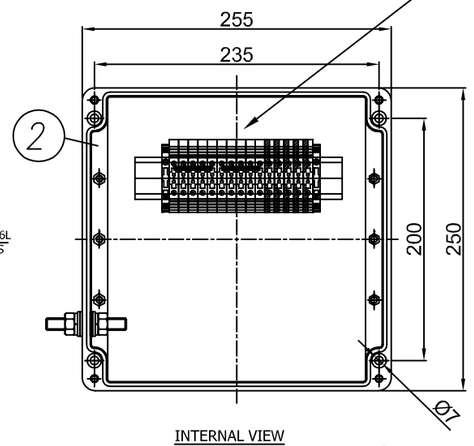

RIGHT VIEW



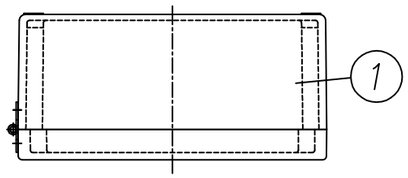
FRONT VIEW



LEFT VIEW



INTERNAL VIEW



TOP VIEW

NOTE1 :
- JB for Normal Lighting have terminals bridge: L-L-L-L-L, N-N-N-N-N, PE-PE-PE-PE-PE - JB for Emergency Lighting have terminals bridge: L-L-L, N-N-N, PW-PW-PW, PE-PE-PE-PE-PE

ITEM	DESCRIPTION	Pcs Q.TY	NOTE/MAT.	CODE	MANUFACTURER
11	DUSTPROOF PVC PLUG Ø25	2	–	.	TECHNOR ITALSMEA
10	DUSTPROOF PVC PLUG Ø20	1	–	.	TECHNOR ITALSMEA
9	LAMINATED PLASTIC TAG 120X20	1	–	.	TECHNOR ITALSMEA
8	AISI316L CERTIFICATE PLATE 80X60	1	–	.	TECHNOR ITALSMEA
7	BEIGE TERMINAL BLOCK SIZE 6 SQMM EARTH TERMINAL BLOCK SIZE 6 SQMM	10 5	WDU–6 WPE–6	.	WEIDMULLER
6	AISI316L INT/EXT EARTH BOLT M10	1	BTP–10	.	TECHNOR ITALSMEA
5	BRASS CONTINUITY PLATE THK. 0.8 MM	1	–	.	TECHNOR ITALSMEA
4	NICKEL PLATED BRASS PLUG M20	1	T20	.	TECHNOR ITALSMEA
3	NICKEL PLATED BRASS PLUG M25	1	T25	.	TECHNOR ITALSMEA
2	INTERNAL MOUNTING PLATE	1	PS–2526	.	TECHNOR ITALSMEA
1	GRP ENCLOSURE	1	AQ–252612P	.	TECHNOR ITALSMEA

-UNPAINTED (BLACK NATURAL)
Q.TY 92, ITEM 20: 2JBXXGPEE, ELEJB02

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
05	20/12/24	FB	OB	OB	ACCEPTED FOR CONSTRUCTION (AFC)
04	26/11/24	FB	OB	OB	ACCEPTED FOR CONSTRUCTION (AFC)
03	25/10/24	FB	OB	OB	ACCEPTED FOR CONSTRUCTION (AFC)
02	12/09/24	FB	OB	OB	ACCEPTED FOR CONSTRUCTION (AFC)
01	03/09/24	FB	OB	OB	ACCEPTED FOR CONSTRUCTION (AFC)
00	30/07/24	FB	OB	OB	ISSUE FOR REVIEW (IFR)

Explosion Proof
Electrical Equipment
Materiali Elettrici Antideflagranti
TECHNOR ITALSMEA
A COMPANY OF MARECHAL ELECTRIC

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)

Junction Box for Normal & Emergency Lighting

CONTRACT NO./TITLE CW–I–WP4–2023–05/HOLLANDSE KUST NOORD WIND PARK

SCALE : NTS

A3

DRAWING NO. 1724001481–EL–DA–00003

SHEET 004

REV. 05

F.to UNI A3: 420mmx297mm

File Name : 1724001481–EL–DA–00003 Rev. 01

ENCLOSURE N°	TAG LIST	NORMAL LIGHTING	EMERGENCY LIGHTING
1	EJB-200N1-03-L2-04	X	
2	EJB-200N1-03-L2-03	X	
3	EJB-200N1-03-L2-01	X	
4	EJB-200N1-03-L2-02	X	
5	EJB-200N1-03-L2-12	X	
6	EJB-200N1-03-L2-11	X	
7	EJB-200N1-03-L2-10	X	
8	EJB-200N1-03-L2-09	X	
9	EJB-200N1-03-L2-08	X	
10	EJB-200N1-03-L2-07	X	
11	EJB-200N1-03-L2-06	X	
12	EJB-200N1-03-L2-05	X	
13	EJB-200N1-03-L2-14	X	
14	EJB-200N1-03-L2-13		X
15	EJB-200N1-09-L2-17		X
16	EJB-200N1-09-L2-01		X
17	EJB-200N1-09-L2-04		X
18	SPARE (TO BE PROVIDED BLANK)		X
19	EJB-200N1-09-L2-02		X
20	EJB-200N1-09-L2-15		X
21	EJB-200N1-09-L2-14		X
22	EJB-200N1-09-L2-13		X
23	EJB-200N1-09-L2-12		X
24	EJB-200N1-09-L2-11		X
25	EJB-200N1-09-L2-10		X
26	EJB-200N1-09-L2-09		X
27	EJB-200N1-09-L2-08		X
28	EJB-200N1-09-L2-07		X
29	EJB-200N1-09-L2-06		X
30	EJB-200N1-09-L2-05		X
31	EJB-200N1-09-L2-16	X	
32	EJB-200N1-04-L3-01	X	
33	EJB-200N1-04-L3-02	X	
34	EJB-200N1-10-L3-05		X
35	EJB-200N1-10-L3-06		X
36	EJB-200N1-10-L3-07		X
37	EJB-200N1-10-L3-08		X
38	EJB-200N1-10-L3-09		X
39	EJB-200N1-10-L3-02		X
40	EJB-200N1-10-L3-01		X
41	EJB-200N1-10-L3-03		X
42	EJB-200N1-10-L3-04		X
43	EJB-200N1-02-L1-03	X	
44	EJB-200N1-02-L1-02	X	
45	EJB-200N1-02-L1-01	X	
46	SPARE (TO BE PROVIDED BLANK)	X	
47	EJB-200N1-02-L1-10	X	
48	EJB-200N1-02-L1-19	X	
49	EJB-200N1-02-L1-18	X	

ENCLOSURE N°	TAG LIST	NORMAL LIGHTING	EMERGENCY LIGHTING
50	EJB-200N1-02-L1-17	X	
51	EJB-200N1-02-L1-16	X	
52	EJB-200N1-02-L1-15	X	
53	EJB-200N1-02-L1-14	X	
54	EJB-200N1-02-L1-13	X	
55	EJB-200N1-02-L1-12	X	
56	EJB-200N1-02-L1-11	X	
57	EJB-200N1-02-L1-06	X	
58	EJB-200N1-02-L1-05	X	
59	EJB-200N1-02-L1-07	X	
60	EJB-200N1-02-L1-08	X	
61	EJB-200N1-02-L1-09	X	
62	EJB-200N1-08-L1-03		X
63	SPARE (TO BE PROVIDED BLANK)		X
64	EJB-200N1-08-L1-01		X
65	EJB-200N1-08-L1-04		X
66	EJB-200N1-08-L1-19		X
67	EJB-200N1-08-L1-18		X
68	EJB-200N1-08-L1-17		X
69	EJB-200N1-08-L1-16		X
70	EJB-200N1-08-L1-15		X
71	EJB-200N1-08-L1-14		X
72	EJB-200N1-02-L1-20	X	
73	EJB-200N1-08-L1-12		X
74	EJB-200N1-08-L1-11		X
75	EJB-200N1-08-L1-10		X
76	EJB-200N1-08-L1-20		X
77	EJB-200N1-08-L1-05		X
78	EJB-200N1-08-L1-06		X
79	EJB-200N1-08-L1-07		X
80	EJB-200N1-08-L1-09		X
81	EJB-200N1-08-L1-08		X
82	EJB-200F2-01	X	
83	EJB-200F2-02	X	
84	SPARE (TO BE PROVIDED BLANK)	X	
85	SPARE (TO BE PROVIDED BLANK)	X	
86	SPARE (TO BE PROVIDED BLANK)	X	
87	SPARE (TO BE PROVIDED BLANK)	X	
88	SPARE (TO BE PROVIDED BLANK)	X	
89	SPARE (TO BE PROVIDED BLANK)		X
90	SPARE (TO BE PROVIDED BLANK)		X
91	SPARE (TO BE PROVIDED BLANK)		X
92	SPARE (TO BE PROVIDED BLANK)		X

Q.TY 92, ITEM 20: 2JBXXGPEE, ELEJB02

Explosion Proof
Electrical Equipment
Materiali Elettrici Antideflagranti

TECHNOR ITALSMEA
A COMPANY OF MARECHAL ELECTRIC

CROSSWIND

ROSETTI MARINO

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
05	20/12/24	FB	OB	OB	ACCEPTED FOR CONSTRUCTION (AFC)
04	26/11/24	FB	OB	OB	ACCEPTED FOR CONSTRUCTION (AFC)
03	25/10/24	FB	OB	OB	ACCEPTED FOR CONSTRUCTION (AFC)
02	12/09/24	FB	OB	OB	ACCEPTED FOR CONSTRUCTION (AFC)
01	03/09/24	FB	OB	OB	ACCEPTED FOR CONSTRUCTION (AFC)
00	30/07/24	FB	OB	OB	ISSUE FOR REVIEW (IFR)

TITLE : BASE LOAD POWER HUB (BLPH)

Junction Box for Normal & Emergency Lighting–Tag List

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE : NTS

A3

DRAWING NO. 1724001481-EL-DA-00003

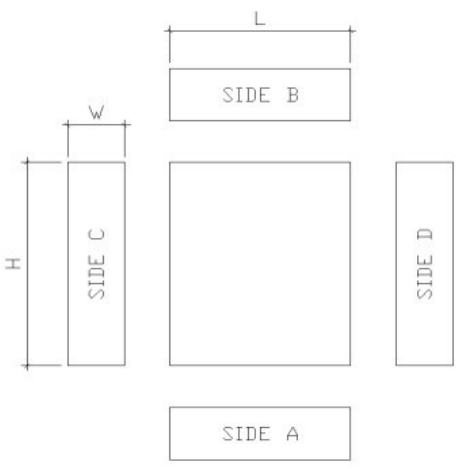
SHEET 005

REV. 05

F.to UNI A3: 420mmx297mm

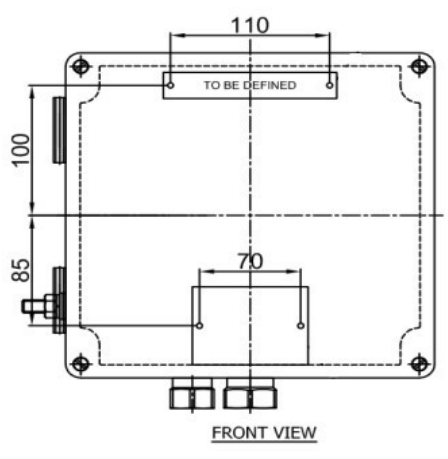
File Name : 1724001481-EL-DA-00003 Rev. 01

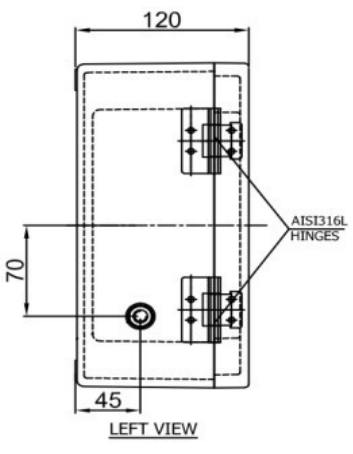
Row	Data Sheet for Control Stations, Junction Boxes and Sockets				Rev.
1	Junction Box for Normal & Emergency Lighting (Exdb)				
2	Item	Required	Manufacturer Proposal	Comments	
3	Model Number	by Vendor	AQ-252612P		01
4	Serial Number	by Vendor	B011041010004		01
5	Quantity	43+5(spare)		(39+9 spare)	01
6	Appkication	Lighting pole JB/Lighting JB			00
7	**Installation area**				
8	Indoor/Outdoor	Outdoor			00
9	Safe Area/Hazardous Area	Hazardous area			00
10	Zone 1/Zone 2	Zone-1			00
11	Temp. Class	Zone 1 Gas Group IIC (or) IIB + H2, T1	Ex eb IIC, T6 Gb		01
12	**Electrical input data**				
13	Voltage	230 V ac	230 V ac		01
14	Number of Phases	1ph + N + PE			00
15	**Material**				
16	Body	GRP	GRP		01
17	Execution	Ex eb	Ex eb		00
18	Protection Degree	IP56	IP 66		01
19	**Accessories**				
20	Hinged Cover	Required	AISI316L Hinges		01
21	Gasket	Required			00
22	Removable Gland Plates	Required	Brass Continuity plate 0.8mm thick		01
23	Internal Mounting Plate	Thickness 3mm threaded		connected to Internal ground bar	00
24	Internal Ground Bar	Required		connected to earth stud	00
25	Earth Stud	Required			00
26	Drainage Valve	Required			00
27	Pad lockable Cover	Required			00
28	Identification Label	Trafolite/ Stainless Steel	Laminated Plastic	for all label	01
29	**Side 'A'**				
30	Hubs Qty.	5	5		01
31	Size	No.3 M25, No.2 M20	No.3 Ø 25.2 mm, No.2 Ø 20.2 mm		01
32	Thread	ISO-M			00
33	Plug	No. 1 M20, No.1 M25	No. 1 Ø 20.2 mm, No.1 Ø 25.2 mm	nickel-plated brass	01
34	**Side 'B'**				
35	Hubs Qty.	Not Required			00
36	Size	NA			00
37	Thread	NA			00
38	**Side 'C'**				
39	Hubs Qty.	Not Required			00
40	Size	NA			00
41	Thread	NA			00
42	**Side 'D'**				
43	Hubs Qty.	Not Required			00
44	Size	NA			00
45	Thread	NA			00
46	**Terminals**				
47	Size [mm^2]	Suitable for 6 Sq.mm & 2.5 Sq.mm Cable	M25 & M20	suitable with wire-end ferrules DIN 46228	01
48	Qty.	n°5 for Ph // n°5 for N // n°5 for PE	n°5 for Ph // n°5 for N // n°5 for PE	Ex - jumpered	01
49	**Bonding Cable (yellow/Green)**				
50	Size [mm^2]	by vendor		6 mm^2	01
51	Qty.	Min. 0.15m			00
52	**Dimension**				
53	Height 'H' [mm]	by vendor	120 mm		01
54	Width 'W' [mm]	by vendor	250 mm		01
55	Length 'L' [mm]	by vendor	255 mm		01
56	Weight [Kg]	by vendor	2.65 Kg		01
57	JB Code (*)	Remarks			
58					



NOTES:

(*) Filled by Vendor





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Tag Number	Tag Description	Location	P.O.	Vendor	Manufacturer	Serial Number	Model Type Catalogue Number	Installation Zone	ATEX Certificate Number	Reference Document	ATEX Certification Marking	Notes / Comments	Skid / Package	Electrical Equip.	Barrier Calculation Ref.	Special Conditions of Safe Use Applicable	3D Location
CB-200F4B	AC UPS F&G - Battery Isolator-B	CONTAINER B-300 (LOWER DECK)	1724000372	3W Power	Cortem Spa		EJBC	Zone 1	EPT 20 ATEX 4075X	1724000372-EL-DG-00011	II 2GDEx db IIC T6 Gb Ex tb IIIC T 85°C Db	-	N/A	True	N/A	False	
EAT-200N1-01	Trace Heating - Remote Ambient Thermostat	LOWER DECK	1724001647	nVent	nVent	1244-022663	ETS-05-A2-E-A	Zone 1	Baseefa 13ATEX0137	1724001647-EL-DD-00004	II 2(1)G Ex eb ia mb [ia Ga] IIC T5 Gb - 40ºC ≤ Ta ≤ +60ºC II 2D Ex tb IIIC T100ºC Db	-	N/A	True	N/A	False	
EHT-1001-A	Self-regulating heat cable	LOWER DECK	1724001647	nVent	nVent	469145-000	3BTV2-CT	Zone 1	SGS20ATEX0048X	1724001647-EL-DD-00004	II 2 GD Ex 60079-30-1 eb IIC T6 Gb	-	N/A	True	N/A	True	
EHT-1002-A	Self-regulating heat cable	LOWER DECK	1724001647	nVent	nVent	469145-000	3BTV2-CT	Zone 1	SGS20ATEX0048X	1724001647-EL-DD-00004	II 2 GD Ex 60079-30-1 eb IIC T6 Gb	-	N/A	True	N/A	True	
EHT-1003-A	Self-regulating heat cable	LOWER DECK	1724001647	nVent	nVent	469145-000	3BTV2-CT	Zone 1	SGS20ATEX0048X	1724001647-EL-DD-00004	II 2 GD Ex 60079-30-1 eb IIC T6 Gb	-	N/A	True	N/A	True	
EHT-1004-A	Self-regulating heat cable	UPPER DECK	1724001647	nVent	nVent	469145-000	3BTV2-CT	Zone 1	SGS20ATEX0048X	1724001647-EL-DD-00004	II 2 GD Ex 60079-30-1 eb IIC T6 Gb	-	N/A	True	N/A	True	
EHT-1004-B	Self-regulating heat cable	UPPER DECK	1724001647	nVent	nVent	469145-000	3BTV2-CT	Zone 1	SGS20ATEX0048X	1724001647-EL-DD-00004	II 2 GD Ex 60079-30-1 eb IIC T6 Gb	-	N/A	True	N/A	True	
EHT-1005-A	Self-regulating heat cable	UPPER DECK	1724001647	nVent	nVent	469145-000	3BTV2-CT	Zone 1	SGS20ATEX0048X	1724001647-EL-DD-00004	II 2 GD Ex 60079-30-1 eb IIC T6 Gb	-	N/A	True	N/A	True	
EHT-1006-A	Self-regulating heat cable	UPPER DECK	1724001647	nVent	nVent	469145-000	3BTV2-CT	Zone 1	SGS20ATEX0048X	1724001647-EL-DD-00004	II 2 GD Ex 60079-30-1 eb IIC T6 Gb	-	N/A	True	N/A	True	
EHT-1007-A	Self-regulating heat cable	LOWER DECK	1724001647	nVent	nVent	469145-000	3BTV2-CT	Zone 1	SGS20ATEX0048X	1724001647-EL-DD-00004	II 2 GD Ex 60079-30-1 eb IIC T6 Gb	-	N/A	True	N/A	True	
EHT-2002-A	Self-regulating heat cable	UPPER DECK	1724001647	nVent	nVent	469145-000	3BTV2-CT	Zone 1	SGS20ATEX0048X	1724001647-EL-DD-00004	II 2 GD Ex 60079-30-1 eb IIC T6 Gb	-	N/A	True	N/A	True	
EJB-200F2-01	Top Obstruction Lights Junction Box	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990082	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	HAZARDOUS-AREA_8 HAZARDOUS-AREA_3
EJB-200F2-02	Intermediate obstruction lights junction box	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990083	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	HAZARDOUS-AREA_4
EJB-200N1-02-L1-01	Normal Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990045	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-02-L1-02	Normal Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990044	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-02-L1-03	Normal Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990043	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	HAZARDOUS-AREA_3
EJB-200N1-02-L1-05	Normal Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990058	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-02-L1-06	Normal Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990057	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-02-L1-07	Normal Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990059	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-02-L1-08	Normal Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990060	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-02-L1-09	Normal Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990061	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-02-L1-10	Normal Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990047	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-02-L1-11	Normal Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990056	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-02-L1-12	Normal Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990055	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-02-L1-13	Normal Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990054	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-02-L1-14	Normal Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990053	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-02-L1-15	Normal Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990052	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-02-L1-16	Normal Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990051	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-02-L1-17	Normal Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990050	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-02-L1-18	Normal Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990049	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-02-L1-19	Normal Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990048	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-02-L1-20	Normal Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990072	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-03-L2-01	Normal Lighting JB	LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990003	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-03-L2-02	Normal Lighting JB	LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990004	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-03-L2-03	Normal Lighting JB	LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990002	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-03-L2-04	Normal Lighting JB	LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990001	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-03-L2-05	Normal Lighting JB	LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990012	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-03-L2-06	Normal Lighting JB	LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990011	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-03-L2-07	Normal Lighting JB	LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990010	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-03-L2-08	Normal Lighting JB	LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990009	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-03-L2-09	Normal Lighting JB	LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990008	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-03-L2-10	Normal Lighting JB	LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990007	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-03-L2-11	Normal Lighting JB	LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990006	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-03-L2-12	Normal Lighting JB	LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990005	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-03-L2-13	Normal Lighting JB	LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990014	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-03-L2-14	Normal Lighting JB	LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990013	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-04-L3-01	Stair Normal Lighting JB	LOWER DECK STAIRS	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990032	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-04-L3-02	Stair Normal Lighting JB	LOWER DECK STAIRS	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990033	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-08-L1-01	Emergency Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990064	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-08-L1-03	Emergency Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990062	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	HAZARDOUS-AREA_3
EJB-200N1-08-L1-04	Emergency Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990065	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-08-L1-05	Emergency Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990077	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-08-L1-06	Emergency Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990078	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	

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[1] # EU – TYPE EXAMINATION CERTIFICATE

[2] Equipment or Protective Systems Intended for use in Potentially Explosive Atmospheres Directive 2014/34/EU.

[3] EU-Type Examination Certificate Number: **FIDI 21 ATEX 0090X** Issue: **1**

[4] Product: **Junction boxes, local control stations and local control panels**

Type: **AQ-***P / AQ-***AL / AR-***P / AR-***AL**
AQ-*P-HT / AQ-***AL-HT / AR-***P-HT / AR-***AL-HT**
SB-* / ST-***
EFE-* / EFXE-*** AL / EFXE-***SB / EFXE-***ST**
EFE-*-HT / EFXE-***AL-HT**

[5] Manufacturer: **Technor Italsmea S.p.A.**

[6] Address: **Via Italia 33, 20060 Gessate (MI), Italy**

[7] This product and any acceptable variation thereto is specified in the schedule to this certificate and documents therein referred to.

[8] FIDITAS Ltd., Notified Body number 2829 in accordance with Article 17 of Directive 2014/34/EU of the European Parliament and of the Council, dated 26 February 2014, certifies that this product has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of products intended for use in potentially explosive atmospheres given in Annex II of the Directive.

The examination and test results are recorded in confidential Report No: **FIDI 21 CR 075**

[9] Compliance with the Essential Health and Safety Requirements has been assured by compliance with:

EN IEC 60079-0:2018	**EN 60079-1:2014**	**EN IEC 60079-7:2015 / A1:2018**
EN 60079-11:2012	**EN 60079-18:2015/A1:2017**	**EN 60079-31:2014**

except in respect of those requirements listed at item 18 of the Schedule.

[10] If the sign 'X' is placed after the certificate number, it indicates that the product is subject to Specific Conditions of Use specified in the schedule to this certificate.

[11] This EU-Type Examination Certificate relates only to the design, examination and test of the specified product in accordance with Annex III. Further requirements of the Directive apply to the manufacturing process and supply of this products. These are not covered by this certificate.

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[12] The marking of the product shall include the following:



II 1 G	**Ex ia IIC/IIB T6...T4 Ga**(2) or
II 2(1) G or **II 2(2) G**	**Ex db eb ia/ib mb [**(3)**] IIC/IIB T6...T4 Gb**(1) or
II 2 G	**Ex eb IIC/IIB T6...T4 Gb**(1) or
II 2 D	**Ex tb IIIC T85°C...T135°C Db**

(1) Others type of protection additional to 'eb' depending to the components actually mounted.

(2) In case of enclosures containing 'eb' terminals and/or 'ia Ga' already certified components (with compatible marking) only.

(3) Associated equipment protection depending on the components actually mounted (see lists): e.g. [ia/ib/ia Ga/ia IIIC Da] and/or [ia IIIC Da] or [ia/ib/ia Ga/ia IIIC Da] and/or [ia/ib/ia Ga] [ia IIIC Da]

Our ref.: 21.CRT.400

Date: 23. 12.2021.

Fiditas d.o.o. ZAGREB

FIDITAS Ltd.
Certification department
Approved:

Marino Kelava, M.E.Eng.

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[13] **SCHEDULE**

[14] **EU - TYPE EXAMINATION CERTIFICATE No.:** **FIDI 21 ATEX 0090X**

[15] **Description of product**

Junction boxes, local control stations and local control panels are made of 'eb' and 'tb' enclosures in stainless steel, aluminium alloy or glass fiber reinforced polyester resin, of various dimensions, which shall house 'eb' and/or 'ia/ib' terminals and/or Ex components or Ex equipment made in different type of Ex protection. All Ex terminals, Ex components and Ex equipment are covered by their own ATEX certificates.

The terminals and components are be used according to data available in related component certificates, in relevant temperature range, voltage and current limitations. The terminals must be fitted in accordance with EN IEC 60079-0 and EN IEC 60079-7 with regards to creepage and clearance distances, and according to related safety instructions.

The cover is fixed to the body with screw, between body and cover a gasket guarantee the protection degree IP66 (IP66/67 depending on models). The cover of stainless-steel enclosure can be also fixed the body with looking devices, between body and cover a gasket guarantee the protection degree IP66. The IP degree of junction boxes, local control stations and local control panels depend on the components actually mounted. The walls and the bottom of the boxes can be drilled and taped with maximum size and maximum number of holes as specified in the manufacturer documents.

The cable glands or plugs, with separate ATEX certificate, made in type of protection 'eb' and/or 'tb' with appropriate IP protection are mounted according to related manufacturer's installation instructions. Each enclosure is provided with internal earthing certified terminal or earthing screw or bolt. Metal enclosures are provided by external earthing screw or bolt. Metal and polyester enclosures can be provided by passing through earthing terminals.

All enclosures can be provided by:
- Externally installed accessories as specified in manufacturer documents,
- Drain breath device type ECR3, included in this certificate,
- Internal/external earthing plate.

Model identification

Junction boxes

A(1)-(2) (3) (4) (5) (6)	(1) –	**Q**: Square size **R**: Rectangular size
	(2) (3) (4)	dimension, in cm
	(5)	Material **P**: Glass fiber reinforced polyester resin **AL**: Aluminium Alloy
	(6)	None: up to internal temperature of 105°C **HT**: up to internal temperature of 130°C
SB- (2) (3) (4)	(2) (3) (4)	dimension, in cm
ST- (2) (3) (4)	(2) (3) (4)	dimension, in cm

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Panel boards

EFE- (2) (3) (4) (6)	(2) (3) (4)	dimension, in cm
	(6)	None: up to internal temperature of 105°C **HT**: up to internal temperature of 130°C
EFXE- (2) (3) (4) (5) (6)	(2) (3) (4)	dimension, in cm
		Material
	(5)	**SB** or **ST**: stainless steel **AL**: Aluminium Alloy
	(6)	None: up to internal temperature of 105°C **HT**: up to internal temperature of 130°C

Technical data:

Electrical data:	According to Ex component to actually installed
Ambient temperature:	-50°C ÷ +95°C Other possible ranges are with: - min temperature: -50°C to -20 °C - max temperature of +40 °C to +95 °C
Mechanical protection:	IP66/IP67 depending on models IP66 without swing handle element IP55 with swing handle element

Temperature class and/or maximum surface temperature of any junction box or control panel depend on ambient temperature and internal power dissipation. The values that must be observed are given in relevant tables in this certificate.

For commercial reasons model name listed in the tables below can be modified as follows: first (2) and second (3) pair of digits can be reversed.

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Model sizes

Polyester High Temperature		Aluminium High Temperature	
AQ-080806P-HT	EFE-080806-HT	AQ-080806AL-HT	EFXE-080806AL-HT
AQ-080808P-HT	EFE-080808-HT	AR-081306AL-HT	EFXE-081306AL-HT
AR-081106P-HT	EFE-081106-HT	AR-081806AL-HT	EFXE-081806AL-HT
AR-081108P-HT	EFE-081108-HT	AR-082505AL-HT	EFXE-082505AL-HT
AR-081606P-HT	EFE-081606-HT	AQ-101008AL-HT	EFXE-101008AL-HT
AR-081608P-HT	EFE-081608-HT	AR-101608AL-HT	EFXE-101608AL-HT
AR-081906P-HT	EFE-081906-HT	AR-102008AL-HT	EFXE-102008AL-HT
AR-081908P-HT	EFE-081908-HT	AQ-121208AL-HT	EFXE-121208AL-HT
AR-082306P-HT	EFE-082306-HT	AQ-121209AL-HT	EFXE-121209AL-HT
AR-082308P-HT	EFE-082308-HT	AR-122208AL-HT	EFXE-122208AL-HT
AQ-121209P-HT	EFE-121209-HT	AR-122209AL-HT	EFXE-122209AL-HT
AR-122209P-HT	EFE-122209-HT	AR-123608AL-HT	EFXE-123608AL-HT
AQ-161609P-HT	EFE-161609-HT	AQ-141409AL-HT	EFXE-141409AL-HT
AR-162609P-HT	EFE-162609-HT	AR-142009AL-HT	EFXE-142009AL-HT
AR-163609P-HT	EFE-163609-HT	AQ-161609AL-HT	EFXE-161609AL-HT
AR-165609P-HT	EFE-165609-HT	AR-162609AL-HT	EFXE-162609AL-HT
AQ-202017P-HT	EFE-202017-HT	AR-163609AL-HT	EFXE-163609AL-HT
AR-203017P-HT	EFE-203017-HT	AR-165609AL-HT	EFXE-165609AL-HT
AQ-252612P-HT	EFE-252612-HT	AQ-181810AL-HT	EFXE-181810AL-HT
AQ-252616P-HT	EFE-252616-HT	AR-182810AL-HT	EFXE-182810AL-HT
AR-254012P-HT	EFE-254012-HT	AR-102311AL-HT	EFXE-102311AL-HT
AR-254016P-HT	EFE-254016-HT	AR-202311AL-HT	EFXE-202311AL-HT
AR-256012P-HT	EFE-256012-HT	AR-202318AL-HT	EFXE-202318AL-HT
AR-304020P-HT	EFE-304020-HT	AR-232811AL-HT	EFXE-232811AL-HT
AQ-363609P-HT	EFE-363609-HT	AR-233311AL-HT	EFXE-233311AL-HT
AR-406025P-HT	EFE-406025-HT	AR-233318AL-HT	EFXE-233318AL-HT
AQ-414012P-HT	EFE-414012-HT	AR-234011AL-HT	EFXE-234011AL-HT
AQ-414020P-HT	EFE-414020-HT	AR-234023AL-HT	EFXE-234023AL-HT
		AR-236011AL-HT	EFXE-236011AL-HT
		AR-314011AL-HT	EFXE-314011AL-HT
		AR-314014AL-HT	EFXE-314014AL-HT
		AR-314018AL-HT	EFXE-314018AL-HT
		AR-314023AL-HT	EFXE-314023AL-HT
		AR-316011AL-HT	EFXE-316011AL-HT
		AR-316018AL-HT	EFXE-316018AL-HT
		AQ-606020AL-HT	EFXE-606020AL-HT

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Polyester		Aluminium		Stainless steel	
AQ-080806P	EFE-080806	AQ-080806AL	EFXE-080806AL	SB-101210	EFXE-101210SB
AQ-080808P	EFE-080808	AR-081306AL	EFXE-081306AL	SB-151510	EFXE-151510SB
AR-081106P	EFE-081106	AR-081806AL	EFXE-081806AL	SB-142013	EFXE-142013SB
AR-081606P	EFE-081606	AR-081808AL	EFXE-081808AL	SB-202010	EFXE-202010SB
AR-081906P	EFE-081906	AR-082505AL	EFXE-082505AL	SB-202016	EFXE-202016SB
AQ-121209P	EFE-121209	AR-082508AL	EFXE-082508AL	SB-202713	EFXE-202713SB
AR-122209P	EFE-122209	AQ-101008AL	EFXE-101008AL	SB-272713	EFXE-272713SB
AQ-161609P	EFE-161609	AR-101508AL	EFXE-101508AL	SB-203016	EFXE-203016SB
AR-162609P	EFE-162609	AR-101608AL	EFXE-101608AL	SB-273513	EFXE-273513SB
AR-163609P	EFE-163609	AR-102008AL	EFXE-102008AL	SB-282816	EFXE-282816SB
AQ-252612P	EFE-252612	AQ-121208AL	EFXE-121208AL	SB-204016	EFXE-204016SB
AQ-252616P	EFE-252616	AR-122209AL	EFXE-122209AL	SB-353516	EFXE-353516SB
AR-254012P	EFE-254012	AQ-141409AL	EFXE-141409AL	SB-282827	EFXE-282827SB
AR-254016P	EFE-254016	AR-142009AL	EFXE-142009AL	SB-355016	EFXE-355016SB
AR-256012P	EFE-256012	AQ-161609AL	EFXE-161609AL	SB-383816	EFXE-383816SB
AQ-414012P	EFE-414012	AR-162410AL	EFXE-162410AL	SB-384516	EFXE-384516SB
		AR-162609AL	EFXE-162609AL	SB-385716	EFXE-385716SB
		AQ-181810AL	EFXE-181810AL	SB-505016	EFXE-505016SB
		AR-182810AL	EFXE-182810AL	SB-383827	EFXE-383827SB
		AR-202311AL	EFXE-202311AL	SB-575716	EFXE-575716SB
		AR-202318AL	EFXE-202318AL	SB-577620	EFXE-577620SB
		AR-232811AL	EFXE-232811AL	SB-575730	EFXE-575730SB
		AR-233312AL	EFXE-233312AL	SB-769520	EFXE-769520SB
		AR-233318AL	EFXE-233318AL	SB-1258040	EFXE-1258040SB

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Enclosure types (Stainless steel)	
ST-101210	EFXE-101210ST
ST-151510	EFXE-151510ST
ST-142013	EFXE-142013ST
ST-202010	EFXE-202010ST
ST-202016	EFXE-202016ST
ST-202713	EFXE-202713ST
ST-272713	EFXE-272713ST
ST-203016	EFXE-203016ST
ST-273513	EFXE-273513ST
ST-282816	EFXE-282816ST
ST-204016	EFXE-204016ST
ST-353516	EFXE-353516ST
ST-282827	EFXE-282827ST
ST-355016	EFXE-355016ST
ST-383816	EFXE-383816ST
ST-384516	EFXE-384516ST
ST-385716	EFXE-385716ST
ST-505016	EFXE-505016ST
ST-383827	EFXE-383827ST
ST-575716	EFXE-575716ST
ST-577620	EFXE-577620ST
ST-575730	EFXE-575730ST
ST-769520	EFXE-769520ST
ST-1258040	EFXE-1258040ST

Note 2 For stainless steel enclosures: dimensions (2) and (3) can be decreased or increased up to 20%, dimensions (4) can be increased up to 500 mm. Model name changes consequently.

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Power dissipation – HT glass fiber reinforced polyester resin enclosures

Enclosure types (polyester)		Maximum power dissipation (W) – Tamb. up to **40**°C							
		INTERNAL TEMP.60°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)	INTERNAL TEMP.127°C (T4/T135°C)
AQ-080806P-HT	EFE-080806-HT	3,5	5,2	7,0	7,8	9,6	10,4	11,3	15,2
AQ-080808P-HT	EFE-080808-HT	4,6	6,8	9,1	10,2	12,5	13,7	14,8	19,8
AR-081106P-HT	EFE-081106-HT	4,3	6,4	8,5	9,6	11,8	12,8	13,9	18,6
AR-081108P-HT	EFE-081108-HT	5,6	8,4	11,2	12,6	15,3	16,7	18,1	24,2
AR-081606P-HT	EFE-081606-HT	5,8	8,7	11,6	13,0	15,9	17,4	18,8	25.2
AR-081608P-HT	EFE-081608-HT	6,8	10,2	13,7	15,4	18,8	20,5	22,2	29,7
AR-081906P-HT	EFE-081906-HT	6,4	9,6	12,8	14,4	17,6	19,2	20,8	27,8
AR-081908P-HT	EFE-081908-HT	7,5	11,3	15,1	17,0	20,7	22,6	24,5	32,7
AR-082306P-HT	EFE-082306-HT	7,2	10,8	14,4	16,2	19,8	21,6	23,4	31,3
AR-082308P-HT	EFE-082308-HT	8,5	12,7	16,9	19,0	23,3	25,4	27,5	36,7
AQ-121209P-HT	EFE-121209-HT	8,0	12,0	15,9	17,9	21,9	23,9	25,9	34,7
AR-122209P-HT	EFE-122209-HT	10,8	16,2	21,6	24,3	29,7	32,4	35,1	47,0
AQ-161609P-HT	EFE-161609-HT	10,4	15,6	20,8	23,4	28,6	31,2	33,8	45,2
AR-162609P-HT	EFE-162609-HT	13,4	20,1	26,8	30,2	36,9	40,2	43,6	58,3
AR-163609P-HT	EFE-163609-HT	16,2	24,3	32,4	36,5	44,6	48,6	52,7	70,5
AR-165609P-HT	EFE-165609-HT	21,4	32,0	42,7	48,1	58,7	64,1	69,4	92,9
AQ-202017P-HT	EFE-202017-HT	18,0	26,9	35,9	40,4	49,4	53,9	58,4	78,1
AR-203017P-HT	EFE-203017-HT	20,9	31,3	41,7	47,0	57,4	62,6	67,8	90,8
AQ-252612P-HT	EFE-252612-HT	18,8	28,2	37,6	42,4	51,8	56,5	61,2	81,9
AQ-252616P-HT	EFE-252616-HT	20,8	31,1	41,5	46,7	57,1	62,3	67,5	90,3
AR-254012P-HT	EFE-254012-HT	22,8	34,2	45,7	51,4	62,8	68,5	74,2	99,3
AR-254016P-HT	EFE-254016-HT	26,2	39,3	52,4	58,9	72,0	78,6	85,1	113,9
AR-256012P-HT	EFE-256012-HT	29,0	43,6	58,1	65,3	79,9	87,1	94,4	126,3
AR-304020P-HT	EFE-304020-HT	32,3	48,5	64,7	72,7	88,9	97,0	105,1	140,7
AQ-363609P-HT	EFE-363609-HT	23,0	34,6	46,1	51,8	63,4	69,1	74,9	100,2
AR-406025P-HT	EFE-406025-HT	50,3	75,5	100,7	113,3	138,4	151,0	163,6	218,9
AQ-414012P-HT	EFE-414012-HT	29,1	43,7	58,2	65,5	80,1	87,3	94,6	126,6
AQ-414020P-HT	EFE-414020-HT	36,6	55,0	73,3	82,4	100,8	109,9	119,1	159,4

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Enclosure types (polyester)		Maximum power dissipation (W) – Tamb. up to **50**°C							
		INTERNAL TEMP.60°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)	INTERNAL TEMP.127°C (T4/T135°C)
AQ-080806P-HT	EFE-080806-HT	1,7	3,5	5,2	6,1	7,8	8,7	9,6	13,4
AQ-080808P-HT	EFE-080808-HT	2,3	4,6	6,8	8,0	10,2	11,4	12,5	17,5
AR-081106P-HT	EFE-081106-HT	2,1	4,3	6,4	7,5	9,6	10,7	11,8	16,5
AR-081108P-HT	EFE-081108-HT	2,8	5,6	8,4	9,8	12,6	13,9	15,3	21.5
AR-081606P-HT	EFE-081606-HT	2,9	5,8	8,7	10,1	13,0	14,5	15,9	22,3
AR-081608P-HT	EFE-081608-HT	3,4	6,8	10,2	11,9	15,4	17,1	18,8	26,3
AR-081906P-HT	EFE-081906-HT	3,2	6,4	9,6	11,2	14,4	16,0	17,6	24,6
AR-081908P-HT	EFE-081908-HT	3,8	7,5	11,3	13,2	17,0	18,8	20,7	29,0
AR-082306P-HT	EFE-082306-HT	3,6	7,2	10,8	12,6	16,2	18,0	19,8	27,7
AR-082308P-HT	EFE-082308-HT	4,2	8,5	12,7	14,8	19,0	21,1	23,3	32,5
AQ-121209P-HT	EFE-121209-HT	4,0	8,0	12,0	14,0	17,9	19,9	21,9	30,7
AR-122209P-HT	EFE-122209-HT	5,4	10,8	16,2	18,9	24,3	27,0	29,7	41,6
AQ-161609P-HT	EFE-161609-HT	5,2	10,4	15,6	18,2	23,4	26,0	28,6	40,0
AR-162609P-HT	EFE-162609-HT	6,7	13,4	20,1	23,5	30,2	33,5	36,9	51,6
AR-163609P-HT	EFE-163609-HT	8,1	16,2	24,3	28,4	36,5	40,5	44,6	62,3
AR-165609P-HT	EFE-165609-HT	10,7	21,4	32,0	37,4	48,1	53,4	58,7	82,2
AQ-202017P-HT	EFE-202017-HT	9,0	18,0	26,9	31,4	40,4	44,9	49,4	69,1
AR-203017P-HT	EFE-203017-HT	10,4	20,9	31,3	36,5	47,0	52,2	57,4	80,4
AQ-252612P-HT	EFE-252612-HT	9,4	18,8	28,2	32,9	42,4	47,1	51,8	72,5
AQ-252616P-HT	EFE-252616-HT	10,4	20,8	31,1	36,3	46,7	51,9	57,1	79,9
AR-254012P-HT	EFE-254012-HT	11,4	22,8	34,2	39,9	51,4	57,1	62,8	87,9
AR-254016P-HT	EFE-254016-HT	13,1	26,2	39,3	45,8	58,9	65,5	72,0	100,8
AR-256012P-HT	EFE-256012-HT	14,5	29,0	43,6	50,8	65,3	72,6	79,9	111,8
AR-304020P-HT	EFE-304020-HT	16,2	32,3	48,5	56,6	72,7	80,8	88,9	124,4
AQ-363609P-HT	EFE-363609-HT	11,5	23,0	34,6	40,3	51,8	57,6	63,4	88,7
AR-406025P-HT	EFE-406025-HT	25,2	50,3	75,5	88,1	113,3	125,8	138,4	193,8
AQ-414012P-HT	EFE-414012-HT	14,6	29,1	43,7	51,0	65,5	72,8	80,1	112,1
AQ-414020P-HT	EFE-414020-HT	18,3	36,6	55,0	64,1	82,4	91,6	100,8	141,1

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Enclosure types (polyester)		Maximum power dissipation (W) – Tamb. up to **55**°C							
		INTERNAL TEMP.65°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)	INTERNAL TEMP.127°C (T4/T135°C)
AQ-080806P-HT	EFE-080806-HT	1,7	2,6	4,4	5,2	7,0	7,8	8,7	12,5
AQ-080808P-HT	EFE-080808-HT	2,3	3,4	5,7	6,8	9,1	10,2	11,4	16,2
AR-081106P-HT	EFE-081106-HT	2,1	3,2	5,3	6,4	8,5	9,6	10,7	15,2
AR-081108P-HT	EFE-081108-HT	2,8	4,2	7,0	8,4	11,2	12,6	13,9	19,8
AR-081606P-HT	EFE-081606-HT	2,9	4,3	7,2	8,7	11,6	13,0	14,5	20,6
AR-081608P-HT	EFE-081608-HT	3,4	5,1	8,5	10,2	13,7	15,4	17,1	24,3
AR-081906P-HT	EFE-081906-HT	3,2	4,8	8,0	9,6	12,8	14,4	16,0	22,8
AR-081908P-HT	EFE-081908-HT	3,8	5,7	9,4	11,3	15,1	17,0	18,8	26,8
AR-082306P-HT	EFE-082306-HT	3,6	5,4	9,0	10,8	14,4	16,2	18,0	25,6
AR-082308P-HT	EFE-082308-HT	4,2	6,3	10,6	12,7	16,9	19,0	21,1	30,0
AQ-121209P-HT	EFE-121209-HT	4,0	6,0	10,0	12,0	15,9	17,9	19,9	28,3
AR-122209P-HT	EFE-122209-HT	5,4	8,1	13,5	16,2	21,6	24,3	27,0	38,3
AQ-161609P-HT	EFE-161609-HT	5,2	7,8	13,0	15,6	20,8	23,4	26,0	36,9
AR-162609P-HT	EFE-162609-HT	6,7	10,1	16,8	20,1	26,8	30,2	33,5	47,6
AR-163609P-HT	EFE-163609-HT	8,1	12,2	20,3	24,3	32,4	36,5	40,5	57,5
AR-165609P-HT	EFE-165609-HT	10,7	16,0	26,7	32,0	42,7	48,1	53,4	75,8
AQ-202017P-HT	EFE-202017-HT	9,0	13,5	22,4	26,9	35,9	40,4	44,9	63,7
AR-203017P-HT	EFE-203017-HT	10,4	15,7	26,1	31,3	41,7	47,0	52,2	74,0
AQ-252612P-HT	EFE-252612-HT	9,4	14,1	23,5	28,2	37,6	42,4	47,1	66,8
AQ-252616P-HT	EFE-252616-HT	10,4	15,6	26,0	31,1	41,5	46,7	51,9	73,7
AR-254012P-HT	EFE-254012-HT	11,4	17,1	28,5	34,2	45,7	51,4	57,1	81,0
AR-254016P-HT	EFE-254016-HT	13,1	19,6	32,7	39,3	52,4	58,9	65,5	92,9
AR-256012P-HT	EFE-256012-HT	14,5	21,8	36,3	43,6	58,1	65,3	72,6	103,0
AR-304020P-HT	EFE-304020-HT	16,2	24,2	40,4	48,5	64,7	72,7	80,8	114,7
AQ-363609P-HT	EFE-363609-HT	11,5	17,3	28,8	34,6	46,1	51,8	57,6	81,8
AR-406025P-HT	EFE-406025-HT	25,2	37,8	62,9	75,5	100,7	113,3	125,8	178,6
AQ-414012P-HT	EFE-414012-HT	14,6	21,8	36,4	43,7	58,2	65,5	72,8	103,0
AQ-414020P-HT	EFE-414020-HT	18,3	27,5	45,8	55,0	73,3	82,4	91,6	130,0

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Enclosure types (polyester)		Maximum power dissipation (W) – Tamb. up to **60**°C						
		INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)	INTERNAL TEMP.127°C (T4/T135°C)
AQ-080806P-HT	EFE-080806-HT	1,7	3,5	4,4	6,1	7,0	7,8	11,7
AQ-080808P-HT	EFE-080808-HT	2,3	4,6	5,7	8,0	9,1	10,2	15,2
AR-081106P-HT	EFE-081106-HT	2,1	4,3	5,3	7,5	8,5	9,6	14,3
AR-081108P-HT	EFE-081108-HT	2,8	5,6	7,0	9,8	11,2	12,6	18,7
AR-081606P-HT	EFE-081606-HT	2,9	5,8	7,2	10,1	11,6	13,0	19,4
AR-081608P-HT	EFE-081608-HT	3,4	6,8	8,5	11,9	13,7	15,4	22,9
AR-081906P-HT	EFE-081906-HT	3,2	6,4	8,0	11,2	12,8	14,4	21,4
AR-081908P-HT	EFE-081908-HT	3,8	7,5	9,4	13,2	15,1	17,0	25,3
AR-082306P-HT	EFE-082306-HT	3,6	7,2	9,0	12,6	14,4	16,2	24,1
AR-082308P-HT	EFE-082308-HT	4,2	8,5	10,6	14,8	16,9	19,0	28,3
AQ-121209P-HT	EFE-121209-HT	4,0	8,0	10,0	14,0	15,9	17,9	26,7
AR-122209P-HT	EFE-122209-HT	5,4	10,8	13,5	18,9	21,6	24,3	36,2
AQ-161609P-HT	EFE-161609-HT	5,2	10,4	13,0	18,2	20,8	23,4	34,8
AR-162609P-HT	EFE-162609-HT	6,7	13,4	16,8	23,5	26,8	30,2	44,9
AR-163609P-HT	EFE-163609-HT	8,1	16,2	20,3	28,4	32,4	36,5	54,2
AR-165609P-HT	EFE-165609-HT	10,7	21,4	26,7	37,4	42,7	48,1	71,5
AQ-202017P-HT	EFE-202017-HT	9,0	18,0	22,4	31,4	35,9	40,4	60,1
AR-203017P-HT	EFE-203017-HT	10,4	20,9	26,1	36,5	41,7	47,0	69,9
AQ-252612P-HT	EFE-252612-HT	9,4	18,8	23,5	32,9	37,6	42,4	63,0
AQ-252616P-HT	EFE-252616-HT	10,4	20,8	26,0	36,3	41,5	46,7	69,5
AR-254012P-HT	EFE-254012-HT	11,4	22,8	28,5	39,9	45,7	51,4	76,5
AR-254016P-HT	EFE-254016-HT	13,1	26,2	32,7	45,8	52,4	58,9	87,7
AR-256012P-HT	EFE-256012-HT	14,5	29,0	36,3	50,8	58,1	65,3	97,2
AR-304020P-HT	EFE-304020-HT	16,2	32,3	40,4	56,6	64,7	72,7	108,3
AQ-363609P-HT	EFE-363609-HT	11,5	23,0	28,8	40,3	46,1	51,8	77,1
AR-406025P-HT	EFE-406025-HT	25,2	50,3	62,9	88,1	100,7	113,3	168,7
AQ-414012P-HT	EFE-414012-HT	14,6	29,1	36,4	51,0	58,2	65,5	97,5
AQ-414020P-HT	EFE-414020-HT	18,3	36,6	45,8	64,1	73,3	82,4	122,7

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Enclosure types (polyester)		Maximum power dissipation (W) Tamb. up to **95**°C		
		INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)	INTERNAL TEMP.127°C (T4/T135°C)
AQ-080806P-HT	EFE-080806-HT	0,9	1,7	5,6
AQ-080808P-HT	EFE-080808-HT	1,1	2,3	7,3
AR-081106P-HT	EFE-081106-HT	1,1	2,1	6,5
AR-081108P-HT	EFE-081108-HT	1,4	2,8	9,0
AR-081606P-HT	EFE-081606-HT	1,4	2,9	9,2
AR-081608P-HT	EFE-081608-HT	1,7	3,4	10,9
AR-081906P-HT	EFE-081906-HT	1,6	3,2	10,2
AR-081908P-HT	EFE-081908-HT	1,9	3,8	12,1
AR-082306P-HT	EFE-082306-HT	1,8	3,6	11,5
AR-082308P-HT	EFE-082308-HT	2,1	4,2	13,5
AQ-121209P-HT	EFE-121209-HT	2,0	4,0	12,8
AR-122209P-HT	EFE-122209-HT	2,7	5,4	17,3
AQ-161609P-HT	EFE-161609-HT	2,6	5,2	16,6
AR-162609P-HT	EFE-162609-HT	3,4	6,7	21,5
AR-163609P-HT	EFE-163609-HT	4,1	8,1	26,0
AR-165609P-HT	EFE-165609-HT	5,3	10,7	34,2
AQ-202017P-HT	EFE-202017-HT	4,5	9,0	28,7
AR-203017P-HT	EFE-203017-HT	5,2	10,4	33,4
AQ-252612P-HT	EFE-252612-HT	4,7	9,4	30,1
AQ-252616P-HT	EFE-252616-HT	5,2	10,4	33,2
AR-254012P-HT	EFE-254012-HT	5,7	11,4	36,5
AR-254016P-HT	EFE-254016-HT	6,5	13,1	41,9
AR-256012P-HT	EFE-256012-HT	7,3	14,5	46,4
AR-304020P-HT	EFE-304020-HT	8,1	16,2	51,8
AQ-363609P-HT	EFE-363609-HT	5,8	11,5	36,8
AR-406025P-HT	EFE-406025-HT	12,6	25,2	80,6
AQ-414012P-HT	EFE-414012-HT	7,3	14,6	46,6
AQ-414020P-HT	EFE-414020-HT	9,2	18,3	58,6

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Power dissipation – HT aluminum alloy enclosures

Enclosure types (aluminium)		Maximum power dissipation (W) – Tamb. up to **40**°C							
		INTERNAL TEMP.60°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)	INTERNAL TEMP.130°C (T4/T135°C)
AQ-080806AL-HT	EFXE-080806AL-HT	5,2	7,8	10,4	11,7	14,3	15,6	16,9	23,4
AR-081306AL-HT	EFXE-081306AL-HT	7,0	10,6	14,1	15,9	19,4	21,2	23,0	31,8
AR-081806AL-HT	EFXE-081806AL-HT	8,9	13,3	17,8	20,0	24,5	26,7	28,9	40,0
AR-082505AL-HT	EFXE-082505AL-HT	10,9	16,4	21,9	24,7	30,1	32,9	35,6	49,4
AQ-101008AL-HT	EFXE-101008AL-HT	8,7	13,0	17,4	19,6	23,9	26,1	28,3	39,2
AR-101608AL-HT	EFXE-101608AL-HT	11,5	17,3	23,1	26,0	31,8	34,7	37,6	52,0
AR-102008AL-HT	EFXE-102008AL-HT	13,4	20,1	26,8	30,2	36,9	40,3	43,6	60,4
AQ-121208AL-HT	EFXE-121208AL-HT	10,8	16,2	21,6	24,3	29,7	32,4	35,1	48,6
AQ-121209AL-HT	EFXE-121209AL-HT	11,6	17,5	23,3	26,2	32,1	35,0	37,9	52,5
AR-122208AL-HT	EFXE-122208AL-HT	15,6	23,5	31,3	35,3	43,1	47,0	50,9	70,6
AR-122209AL-HT	EFXE-122209AL-HT	16,8	25,3	33,7	37,9	46,3	50,6	54,8	75,9
AR-123608AL-HT	EFXE-123608AL-HT	22,3	33,5	44,7	50,3	61,5	67,1	72,7	100,7
AQ-141409AL-HT	EFXE-141409AL-HT	13,7	20,6	27,5	31,0	37,9	41,3	44,8	62,0
AR-142009AL-HT	EFXE-142009AL-HT	17,1	25,7	34,2	38,5	47,1	51,4	55,7	77,1
AQ-161609AL-HT	EFXE-161609AL-HT	16,1	24,1	32,2	36,2	44,2	48,3	52,3	72,4
AR-162609AL-HT	EFXE-162609AL-HT	21,9	32,8	43,8	49,3	60,2	65,7	71,2	98,6
AR-163609AL-HT	EFXE-163609AL-HT	27,5	41,3	55,1	62,0	75,7	82,6	89,5	124,0
AR-165609AL-HT	EFXE-165609AL-HT	38,4	57,7	76,9	86,6	105,8	115,4	125,0	173,2
AQ-181810AL-HT	EFXE-181810AL-HT	19,7	29,6	39,5	44,4	54,3	59,2	64,2	88,8
AR-182810AL-HT	EFXE-182810AL-HT	26,1	39,1	52,2	58,7	71,8	78,3	84,8	117,5
AR-102311AL-HT	EFXE-102311AL-HT	18,2	27,3	36,5	41,0	50,1	54,7	59,3	82,1
AR-202311AL-HT	EFXE-202311AL-HT	26,1	39,1	52,2	58,7	71,7	78,3	84,8	117,4
AR-202318AL-HT	EFXE-202318AL-HT	35,9	53,9	71,8	80,8	98,8	107,8	116,8	161,7
AR-232811AL-HT	EFXE-232811AL-HT	31,6	47,5	63,3	71,3	87,1	95,0	103,0	142,6
AR-233311AL-HT	EFXE-233311AL-HT	35,3	52,9	70,6	79,4	97,0	105,9	114,7	158,8
AR-233318AL-HT	EFXE-233318AL-HT	47,5	71,3	95,1	107,0	130,8	142,7	154,6	214,1
AR-234011AL-HT	EFXE-234011AL-HT	40,2	60,4	80,5	90,6	110,7	120,8	130,9	181,2
AR-234023AL-HT	EFXE-234023AL-HT	62,2	93,3	124,5	140,0	171,2	186,7	202,3	280,1
AR-236011AL-HT	EFXE-236011AL-HT	54,1	81,2	108,3	121,9	148,9	162,5	176,0	243,8
AR-314011AL-HT	EFXE-314011AL-HT	48,6	72,9	97,2	109,3	133,6	145,8	157,9	218,7
AR-314014AL-HT	EFXE-314014AL-HT	54,9	82,4	109,9	123,7	151,2	164,9	178,7	247,4
AR-314018AL-HT	EFXE-314018AL-HT	63,8	95,7	127,6	143,5	175,4	191,4	207,3	287,1
AR-314023AL-HT	EFXE-314023AL-HT	73,5	110,3	147,1	165,5	202,3	220,7	239,1	331,0
AR-316011AL-HT	EFXE-316011AL-HT	64,0	96,0	128,1	144,1	176,1	192,1	208,1	288,2
AR-316018AL-HT	EFXE-316018AL-HT	82,7	124,1	165,5	186,2	227,6	248,3	268,9	372,4
AQ-606020AL-HT	EFXE-606020AL-HT	129,1	193,7	258,3	290,5	355,1	387,4	419,7	581,1

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Enclosure types (aluminium)		Maximum power dissipation (W) – Tamb. up to **50**°C							
		INTERNAL TEMP.60°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)	INTERNAL TEMP.130°C (T4/T135°C)
AQ-080806AL-HT	EFXE-080806AL-HT	2,6	5,2	7,8	9,1	11,7	13,0	14,3	20,8
AR-081306AL-HT	EFXE-081306AL-HT	3,5	7,0	10,6	12,3	15,9	17,7	19,4	28,3
AR-081806AL-HT	EFXE-081806AL-HT	4,4	8,9	13,3	15,5	20,0	22,2	24,5	35,6
AR-082505AL-HT	EFXE-082505AL-HT	5,4	10,9	16,4	19,2	24,7	27,4	30,1	43,9
AQ-101008AL-HT	EFXE-101008AL-HT	4,3	8,7	13,0	15,2	19,6	21,7	23,9	34,8
AR-101608AL-HT	EFXE-101608AL-HT	5,7	11,5	17,3	20,2	26,0	28,9	31,8	46,2
AR-102008AL-HT	EFXE-102008AL-HT	6,7	13,4	20,1	23,5	30,2	33,5	36,9	53,7
AQ-121208AL-HT	EFXE-121208AL-HT	5,4	10,8	16,2	18,9	24,3	27,0	29,7	43,2
AQ-121209AL-HT	EFXE-121209AL-HT	5,8	11,6	17,5	20,4	26,2	29,2	32,1	46,7
AR-122208AL-HT	EFXE-122208AL-HT	7,8	15,6	23,5	27,4	35,3	39,2	43,1	62,7
AR-122209AL-HT	EFXE-122209AL-HT	8,4	16,8	25,3	29,5	37,9	42,1	46,3	67,4
AR-123608AL-HT	EFXE-123608AL-HT	11,1	22,3	33,5	39,1	50,3	55,9	61,5	89,5
AQ-141409AL-HT	EFXE-141409AL-HT	6,8	13,7	20,6	24,1	31,0	34,4	37,9	55,1
AR-142009AL-HT	EFXE-142009AL-HT	8,5	17,1	25,7	30,0	38,5	42,8	47,1	68,5
AQ-161609AL-HT	EFXE-161609AL-HT	8,0	16,1	24,1	28,1	36,2	40,2	44,2	64,4
AR-162609AL-HT	EFXE-162609AL-HT	10,9	21,9	32,8	38,3	49,3	54,8	60,2	87,6
AR-163609AL-HT	EFXE-163609AL-HT	13,7	27,5	41,3	48,2	62,0	68,9	75,7	110,2
AR-165609AL-HT	EFXE-165609AL-HT	19,2	38,4	57,7	67,3	86,6	96,2	105,8	153,9
AQ-181810AL-HT	EFXE-181810AL-HT	9,8	19,7	29,6	34,5	44,4	49,3	54,3	79,0
AR-182810AL-HT	EFXE-182810AL-HT	13,0	26,1	39,1	45,7	58,7	65,2	71,8	104,4
AR-102311AL-HT	EFXE-102311AL-HT	9,1	18,2	27,3	31,9	41,0	45,6	50,1	73,0
AR-202311AL-HT	EFXE-202311AL-HT	13,0	26,1	39,1	45,6	58,7	65,2	71,7	104,4
AR-202318AL-HT	EFXE-202318AL-HT	17,9	35,9	53,9	62,8	80,8	89,8	98,8	143,7
AR-232811AL-HT	EFXE-232811AL-HT	15,8	31,6	47,5	55,4	71,3	79,2	87,1	126,7
AR-233311AL-HT	EFXE-233311AL-HT	17,6	35,3	52,9	61,7	79,4	88,2	97,0	141,2
AR-233318AL-HT	EFXE-233318AL-HT	23,7	47,5	71,3	83,2	107,0	118,9	130,8	190,3
AR-234011AL-HT	EFXE-234011AL-HT	20,1	40,2	60,4	70,5	90,6	100,7	110,7	161,1
AR-234023AL-HT	EFXE-234023AL-HT	31,1	62,2	93,3	108,9	140,0	155,6	171,2	249,0
AR-236011AL-HT	EFXE-236011AL-HT	27,0	54,1	81,2	94,8	121,9	135,4	148,9	216,7
AR-314011AL-HT	EFXE-314011AL-HT	24,3	48,6	72,9	85,0	109,3	121,5	133,6	194,4
AR-314014AL-HT	EFXE-314014AL-HT	27,4	54,9	82,4	96,2	123,7	137,4	151,2	219,9
AR-314018AL-HT	EFXE-314018AL-HT	31,9	63,8	95,7	111,6	143,5	159,5	175,4	255,2
AR-314023AL-HT	EFXE-314023AL-HT	36,7	73,5	110,3	128,7	165,5	183,9	202,3	294,2
AR-316011AL-HT	EFXE-316011AL-HT	32,0	64,0	96,0	112,0	144,1	160,1	176,1	256,2
AR-316018AL-HT	EFXE-316018AL-HT	41,3	82,7	124,1	144,8	186,2	206,9	227,6	331,0
AQ-606020AL-HT	EFXE-606020AL-HT	64,5	129,1	193,7	226,0	290,5	322,8	355,1	516,6

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Enclosure types (aluminium)		Maximum power dissipation (W) – Tamb. up to **55**°C							
		INTERNAL TEMP.65°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)	INTERNAL TEMP.130°C (T4/T135°C)
AQ-080806AL-HT	EFXE-080806AL-HT	2,6	3,9	6,5	7,8	10,4	11,7	13,0	19,5
AR-081306AL-HT	EFXE-081306AL-HT	3,5	5,3	8,8	10,6	14,1	15,9	17,7	26,5
AR-081806AL-HT	EFXE-081806AL-HT	4,4	6,6	11,1	13,3	17,8	20,0	22,2	33,4
AR-082505AL-HT	EFXE-082505AL-HT	5,4	8,2	13,7	16,4	21,9	24,7	27,4	41,1
AQ-101008AL-HT	EFXE-101008AL-HT	4,3	6,5	10,8	13,0	17,4	19,6	21,7	32,6
AR-101608AL-HT	EFXE-101608AL-HT	5,7	8,6	14,4	17,3	23,1	26,0	28,9	43,3
AR-102008AL-HT	EFXE-102008AL-HT	6,7	10,0	16,7	20,1	26,8	30,2	33,5	50,3
AQ-121208AL-HT	EFXE-121208AL-HT	5,4	8,1	13,5	16,2	21,6	24,3	27,0	40,5
AQ-121209AL-HT	EFXE-121209AL-HT	5,8	8,7	14,6	17,5	23,3	26,2	29,2	43,8
AR-122208AL-HT	EFXE-122208AL-HT	7,8	11,7	19,6	23,5	31,3	35,3	39,2	58,8
AR-122209AL-HT	EFXE-122209AL-HT	8,4	12,6	21,0	25,3	33,7	37,9	42,1	63,2
AR-123608AL-HT	EFXE-123608AL-HT	11,1	16,7	27,9	33,5	44,7	50,3	55,9	83,9
AQ-141409AL-HT	EFXE-141409AL-HT	6,8	10,3	17,2	20,6	27,5	31,0	34,4	51,7
AR-142009AL-HT	EFXE-142009AL-HT	8,5	12,8	21,4	25,7	34,2	38,5	42,8	64,3
AQ-161609AL-HT	EFXE-161609AL-HT	8,0	12,0	20,1	24,1	32,2	36,2	40,2	60,4
AR-162609AL-HT	EFXE-162609AL-HT	10,9	16,4	27,4	32,8	43,8	49,3	54,8	82,2
AR-163609AL-HT	EFXE-163609AL-HT	13,7	20,6	34,4	41,3	55,1	62,0	68,9	103,3
AR-165609AL-HT	EFXE-165609AL-HT	19,2	28,8	48,1	57,7	76,9	86,6	96,2	144,3
AQ-181810AL-HT	EFXE-181810AL-HT	9,8	14,8	24,6	29,6	39,5	44,4	49,3	74,0
AR-182810AL-HT	EFXE-182810AL-HT	13,0	19,5	32,6	39,1	52,2	58,7	65,2	97,9
AR-102311AL-HT	EFXE-102311AL-HT	9,1	13,6	22,8	27,3	36,5	41,0	45,6	68,4
AR-202311AL-HT	EFXE-202311AL-HT	13,0	19,5	32,6	39,1	52,2	58,7	65,2	97,9
AR-202318AL-HT	EFXE-202318AL-HT	17,9	26,9	44,9	53,9	71,8	80,8	89,8	134,7
AR-232811AL-HT	EFXE-232811AL-HT	15,8	23,7	39,6	47,5	63,3	71,3	79,2	118,8
AR-233311AL-HT	EFXE-233311AL-HT	17,6	26,4	44,1	52,9	70,6	79,4	88,2	132,3
AR-233318AL-HT	EFXE-233318AL-HT	23,7	35,6	59,4	71,3	95,1	107,0	118,9	178,4
AR-234011AL-HT	EFXE-234011AL-HT	20,1	30,2	50,3	60,4	80,5	90,6	100,7	151,0
AR-234023AL-HT	EFXE-234023AL-HT	31,1	46,6	77,8	93,3	124,5	140,0	155,6	233,4
AR-236011AL-HT	EFXE-236011AL-HT	27,0	40,6	67,7	81,2	108,3	121,9	135,4	203,1
AR-314011AL-HT	EFXE-314011AL-HT	24,3	36,4	60,7	72,9	97,2	109,3	121,5	182,3
AR-314014AL-HT	EFXE-314014AL-HT	27,4	41,2	68,7	82,4	109,9	123,7	137,4	206,2
AR-314018AL-HT	EFXE-314018AL-HT	31,9	47,8	79,7	95,7	127,6	143,5	159,5	239,2
AR-314023AL-HT	EFXE-314023AL-HT	36,7	55,1	91,9	110,3	147,1	165,5	183,9	275,8
AR-316011AL-HT	EFXE-316011AL-HT	32,0	48,0	80,0	96,0	128,1	144,1	160,1	240,1
AR-316018AL-HT	EFXE-316018AL-HT	41,3	62,0	103,4	124,1	165,5	186,2	206,9	310,3
AQ-606020AL-HT	EFXE-606020AL-HT	64,5	96,8	161,4	193,7	258,3	290,5	322,8	484,3

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Enclosure types (aluminium)		Maximum power dissipation (W) – Tamb. up to **60**°C						
		INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)	INTERNAL TEMP.130°C (T4/T135°C)
AQ-080806AL-HT	EFXE-080806AL-HT	2,6	5,2	6,5	9,1	10,4	11,7	18,2
AR-081306AL-HT	EFXE-081306AL-HT	3,5	7,0	8,8	12,3	14,1	15,9	24,7
AR-081806AL-HT	EFXE-081806AL-HT	4,4	8,9	11,1	15,5	17,8	20,0	31,1
AR-082505AL-HT	EFXE-082505AL-HT	5,4	10,9	13,7	19,2	21,9	24,7	38,4
AQ-101008AL-HT	EFXE-101008AL-HT	4,3	8,7	10,8	15,2	17,4	19,6	30,4
AR-101608AL-HT	EFXE-101608AL-HT	5,7	11,5	14,4	20,2	23,1	26,0	40,5
AR-102008AL-HT	EFXE-102008AL-HT	6,7	13,4	16,7	23,5	26,8	30,2	47,0
AQ-121208AL-HT	EFXE-121208AL-HT	5,4	10,8	13,5	18,9	21,6	24,3	37,8
AQ-121209AL-HT	EFXE-121209AL-HT	5,8	11,6	14,6	20,4	23,3	26,2	40,8
AR-122208AL-HT	EFXE-122208AL-HT	7,8	15,6	19,6	27,4	31,3	35,3	54,9
AR-122209AL-HT	EFXE-122209AL-HT	8,4	16,8	21,0	29,5	33,7	37,9	59,0
AR-123608AL-HT	EFXE-123608AL-HT	11,1	22,3	27,9	39,1	44,7	50,3	78,3
AQ-141409AL-HT	EFXE-141409AL-HT	6,8	13,7	17,2	24,1	27,5	31,0	48,2
AR-142009AL-HT	EFXE-142009AL-HT	8,5	17,1	21,4	30,0	34,2	38,5	60,0
AQ-161609AL-HT	EFXE-161609AL-HT	8,0	16,1	20,1	28,1	32,2	36,2	56,3
AR-162609AL-HT	EFXE-162609AL-HT	10,9	21,9	27,4	38,3	43,8	49,3	76,7
AR-163609AL-HT	EFXE-163609AL-HT	13,7	27,5	34,4	48,2	55,1	62,0	96,4
AR-165609AL-HT	EFXE-165609AL-HT	19,2	38,4	48,1	67,3	76,9	86,6	134,7
AQ-181810AL-HT	EFXE-181810AL-HT	9,8	19,7	24,6	34,5	39,5	44,4	69,1
AR-182810AL-HT	EFXE-182810AL-HT	13,0	26,1	32,6	45,7	52,2	58,7	91,4
AR-102311AL-HT	EFXE-102311AL-HT	9,1	18,2	22,8	31,9	36,5	41,0	63,8
AR-202311AL-HT	EFXE-202311AL-HT	13,0	26,1	32,6	45,6	52,2	58,7	91,3
AR-202318AL-HT	EFXE-202318AL-HT	17,9	35,9	44,9	62,8	71,8	80,8	125,7
AR-232811AL-HT	EFXE-232811AL-HT	15,8	31,6	39,6	55,4	63,3	71,3	110,9
AR-233311AL-HT	EFXE-233311AL-HT	17,6	35,3	44,1	61,7	70,6	79,4	123,5
AR-233318AL-HT	EFXE-233318AL-HT	23,7	47,5	59,4	83,2	95,1	107,0	166,5
AR-234011AL-HT	EFXE-234011AL-HT	20,1	40,2	50,3	70,5	80,5	90,6	141,0
AR-234023AL-HT	EFXE-234023AL-HT	31,1	62,2	77,8	108,9	124,5	140,0	217,9
AR-236011AL-HT	EFXE-236011AL-HT	27,0	54,1	67,7	94,8	108,3	121,9	189,6
AR-314011AL-HT	EFXE-314011AL-HT	24,3	48,6	60,7	85,0	97,2	109,3	170,1
AR-314014AL-HT	EFXE-314014AL-HT	27,4	54,9	68,7	96,2	109,9	123,7	192,4
AR-314018AL-HT	EFXE-314018AL-HT	31,9	63,8	79,7	111,6	127,6	143,5	223,3
AR-314023AL-HT	EFXE-314023AL-HT	36,7	73,5	91,9	128,7	147,1	165,5	257,4
AR-316011AL-HT	EFXE-316011AL-HT	32,0	64,0	80,0	112,0	128,1	144,1	224,1
AR-316018AL-HT	EFXE-316018AL-HT	41,3	82,7	103,4	144,8	165,5	186,2	289,6
AQ-606020AL-HT	EFXE-606020AL-HT	64,5	129,1	161,4	226,0	258,3	290,5	452,0

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Enclosure types (aluminium)		Maximum power dissipation (W) Tamb. up to **95**°C		
		INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)	INTERNAL TEMP.130°C (T4/T135°C)
AQ-080806AL-HT	EFXE-080806AL-HT	1,3	2,6	9,1
AR-081306AL-HT	EFXE-081306AL-HT	1,7	3,5	12,3
AR-081806AL-HT	EFXE-081806AL-HT	2,2	4,4	15,5
AR-082505AL-HT	EFXE-082505AL-HT	2,7	5,4	19,2
AQ-101008AL-HT	EFXE-101008AL-HT	2,1	4,3	15,2
AR-101608AL-HT	EFXE-101608AL-HT	2,8	5,7	20,2
AR-102008AL-HT	EFXE-102008AL-HT	3,3	6,7	23,5
AQ-121208AL-HT	EFXE-121208AL-HT	2,7	5,4	18,9
AQ-121209AL-HT	EFXE-121209AL-HT	2,9	5,8	20,4
AR-122208AL-HT	EFXE-122208AL-HT	3,9	7,8	27,4
AR-122209AL-HT	EFXE-122209AL-HT	4,2	8,4	29,5
AR-123608AL-HT	EFXE-123608AL-HT	5,5	11,1	39,1
AQ-141409AL-HT	EFXE-141409AL-HT	3,4	6,8	24,1
AR-142009AL-HT	EFXE-142009AL-HT	4,2	8,5	30,0
AQ-161609AL-HT	EFXE-161609AL-HT	4,0	8,0	28,1
AR-162609AL-HT	EFXE-162609AL-HT	5,4	10,9	38,3
AR-163609AL-HT	EFXE-163609AL-HT	6,8	13,7	48,2
AR-165609AL-HT	EFXE-165609AL-HT	9,6	19,2	67,3
AQ-181810AL-HT	EFXE-181810AL-HT	4,9	9,8	34,5
AR-182810AL-HT	EFXE-182810AL-HT	6,5	13,0	45,7
AR-102311AL-HT	EFXE-102311AL-HT	4,5	9,1	31,9
AR-202311AL-HT	EFXE-202311AL-HT	6,5	13,0	45,6
AR-202318AL-HT	EFXE-202318AL-HT	8,9	17,9	62,8
AR-232811AL-HT	EFXE-232811AL-HT	7,9	15,8	55,4
AR-233311AL-HT	EFXE-233311AL-HT	8,8	17,6	61,7
AR-233318AL-HT	EFXE-233318AL-HT	11,8	23,7	83,2
AR-234011AL-HT	EFXE-234011AL-HT	10,0	20,1	70,5
AR-234023AL-HT	EFXE-234023AL-HT	15,5	31,1	108,9
AR-236011AL-HT	EFXE-236011AL-HT	13,5	27,0	94,8
AR-314011AL-HT	EFXE-314011AL-HT	12,1	24,3	85,0
AR-314014AL-HT	EFXE-314014AL-HT	13,7	27,4	96,2
AR-314018AL-HT	EFXE-314018AL-HT	15,9	31,9	111,6
AR-314023AL-HT	EFXE-314023AL-HT	18,3	36,7	128,7
AR-316011AL-HT	EFXE-316011AL-HT	16,0	32,0	112,0
AR-316018AL-HT	EFXE-316018AL-HT	20,6	41,3	144,8
AQ-606020AL-HT	EFXE-606020AL-HT	32,2	64,5	226,0

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Power dissipation – Glass fiber reinforced polyester resin enclosures

Enclosure types (polyester)		Maximum power dissipation (W) – Tamb. up to **40**°C						
		INTERNAL TEMP.60°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
AQ-080806P	EFE-080806	3,4	5,2	6,9	7,8	9,5	10,4	11,3
AQ-080808P	EFE-080808	4,5	6,8	9,1	10,2	12,5	13,6	14,7
AR-081106P	EFE-081106	4,2	6,4	8,5	9,6	11,7	12,8	13,8
AR-081606P	EFE-081606	5,7	8,6	11,5	13,0	15,9	17,3	18,8
AR-081906P	EFE-081906	6,4	9,6	12,8	14,4	17,6	19,2	20,8
AQ-121209P	EFE-121209	7,9	11,9	15,9	17,9	21,9	23,9	25,9
AR-122209P	EFE-122209	10,8	16,2	21,6	24,3	29,7	32,4	35,1
AQ-161609P	EFE-161609	10,3	15,5	20,7	23,3	28,5	31,1	33,7
AR-162609P	EFE-162609	13,4	20,1	26,8	30,1	36,8	40,2	43,5
AR-163609P	EFE-163609	16,2	24,3	32,4	36,4	44,5	48,6	52,6
AQ-252612P	EFE-252612	18,8	28,2	37,6	42,3	51,7	56,4	61,1
AQ-252616P	EFE-252616	21,7	32,6	43,5	49,0	59,9	65,3	70,8
AR-254012P	EFE-254012	23,9	35,9	47,9	53,9	65,9	71,8	77,8
AR-254016P	EFE-254016	27,4	41,2	54,9	61,8	75,6	82,4	89,3
AR-256012P	EFE-256012	29,0	43,5	58,0	65,3	79,8	87,1	94,3
AQ-414012P	EFE-414012	29,1	43,6	58,2	65,5	80,0	87,3	94,6
AQ-414016P	EFE-414016	32,9	49,4	65,9	74,1	90,6	98,8	107,0

Enclosure types (polyester)		Maximum power dissipation (W) – Tamb. up to **50**°C						
		INTERNAL TEMP.60°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
AQ-080806P	EFE-080806	1,7	3,4	5,2	6,0	7,8	8,7	9,5
AQ-080808P	EFE-080808	2,2	4,5	6,8	7,9	10,2	11,3	12,5
AR-081106P	EFE-081106	2,1	4,2	6,4	7,4	9,6	10,6	11,7
AR-081606P	EFE-081606	2,8	5,7	8,6	10,1	13,0	14,4	15,9
AR-081906P	EFE-081906	3,2	6,4	9,6	11,2	14,4	16,0	17,6
AQ-121209P	EFE-121209	3,9	7,9	11,9	13,9	17,9	19,9	21,9
AR-122209P	EFE-122209	5,4	10,8	16,2	18,9	24,3	27,0	29,7
AQ-161609P	EFE-161609	5,1	10,3	15,5	18,1	23,3	25,9	28,5
AR-162609P	EFE-162609	6,7	13,4	20,1	23,4	30,1	33,5	36,8
AR-163609P	EFE-163609	8,1	16,2	24,3	28,3	36,4	40,5	44,5
AQ-252612P	EFE-252612	9,4	18,8	28,2	32,9	42,3	47,0	51,7
AQ-252616P	EFE-252616	10,8	21,7	32,6	38,1	49,0	54,4	59,9
AR-254012P	EFE-254012	11,9	23,9	35,9	41,9	53,9	59,9	65,9
AR-254016P	EFE-254016	13,7	27,4	41,2	48,1	61,8	68,7	75,6
AR-256012P	EFE-256012	14,5	29,0	43,5	50,8	65,3	72,6	79,8
AQ-414012P	EFE-414012	14,5	29,1	43,6	50,9	65,5	72,7	80,0
AQ-414016P	EFE-414016	16,4	32,9	49,4	57,6	74,1	82,3	90,6

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Enclosure types (polyester)		Maximum power dissipation (W) – Tamb. up to **55**°C						
		INTERNAL TEMP.65°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
AQ-080806P	EFE-080806	1,7	2,6	4,3	5,2	6,9	7,8	8,7
AQ-080808P	EFE-080808	2,2	3,4	5,6	6,8	9,1	10,2	11,3
AR-081106P	EFE-081106	2,1	3,2	5,3	6,4	8,5	9,6	10,6
AR-081606P	EFE-081606	2,8	4,3	7,2	8,6	11,5	13,0	14,4
AR-081906P	EFE-081906	3,2	4,8	8,0	9,6	12,8	14,4	16,0
AQ-121209P	EFE-121209	3,9	5,9	9,9	11,9	15,9	17,9	19,9
AR-122209P	EFE-122209	5,4	8,1	13,5	16,2	21,6	24,3	27,0
AQ-161609P	EFE-161609	5,1	7,7	12,9	15,5	20,7	23,3	25,9
AR-162609P	EFE-162609	6,7	10,0	16,7	20,1	26,8	30,1	33,5
AR-163609P	EFE-163609	8,1	12,1	20,2	24,3	32,4	36,4	40,5
AQ-252612P	EFE-252612	9,4	14,1	23,5	28,2	37,6	42,3	47,0
AQ-252616P	EFE-252616	10,8	16,3	27,2	32,6	43,5	49,0	54,4
AR-254012P	EFE-254012	11,9	17,9	29,9	35,9	47,9	53,9	59,9
AR-254016P	EFE-254016	13,7	20,6	34,3	41,2	54,9	61,8	68,7
AR-256012P	EFE-256012	14,5	21,7	36,3	43,5	58,0	65,3	72,6
AQ-414012P	EFE-414012	14,5	21,8	36,3	43,6	58,2	65,5	72,7
AQ-414016P	EFE-414016	16,4	24,7	41,1	49,4	65,9	74,1	82,3

Enclosure types (polyester)		Maximum power dissipation (W) – Tamb. up to **60**°C					
		INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
AQ-080806P	EFE-080806	1,7	3,4	4,3	6,0	6,9	7,8
AQ-080808P	EFE-080808	2,2	4,5	5,6	7,9	9,1	10,2
AR-081106P	EFE-081106	2,1	4,2	5,3	7,4	8,5	9,6
AR-081606P	EFE-081606	2,8	5,7	7,2	10,1	11,5	13,0
AR-081906P	EFE-081906	3,2	6,4	8,0	11,2	12,8	14,4
AQ-121209P	EFE-121209	3,9	7,9	9,9	13,9	15,9	17,9
AR-122209P	EFE-122209	5,4	10,8	13,5	18,9	21,6	24,3
AQ-161609P	EFE-161609	5,1	10,3	12,9	18,1	20,7	23,3
AR-162609P	EFE-162609	6,7	13,4	16,7	23,4	26,8	30,1
AR-163609P	EFE-163609	8,1	16,2	20,2	28,3	32,4	36,4
AQ-252612P	EFE-252612	9,4	18,8	23,5	32,9	37,6	42,3
AQ-252616P	EFE-252616	10,8	21,7	27,2	38,1	43,5	49,0
AR-254012P	EFE-254012	11,9	23,9	29,9	41,9	47,9	53,9
AR-254016P	EFE-254016	13,7	27,4	34,3	48,1	54,9	61,8
AR-256012P	EFE-256012	14,5	29,0	36,3	50,8	58,0	65,3
AQ-414012P	EFE-414012	14,5	29,1	36,3	50,9	58,2	65,5
AQ-414016P	EFE-414016	16,4	32,9	41,1	57,6	65,9	74,1

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Enclosure types (polyester)		Maximum power dissipation (W) – Tamb. up to **95**°C	
		INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
AQ-080806P	EFE-080806	0,8	1,7
AQ-080808P	EFE-080808	1,1	2,2
AR-081106P	EFE-081106	1,0	2,1
AR-081606P	EFE-081606	1,4	2,8
AR-081906P	EFE-081906	1,6	3,2
AQ-121209P	EFE-121209	1,9	3,9
AR-122209P	EFE-122209	2,7	5,4
AQ-161609P	EFE-161609	2,5	5,1
AR-162609P	EFE-162609	3,3	6,7
AR-163609P	EFE-163609	4,0	8,1
AQ-252612P	EFE-252612	4,7	9,4
AQ-252616P	EFE-252616	5,4	10,8
AR-254012P	EFE-254012	5,9	11,9
AR-254016P	EFE-254016	6,8	13,7
AR-256012P	EFE-256012	7,2	14,5
AQ-414012P	EFE-414012	7,2	14,5
AQ-414016P	EFE-414016	8,2	16,4

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Power dissipation – Aluminum alloy enclosures

Enclosure types (aluminium)		Maximum power dissipation (W) – Tamb. up to **40**°C						
		INTERNAL TEMP.60°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
AQ-080806AL	EFXE-080806AL	5,2	7,8	10,4	11,7	14,3	15,6	16,9
AR-081306AL	EFXE-081306AL	7,0	10,6	14,1	15,9	19,4	21,2	23,0
AR-081806AL	EFXE-081806AL	8,9	13,3	17,8	20,0	24,5	26,7	28,9
AR-081808AL	EFXE-081808AL	11,0	16,5	22,1	24,8	30,4	33,1	35,9
AR-082505AL	EFXE-082505AL	10,7	16,1	21,4	24,1	29,5	32,2	34,8
AR-082508AL	EFXE-082508AL	14,2	21,4	28,5	32,1	39,2	42,8	46,4
AQ-101008AL	EFXE-101008AL	8,7	13,0	17,4	19,6	23,9	26,1	28,3
AR-101508AL	EFXE-101508AL	11,1	16,6	22,2	24,9	30,5	33,3	36,0
AR-101608AL	EFXE-101608AL	11,5	17,3	23,1	26,0	31,8	34,7	37,6
AR-102008AL	EFXE-102008AL	13,4	20,1	26,8	30,2	36,9	40,3	43,6
AQ-121208AL	EFXE-121208AL	10,8	16,2	21,6	24,3	29,7	32,4	35,1
AR-122209AL	EFXE-122209AL	16,8	25,3	33,7	37,9	46,3	50,6	54,8
AQ-141409AL	EFXE-141409AL	13,7	20,6	27,5	31,0	37,9	41,3	44,8
AR-142009AL	EFXE-142009AL	17,1	25,7	34,2	38,5	47,1	51,4	55,7
AQ-161609AL	EFXE-161609AL	17,2	25,8	34,4	38,7	47,3	51,6	55,9
AR-162410AL	EFXE-162410AL	22,1	33,1	44,2	49,7	60,8	66,3	71,8
AR-162609AL	EFXE-162609AL	21,9	32,8	43,8	49,3	60,2	65,7	71,2
AQ-181810AL	EFXE-181810AL	19,7	29,6	39,5	44,4	54,3	59,2	64,2
AR-182810AL	EFXE-182810AL	26,1	39,1	52,2	58,7	71,8	78,3	84,8
AR-202311AL	EFXE-202311AL	25,8	38,7	51,6	58,0	71,0	77,4	83,9
AR-202318AL	EFXE-202318AL	35,5	53,3	71,1	80,0	97,8	106,7	115,6
AR-232811AL	EFXE-232811AL	31,6	47,5	63,3	71,3	87,1	95,0	103,0
AR-233312AL	EFXE-233312AL	37,0	55,6	74,1	83,4	101,9	111,2	120,5
AR-233318AL	EFXE-233318AL	47,5	71,3	95,1	107,0	130,8	142,7	154,6

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Enclosure types (aluminium)		Maximum power dissipation (W) – Tamb. up to **50**°C						
		INTERNAL TEMP.60°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
AQ-080806AL	EFXE-080806AL	2,6	5,2	7,8	9,1	11,7	13,0	14,3
AR-081306AL	EFXE-081306AL	3,5	7,0	10,6	12,3	15,9	17,7	19,4
AR-081806AL	EFXE-081806AL	4,4	8,9	13,3	15,5	20,0	22,2	24,5
AR-081808AL	EFXE-081808AL	5,5	11,0	16,5	19,3	24,8	27,6	30,4
AR-082505AL	EFXE-082505AL	5,3	10,7	16,1	18,7	24,1	26,8	29,5
AR-082508AL	EFXE-082508AL	7,1	14,2	21,4	24,9	32,1	35,7	39,2
AQ-101008AL	EFXE-101008AL	4,3	8,7	13,0	15,2	19,6	21,7	23,9
AR-101508AL	EFXE-101508AL	5,5	11,1	16,6	19,4	24,9	27,7	30,5
AR-101608AL	EFXE-101608AL	5,7	11,5	17,3	20,2	26,0	28,9	31,8
AR-102008AL	EFXE-102008AL	6,7	13,4	20,1	23,5	30,2	33,5	36,9
AQ-121208AL	EFXE-121208AL	5,4	10,8	16,2	18,9	24,3	27,0	29,7
AR-122209AL	EFXE-122209AL	8,4	16,8	25,3	29,5	37,9	42,1	46,3
AQ-141409AL	EFXE-141409AL	6,8	13,7	20,6	24,1	31,0	34,4	37,9
AR-142009AL	EFXE-142009AL	8,5	17,1	25,7	30,0	38,5	42,8	47,1
AQ-161609AL	EFXE-161609AL	8,6	17,2	25,8	30,1	38,7	43,0	47,3
AR-162410AL	EFXE-162410AL	11,0	22,1	33,1	38,7	49,7	55,3	60,8
AR-162609AL	EFXE-162609AL	10,9	21,9	32,8	38,3	49,3	54,8	60,2
AQ-181810AL	EFXE-181810AL	9,8	19,7	29,6	34,5	44,4	49,3	54,3
AR-182810AL	EFXE-182810AL	13,0	26,1	39,1	45,7	58,7	65,2	71,8
AR-202311AL	EFXE-202311AL	12,9	25,8	38,7	45,1	58,0	64,5	71,0
AR-202318AL	EFXE-202318AL	17,7	35,5	53,3	62,2	80,0	88,9	97,8
AR-232811AL	EFXE-232811AL	15,8	31,6	47,5	55,4	71,3	79,2	87,1
AR-233312AL	EFXE-233312AL	18,5	37,0	55,6	64,8	83,4	92,7	101,9
AR-233318AL	EFXE-233318AL	23,7	47,5	71,3	83,2	107,0	118,9	130,8

Enclosure types (aluminium)		Maximum power dissipation (W) – Tamb. up to **55**°C						
		INTERNAL TEMP.65°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
AQ-080806AL	EFXE-080806AL	2,6	3,9	6,5	7,8	10,4	11,7	13,0
AR-081306AL	EFXE-081306AL	3,5	5,3	8,8	10,6	14,1	15,9	17,7
AR-081806AL	EFXE-081806AL	4,4	6,6	11,1	13,3	17,8	20,0	22,2
AR-081808AL	EFXE-081808AL	5,5	8,2	13,8	16,5	22,1	24,8	27,6
AR-082505AL	EFXE-082505AL	5,3	8,0	13,4	16,1	21,4	24,1	26,8
AR-082508AL	EFXE-082508AL	7,1	10,7	17,8	21,4	28,5	32,1	35,7
AQ-101008AL	EFXE-101008AL	4,3	6,5	10,8	13,0	17,4	19,6	21,7
AR-101508AL	EFXE-101508AL	5,5	8,3	13,8	16,6	22,2	24,9	27,7
AR-101608AL	EFXE-101608AL	5,7	8,6	14,4	17,3	23,1	26,0	28,9
AR-102008AL	EFXE-102008AL	6,7	10,0	16,7	20,1	26,8	30,2	33,5
AQ-121208AL	EFXE-121208AL	5,4	8,1	13,5	16,2	21,6	24,3	27,0
AR-122209AL	EFXE-122209AL	8,4	12,6	21,0	25,3	33,7	37,9	42,1
AQ-141409AL	EFXE-141409AL	6,8	10,3	17,2	20,6	27,5	31,0	34,4
AR-142009AL	EFXE-142009AL	8,5	12,8	21,4	25,7	34,2	38,5	42,8
AQ-161609AL	EFXE-161609AL	8,6	12,9	21,5	25,8	34,4	38,7	43,0
AR-162410AL	EFXE-162410AL	11,0	16,5	27,6	33,1	44,2	49,7	55,3
AR-162609AL	EFXE-162609AL	10,9	16,4	27,4	32,8	43,8	49,3	54,8
AQ-181810AL	EFXE-181810AL	9,8	14,8	24,6	29,6	39,5	44,4	49,3
AR-182810AL	EFXE-182810AL	13,0	19,5	32,6	39,1	52,2	58,7	65,2
AR-202311AL	EFXE-202311AL	12,9	19,3	32,2	38,7	51,6	58,0	64,5
AR-202318AL	EFXE-202318AL	17,7	26,6	44,4	53,3	71,1	80,0	88,9
AR-232811AL	EFXE-232811AL	15,8	23,7	39,6	47,5	63,3	71,3	79,2
AR-233312AL	EFXE-233312AL	18,5	27,8	46,3	55,6	74,1	83,4	92,7
AR-233318AL	EFXE-233318AL	23,7	35,6	59,4	71,3	95,1	107,0	118,9

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Enclosure types (aluminium)		Maximum power dissipation (W) – Tamb. up to **60**°C					
		INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
AQ-080806AL	EFXE-080806AL	2,6	5,2	6,5	9,1	10,4	11,7
AR-081306AL	EFXE-081306AL	3,5	7,0	8,8	12,3	14,1	15,9
AR-081806AL	EFXE-081806AL	4,4	8,9	11,1	15,5	17,8	20,0
AR-081808AL	EFXE-081808AL	5,5	11,0	13,8	19,3	22,1	24,8
AR-082505AL	EFXE-082505AL	5,3	10,7	13,4	18,7	21,4	24,1
AR-082508AL	EFXE-082508AL	7,1	14,2	17,8	24,9	28,5	32,1
AQ-101008AL	EFXE-101008AL	4,3	8,7	10,8	15,2	17,4	19,6
AR-101508AL	EFXE-101508AL	5,5	11,1	13,8	19,4	22,2	24,9
AR-101608AL	EFXE-101608AL	5,7	11,5	14,4	20,2	23,1	26,0
AR-102008AL	EFXE-102008AL	6,7	13,4	16,7	23,5	26,8	30,2
AQ-121208AL	EFXE-121208AL	5,4	10,8	13,5	18,9	21,6	24,3
AR-122209AL	EFXE-122209AL	8,4	16,8	21,0	29,5	33,7	37,9
AQ-141409AL	EFXE-141409AL	6,8	13,7	17,2	24,1	27,5	31,0
AR-142009AL	EFXE-142009AL	8,5	17,1	21,4	30,0	34,2	38,5
AQ-161609AL	EFXE-161609AL	8,6	17,2	21,5	30,1	34,4	38,7
AR-162410AL	EFXE-162410AL	11,0	22,1	27,6	38,7	44,2	49,7
AR-162609AL	EFXE-162609AL	10,9	21,9	27,4	38,3	43,8	49,3
AQ-181810AL	EFXE-181810AL	9,8	19,7	24,6	34,5	39,5	44,4
AR-182810AL	EFXE-182810AL	13,0	26,1	32,6	45,7	52,2	58,7
AR-202311AL	EFXE-202311AL	12,9	25,8	32,2	45,1	51,6	58,0
AR-202318AL	EFXE-202318AL	17,7	35,5	44,4	62,2	71,1	80,0
AR-232811AL	EFXE-232811AL	15,8	31,6	39,6	55,4	63,3	71,3
AR-233312AL	EFXE-233312AL	18,5	37,0	46,3	64,8	74,1	83,4
AR-233318AL	EFXE-233318AL	23,7	47,5	59,4	83,2	95,1	107,0

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Enclosure types (aluminium)		Maximum power dissipation (W) – Tamb. up to **95**°C	
		INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
AQ-080806AL	EFXE-080806AL	1,3	2,6
AR-081306AL	EFXE-081306AL	1,7	3,5
AR-081806AL	EFXE-081806AL	2,2	4,4
AR-081808AL	EFXE-081808AL	2,7	5,5
AR-082505AL	EFXE-082505AL	2,6	5,3
AR-082508AL	EFXE-082508AL	3,5	7,1
AQ-101008AL	EFXE-101008AL	2,1	4,3
AR-101508AL	EFXE-101508AL	2,7	5,5
AR-101608AL	EFXE-101608AL	2,8	5,7
AR-102008AL	EFXE-102008AL	3,3	6,7
AQ-121208AL	EFXE-121208AL	2,7	5,4
AR-122209AL	EFXE-122209AL	4,2	8,4
AQ-141409AL	EFXE-141409AL	3,4	6,8
AR-142009AL	EFXE-142009AL	4,2	8,5
AQ-161609AL	EFXE-161609AL	4,3	8,6
AR-162410AL	EFXE-162410AL	5,5	11,0
AR-162609AL	EFXE-162609AL	5,4	10,9
AQ-181810AL	EFXE-181810AL	4,9	9,8
AR-182810AL	EFXE-182810AL	6,5	13,0
AR-202311AL	EFXE-202311AL	6,4	12,9
AR-202318AL	EFXE-202318AL	8,8	17,7
AR-232811AL	EFXE-232811AL	7,9	15,8
AR-233312AL	EFXE-233312AL	9,2	18,5
AR-233318AL	EFXE-233318AL	11,8	23,7

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Power dissipation – Stainless steel enclosures SB series

Enclosure types (stainless steel)		Maximum power dissipation (W) – Tamb. up to **40**°C						
		INTERNAL TEMP.60°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
SB-101210	EFXE-101210SB	5,5	8,3	11,1	12,5	15,3	16,7	18,1
SB-151510	EFXE-151510SB	8,0	12,0	16,0	18,0	22,0	24,0	26,1
SB-142013	EFXE-142013SB	10,4	15,7	20,9	23,5	28,8	31,4	34,0
SB-202010	EFXE-202010SB	10,7	16,1	21,4	24,1	29,5	32,2	34,8
SB-202016	EFXE-202016SB	13,9	20,8	27,8	31,3	38,3	41,7	45,2
SB-202713	EFXE-202713SB	14,4	21,6	28,9	32,5	39,7	43,3	46,9
SB-272713	EFXE-272713SB	16,7	25,1	33,5	37,7	46,0	50,2	54,4
SB-203016	EFXE-203016SB	17,1	25,7	34,3	38,6	47,2	51,4	55,7
SB-273513	EFXE-273513SB	19,2	28,9	38,5	43,3	53,0	57,8	62,6
SB-282816	EFXE-282816SB	19,3	29,0	38,7	43,6	53,3	58,1	63,0
SB-204016	EFXE-204016SB	20,2	30,3	40,4	45,5	55,6	60,6	65,7
SB-353516	EFXE-353516SB	24,4	36,6	48,8	54,9	67,1	73,2	79,3
SB-282827	EFXE-282827SB	26,2	39,3	52,5	59,0	72,2	78,7	85,3
SB-355016	EFXE-355016SB	29,7	44,5	59,4	66,8	81,7	89,1	96,6
SB-383816	EFXE-383816SB	26,6	39,9	53,2	59,8	73,1	79,8	86,5
SB-384516	EFXE-384516SB	29,1	43,7	58,3	65,6	80,2	87,5	94,8
SB-385716	EFXE-385716SB	33,4	50,1	66,8	75,2	91,9	100,3	108,7
SB-505016	EFXE-505016SB	35,8	53,8	71,7	80,7	98,6	107,6	116,6
SB-383827	EFXE-383827SB	35,1	52,7	70,2	79,0	96,6	105,4	114,2
SB-575716	EFXE-575716SB	41,5	62,3	83,1	93,5	114,3	124,7	135,1
SB-577620	EFXE-577620SB	53,9	80,9	107,9	121,3	148,3	161,8	175,3
SB-575730	EFXE-575730SB	55,8	83,7	111,6	125,6	153,5	167,5	181,4
SB-769520	EFXE-769520SB	72,2	108,3	144,4	162,4	198,5	216,6	234,6
SB-1258040	EFXE-1258040SB	72,2	108,3	144,4	162,4	198,5	216,6	234,6

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Enclosure types (Stainless steel)		Maximum power dissipation (W) – Tamb. up to **50**°C						
		INTERNAL TEMP.60°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
SB-101210	EFXE-101210SB	2,7	5,5	8,3	9,7	12,5	13,9	15,3
SB-151510	EFXE-151510SB	4,0	8,0	12,0	14,0	18,0	20,0	22,0
SB-142013	EFXE-142013SB	5,2	10,4	15,7	18,3	23,5	26,2	28,8
SB-202010	EFXE-202010SB	5,3	10,7	16,1	18,7	24,1	26,8	29,5
SB-202016	EFXE-202016SB	6,9	13,9	20,8	24,3	31,3	34,8	38,3
SB-202713	EFXE-202713SB	7,2	14,4	21,6	25,2	32,5	36,1	39,7
SB-272713	EFXE-272713SB	8,3	16,7	25,1	29,3	37,7	41,8	46,0
SB-203016	EFXE-203016SB	8,5	17,1	25,7	30,0	38,6	42,9	47,2
SB-273513	EFXE-273513SB	9,6	19,2	28,9	33,7	43,3	48,2	53,0
SB-282816	EFXE-282816SB	9,6	19,3	29,0	33,9	43,6	48,4	53,3
SB-204016	EFXE-204016SB	10,1	20,2	30,3	35,4	45,5	50,5	55,6
SB-353516	EFXE-353516SB	12,2	24,4	36,6	42,7	54,9	61,0	67,1
SB-282827	EFXE-282827SB	13,1	26,2	39,3	45,9	59,0	65,6	72,2
SB-355016	EFXE-355016SB	14,8	29,7	44,5	52,0	66,8	74,3	81,7
SB-383816	EFXE-383816SB	13,3	26,6	39,9	46,5	59,8	66,5	73,1
SB-384516	EFXE-384516SB	14,5	29,1	43,7	51,0	65,6	72,9	80,2
SB-385716	EFXE-385716SB	16,7	33,4	50,1	58,5	75,2	83,6	91,9
SB-505016	EFXE-505016SB	17,9	35,8	53,8	62,7	80,7	89,7	98,6
SB-383827	EFXE-383827SB	17,5	35,1	52,7	61,4	79,0	87,8	96,6
SB-575716	EFXE-575716SB	20,7	41,5	62,3	72,7	93,5	103,9	114,3
SB-577620	EFXE-577620SB	26,9	53,9	80,9	94,4	121,3	134,8	148,3
SB-575730	EFXE-575730SB	27,9	55,8	83,7	97,7	125,6	139,5	153,5
SB-769520	EFXE-769520SB	36,1	72,2	108,3	126,3	162,4	180,5	198,5
SB-1258040	EFXE-1258040SB	36,1	72,2	108,3	126,3	162,4	180,5	198,5

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Enclosure types (Stainless steel)		Maximum power dissipation (W) – Tamb. up to **55**°C						
		INTERNAL TEMP.65°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
SB-101210	EFXE-101210SB	2,7	4,1	6,9	8,3	11,1	12,5	13,9
SB-151510	EFXE-151510SB	4,0	6,0	10,0	12,0	16,0	18,0	20,0
SB-142013	EFXE-142013SB	5,2	7,8	13,1	15,7	20,9	23,5	26,2
SB-202010	EFXE-202010SB	5,3	8,0	13,4	16,1	21,4	24,1	26,8
SB-202016	EFXE-202016SB	6,9	10,4	17,4	20,8	27,8	31,3	34,8
SB-202713	EFXE-202713SB	7,2	10,8	18,0	21,6	28,9	32,5	36,1
SB-272713	EFXE-272713SB	8,3	12,5	20,9	25,1	33,5	37,7	41,8
SB-203016	EFXE-203016SB	8,5	12,8	21,4	25,7	34,3	38,6	42,9
SB-273513	EFXE-273513SB	9,6	14,4	24,1	28,9	38,5	43,3	48,2
SB-282816	EFXE-282816SB	9,6	14,5	24,2	29,0	38,7	43,6	48,4
SB-204016	EFXE-204016SB	10,1	15,1	25,2	30,3	40,4	45,5	50,5
SB-353516	EFXE-353516SB	12,2	18,3	30,5	36,6	48,8	54,9	61,0
SB-282827	EFXE-282827SB	13,1	19,6	32,8	39,3	52,5	59,0	65,6
SB-355016	EFXE-355016SB	14,8	22,2	37,1	44,5	59,4	66,8	74,3
SB-383816	EFXE-383816SB	13,3	19,9	33,2	39,9	53,2	59,8	66,5
SB-384516	EFXE-384516SB	14,5	21,8	36,4	43,7	58,3	65,6	72,9
SB-385716	EFXE-385716SB	16,7	25,0	41,8	50,1	66,8	75,2	83,6
SB-505016	EFXE-505016SB	17,9	26,9	44,8	53,8	71,7	80,7	89,7
SB-383827	EFXE-383827SB	17,5	26,3	43,9	52,7	70,2	79,0	87,8
SB-575716	EFXE-575716SB	20,7	31,1	51,9	62,3	83,1	93,5	103,9
SB-577620	EFXE-577620SB	26,9	40,4	67,4	80,9	107,9	121,3	134,8
SB-575730	EFXE-575730SB	27,9	41,8	69,7	83,7	111,6	125,6	139,5
SB-769520	EFXE-769520SB	36,1	54,1	90,2	108,3	144,4	162,4	180,5
SB-1258040	EFXE-1258040SB	36,1	54,1	90,2	108,3	144,4	162,4	180,5

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Enclosure types (Stainless steel)		Maximum power dissipation (W) – Tamb. up to **60**°C					
		INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
SB-101210	EFXE-101210SB	2,7	5,5	6,9	9,7	11,1	12,5
SB-151510	EFXE-151510SB	4,0	8,0	10,0	14,0	16,0	18,0
SB-142013	EFXE-142013SB	5,2	10,4	13,1	18,3	20,9	23,5
SB-202010	EFXE-202010SB	5,3	10,7	13,4	18,7	21,4	24,1
SB-202016	EFXE-202016SB	6,9	13,9	17,4	24,3	27,8	31,3
SB-202713	EFXE-202713SB	7,2	14,4	18,0	25,2	28,9	32,5
SB-272713	EFXE-272713SB	8,3	16,7	20,9	29,3	33,5	37,7
SB-203016	EFXE-203016SB	8,5	17,1	21,4	30,0	34,3	38,6
SB-273513	EFXE-273513SB	9,6	19,2	24,1	33,7	38,5	43,3
SB-282816	EFXE-282816SB	9,6	19,3	24,2	33,9	38,7	43,6
SB-204016	EFXE-204016SB	10,1	20,2	25,2	35,4	40,4	45,5
SB-353516	EFXE-353516SB	12,2	24,4	30,5	42,7	48,8	54,9
SB-282827	EFXE-282827SB	13,1	26,2	32,8	45,9	52,5	59,0
SB-355016	EFXE-355016SB	14,8	29,7	37,1	52,0	59,4	66,8
SB-383816	EFXE-383816SB	13,3	26,6	33,2	46,5	53,2	59,8
SB-384516	EFXE-384516SB	14,5	29,1	36,4	51,0	58,3	65,6
SB-385716	EFXE-385716SB	16,7	33,4	41,8	58,5	66,8	75,2
SB-505016	EFXE-505016SB	17,9	35,8	44,8	62,7	71,7	80,7
SB-383827	EFXE-383827SB	17,5	35,1	43,9	61,4	70,2	79,0
SB-575716	EFXE-575716SB	20,7	41,5	51,9	72,7	83,1	93,5
SB-577620	EFXE-577620SB	26,9	53,9	67,4	94,4	107,9	121,3
SB-575730	EFXE-575730SB	27,9	55,8	69,7	97,7	111,6	125,6
SB-769520	EFXE-769520SB	36,1	72,2	90,2	126,3	144,4	162,4
SB-1258040	EFXE-1258040SB	36,1	72,2	90,2	126,3	144,4	162,4

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Enclosure types (Stainless steel)		Maximum power dissipation (W) – Tamb. up to **95**°C	
		INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
SB-101210	EFXE-101210SB	1,3	2,7
SB-151510	EFXE-151510SB	2,0	4,0
SB-142013	EFXE-142013SB	2,6	5,2
SB-202010	EFXE-202010SB	2,6	5,3
SB-202016	EFXE-202016SB	3,4	6,9
SB-202713	EFXE-202713SB	3,6	7,2
SB-272713	EFXE-272713SB	4,1	8,3
SB-203016	EFXE-203016SB	4,2	8,5
SB-273513	EFXE-273513SB	4,8	9,6
SB-282816	EFXE-282816SB	4,8	9,6
SB-204016	EFXE-204016SB	5,0	10,1
SB-353516	EFXE-353516SB	6,1	12,2
SB-282827	EFXE-282827SB	6,5	13,1
SB-355016	EFXE-355016SB	7,4	14,8
SB-383816	EFXE-383816SB	6,6	13,3
SB-384516	EFXE-384516SB	7,2	14,5
SB-385716	EFXE-385716SB	8,3	16,7
SB-505016	EFXE-505016SB	8,9	17,9
SB-383827	EFXE-383827SB	8,7	17,5
SB-575716	EFXE-575716SB	10,3	20,7
SB-577620	EFXE-577620SB	13,4	26,9
SB-575730	EFXE-575730SB	13,9	27,9
SB-769520	EFXE-769520SB	18,0	36,1
SB-1258040	EFXE-1258040SB	18,0	36,1

Power dissipation – Stainless steel enclosures ST series

Enclosure types (Stainless steel)		Maximum power dissipation (W) – Tamb. up to **40**°C						
		INTERNAL TEMP.60°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
ST-101210	EFXE-101210ST	5,5	8,3	11,1	12,5	15,3	16,7	18,1
ST-151510	EFXE-151510ST	8,0	12,0	16,0	18,0	22,0	24,0	26,1
ST-142013	EFXE-142013ST	10,4	15,7	20,9	23,5	28,8	31,4	34,0
ST-202010	EFXE-202010ST	10,7	16,1	21,4	24,1	29,5	32,2	34,8
ST-202016	EFXE-202016ST	13,9	20,8	27,8	31,3	38,3	41,7	45,2
ST-202713	EFXE-202713ST	14,4	21,6	28,9	32,5	39,7	43,3	46,9
ST-272713	EFXE-272713ST	16,7	25,1	33,5	37,7	46,0	50,2	54,4
ST-203016	EFXE-203016ST	17,1	25,7	34,3	38,6	47,2	51,4	55,7
ST-273513	EFXE-273513ST	19,2	28,9	38,5	43,3	53,0	57,8	62,6
ST-282816	EFXE-282816ST	19,3	29,0	38,7	43,6	53,3	58,1	63,0
ST-204016	EFXE-204016ST	20,2	30,3	40,4	45,5	55,6	60,6	65,7
ST-353516	EFXE-353516ST	24,4	36,6	48,8	54,9	67,1	73,2	79,3
ST-282827	EFXE-282827ST	26,2	39,3	52,5	59,0	72,2	78,7	85,3
ST-355016	EFXE-355016ST	29,7	44,5	59,4	66,8	81,7	89,1	96,6
ST-383816	EFXE-383816ST	26,6	39,9	53,2	59,8	73,1	79,8	86,5
ST-384516	EFXE-384516ST	29,1	43,7	58,3	65,6	80,2	87,5	94,8
ST-385716	EFXE-385716ST	33,4	50,1	66,8	75,2	91,9	100,3	108,7
ST-505016	EFXE-505016ST	35,8	53,8	71,7	80,7	98,6	107,6	116,6
ST-383827	EFXE-383827ST	35,1	52,7	70,2	79,0	96,6	105,4	114,2
ST-575716	EFXE-575716ST	41,5	62,3	83,1	93,5	114,3	124,7	135,1
ST-577620	EFXE-577620ST	53,9	80,9	107,9	121,3	148,3	161,8	175,3
ST-575730	EFXE-575730ST	55,8	83,7	111,6	125,6	153,5	167,5	181,4
ST-769520	EFXE-769520ST	72,2	108,3	144,4	162,4	198,5	216,6	234,6
ST-1258040	EFXE-1258040ST	72,2	108,3	144,4	162,4	198,5	216,6	234,6

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Enclosure types (Stainless steel)		Maximum power dissipation (W) – Tamb. up to **50**°C						
		INTERNAL TEMP.60°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
ST-101210	EFXE-101210ST	2,7	5,5	8,3	9,7	12,5	13,9	15,3
ST-151510	EFXE-151510ST	4,0	8,0	12,0	14,0	18,0	20,0	22,0
ST-142013	EFXE-142013ST	5,2	10,4	15,7	18,3	23,5	26,2	28,8
ST-202010	EFXE-202010ST	5,3	10,7	16,1	18,7	24,1	26,8	29,5
ST-202016	EFXE-202016ST	6,9	13,9	20,8	24,3	31,3	34,8	38,3
ST-202713	EFXE-202713ST	7,2	14,4	21,6	25,2	32,5	36,1	39,7
ST-272713	EFXE-272713ST	8,3	16,7	25,1	29,3	37,7	41,8	46,0
ST-203016	EFXE-203016ST	8,5	17,1	25,7	30,0	38,6	42,9	47,2
ST-273513	EFXE-273513ST	9,6	19,2	28,9	33,7	43,3	48,2	53,0
ST-282816	EFXE-282816ST	9,6	19,3	29,0	33,9	43,6	48,4	53,3
ST-204016	EFXE-204016ST	10,1	20,2	30,3	35,4	45,5	50,5	55,6
ST-353516	EFXE-353516ST	12,2	24,4	36,6	42,7	54,9	61,0	67,1
ST-282827	EFXE-282827ST	13,1	26,2	39,3	45,9	59,0	65,6	72,2
ST-355016	EFXE-355016ST	14,8	29,7	44,5	52,0	66,8	74,3	81,7
ST-383816	EFXE-383816ST	13,3	26,6	39,9	46,5	59,8	66,5	73,1
ST-384516	EFXE-384516ST	14,5	29,1	43,7	51,0	65,6	72,9	80,2
ST-385716	EFXE-385716ST	16,7	33,4	50,1	58,5	75,2	83,6	91,9
ST-505016	EFXE-505016ST	17,9	35,8	53,8	62,7	80,7	89,7	98,6
ST-383827	EFXE-383827ST	17,5	35,1	52,7	61,4	79,0	87,8	96,6
ST-575716	EFXE-575716ST	20,7	41,5	62,3	72,7	93,5	103,9	114,3
ST-577620	EFXE-577620ST	26,9	53,9	80,9	94,4	121,3	134,8	148,3
ST-575730	EFXE-575730ST	27,9	55,8	83,7	97,7	125,6	139,5	153,5
ST-769520	EFXE-769520ST	36,1	72,2	108,3	126,3	162,4	180,5	198,5
ST-1258040	EFXE-1258040ST	36,1	72,2	108,3	126,3	162,4	180,5	198,5

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Enclosure types (Stainless steel)		Maximum power dissipation (W) – Tamb. up to **55**°C						
		INTERNAL TEMP.65°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
ST-101210	EFXE-101210ST	2,7	4,1	6,9	8,3	11,1	12,5	13,9
ST-151510	EFXE-151510ST	4,0	6,0	10,0	12,0	16,0	18,0	20,0
ST-142013	EFXE-142013ST	5,2	7,8	13,1	15,7	20,9	23,5	26,2
ST-202010	EFXE-202010ST	5,3	8,0	13,4	16,1	21,4	24,1	26,8
ST-202016	EFXE-202016ST	6,9	10,4	17,4	20,8	27,8	31,3	34,8
ST-202713	EFXE-202713ST	7,2	10,8	18,0	21,6	28,9	32,5	36,1
ST-272713	EFXE-272713ST	8,3	12,5	20,9	25,1	33,5	37,7	41,8
ST-203016	EFXE-203016ST	8,5	12,8	21,4	25,7	34,3	38,6	42,9
ST-273513	EFXE-273513ST	9,6	14,4	24,1	28,9	38,5	43,3	48,2
ST-282816	EFXE-282816ST	9,6	14,5	24,2	29,0	38,7	43,6	48,4
ST-204016	EFXE-204016ST	10,1	15,1	25,2	30,3	40,4	45,5	50,5
ST-353516	EFXE-353516ST	12,2	18,3	30,5	36,6	48,8	54,9	61,0
ST-282827	EFXE-282827ST	13,1	19,6	32,8	39,3	52,5	59,0	65,6
ST-355016	EFXE-355016ST	14,8	22,2	37,1	44,5	59,4	66,8	74,3
ST-383816	EFXE-383816ST	13,3	19,9	33,2	39,9	53,2	59,8	66,5
ST-384516	EFXE-384516ST	14,5	21,8	36,4	43,7	58,3	65,6	72,9
ST-385716	EFXE-385716ST	16,7	25,0	41,8	50,1	66,8	75,2	83,6
ST-505016	EFXE-505016ST	17,9	26,9	44,8	53,8	71,7	80,7	89,7
ST-383827	EFXE-383827ST	17,5	26,3	43,9	52,7	70,2	79,0	87,8
ST-575716	EFXE-575716ST	20,7	31,1	51,9	62,3	83,1	93,5	103,9
ST-577620	EFXE-577620ST	26,9	40,4	67,4	80,9	107,9	121,3	134,8
ST-575730	EFXE-575730ST	27,9	41,8	69,7	83,7	111,6	125,6	139,5
ST-769520	EFXE-769520ST	36,1	54,1	90,2	108,3	144,4	162,4	180,5
ST-1258040	EFXE-1258040ST	36,1	54,1	90,2	108,3	144,4	162,4	180,5

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Enclosure types (Stainless steel)		Maximum power dissipation (W) – Tamb. up to **60**°C					
		INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
ST-101210	EFXE-101210ST	2,7	5,5	6,9	9,7	11,1	12,5
ST-151510	EFXE-151510ST	4,0	8,0	10,0	14,0	16,0	18,0
ST-142013	EFXE-142013ST	5,2	10,4	13,1	18,3	20,9	23,5
ST-202010	EFXE-202010ST	5,3	10,7	13,4	18,7	21,4	24,1
ST-202016	EFXE-202016ST	6,9	13,9	17,4	24,3	27,8	31,3
ST-202713	EFXE-202713ST	7,2	14,4	18,0	25,2	28,9	32,5
ST-272713	EFXE-272713ST	8,3	16,7	20,9	29,3	33,5	37,7
ST-203016	EFXE-203016ST	8,5	17,1	21,4	30,0	34,3	38,6
ST-273513	EFXE-273513ST	9,6	19,2	24,1	33,7	38,5	43,3
ST-282816	EFXE-282816ST	9,6	19,3	24,2	33,9	38,7	43,6
ST-204016	EFXE-204016ST	10,1	20,2	25,2	35,4	40,4	45,5
ST-353516	EFXE-353516ST	12,2	24,4	30,5	42,7	48,8	54,9
ST-282827	EFXE-282827ST	13,1	26,2	32,8	45,9	52,5	59,0
ST-355016	EFXE-355016ST	14,8	29,7	37,1	52,0	59,4	66,8
ST-383816	EFXE-383816ST	13,3	26,6	33,2	46,5	53,2	59,8
ST-384516	EFXE-384516ST	14,5	29,1	36,4	51,0	58,3	65,6
ST-385716	EFXE-385716ST	16,7	33,4	41,8	58,5	66,8	75,2
ST-505016	EFXE-505016ST	17,9	35,8	44,8	62,7	71,7	80,7
ST-383827	EFXE-383827ST	17,5	35,1	43,9	61,4	70,2	79,0
ST-575716	EFXE-575716ST	20,7	41,5	51,9	72,7	83,1	93,5
ST-577620	EFXE-577620ST	26,9	53,9	67,4	94,4	107,9	121,3
ST-575730	EFXE-575730ST	27,9	55,8	69,7	97,7	111,6	125,6
ST-769520	EFXE-769520ST	36,1	72,2	90,2	126,3	144,4	162,4
ST-1258040	EFXE-1258040ST	36,1	72,2	90,2	126,3	144,4	162,4

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Enclosure types (Stainless steel)		Maximum power dissipation (W) – Tamb. up to **95**°C	
		INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
ST-101210	EFXE-101210ST	1,3	2,7
ST-151510	EFXE-151510ST	2,0	4,0
ST-142013	EFXE-142013ST	2,6	5,2
ST-202010	EFXE-202010ST	2,6	5,3
ST-202016	EFXE-202016ST	3,4	6,9
ST-202713	EFXE-202713ST	3,6	7,2
ST-272713	EFXE-272713ST	4,1	8,3
ST-203016	EFXE-203016ST	4,2	8,5
ST-273513	EFXE-273513ST	4,8	9,6
ST-282816	EFXE-282816ST	4,8	9,6
ST-204016	EFXE-204016ST	5,0	10,1
ST-353516	EFXE-353516ST	6,1	12,2
ST-282827	EFXE-282827ST	6,5	13,1
ST-355016	EFXE-355016ST	7,4	14,8
ST-383816	EFXE-383816ST	6,6	13,3
ST-384516	EFXE-384516ST	7,2	14,5
ST-385716	EFXE-385716ST	8,3	16,7
ST-505016	EFXE-505016ST	8,9	17,9
ST-383827	EFXE-383827ST	8,7	17,5
ST-575716	EFXE-575716ST	10,3	20,7
ST-577620	EFXE-577620ST	13,4	26,9
ST-575730	EFXE-575730ST	13,9	27,9
ST-769520	EFXE-769520ST	18,0	36,1
ST-1258040	EFXE-1258040ST	18,0	36,1

Maximum Power Dissipation calculation

The values specified in the tables as per clause 2.1.1 may be modified within the maximum admitted Tamb and maximum admitted internal temperature as follows.

$$Pdiss\ (W) = \frac{Tmax - Tamb}{Rth}$$

$Rth = A \times (\text{enclosure surface in } mm^2 \text{ except enclosure bottom})^B$

Legend:
Rth – Thermal resistance [K/W].
Tmax – Maximum allowed temperature inside enclosure.
Tamb – Ambient temperature of enclosure
A and B - coefficients determined for each series o enclosure. Exact values are given in manufacturer's documentation.

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[16] Confidential Report No. FIDI 21 CR 075

[16.1] Routine testing

Junction boxes, local control stations and local control panels fitted with wiring, shall be subject to a routine dielectric strength test according to the clause 7.1 of IEC 60079-7.

[17] Specific Conditions of Use

- Enclosures marked with warning label: "WARNING – POTENTIAL ELECTROSTATIC CHARGING HAZARD – SEE INSTRUCTIONS" must be cleaned only by damp cloth or antistatic products.
- Apparatus equipped with drain / venting valve Technor Italsmea model ECR3:
  - the valve cannot be open when an explosive dust atmosphere is present.
  - The valve can be open when an explosive gas atmosphere is present: when open, the equipment reaches the protection degree IP44.
  - When the valve is left in open position, it should be protected from light exposure.
- On the intrinsic safety terminals, the user must only connect devices with compatible intrinsic safety parameters according to EN 60079-14.

[18] Essential Health and Safety Requirements

Covered by the conformity with harmonized standards listed under item 9.

[19] Drawings and Documents

Title:	Drawing No.:	Rev. level:	Date:
Technical note	TN2111	0	17.11.2021
Instruction for use	TN2111 Annex A	0	08.11.2021
Apparatus list	TN2111 Annex B	0	17.11.2021
Drawings:			
Cable entries, plug, adaptors coupling systems	AC2111, sheet 1	0	10.11.2021
Example of operator arrangements for AQ-AR-EFE	AC2111, sheet 2	0	10.11.2021
Example of operator arrangements for SB-ST-EFEXE	AC2111, sheet 3	0	10.11.2021
Example terminals and earth bus bar	AC2111, sheet 4	0	10.11.2021
Drain / breath device type ECR3	AC2111, sheet 5	0	10.11.2021
Marking label SB..., ST..., AQ..., AR...	AC2111, sheet 6	0	10.11.2021
Marking label SB..., ST..., AQ..., AR...	AC2111, sheet 7	0	10.11.2021

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[1] **SUPPLEMENTARY EU – TYPE EXAMINATION CERTIFICATE**

[2] Equipment or Protective Systems Intended for use in Potentially Explosive Atmospheres Directive 2014/34/EU.

[3] Supplementary EU-Type Examination Certificate Number: **FIDI 21 ATEX 0090X/1**

[4] Product: **Junction boxes, local control stations and local control panels**

Type: **AQ-***P / AQ-***AL / AR-***P / AR-***AL**
AQ-*P-HT / AQ-***AL-HT / AR-***P-HT / AR-***AL-HT**
SB-* / ST-***
EFE-* / EFXE-*** AL/ EFXE-***SB / EFXE-***ST**
EFE-*-HT / EFXE-***AL-HT**

[5] Manufacturer: **Technor Italsmea S.p.A.**

[6] Address: **Via Italia 33, 20060 Gessate (MI), Italy**

[7] This supplementary certificate extends EU – Type Examination Certificate to apply to product designed and constructed in accordance with the specification set out in the Schedule of the said certificate but having any variations specified in the Schedule to this certificate and the documents therein referred to.

[8] FIDITAS Ltd., Notified Body number 2829 in accordance with Article 17 of Directive 2014/34/EU of the European Parliament and of the Council, dated 26 February 2014, certifies that this product has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of products intended for use in potentially explosive atmospheres given in Annex II of the Directive.

[9] The examination and test results are recorded in confidential Report No: **FIDI 23 CR 019**

[10] The marking of the product shall include the following:

II 1 G	**Ex ia IIC/IIB T6...T4 Ga**(2) or
II 2(1) G or **II 2(2) G**	**Ex db eb ia/ib mb [**(3)**] IIC/IIB T6...T4 Gb**(1) or
II 2 G	**Ex eb IIC/IIB T6...T4 Gb**(1) or
II 2 D	**Ex tb IIIC T85°C...T135°C Db**

(1) Others type of protection additional to 'eb' depending to the components actually mounted.

(2) In case of enclosures containing 'eb' terminals and/or 'ia Ga' already certified components (with compatible marking) only.

(3) Associated equipment protection depending on the components actually mounted (see lists): e.g. [ia/ib/ia Ga/ia IIIC Da] and/or [ia IIIC Da] or [ia/ib/ia Ga/ia IIIC Da] and/or [ia/ib/ia Ga] [ia IIIC Da]

FIDITAS Ltd.
Certification department
Approved:

Marino Kelava, M.E.Eng.

Our ref.: 23.CRT.071

Date: 19.04.2023

Fiditas d.o.o. ZAGREB

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[11] **SCHEDULE**

[12] **SUPPLEMENTARY EU - TYPE EXAMINATION CERTIFICATE No.: FIDI 21 ATEX 0090X /1**

[13] Description of the variation to the Product

New Ex products added:

- Surge voltage protection unit type: PLUGTRAB PT2 or PT4 – PHOENIX CONTACT; II 1G> Ex ia IIC T4...T6 Ga; KEMA 00 ATEX 1099X;
- SITRANS TH230/420, type: 7NG0317, 0310; 0410 TR320/TR420 7NG0327; 7NG0320; TYPE 7NG0420; Siemens AG; II 1G Ex ia IIC T6...T4 Ga; II 2(1)G Ex ib [ia Ga] IIC T6...T4 Gb; DEKRA 17 ATEX 0116X
- Enhanced Model 644 Temperature Transmitter, ROSEMOUNT INCORPORATED, II 1G Ex ia IIC T6...T4 Ga; DEKRA 21ATEX0003X,
- Temperature Transmitter type: 5434D; 5431D; 6431D; 5435D; 5437D; 5437D; 5437B; 6437D, II 1G Ex ia IIC T6...T4 Ga; II 2(1)G Ex ib [ia Ga] IIC T6...T4 Gb; DEKRA 16 ATEX 0047X,
- Controls Units and / or Junction Boxes Type: GUB..., TECHNOR ITALSMEA; II 2G Ex db (*) IIC T(*) Gb; INERIS 22 ATEX 0008X
- Cable Transit Device type: CF 8 Ex, CF 32 Ex, CF 16 Ex, C RS T...Ex, RS..B Ex, SF...Ex, SFX...B Ex, B...B Ex, R...B Ex and RO...B; ROXTEC INTERNATIONAL AB, II 2G Ex e IIC Gb, II 2D Ex tb IIC Db; NEMKO 12 ATEX 1278X
- Cable Transit Device type: HD 16 Ex, HD 24 Ex, HD 32 Ex and HDLC Ex, ROXTEC INTERNATIONAL AB, II 2G Ex eb IIC Gb, II 2D Ex tb IIIC Db, PRESAFE 15 ATEX 6419X
- Control stations and junction boxes type: CP..., TECHNOR ITALSMEA, II 2G Ex db IIC T6 or T5 or T4 Gb or II 2(1)G Ex db [ia Ga] IIC T6 Gb(***) or II 2(2)G Ex db [ib] IIC T6 Gb (***); INERIS 03 ATEX 0009X
- Industrial plug and socket type: DXN1, MARECHAL ELECTRIC, II 2G Ex db eb IIC T5 or T6; II 2D Ex tb IIIC T90°C/T70°C; LCIE 99 ATEX6027X
- Industrial plug and socket type: DXN3, MARECHAL ELECTRIC; II 2G Ex db eb IIC T5 or T6; II 2D Ex tb IIIC T90°C/T70°C; LCIE 05 ATEX 6149X
- Industrial plug and socket type: DXN6, MARECHAL ELECTRIC, II 2G Ex db eb IIC T5 or T6; II 2D Ex tb IIIC T90°C/T70°C; LCIE 05 ATEX 6150X
- Industrial plug and socket type: PXN12C, MARECHAL ELECTRIC, II 2G Ex eb IIC T*; II 2G Ex ia or ib IIC T*; II 2D Ex tb IIIC T* Db; LCIE 07 ATEX 6070X
- Industrial plug and socket type: DXN25C, MARECHAL ELECTRIC; II 2G Ex eb IIC T*; II 2G Ex ia or ib IIC T6; II2D Ex tb IIIC T*; LCIE 09ATEX3050X
- Industrial plug and socket type: DXN37C, MARECHAL ELECTRIC; II 2G Ex eb IIC T*; II 2G Ex ia or ib IIC T6; II2D Ex tb IIIC T*; LCIE 07ATEX6071X
- Industrial plug and socket type: SPeX, MARECHAL ELECTRIC, II 2G Ex eb IIC T*; II2D Ex tb IIIC T* Db; LCIE 07ATEX6073X
- Industrial plug and socket type: DXA1, MARECHAL ELECTRIC, II 2G Ex db eb IIC T* Gb; II 2D Ex tb IIC T*°C Db; LCIE 15ATEX 3033X
- Industrial plug and socket type: PNCX, MARECHAL ELECTRIC, II 2G Ex IIC T6 Gb; II 2D Ex tb IIIC T72°C Db; LCIE 16ATEX3001X
- Terminal type: WDU 240, WEIDMULLER, II 2G Ex eb IIC Gb; KEMA 01 ATEX 2186U.

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[14] Confidential Report No. FIDI 23 CR 019

[14.1] Routine testing

No change to specified in the initial certificate.

[15] Specific Conditions of Use

Addditional to those specified the initial certificate:

- Manufacturer must obey relevant specific condition of use of Ex equipment and/or schedule of limitation of Ex components installed in/on the product and forward to the end user if relevant for the installation and use.

[16] Essential Health and Safety Requirements

Compliance with the Essential Health and Safety Requirements is not affected by this variation.

[17] Drawings and Documents

Title:	Drawing No.:	Rev. level:	Date:
Technical note	TN2111	1	20.01.2023
Instruction for use	TN2111 Annex A	1	20.01.2023
Apparatus list	TN2111 Annex B	1	20.01.2023

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IECEx Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION
IEC Certification System for Explosive Atmospheres

for rules and details of the IECEx Scheme visit www.iecex.com

Certificate No.:	**IECEx FIDI 21.0015X**	Page 1 of 4	Certificate history: Issue 0 (2022-02-18)
Status:	**Current**	Issue No: 1	
Date of Issue:	2023-05-04		

Applicant: **Technor Italsmea S.p.A.**
Via Italia 33
20060 Gessate (MI)
Italy

Equipment: **Junction boxes, local control stations and local control panels**

Optional accessory: Model reference: AQ-***P / AQ-***AL / AR-***P / AR-***AL / AQ-***P-HT / AQ-***AL-HT / AR-***P-HT / AR-***AL-HT / SB-*** / ST-*** / EFE-*** / EFXE-*** AL/ EFXE-***SB / EFXE-***ST / EFE-***-HT / EFXE-***AL-HT

Type of Protection: **Flameproof enclosure 'db'; Intrinsic safety 'ia/ib'; Increased safety 'eb'; Encapsulation 'mb', Protection by enclosure 'tb'**

Marking: **Ex ia IIC/IIB T6...T4 Ga**(2) or

Ex db eb ia/ib mb [(3)] IIC/IIB T6...T4 Gb(1) or

Ex eb IIC/IIB T6...T4 Gb(1) or

Ex tb IIIC T85°C...T135°C Db

(1) Others type of protection additional to Ex e/eb depending to the components actually mounted.

(2) In case of enclosures containing Ex e/Ex eb terminals and/or Ex ia Ga already certified components (with compatible marking) only.

(3) Associated equipment protection depending on the components actually mounted (see lists): e.g. [ia/ib/ia Ga/ia IIIC Da] and/or [ia IIIC Da] or [ia/ib/ia Ga/ia IIIC Da] and/or [ia/ib/ia Ga] [ia IIIC Da]

Approved for issue on behalf of the IECEx Certification Body: **Marino Kelava**

Position: **Certification Signatory**

Signature:
(for printed version)

Date:
(for printed version)

1. This certificate and schedule may only be reproduced in full.
2. This certificate is not transferable and remains the property of the issuing body.
3. The Status and authenticity of this certificate may be verified by visiting www.iecex.com or use of this QR Code.

Certificate issued by:

Fiditas Ltd
Slavka Tomerlina 44
HR-10361 Zagreb-Sesvete
Croatia

Fiditas
explosion safety solutions

IECEx Certificate of Conformity

Certificate No.: **IECEx FIDI 21.0015X**

Date of issue: 2023-05-04 Issue No: 1

Manufacturer: **Technor Italsmea S.p.A.**
Via Italia 33
20060 Gessate (MI)
Italy

Manufacturing locations:

This certificate is issued as verification that a sample(s), representative of production, was assessed and tested and found to comply with the IEC Standard list below and that the manufacturer's quality system, relating to the Ex products covered by this certificate, was assessed and found to comply with the IECEx Quality system requirements.This certificate is granted subject to the conditions as set out in IECEx Scheme Rules, IECEx 02 and Operational Documents as amended

STANDARDS :
The equipment and any acceptable variations to it specified in the schedule of this certificate and the identified documents, was found to comply with the following standards

IEC 60079-0:2017 Explosive atmospheres - Part 0: Equipment - General requirements
Edition:7.0

IEC 60079-1:2014-06 Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"
Edition:7.0

IEC 60079-11:2011 Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"
Edition:6.0

IEC 60079-18:2017 Explosive atmospheres - Part 18: Protection by encapsulation "m"
Edition:4.1

IEC 60079-31:2013 Explosive atmospheres - Part 31: Equipment dust ignition protection by enclosure "t"
Edition:2

IEC 60079-7:2017 Explosive atmospheres - Part 7: Equipment protection by increased safety "e"
Edition:5.1

This Certificate **does not** indicate compliance with safety and performance requirements other than those expressly included in the Standards listed above.

TEST & ASSESSMENT REPORTS:
A sample(s) of the equipment listed has successfully met the examination and test requirements as recorded in:

Test Reports:

HR/FIDI/ExTR21.0016/00 HR/FIDI/ExTR21.0016/01

Quality Assessment Report:

FR/INE/QAR08.0002/15

IECEx Certificate of Conformity

EQUIPMENT:
Equipment and systems covered by this Certificate are as follows:

Junction boxes, local control stations and local control panels series AQ-…..; AR-…..; SB…..; EFE-…..; EFXE-….. use certified enclosures of various sizes, manufactured by Technor Italsmea S.p.A., type: AQ-.... ; AR-....; SB-...; ST- …, certificate IECEx FIDI 21.0012U.

Enclosures coded …-HT are made in glass fiber reinforced polyester resin or in aluminum, and covered by IECEx component certificates: IECEx PTB 08.0003U, enclosure type: 26.****** and IECEx PTB 08.0003U, enclosure type: 25.******.

Enclosures may be equipped with certified Ex equipment or Ex components and Ex terminals listed in manufacturer's documentation. Certified Ex equipment or Ex components and Ex terminals must be used according to data available in related component or equipment certificates, in particular relevant temperature range, voltage and current limitations. The cable glands or plugs, with separate IECEx certificate, made in type of protection ‘eb’ and/or ‘tb’ with appropriate IP protection are mounted according to related manufacturer’s installation instructions. Each enclosure is provided with internal earthing certified terminal or earthing screw or bolt. Metal enclosures are provided by external earthing screw or bolt. Metal and polyester enclosures can be provided by passing through earthing terminals.

All enclosures can be provided by:
- Externally installed accessories as specified in manufacturer documents,
- Drain breath device type ECR3, included in this certificate,
- Internal/external earthing plate.

For other description see Annex.

SPECIFIC CONDITIONS OF USE: YES as shown below:

- Enclosures marked with warning label: “WARNING – POTENTIAL ELECTROSTATIC CHARGING HAZARD – SEE INSTRUCTIONS” must be cleaned only by damp cloth or antistatic products.
- Apparatus equipped with drain / venting valve Technor Italsmea model ECR3:
  - the valve cannot be open when an explosive dust atmosphere is present.
  - The valve can be open when an explosive gas atmosphere is present: when open, the equipment reaches the protection degree IP44.
  - When the valve is left in open position, it should be protected from light exposure.
- On the intrinsic safety terminals, the user must only connect devices with compatible intrinsic safety parameters according to IEC 60079-14.

IECEx Certificate of Conformity

DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)
New IECEx certified Ex products added in the Apparatus list according to list given in HR/FIDI/ ExTR 21.0016/01.

Annex:

IECEx FIDI 21.0015X Technor Equipment Annex1 issue1.pdf

Technical description (continued from original certificate)

Model identification

Junction boxes

A(1)-(2) (3) (4) (5) (6)	(1) –	**Q**: Square size **R**: Rectangular size
	(2) (3) (4)	dimension, in cm
	(5)	Material **P**: Glass fiber reinforced polyester resin **AL**: Aluminium Alloy
	(6)	None: up to internal temperature of 105°C **HT**: up to internal temperature of 130°C
SB- (2) (3) (4)	(2) (3) (4)	dimension, in cm
ST- (2) (3) (4)	(2) (3) (4)	dimension, in cm

Panel boards

EFE- (2) (3) (4) (6)	(2) (3) (4)	dimension, in cm
	(6)	None: up to internal temperature of 105°C **HT**: up to internal temperature of 130°C
EFXE- (2) (3) (4) (5) (6)	(2) (3) (4)	dimension, in cm
	(5)	Material **SB** or **ST**: stainless steel **AL**: Aluminium Alloy
	(6)	None: up to internal temperature of 105°C **HT**: up to internal temperature of 130°C

Technical data:

Electrical data:	According to Ex component to actually installed
Ambient temperature:	-50°C to +95°C Other possible ranges are with: - min temperature: -50°C to -20 °C - max temperature of +40 °C to +95 °C
Mechanical protection:	IP55, IP66 or IP67 depending on model

Temperature class and/or maximum surface temperature of any junction box or control panel depend on ambient temperature and internal power dissipation. The values that must be observed are given in relevant tables in this certificate.

For commercial reasons model name listed in the tables below can be modified as follows: first (2) and second (3) pair of digits can be reversed.

Models sizes

Polyester High Temperature		Aluminium High Temperature	
AQ-080806P-HT	EFE-080806-HT	AQ-080806AL-HT	EFXE-080806AL-HT
AQ-080808P-HT	EFE-080808-HT	AR-081306AL-HT	EFXE-081306AL-HT
AR-081106P-HT	EFE-081106-HT	AR-081806AL-HT	EFXE-081806AL-HT
AR-081108P-HT	EFE-081108-HT	AR-082505AL-HT	EFXE-082505AL-HT
AR-081606P-HT	EFE-081606-HT	AQ-101008AL-HT	EFXE-101008AL-HT
AR-081608P-HT	EFE-081608-HT	AR-101608AL-HT	EFXE-101608AL-HT
AR-081906P-HT	EFE-081906-HT	AR-102008AL-HT	EFXE-102008AL-HT
AR-081908P-HT	EFE-081908-HT	AQ-121208AL-HT	EFXE-121208AL-HT
AR-082306P-HT	EFE-082306-HT	AQ-121209AL-HT	EFXE-121209AL-HT
AR-082308P-HT	EFE-082308-HT	AR-122208AL-HT	EFXE-122208AL-HT
AQ-121209P-HT	EFE-121209-HT	AR-122209AL-HT	EFXE-122209AL-HT
AR-122209P-HT	EFE-122209-HT	AR-123608AL-HT	EFXE-123608AL-HT
AQ-161609P-HT	EFE-161609-HT	AQ-141409AL-HT	EFXE-141409AL-HT
AR-162609P-HT	EFE-162609-HT	AR-142009AL-HT	EFXE-142009AL-HT
AR-163609P-HT	EFE-163609-HT	AQ-161609AL-HT	EFXE-161609AL-HT
AR-165609P-HT	EFE-165609-HT	AR-162609AL-HT	EFXE-162609AL-HT
AQ-202017P-HT	EFE-202017-HT	AR-163609AL-HT	EFXE-163609AL-HT
AR-203017P-HT	EFE-203017-HT	AR-165609AL-HT	EFXE-165609AL-HT
AQ-252612P-HT	EFE-252612-HT	AQ-181810AL-HT	EFXE-181810AL-HT
AQ-252616P-HT	EFE-252616-HT	AR-182810AL-HT	EFXE-182810AL-HT
AR-254012P-HT	EFE-254012-HT	AR-102311AL-HT	EFXE-102311AL-HT
AR-254016P-HT	EFE-254016-HT	AR-202311AL-HT	EFXE-202311AL-HT
AR-256012P-HT	EFE-256012-HT	AR-202318AL-HT	EFXE-202318AL-HT
AR-304020P-HT	EFE-304020-HT	AR-232811AL-HT	EFXE-232811AL-HT
AQ-363609P-HT	EFE-363609-HT	AR-233311AL-HT	EFXE-233311AL-HT
AR-406025P-HT	EFE-406025-HT	AR-233318AL-HT	EFXE-233318AL-HT
AQ-414012P-HT	EFE-414012-HT	AR-234011AL-HT	EFXE-234011AL-HT
AQ-414020P-HT	EFE-414020-HT	AR-234023AL-HT	EFXE-234023AL-HT
		AR-236011AL-HT	EFXE-236011AL-HT
		AR-314011AL-HT	EFXE-314011AL-HT
		AR-314014AL-HT	EFXE-314014AL-HT
		AR-314018AL-HT	EFXE-314018AL-HT
		AR-314023AL-HT	EFXE-314023AL-HT
		AR-316011AL-HT	EFXE-316011AL-HT
		AR-316018AL-HT	EFXE-316018AL-HT
		AQ-606020AL-HT	EFXE-606020AL-HT

Polyester		Aluminium		Stainless steel	
AQ-080806P	EFE-080806	AQ-080806AL	EFXE-080806AL	SB-101210	EFXE-101210SB
AQ-080808P	EFE-080808	AR-081306AL	EFXE-081306AL	SB-151510	EFXE-151510SB
AR-081106P	EFE-081106	AR-081806AL	EFXE-081806AL	SB-142013	EFXE-142013SB
AR-081606P	EFE-081606	AR-081808AL	EFXE-081808AL	SB-202010	EFXE-202010SB
AR-081906P	EFE-081906	AR-082505AL	EFXE-082505AL	SB-202016	EFXE-202016SB
AQ-121209P	EFE-121209	AR-082508AL	EFXE-082508AL	SB-202713	EFXE-202713SB
AR-122209P	EFE-122209	AQ-101008AL	EFXE-101008AL	SB-272713	EFXE-272713SB
AQ-161609P	EFE-161609	AR-101508AL	EFXE-101508AL	SB-203016	EFXE-203016SB
AR-162609P	EFE-162609	AR-101608AL	EFXE-101608AL	SB-273513	EFXE-273513SB
AR-163609P	EFE-163609	AR-102008AL	EFXE-102008AL	SB-282816	EFXE-282816SB
AQ-252612P	EFE-252612	AQ-121208AL	EFXE-121208AL	SB-204016	EFXE-204016SB
AQ-252616P	EFE-252616	AR-122209AL	EFXE-122209AL	SB-353516	EFXE-353516SB
AR-254012P	EFE-254012	AQ-141409AL	EFXE-141409AL	SB-282827	EFXE-282827SB
AR-254016P	EFE-254016	AR-142009AL	EFXE-142009AL	SB-355016	EFXE-355016SB
AR-256012P	EFE-256012	AQ-161609AL	EFXE-161609AL	SB-383816	EFXE-383816SB
AQ-414012P	EFE-414012	AR-162410AL	EFXE-162410AL	SB-384516	EFXE-384516SB
		AR-162609AL	EFXE-162609AL	SB-385716	EFXE-385716SB
		AQ-181810AL	EFXE-181810AL	SB-505016	EFXE-505016SB
		AR-182810AL	EFXE-182810AL	SB-383827	EFXE-383827SB
		AR-202311AL	EFXE-202311AL	SB-575716	EFXE-575716SB
		AR-202318AL	EFXE-202318AL	SB-577620	EFXE-577620SB
		AR-232811AL	EFXE-232811AL	SB-575730	EFXE-575730SB
		AR-233312AL	EFXE-233312AL	SB-769520	EFXE-769520SB
		AR-233318AL	EFXE-233318AL	SB-1258040	EFXE-1258040SB

Enclosure types (Stainless steel)	
ST-101210	EFXE-101210ST
ST-151510	EFXE-151510ST
ST-142013	EFXE-142013ST
ST-202010	EFXE-202010ST
ST-202016	EFXE-202016ST
ST-202713	EFXE-202713ST
ST-272713	EFXE-272713ST
ST-203016	EFXE-203016ST
ST-273513	EFXE-273513ST
ST-282816	EFXE-282816ST
ST-204016	EFXE-204016ST
ST-353516	EFXE-353516ST
ST-282827	EFXE-282827ST
ST-355016	EFXE-355016ST
ST-383816	EFXE-383816ST
ST-384516	EFXE-384516ST
ST-385716	EFXE-385716ST
ST-505016	EFXE-505016ST
ST-383827	EFXE-383827ST
ST-575716	EFXE-575716ST
ST-577620	EFXE-577620ST
ST-575730	EFXE-575730ST
ST-769520	EFXE-769520ST
ST-1258040	EFXE-1258040ST

Note 2 For stainless steel enclosures: dimensions (2) and (3) can be decreased or increased up to 20%, dimensions (4) can be increased up to 500 mm. Model name changes consequently.

Power dissipation – HT glass fiber reinforced polyester resin enclosures

Enclosure types (polyester)		Maximum power dissipation (W) – Tamb. up to **40**°C							
		INTERNAL TEMP.60°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)	INTERNAL TEMP.127°C (T4/T135°C)
AQ-080806P-HT	EFE-080806-HT	3,5	5,2	7,0	7,8	9,6	10,4	11,3	15,2
AQ-080808P-HT	EFE-080808-HT	4,6	6,8	9,1	10,2	12,5	13,7	14,8	19,8
AR-081106P-HT	EFE-081106-HT	4,3	6,4	8,5	9,6	11,8	12,8	13,9	18,6
AR-081108P-HT	EFE-081108-HT	5,6	8,4	11,2	12,6	15,3	16,7	18,1	24,2
AR-081606P-HT	EFE-081606-HT	5,8	8,7	11,6	13,0	15,9	17,4	18,8	25.2
AR-081608P-HT	EFE-081608-HT	6,8	10,2	13,7	15,4	18,8	20,5	22,2	29,7
AR-081906P-HT	EFE-081906-HT	6,4	9,6	12,8	14,4	17,6	19,2	20,8	27,8
AR-081908P-HT	EFE-081908-HT	7,5	11,3	15,1	17,0	20,7	22,6	24,5	32,7
AR-082306P-HT	EFE-082306-HT	7,2	10,8	14,4	16,2	19,8	21,6	23,4	31,3
AR-082308P-HT	EFE-082308-HT	8,5	12,7	16,9	19,0	23,3	25,4	27,5	36,7
AQ-121209P-HT	EFE-121209-HT	8,0	12,0	15,9	17,9	21,9	23,9	25,9	34,7
AR-122209P-HT	EFE-122209-HT	10,8	16,2	21,6	24,3	29,7	32,4	35,1	47,0
AQ-161609P-HT	EFE-161609-HT	10,4	15,6	20,8	23,4	28,6	31,2	33,8	45,2
AR-162609P-HT	EFE-162609-HT	13,4	20,1	26,8	30,2	36,9	40,2	43,6	58,3
AR-163609P-HT	EFE-163609-HT	16,2	24,3	32,4	36,5	44,6	48,6	52,7	70,5
AR-165609P-HT	EFE-165609-HT	21,4	32,0	42,7	48,1	58,7	64,1	69,4	92,9
AQ-202017P-HT	EFE-202017-HT	18,0	26,9	35,9	40,4	49,4	53,9	58,4	78,1
AR-203017P-HT	EFE-203017-HT	20,9	31,3	41,7	47,0	57,4	62,6	67,8	90,8
AQ-252612P-HT	EFE-252612-HT	18,8	28,2	37,6	42,4	51,8	56,5	61,2	81,9
AQ-252616P-HT	EFE-252616-HT	20,8	31,1	41,5	46,7	57,1	62,3	67,5	90,3
AR-254012P-HT	EFE-254012-HT	22,8	34,2	45,7	51,4	62,8	68,5	74,2	99,3
AR-254016P-HT	EFE-254016-HT	26,2	39,3	52,4	58,9	72,0	78,6	85,1	113,9
AR-256012P-HT	EFE-256012-HT	29,0	43,6	58,1	65,3	79,9	87,1	94,4	126,3
AR-304020P-HT	EFE-304020-HT	32,3	48,5	64,7	72,7	88,9	97,0	105,1	140,7
AQ-363609P-HT	EFE-363609-HT	23,0	34,6	46,1	51,8	63,4	69,1	74,9	100,2
AR-406025P-HT	EFE-406025-HT	50,3	75,5	100,7	113,3	138,4	151,0	163,6	218,9
AQ-414012P-HT	EFE-414012-HT	29,1	43,7	58,2	65,5	80,1	87,3	94,6	126,6
AQ-414020P-HT	EFE-414020-HT	36,6	55,0	73,3	82,4	100,8	109,9	119,1	159,4

Enclosure types (polyester)		Maximum power dissipation (W) – Tamb. up to **50**°C							
		INTERNAL TEMP.60°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)	INTERNAL TEMP.127°C (T4/T135°C)
AQ-080806P-HT	EFE-080806-HT	1,7	3,5	5,2	6,1	7,8	8,7	9,6	13,4
AQ-080808P-HT	EFE-080808-HT	2,3	4,6	6,8	8,0	10,2	11,4	12,5	17,5
AR-081106P-HT	EFE-081106-HT	2,1	4,3	6,4	7,5	9,6	10,7	11,8	16,5
AR-081108P-HT	EFE-081108-HT	2,8	5,6	8,4	9,8	12,6	13,9	15,3	21.5
AR-081606P-HT	EFE-081606-HT	2,9	5,8	8,7	10,1	13,0	14,5	15,9	22,3
AR-081608P-HT	EFE-081608-HT	3,4	6,8	10,2	11,9	15,4	17,1	18,8	26,3
AR-081906P-HT	EFE-081906-HT	3,2	6,4	9,6	11,2	14,4	16,0	17,6	24,6
AR-081908P-HT	EFE-081908-HT	3,8	7,5	11,3	13,2	17,0	18,8	20,7	29,0
AR-082306P-HT	EFE-082306-HT	3,6	7,2	10,8	12,6	16,2	18,0	19,8	27,7
AR-082308P-HT	EFE-082308-HT	4,2	8,5	12,7	14,8	19,0	21,1	23,3	32,5
AQ-121209P-HT	EFE-121209-HT	4,0	8,0	12,0	14,0	17,9	19,9	21,9	30,7
AR-122209P-HT	EFE-122209-HT	5,4	10,8	16,2	18,9	24,3	27,0	29,7	41,6
AQ-161609P-HT	EFE-161609-HT	5,2	10,4	15,6	18,2	23,4	26,0	28,6	40,0
AR-162609P-HT	EFE-162609-HT	6,7	13,4	20,1	23,5	30,2	33,5	36,9	51,6
AR-163609P-HT	EFE-163609-HT	8,1	16,2	24,3	28,4	36,5	40,5	44,6	62,3
AR-165609P-HT	EFE-165609-HT	10,7	21,4	32,0	37,4	48,1	53,4	58,7	82,2
AQ-202017P-HT	EFE-202017-HT	9,0	18,0	26,9	31,4	40,4	44,9	49,4	69,1
AR-203017P-HT	EFE-203017-HT	10,4	20,9	31,3	36,5	47,0	52,2	57,4	80,4
AQ-252612P-HT	EFE-252612-HT	9,4	18,8	28,2	32,9	42,4	47,1	51,8	72,5
AQ-252616P-HT	EFE-252616-HT	10,4	20,8	31,1	36,3	46,7	51,9	57,1	79,9
AR-254012P-HT	EFE-254012-HT	11,4	22,8	34,2	39,9	51,4	57,1	62,8	87,9
AR-254016P-HT	EFE-254016-HT	13,1	26,2	39,3	45,8	58,9	65,5	72,0	100,8
AR-256012P-HT	EFE-256012-HT	14,5	29,0	43,6	50,8	65,3	72,6	79,9	111,8
AR-304020P-HT	EFE-304020-HT	16,2	32,3	48,5	56,6	72,7	80,8	88,9	124,4
AQ-363609P-HT	EFE-363609-HT	11,5	23,0	34,6	40,3	51,8	57,6	63,4	88,7
AR-406025P-HT	EFE-406025-HT	25,2	50,3	75,5	88,1	113,3	125,8	138,4	193,8
AQ-414012P-HT	EFE-414012-HT	14,6	29,1	43,7	51,0	65,5	72,8	80,1	112,1
AQ-414020P-HT	EFE-414020-HT	18,3	36,6	55,0	64,1	82,4	91,6	100,8	141,1

Enclosure types (polyester)		Maximum power dissipation (W) – Tamb. up to **55**°C							
		INTERNAL TEMP.65°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)	INTERNAL TEMP.127°C (T4/T135°C)
AQ-080806P-HT	EFE-080806-HT	1,7	2,6	4,4	5,2	7,0	7,8	8,7	12,5
AQ-080808P-HT	EFE-080808-HT	2,3	3,4	5,7	6,8	9,1	10,2	11,4	16,2
AR-081106P-HT	EFE-081106-HT	2,1	3,2	5,3	6,4	8,5	9,6	10,7	15,2
AR-081108P-HT	EFE-081108-HT	2,8	4,2	7,0	8,4	11,2	12,6	13,9	19,8
AR-081606P-HT	EFE-081606-HT	2,9	4,3	7,2	8,7	11,6	13,0	14,5	20,6
AR-081608P-HT	EFE-081608-HT	3,4	5,1	8,5	10,2	13,7	15,4	17,1	24,3
AR-081906P-HT	EFE-081906-HT	3,2	4,8	8,0	9,6	12,8	14,4	16,0	22,8
AR-081908P-HT	EFE-081908-HT	3,8	5,7	9,4	11,3	15,1	17,0	18,8	26,8
AR-082306P-HT	EFE-082306-HT	3,6	5,4	9,0	10,8	14,4	16,2	18,0	25,6
AR-082308P-HT	EFE-082308-HT	4,2	6,3	10,6	12,7	16,9	19,0	21,1	30,0
AQ-121209P-HT	EFE-121209-HT	4,0	6,0	10,0	12,0	15,9	17,9	19,9	28,3
AR-122209P-HT	EFE-122209-HT	5,4	8,1	13,5	16,2	21,6	24,3	27,0	38,3
AQ-161609P-HT	EFE-161609-HT	5,2	7,8	13,0	15,6	20,8	23,4	26,0	36,9
AR-162609P-HT	EFE-162609-HT	6,7	10,1	16,8	20,1	26,8	30,2	33,5	47,6
AR-163609P-HT	EFE-163609-HT	8,1	12,2	20,3	24,3	32,4	36,5	40,5	57,5
AR-165609P-HT	EFE-165609-HT	10,7	16,0	26,7	32,0	42,7	48,1	53,4	75,8
AQ-202017P-HT	EFE-202017-HT	9,0	13,5	22,4	26,9	35,9	40,4	44,9	63,7
AR-203017P-HT	EFE-203017-HT	10,4	15,7	26,1	31,3	41,7	47,0	52,2	74,0
AQ-252612P-HT	EFE-252612-HT	9,4	14,1	23,5	28,2	37,6	42,4	47,1	66,8
AQ-252616P-HT	EFE-252616-HT	10,4	15,6	26,0	31,1	41,5	46,7	51,9	73,7
AR-254012P-HT	EFE-254012-HT	11,4	17,1	28,5	34,2	45,7	51,4	57,1	81,0
AR-254016P-HT	EFE-254016-HT	13,1	19,6	32,7	39,3	52,4	58,9	65,5	92,9
AR-256012P-HT	EFE-256012-HT	14,5	21,8	36,3	43,6	58,1	65,3	72,6	103,0
AR-304020P-HT	EFE-304020-HT	16,2	24,2	40,4	48,5	64,7	72,7	80,8	114,7
AQ-363609P-HT	EFE-363609-HT	11,5	17,3	28,8	34,6	46,1	51,8	57,6	81,8
AR-406025P-HT	EFE-406025-HT	25,2	37,8	62,9	75,5	100,7	113,3	125,8	178,6
AQ-414012P-HT	EFE-414012-HT	14,6	21,8	36,4	43,7	58,2	65,5	72,8	103,0
AQ-414020P-HT	EFE-414020-HT	18,3	27,5	45,8	55,0	73,3	82,4	91,6	130,0

Enclosure types (polyester)		Maximum power dissipation (W) – Tamb. up to **60**°C						
		INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)	INTERNAL TEMP.127°C (T4/T135°C)
AQ-080806P-HT	EFE-080806-HT	1,7	3,5	4,4	6,1	7,0	7,8	11,7
AQ-080808P-HT	EFE-080808-HT	2,3	4,6	5,7	8,0	9,1	10,2	15,2
AR-081106P-HT	EFE-081106-HT	2,1	4,3	5,3	7,5	8,5	9,6	14,3
AR-081108P-HT	EFE-081108-HT	2,8	5,6	7,0	9,8	11,2	12,6	18,7
AR-081606P-HT	EFE-081606-HT	2,9	5,8	7,2	10,1	11,6	13,0	19,4
AR-081608P-HT	EFE-081608-HT	3,4	6,8	8,5	11,9	13,7	15,4	22,9
AR-081906P-HT	EFE-081906-HT	3,2	6,4	8,0	11,2	12,8	14,4	21,4
AR-081908P-HT	EFE-081908-HT	3,8	7,5	9,4	13,2	15,1	17,0	25,3
AR-082306P-HT	EFE-082306-HT	3,6	7,2	9,0	12,6	14,4	16,2	24,1
AR-082308P-HT	EFE-082308-HT	4,2	8,5	10,6	14,8	16,9	19,0	28,3
AQ-121209P-HT	EFE-121209-HT	4,0	8,0	10,0	14,0	15,9	17,9	26,7
AR-122209P-HT	EFE-122209-HT	5,4	10,8	13,5	18,9	21,6	24,3	36,2
AQ-161609P-HT	EFE-161609-HT	5,2	10,4	13,0	18,2	20,8	23,4	34,8
AR-162609P-HT	EFE-162609-HT	6,7	13,4	16,8	23,5	26,8	30,2	44,9
AR-163609P-HT	EFE-163609-HT	8,1	16,2	20,3	28,4	32,4	36,5	54,2
AR-165609P-HT	EFE-165609-HT	10,7	21,4	26,7	37,4	42,7	48,1	71,5
AQ-202017P-HT	EFE-202017-HT	9,0	18,0	22,4	31,4	35,9	40,4	60,1
AR-203017P-HT	EFE-203017-HT	10,4	20,9	26,1	36,5	41,7	47,0	69,9
AQ-252612P-HT	EFE-252612-HT	9,4	18,8	23,5	32,9	37,6	42,4	63,0
AQ-252616P-HT	EFE-252616-HT	10,4	20,8	26,0	36,3	41,5	46,7	69,5
AR-254012P-HT	EFE-254012-HT	11,4	22,8	28,5	39,9	45,7	51,4	76,5
AR-254016P-HT	EFE-254016-HT	13,1	26,2	32,7	45,8	52,4	58,9	87,7
AR-256012P-HT	EFE-256012-HT	14,5	29,0	36,3	50,8	58,1	65,3	97,2
AR-304020P-HT	EFE-304020-HT	16,2	32,3	40,4	56,6	64,7	72,7	108,3
AQ-363609P-HT	EFE-363609-HT	11,5	23,0	28,8	40,3	46,1	51,8	77,1
AR-406025P-HT	EFE-406025-HT	25,2	50,3	62,9	88,1	100,7	113,3	168,7
AQ-414012P-HT	EFE-414012-HT	14,6	29,1	36,4	51,0	58,2	65,5	97,5
AQ-414020P-HT	EFE-414020-HT	18,3	36,6	45,8	64,1	73,3	82,4	122,7

Enclosure types (polyester)		Maximum power dissipation (W) Tamb. up to **95**°C		
		INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)	INTERNAL TEMP.127°C (T4/T135°C)
AQ-080806P-HT	EFE-080806-HT	0,9	1,7	5,6
AQ-080808P-HT	EFE-080808-HT	1,1	2,3	7,3
AR-081106P-HT	EFE-081106-HT	1,1	2,1	6,5
AR-081108P-HT	EFE-081108-HT	1,4	2,8	9,0
AR-081606P-HT	EFE-081606-HT	1,4	2,9	9,2
AR-081608P-HT	EFE-081608-HT	1,7	3,4	10,9
AR-081906P-HT	EFE-081906-HT	1,6	3,2	10,2
AR-081908P-HT	EFE-081908-HT	1,9	3,8	12,1
AR-082306P-HT	EFE-082306-HT	1,8	3,6	11,5
AR-082308P-HT	EFE-082308-HT	2,1	4,2	13,5
AQ-121209P-HT	EFE-121209-HT	2,0	4,0	12,8
AR-122209P-HT	EFE-122209-HT	2,7	5,4	17,3
AQ-161609P-HT	EFE-161609-HT	2,6	5,2	16,6
AR-162609P-HT	EFE-162609-HT	3,4	6,7	21,5
AR-163609P-HT	EFE-163609-HT	4,1	8,1	26,0
AR-165609P-HT	EFE-165609-HT	5,3	10,7	34,2
AQ-202017P-HT	EFE-202017-HT	4,5	9,0	28,7
AR-203017P-HT	EFE-203017-HT	5,2	10,4	33,4
AQ-252612P-HT	EFE-252612-HT	4,7	9,4	30,1
AQ-252616P-HT	EFE-252616-HT	5,2	10,4	33,2
AR-254012P-HT	EFE-254012-HT	5,7	11,4	36,5
AR-254016P-HT	EFE-254016-HT	6,5	13,1	41,9
AR-256012P-HT	EFE-256012-HT	7,3	14,5	46,4
AR-304020P-HT	EFE-304020-HT	8,1	16,2	51,8
AQ-363609P-HT	EFE-363609-HT	5,8	11,5	36,8
AR-406025P-HT	EFE-406025-HT	12,6	25,2	80,6
AQ-414012P-HT	EFE-414012-HT	7,3	14,6	46,6
AQ-414020P-HT	EFE-414020-HT	9,2	18,3	58,6

Power dissipation – HT aluminium alloy enclosures

Enclosure types (aluminium)		Maximum power dissipation (W) – Tamb. up to **40**°C							
		INTERNAL TEMP.60°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)	INTERNAL TEMP.130°C (T4/T135°C)
AQ-080806AL-HT	EFXE-080806AL-HT	5,2	7,8	10,4	11,7	14,3	15,6	16,9	23,4
AR-081306AL-HT	EFXE-081306AL-HT	7,0	10,6	14,1	15,9	19,4	21,2	23,0	31,8
AR-081806AL-HT	EFXE-081806AL-HT	8,9	13,3	17,8	20,0	24,5	26,7	28,9	40,0
AR-082505AL-HT	EFXE-082505AL-HT	10,9	16,4	21,9	24,7	30,1	32,9	35,6	49,4
AQ-101008AL-HT	EFXE-101008AL-HT	8,7	13,0	17,4	19,6	23,9	26,1	28,3	39,2
AR-101608AL-HT	EFXE-101608AL-HT	11,5	17,3	23,1	26,0	31,8	34,7	37,6	52,0
AR-102008AL-HT	EFXE-102008AL-HT	13,4	20,1	26,8	30,2	36,9	40,3	43,6	60,4
AQ-121208AL-HT	EFXE-121208AL-HT	10,8	16,2	21,6	24,3	29,7	32,4	35,1	48,6
AQ-121209AL-HT	EFXE-121209AL-HT	11,6	17,5	23,3	26,2	32,1	35,0	37,9	52,5
AR-122208AL-HT	EFXE-122208AL-HT	15,6	23,5	31,3	35,3	43,1	47,0	50,9	70,6
AR-122209AL-HT	EFXE-122209AL-HT	16,8	25,3	33,7	37,9	46,3	50,6	54,8	75,9
AR-123608AL-HT	EFXE-123608AL-HT	22,3	33,5	44,7	50,3	61,5	67,1	72,7	100,7
AQ-141409AL-HT	EFXE-141409AL-HT	13,7	20,6	27,5	31,0	37,9	41,3	44,8	62,0
AR-142009AL-HT	EFXE-142009AL-HT	17,1	25,7	34,2	38,5	47,1	51,4	55,7	77,1
AQ-161609AL-HT	EFXE-161609AL-HT	16,1	24,1	32,2	36,2	44,2	48,3	52,3	72,4
AR-162609AL-HT	EFXE-162609AL-HT	21,9	32,8	43,8	49,3	60,2	65,7	71,2	98,6
AR-163609AL-HT	EFXE-163609AL-HT	27,5	41,3	55,1	62,0	75,7	82,6	89,5	124,0
AR-165609AL-HT	EFXE-165609AL-HT	38,4	57,7	76,9	86,6	105,8	115,4	125,0	173,2
AQ-181810AL-HT	EFXE-181810AL-HT	19,7	29,6	39,5	44,4	54,3	59,2	64,2	88,8
AR-182810AL-HT	EFXE-182810AL-HT	26,1	39,1	52,2	58,7	71,8	78,3	84,8	117,5
AR-102311AL-HT	EFXE-102311AL-HT	18,2	27,3	36,5	41,0	50,1	54,7	59,3	82,1
AR-202311AL-HT	EFXE-202311AL-HT	26,1	39,1	52,2	58,7	71,7	78,3	84,8	117,4
AR-202318AL-HT	EFXE-202318AL-HT	35,9	53,9	71,8	80,8	98,8	107,8	116,8	161,7
AR-232811AL-HT	EFXE-232811AL-HT	31,6	47,5	63,3	71,3	87,1	95,0	103,0	142,6
AR-233311AL-HT	EFXE-233311AL-HT	35,3	52,9	70,6	79,4	97,0	105,9	114,7	158,8
AR-233318AL-HT	EFXE-233318AL-HT	47,5	71,3	95,1	107,0	130,8	142,7	154,6	214,1
AR-234011AL-HT	EFXE-234011AL-HT	40,2	60,4	80,5	90,6	110,7	120,8	130,9	181,2
AR-234023AL-HT	EFXE-234023AL-HT	62,2	93,3	124,5	140,0	171,2	186,7	202,3	280,1
AR-236011AL-HT	EFXE-236011AL-HT	54,1	81,2	108,3	121,9	148,9	162,5	176,0	243,8
AR-314011AL-HT	EFXE-314011AL-HT	48,6	72,9	97,2	109,3	133,6	145,8	157,9	218,7
AR-314014AL-HT	EFXE-314014AL-HT	54,9	82,4	109,9	123,7	151,2	164,9	178,7	247,4
AR-314018AL-HT	EFXE-314018AL-HT	63,8	95,7	127,6	143,5	175,4	191,4	207,3	287,1
AR-314023AL-HT	EFXE-314023AL-HT	73,5	110,3	147,1	165,5	202,3	220,7	239,1	331,0
AR-316011AL-HT	EFXE-316011AL-HT	64,0	96,0	128,1	144,1	176,1	192,1	208,1	288,2
AR-316018AL-HT	EFXE-316018AL-HT	82,7	124,1	165,5	186,2	227,6	248,3	268,9	372,4
AQ-606020AL-HT	EFXE-606020AL-HT	129,1	193,7	258,3	290,5	355,1	387,4	419,7	581,1

Enclosure types (aluminium)		Maximum power dissipation (W) – Tamb. up to **50**°C							
		INTERNAL TEMP.60°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)	INTERNAL TEMP.130°C (T4/T135°C)
AQ-080806AL-HT	EFXE-080806AL-HT	2,6	5,2	7,8	9,1	11,7	13,0	14,3	20,8
AR-081306AL-HT	EFXE-081306AL-HT	3,5	7,0	10,6	12,3	15,9	17,7	19,4	28,3
AR-081806AL-HT	EFXE-081806AL-HT	4,4	8,9	13,3	15,5	20,0	22,2	24,5	35,6
AR-082505AL-HT	EFXE-082505AL-HT	5,4	10,9	16,4	19,2	24,7	27,4	30,1	43,9
AQ-101008AL-HT	EFXE-101008AL-HT	4,3	8,7	13,0	15,2	19,6	21,7	23,9	34,8
AR-101608AL-HT	EFXE-101608AL-HT	5,7	11,5	17,3	20,2	26,0	28,9	31,8	46,2
AR-102008AL-HT	EFXE-102008AL-HT	6,7	13,4	20,1	23,5	30,2	33,5	36,9	53,7
AQ-121208AL-HT	EFXE-121208AL-HT	5,4	10,8	16,2	18,9	24,3	27,0	29,7	43,2
AQ-121209AL-HT	EFXE-121209AL-HT	5,8	11,6	17,5	20,4	26,2	29,2	32,1	46,7
AR-122208AL-HT	EFXE-122208AL-HT	7,8	15,6	23,5	27,4	35,3	39,2	43,1	62,7
AR-122209AL-HT	EFXE-122209AL-HT	8,4	16,8	25,3	29,5	37,9	42,1	46,3	67,4
AR-123608AL-HT	EFXE-123608AL-HT	11,1	22,3	33,5	39,1	50,3	55,9	61,5	89,5
AQ-141409AL-HT	EFXE-141409AL-HT	6,8	13,7	20,6	24,1	31,0	34,4	37,9	55,1
AR-142009AL-HT	EFXE-142009AL-HT	8,5	17,1	25,7	30,0	38,5	42,8	47,1	68,5
AQ-161609AL-HT	EFXE-161609AL-HT	8,0	16,1	24,1	28,1	36,2	40,2	44,2	64,4
AR-162609AL-HT	EFXE-162609AL-HT	10,9	21,9	32,8	38,3	49,3	54,8	60,2	87,6
AR-163609AL-HT	EFXE-163609AL-HT	13,7	27,5	41,3	48,2	62,0	68,9	75,7	110,2
AR-165609AL-HT	EFXE-165609AL-HT	19,2	38,4	57,7	67,3	86,6	96,2	105,8	153,9
AQ-181810AL-HT	EFXE-181810AL-HT	9,8	19,7	29,6	34,5	44,4	49,3	54,3	79,0
AR-182810AL-HT	EFXE-182810AL-HT	13,0	26,1	39,1	45,7	58,7	65,2	71,8	104,4
AR-102311AL-HT	EFXE-102311AL-HT	9,1	18,2	27,3	31,9	41,0	45,6	50,1	73,0
AR-202311AL-HT	EFXE-202311AL-HT	13,0	26,1	39,1	45,6	58,7	65,2	71,7	104,4
AR-202318AL-HT	EFXE-202318AL-HT	17,9	35,9	53,9	62,8	80,8	89,8	98,8	143,7
AR-232811AL-HT	EFXE-232811AL-HT	15,8	31,6	47,5	55,4	71,3	79,2	87,1	126,7
AR-233311AL-HT	EFXE-233311AL-HT	17,6	35,3	52,9	61,7	79,4	88,2	97,0	141,2
AR-233318AL-HT	EFXE-233318AL-HT	23,7	47,5	71,3	83,2	107,0	118,9	130,8	190,3
AR-234011AL-HT	EFXE-234011AL-HT	20,1	40,2	60,4	70,5	90,6	100,7	110,7	161,1
AR-234023AL-HT	EFXE-234023AL-HT	31,1	62,2	93,3	108,9	140,0	155,6	171,2	249,0
AR-236011AL-HT	EFXE-236011AL-HT	27,0	54,1	81,2	94,8	121,9	135,4	148,9	216,7
AR-314011AL-HT	EFXE-314011AL-HT	24,3	48,6	72,9	85,0	109,3	121,5	133,6	194,4
AR-314014AL-HT	EFXE-314014AL-HT	27,4	54,9	82,4	96,2	123,7	137,4	151,2	219,9
AR-314018AL-HT	EFXE-314018AL-HT	31,9	63,8	95,7	111,6	143,5	159,5	175,4	255,2
AR-314023AL-HT	EFXE-314023AL-HT	36,7	73,5	110,3	128,7	165,5	183,9	202,3	294,2
AR-316011AL-HT	EFXE-316011AL-HT	32,0	64,0	96,0	112,0	144,1	160,1	176,1	256,2
AR-316018AL-HT	EFXE-316018AL-HT	41,3	82,7	124,1	144,8	186,2	206,9	227,6	331,0
AQ-606020AL-HT	EFXE-606020AL-HT	64,5	129,1	193,7	226,0	290,5	322,8	355,1	516,6

Enclosure types (aluminium)		Maximum power dissipation (W) – Tamb. up to **55**°C							
		INTERNAL TEMP.65°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)	INTERNAL TEMP.130°C (T4/T135°C)
AQ-080806AL-HT	EFXE-080806AL-HT	2,6	3,9	6,5	7,8	10,4	11,7	13,0	19,5
AR-081306AL-HT	EFXE-081306AL-HT	3,5	5,3	8,8	10,6	14,1	15,9	17,7	26,5
AR-081806AL-HT	EFXE-081806AL-HT	4,4	6,6	11,1	13,3	17,8	20,0	22,2	33,4
AR-082505AL-HT	EFXE-082505AL-HT	5,4	8,2	13,7	16,4	21,9	24,7	27,4	41,1
AQ-101008AL-HT	EFXE-101008AL-HT	4,3	6,5	10,8	13,0	17,4	19,6	21,7	32,6
AR-101608AL-HT	EFXE-101608AL-HT	5,7	8,6	14,4	17,3	23,1	26,0	28,9	43,3
AR-102008AL-HT	EFXE-102008AL-HT	6,7	10,0	16,7	20,1	26,8	30,2	33,5	50,3
AQ-121208AL-HT	EFXE-121208AL-HT	5,4	8,1	13,5	16,2	21,6	24,3	27,0	40,5
AQ-121209AL-HT	EFXE-121209AL-HT	5,8	8,7	14,6	17,5	23,3	26,2	29,2	43,8
AR-122208AL-HT	EFXE-122208AL-HT	7,8	11,7	19,6	23,5	31,3	35,3	39,2	58,8
AR-122209AL-HT	EFXE-122209AL-HT	8,4	12,6	21,0	25,3	33,7	37,9	42,1	63,2
AR-123608AL-HT	EFXE-123608AL-HT	11,1	16,7	27,9	33,5	44,7	50,3	55,9	83,9
AQ-141409AL-HT	EFXE-141409AL-HT	6,8	10,3	17,2	20,6	27,5	31,0	34,4	51,7
AR-142009AL-HT	EFXE-142009AL-HT	8,5	12,8	21,4	25,7	34,2	38,5	42,8	64,3
AQ-161609AL-HT	EFXE-161609AL-HT	8,0	12,0	20,1	24,1	32,2	36,2	40,2	60,4
AR-162609AL-HT	EFXE-162609AL-HT	10,9	16,4	27,4	32,8	43,8	49,3	54,8	82,2
AR-163609AL-HT	EFXE-163609AL-HT	13,7	20,6	34,4	41,3	55,1	62,0	68,9	103,3
AR-165609AL-HT	EFXE-165609AL-HT	19,2	28,8	48,1	57,7	76,9	86,6	96,2	144,3
AQ-181810AL-HT	EFXE-181810AL-HT	9,8	14,8	24,6	29,6	39,5	44,4	49,3	74,0
AR-182810AL-HT	EFXE-182810AL-HT	13,0	19,5	32,6	39,1	52,2	58,7	65,2	97,9
AR-102311AL-HT	EFXE-102311AL-HT	9,1	13,6	22,8	27,3	36,5	41,0	45,6	68,4
AR-202311AL-HT	EFXE-202311AL-HT	13,0	19,5	32,6	39,1	52,2	58,7	65,2	97,9
AR-202318AL-HT	EFXE-202318AL-HT	17,9	26,9	44,9	53,9	71,8	80,8	89,8	134,7
AR-232811AL-HT	EFXE-232811AL-HT	15,8	23,7	39,6	47,5	63,3	71,3	79,2	118,8
AR-233311AL-HT	EFXE-233311AL-HT	17,6	26,4	44,1	52,9	70,6	79,4	88,2	132,3
AR-233318AL-HT	EFXE-233318AL-HT	23,7	35,6	59,4	71,3	95,1	107,0	118,9	178,4
AR-234011AL-HT	EFXE-234011AL-HT	20,1	30,2	50,3	60,4	80,5	90,6	100,7	151,0
AR-234023AL-HT	EFXE-234023AL-HT	31,1	46,6	77,8	93,3	124,5	140,0	155,6	233,4
AR-236011AL-HT	EFXE-236011AL-HT	27,0	40,6	67,7	81,2	108,3	121,9	135,4	203,1
AR-314011AL-HT	EFXE-314011AL-HT	24,3	36,4	60,7	72,9	97,2	109,3	121,5	182,3
AR-314014AL-HT	EFXE-314014AL-HT	27,4	41,2	68,7	82,4	109,9	123,7	137,4	206,2
AR-314018AL-HT	EFXE-314018AL-HT	31,9	47,8	79,7	95,7	127,6	143,5	159,5	239,2
AR-314023AL-HT	EFXE-314023AL-HT	36,7	55,1	91,9	110,3	147,1	165,5	183,9	275,8
AR-316011AL-HT	EFXE-316011AL-HT	32,0	48,0	80,0	96,0	128,1	144,1	160,1	240,1
AR-316018AL-HT	EFXE-316018AL-HT	41,3	62,0	103,4	124,1	165,5	186,2	206,9	310,3
AQ-606020AL-HT	EFXE-606020AL-HT	64,5	96,8	161,4	193,7	258,3	290,5	322,8	484,3

Enclosure types (aluminium)		Maximum power dissipation (W) – Tamb. up to **60**°C						
		INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)	INTERNAL TEMP.130°C (T4/T135°C)
AQ-080806AL-HT	EFXE-080806AL-HT	2,6	5,2	6,5	9,1	10,4	11,7	18,2
AR-081306AL-HT	EFXE-081306AL-HT	3,5	7,0	8,8	12,3	14,1	15,9	24,7
AR-081806AL-HT	EFXE-081806AL-HT	4,4	8,9	11,1	15,5	17,8	20,0	31,1
AR-082505AL-HT	EFXE-082505AL-HT	5,4	10,9	13,7	19,2	21,9	24,7	38,4
AQ-101008AL-HT	EFXE-101008AL-HT	4,3	8,7	10,8	15,2	17,4	19,6	30,4
AR-101608AL-HT	EFXE-101608AL-HT	5,7	11,5	14,4	20,2	23,1	26,0	40,5
AR-102008AL-HT	EFXE-102008AL-HT	6,7	13,4	16,7	23,5	26,8	30,2	47,0
AQ-121208AL-HT	EFXE-121208AL-HT	5,4	10,8	13,5	18,9	21,6	24,3	37,8
AQ-121209AL-HT	EFXE-121209AL-HT	5,8	11,6	14,6	20,4	23,3	26,2	40,8
AR-122208AL-HT	EFXE-122208AL-HT	7,8	15,6	19,6	27,4	31,3	35,3	54,9
AR-122209AL-HT	EFXE-122209AL-HT	8,4	16,8	21,0	29,5	33,7	37,9	59,0
AR-123608AL-HT	EFXE-123608AL-HT	11,1	22,3	27,9	39,1	44,7	50,3	78,3
AQ-141409AL-HT	EFXE-141409AL-HT	6,8	13,7	17,2	24,1	27,5	31,0	48,2
AR-142009AL-HT	EFXE-142009AL-HT	8,5	17,1	21,4	30,0	34,2	38,5	60,0
AQ-161609AL-HT	EFXE-161609AL-HT	8,0	16,1	20,1	28,1	32,2	36,2	56,3
AR-162609AL-HT	EFXE-162609AL-HT	10,9	21,9	27,4	38,3	43,8	49,3	76,7
AR-163609AL-HT	EFXE-163609AL-HT	13,7	27,5	34,4	48,2	55,1	62,0	96,4
AR-165609AL-HT	EFXE-165609AL-HT	19,2	38,4	48,1	67,3	76,9	86,6	134,7
AQ-181810AL-HT	EFXE-181810AL-HT	9,8	19,7	24,6	34,5	39,5	44,4	69,1
AR-182810AL-HT	EFXE-182810AL-HT	13,0	26,1	32,6	45,7	52,2	58,7	91,4
AR-102311AL-HT	EFXE-102311AL-HT	9,1	18,2	22,8	31,9	36,5	41,0	63,8
AR-202311AL-HT	EFXE-202311AL-HT	13,0	26,1	32,6	45,6	52,2	58,7	91,3
AR-202318AL-HT	EFXE-202318AL-HT	17,9	35,9	44,9	62,8	71,8	80,8	125,7
AR-232811AL-HT	EFXE-232811AL-HT	15,8	31,6	39,6	55,4	63,3	71,3	110,9
AR-233311AL-HT	EFXE-233311AL-HT	17,6	35,3	44,1	61,7	70,6	79,4	123,5
AR-233318AL-HT	EFXE-233318AL-HT	23,7	47,5	59,4	83,2	95,1	107,0	166,5
AR-234011AL-HT	EFXE-234011AL-HT	20,1	40,2	50,3	70,5	80,5	90,6	141,0
AR-234023AL-HT	EFXE-234023AL-HT	31,1	62,2	77,8	108,9	124,5	140,0	217,9
AR-236011AL-HT	EFXE-236011AL-HT	27,0	54,1	67,7	94,8	108,3	121,9	189,6
AR-314011AL-HT	EFXE-314011AL-HT	24,3	48,6	60,7	85,0	97,2	109,3	170,1
AR-314014AL-HT	EFXE-314014AL-HT	27,4	54,9	68,7	96,2	109,9	123,7	192,4
AR-314018AL-HT	EFXE-314018AL-HT	31,9	63,8	79,7	111,6	127,6	143,5	223,3
AR-314023AL-HT	EFXE-314023AL-HT	36,7	73,5	91,9	128,7	147,1	165,5	257,4
AR-316011AL-HT	EFXE-316011AL-HT	32,0	64,0	80,0	112,0	128,1	144,1	224,1
AR-316018AL-HT	EFXE-316018AL-HT	41,3	82,7	103,4	144,8	165,5	186,2	289,6
AQ-606020AL-HT	EFXE-606020AL-HT	64,5	129,1	161,4	226,0	258,3	290,5	452,0

Enclosure types (aluminium)		Maximum power dissipation (W) Tamb. up to **95**°C		
		INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)	INTERNAL TEMP.130°C (T4/T135°C)
AQ-080806AL-HT	EFXE-080806AL-HT	1,3	2,6	9,1
AR-081306AL-HT	EFXE-081306AL-HT	1,7	3,5	12,3
AR-081806AL-HT	EFXE-081806AL-HT	2,2	4,4	15,5
AR-082505AL-HT	EFXE-082505AL-HT	2,7	5,4	19,2
AQ-101008AL-HT	EFXE-101008AL-HT	2,1	4,3	15,2
AR-101608AL-HT	EFXE-101608AL-HT	2,8	5,7	20,2
AR-102008AL-HT	EFXE-102008AL-HT	3,3	6,7	23,5
AQ-121208AL-HT	EFXE-121208AL-HT	2,7	5,4	18,9
AQ-121209AL-HT	EFXE-121209AL-HT	2,9	5,8	20,4
AR-122208AL-HT	EFXE-122208AL-HT	3,9	7,8	27,4
AR-122209AL-HT	EFXE-122209AL-HT	4,2	8,4	29,5
AR-123608AL-HT	EFXE-123608AL-HT	5,5	11,1	39,1
AQ-141409AL-HT	EFXE-141409AL-HT	3,4	6,8	24,1
AR-142009AL-HT	EFXE-142009AL-HT	4,2	8,5	30,0
AQ-161609AL-HT	EFXE-161609AL-HT	4,0	8,0	28,1
AR-162609AL-HT	EFXE-162609AL-HT	5,4	10,9	38,3
AR-163609AL-HT	EFXE-163609AL-HT	6,8	13,7	48,2
AR-165609AL-HT	EFXE-165609AL-HT	9,6	19,2	67,3
AQ-181810AL-HT	EFXE-181810AL-HT	4,9	9,8	34,5
AR-182810AL-HT	EFXE-182810AL-HT	6,5	13,0	45,7
AR-102311AL-HT	EFXE-102311AL-HT	4,5	9,1	31,9
AR-202311AL-HT	EFXE-202311AL-HT	6,5	13,0	45,6
AR-202318AL-HT	EFXE-202318AL-HT	8,9	17,9	62,8
AR-232811AL-HT	EFXE-232811AL-HT	7,9	15,8	55,4
AR-233311AL-HT	EFXE-233311AL-HT	8,8	17,6	61,7
AR-233318AL-HT	EFXE-233318AL-HT	11,8	23,7	83,2
AR-234011AL-HT	EFXE-234011AL-HT	10,0	20,1	70,5
AR-234023AL-HT	EFXE-234023AL-HT	15,5	31,1	108,9
AR-236011AL-HT	EFXE-236011AL-HT	13,5	27,0	94,8
AR-314011AL-HT	EFXE-314011AL-HT	12,1	24,3	85,0
AR-314014AL-HT	EFXE-314014AL-HT	13,7	27,4	96,2
AR-314018AL-HT	EFXE-314018AL-HT	15,9	31,9	111,6
AR-314023AL-HT	EFXE-314023AL-HT	18,3	36,7	128,7
AR-316011AL-HT	EFXE-316011AL-HT	16,0	32,0	112,0
AR-316018AL-HT	EFXE-316018AL-HT	20,6	41,3	144,8
AQ-606020AL-HT	EFXE-606020AL-HT	32,2	64,5	226,0

Power dissipation – Glass fiber reinforced polyester resin enclosures

Enclosure types (polyester)		Maximum power dissipation (W) – Tamb. up to **40**°C						
		INTERNAL TEMP.60°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
AQ-080806P	EFE-080806	3,4	5,2	6,9	7,8	9,5	10,4	11,3
AQ-080808P	EFE-080808	4,5	6,8	9,1	10,2	12,5	13,6	14,7
AR-081106P	EFE-081106	4,2	6,4	8,5	9,6	11,7	12,8	13,8
AR-081606P	EFE-081606	5,7	8,6	11,5	13,0	15,9	17,3	18,8
AR-081906P	EFE-081906	6,4	9,6	12,8	14,4	17,6	19,2	20,8
AQ-121209P	EFE-121209	7,9	11,9	15,9	17,9	21,9	23,9	25,9
AR-122209P	EFE-122209	10,8	16,2	21,6	24,3	29,7	32,4	35,1
AQ-161609P	EFE-161609	10,3	15,5	20,7	23,3	28,5	31,1	33,7
AR-162609P	EFE-162609	13,4	20,1	26,8	30,1	36,8	40,2	43,5
AR-163609P	EFE-163609	16,2	24,3	32,4	36,4	44,5	48,6	52,6
AQ-252612P	EFE-252612	18,8	28,2	37,6	42,3	51,7	56,4	61,1
AQ-252616P	EFE-252616	21,7	32,6	43,5	49,0	59,9	65,3	70,8
AR-254012P	EFE-254012	23,9	35,9	47,9	53,9	65,9	71,8	77,8
AR-254016P	EFE-254016	27,4	41,2	54,9	61,8	75,6	82,4	89,3
AR-256012P	EFE-256012	29,0	43,5	58,0	65,3	79,8	87,1	94,3
AQ-414012P	EFE-414012	29,1	43,6	58,2	65,5	80,0	87,3	94,6
AQ-414016P	EFE-414016	32,9	49,4	65,9	74,1	90,6	98,8	107,0

Enclosure types (polyester)		Maximum power dissipation (W) – Tamb. up to **50**°C						
		INTERNAL TEMP.60°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
AQ-080806P	EFE-080806	1,7	3,4	5,2	6,0	7,8	8,7	9,5
AQ-080808P	EFE-080808	2,2	4,5	6,8	7,9	10,2	11,3	12,5
AR-081106P	EFE-081106	2,1	4,2	6,4	7,4	9,6	10,6	11,7
AR-081606P	EFE-081606	2,8	5,7	8,6	10,1	13,0	14,4	15,9
AR-081906P	EFE-081906	3,2	6,4	9,6	11,2	14,4	16,0	17,6
AQ-121209P	EFE-121209	3,9	7,9	11,9	13,9	17,9	19,9	21,9
AR-122209P	EFE-122209	5,4	10,8	16,2	18,9	24,3	27,0	29,7
AQ-161609P	EFE-161609	5,1	10,3	15,5	18,1	23,3	25,9	28,5
AR-162609P	EFE-162609	6,7	13,4	20,1	23,4	30,1	33,5	36,8
AR-163609P	EFE-163609	8,1	16,2	24,3	28,3	36,4	40,5	44,5
AQ-252612P	EFE-252612	9,4	18,8	28,2	32,9	42,3	47,0	51,7
AQ-252616P	EFE-252616	10,8	21,7	32,6	38,1	49,0	54,4	59,9
AR-254012P	EFE-254012	11,9	23,9	35,9	41,9	53,9	59,9	65,9
AR-254016P	EFE-254016	13,7	27,4	41,2	48,1	61,8	68,7	75,6
AR-256012P	EFE-256012	14,5	29,0	43,5	50,8	65,3	72,6	79,8
AQ-414012P	EFE-414012	14,5	29,1	43,6	50,9	65,5	72,7	80,0
AQ-414016P	EFE-414016	16,4	32,9	49,4	57,6	74,1	82,3	90,6

Enclosure types (polyester)		Maximum power dissipation (W) – Tamb. up to **55**°C						
		INTERNAL TEMP.65°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
AQ-080806P	EFE-080806	1,7	2,6	4,3	5,2	6,9	7,8	8,7
AQ-080808P	EFE-080808	2,2	3,4	5,6	6,8	9,1	10,2	11,3
AR-081106P	EFE-081106	2,1	3,2	5,3	6,4	8,5	9,6	10,6
AR-081606P	EFE-081606	2,8	4,3	7,2	8,6	11,5	13,0	14,4
AR-081906P	EFE-081906	3,2	4,8	8,0	9,6	12,8	14,4	16,0
AQ-121209P	EFE-121209	3,9	5,9	9,9	11,9	15,9	17,9	19,9
AR-122209P	EFE-122209	5,4	8,1	13,5	16,2	21,6	24,3	27,0
AQ-161609P	EFE-161609	5,1	7,7	12,9	15,5	20,7	23,3	25,9
AR-162609P	EFE-162609	6,7	10,0	16,7	20,1	26,8	30,1	33,5
AR-163609P	EFE-163609	8,1	12,1	20,2	24,3	32,4	36,4	40,5
AQ-252612P	EFE-252612	9,4	14,1	23,5	28,2	37,6	42,3	47,0
AQ-252616P	EFE-252616	10,8	16,3	27,2	32,6	43,5	49,0	54,4
AR-254012P	EFE-254012	11,9	17,9	29,9	35,9	47,9	53,9	59,9
AR-254016P	EFE-254016	13,7	20,6	34,3	41,2	54,9	61,8	68,7
AR-256012P	EFE-256012	14,5	21,7	36,3	43,5	58,0	65,3	72,6
AQ-414012P	EFE-414012	14,5	21,8	36,3	43,6	58,2	65,5	72,7
AQ-414016P	EFE-414016	16,4	24,7	41,1	49,4	65,9	74,1	82,3

Enclosure types (polyester)		Maximum power dissipation (W) – Tamb. up to **60**°C					
		INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
AQ-080806P	EFE-080806	1,7	3,4	4,3	6,0	6,9	7,8
AQ-080808P	EFE-080808	2,2	4,5	5,6	7,9	9,1	10,2
AR-081106P	EFE-081106	2,1	4,2	5,3	7,4	8,5	9,6
AR-081606P	EFE-081606	2,8	5,7	7,2	10,1	11,5	13,0
AR-081906P	EFE-081906	3,2	6,4	8,0	11,2	12,8	14,4
AQ-121209P	EFE-121209	3,9	7,9	9,9	13,9	15,9	17,9
AR-122209P	EFE-122209	5,4	10,8	13,5	18,9	21,6	24,3
AQ-161609P	EFE-161609	5,1	10,3	12,9	18,1	20,7	23,3
AR-162609P	EFE-162609	6,7	13,4	16,7	23,4	26,8	30,1
AR-163609P	EFE-163609	8,1	16,2	20,2	28,3	32,4	36,4
AQ-252612P	EFE-252612	9,4	18,8	23,5	32,9	37,6	42,3
AQ-252616P	EFE-252616	10,8	21,7	27,2	38,1	43,5	49,0
AR-254012P	EFE-254012	11,9	23,9	29,9	41,9	47,9	53,9
AR-254016P	EFE-254016	13,7	27,4	34,3	48,1	54,9	61,8
AR-256012P	EFE-256012	14,5	29,0	36,3	50,8	58,0	65,3
AQ-414012P	EFE-414012	14,5	29,1	36,3	50,9	58,2	65,5
AQ-414016P	EFE-414016	16,4	32,9	41,1	57,6	65,9	74,1

Enclosure types (polyester)		Maximum power dissipation (W) – Tamb. up to **95**°C	
		INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
AQ-080806P	EFE-080806	0,8	1,7
AQ-080808P	EFE-080808	1,1	2,2
AR-081106P	EFE-081106	1,0	2,1
AR-081606P	EFE-081606	1,4	2,8
AR-081906P	EFE-081906	1,6	3,2
AQ-121209P	EFE-121209	1,9	3,9
AR-122209P	EFE-122209	2,7	5,4
AQ-161609P	EFE-161609	2,5	5,1
AR-162609P	EFE-162609	3,3	6,7
AR-163609P	EFE-163609	4,0	8,1
AQ-252612P	EFE-252612	4,7	9,4
AQ-252616P	EFE-252616	5,4	10,8
AR-254012P	EFE-254012	5,9	11,9
AR-254016P	EFE-254016	6,8	13,7
AR-256012P	EFE-256012	7,2	14,5
AQ-414012P	EFE-414012	7,2	14,5
AQ-414016P	EFE-414016	8,2	16,4

Power dissipation – Aluminium alloy enclosures

Enclosure types (aluminium)		Maximum power dissipation (W) – Tamb. up to **40**°C						
		INTERNAL TEMP.60°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
AQ-080806AL	EFXE-080806AL	5,2	7,8	10,4	11,7	14,3	15,6	16,9
AR-081306AL	EFXE-081306AL	7,0	10,6	14,1	15,9	19,4	21,2	23,0
AR-081806AL	EFXE-081806AL	8,9	13,3	17,8	20,0	24,5	26,7	28,9
AR-081808AL	EFXE-081808AL	11,0	16,5	22,1	24,8	30,4	33,1	35,9
AR-082505AL	EFXE-082505AL	10,7	16,1	21,4	24,1	29,5	32,2	34,8
AR-082508AL	EFXE-082508AL	14,2	21,4	28,5	32,1	39,2	42,8	46,4
AQ-101008AL	EFXE-101008AL	8,7	13,0	17,4	19,6	23,9	26,1	28,3
AR-101508AL	EFXE-101508AL	11,1	16,6	22,2	24,9	30,5	33,3	36,0
AR-101608AL	EFXE-101608AL	11,5	17,3	23,1	26,0	31,8	34,7	37,6
AR-102008AL	EFXE-102008AL	13,4	20,1	26,8	30,2	36,9	40,3	43,6
AQ-121208AL	EFXE-121208AL	10,8	16,2	21,6	24,3	29,7	32,4	35,1
AR-122209AL	EFXE-122209AL	16,8	25,3	33,7	37,9	46,3	50,6	54,8
AQ-141409AL	EFXE-141409AL	13,7	20,6	27,5	31,0	37,9	41,3	44,8
AR-142009AL	EFXE-142009AL	17,1	25,7	34,2	38,5	47,1	51,4	55,7
AQ-161609AL	EFXE-161609AL	17,2	25,8	34,4	38,7	47,3	51,6	55,9
AR-162410AL	EFXE-162410AL	22,1	33,1	44,2	49,7	60,8	66,3	71,8
AR-162609AL	EFXE-162609AL	21,9	32,8	43,8	49,3	60,2	65,7	71,2
AQ-181810AL	EFXE-181810AL	19,7	29,6	39,5	44,4	54,3	59,2	64,2
AR-182810AL	EFXE-182810AL	26,1	39,1	52,2	58,7	71,8	78,3	84,8
AR-202311AL	EFXE-202311AL	25,8	38,7	51,6	58,0	71,0	77,4	83,9
AR-202318AL	EFXE-202318AL	35,5	53,3	71,1	80,0	97,8	106,7	115,6
AR-232811AL	EFXE-232811AL	31,6	47,5	63,3	71,3	87,1	95,0	103,0
AR-233312AL	EFXE-233312AL	37,0	55,6	74,1	83,4	101,9	111,2	120,5
AR-233318AL	EFXE-233318AL	47,5	71,3	95,1	107,0	130,8	142,7	154,6

Enclosure types (aluminium)		Maximum power dissipation (W) – Tamb. up to **50**°C						
		INTERNAL TEMP.60°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
AQ-080806AL	EFXE-080806AL	2,6	5,2	7,8	9,1	11,7	13,0	14,3
AR-081306AL	EFXE-081306AL	3,5	7,0	10,6	12,3	15,9	17,7	19,4
AR-081806AL	EFXE-081806AL	4,4	8,9	13,3	15,5	20,0	22,2	24,5
AR-081808AL	EFXE-081808AL	5,5	11,0	16,5	19,3	24,8	27,6	30,4
AR-082505AL	EFXE-082505AL	5,3	10,7	16,1	18,7	24,1	26,8	29,5
AR-082508AL	EFXE-082508AL	7,1	14,2	21,4	24,9	32,1	35,7	39,2
AQ-101008AL	EFXE-101008AL	4,3	8,7	13,0	15,2	19,6	21,7	23,9
AR-101508AL	EFXE-101508AL	5,5	11,1	16,6	19,4	24,9	27,7	30,5
AR-101608AL	EFXE-101608AL	5,7	11,5	17,3	20,2	26,0	28,9	31,8
AR-102008AL	EFXE-102008AL	6,7	13,4	20,1	23,5	30,2	33,5	36,9
AQ-121208AL	EFXE-121208AL	5,4	10,8	16,2	18,9	24,3	27,0	29,7
AR-122209AL	EFXE-122209AL	8,4	16,8	25,3	29,5	37,9	42,1	46,3
AQ-141409AL	EFXE-141409AL	6,8	13,7	20,6	24,1	31,0	34,4	37,9
AR-142009AL	EFXE-142009AL	8,5	17,1	25,7	30,0	38,5	42,8	47,1
AQ-161609AL	EFXE-161609AL	8,6	17,2	25,8	30,1	38,7	43,0	47,3
AR-162410AL	EFXE-162410AL	11,0	22,1	33,1	38,7	49,7	55,3	60,8
AR-162609AL	EFXE-162609AL	10,9	21,9	32,8	38,3	49,3	54,8	60,2
AQ-181810AL	EFXE-181810AL	9,8	19,7	29,6	34,5	44,4	49,3	54,3
AR-182810AL	EFXE-182810AL	13,0	26,1	39,1	45,7	58,7	65,2	71,8
AR-202311AL	EFXE-202311AL	12,9	25,8	38,7	45,1	58,0	64,5	71,0
AR-202318AL	EFXE-202318AL	17,7	35,5	53,3	62,2	80,0	88,9	97,8
AR-232811AL	EFXE-232811AL	15,8	31,6	47,5	55,4	71,3	79,2	87,1
AR-233312AL	EFXE-233312AL	18,5	37,0	55,6	64,8	83,4	92,7	101,9
AR-233318AL	EFXE-233318AL	23,7	47,5	71,3	83,2	107,0	118,9	130,8

Enclosure types (aluminium)		Maximum power dissipation (W) – Tamb. up to **55**°C						
		INTERNAL TEMP.65°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
AQ-080806AL	EFXE-080806AL	2,6	3,9	6,5	7,8	10,4	11,7	13,0
AR-081306AL	EFXE-081306AL	3,5	5,3	8,8	10,6	14,1	15,9	17,7
AR-081806AL	EFXE-081806AL	4,4	6,6	11,1	13,3	17,8	20,0	22,2
AR-081808AL	EFXE-081808AL	5,5	8,2	13,8	16,5	22,1	24,8	27,6
AR-082505AL	EFXE-082505AL	5,3	8,0	13,4	16,1	21,4	24,1	26,8
AR-082508AL	EFXE-082508AL	7,1	10,7	17,8	21,4	28,5	32,1	35,7
AQ-101008AL	EFXE-101008AL	4,3	6,5	10,8	13,0	17,4	19,6	21,7
AR-101508AL	EFXE-101508AL	5,5	8,3	13,8	16,6	22,2	24,9	27,7
AR-101608AL	EFXE-101608AL	5,7	8,6	14,4	17,3	23,1	26,0	28,9
AR-102008AL	EFXE-102008AL	6,7	10,0	16,7	20,1	26,8	30,2	33,5
AQ-121208AL	EFXE-121208AL	5,4	8,1	13,5	16,2	21,6	24,3	27,0
AR-122209AL	EFXE-122209AL	8,4	12,6	21,0	25,3	33,7	37,9	42,1
AQ-141409AL	EFXE-141409AL	6,8	10,3	17,2	20,6	27,5	31,0	34,4
AR-142009AL	EFXE-142009AL	8,5	12,8	21,4	25,7	34,2	38,5	42,8
AQ-161609AL	EFXE-161609AL	8,6	12,9	21,5	25,8	34,4	38,7	43,0
AR-162410AL	EFXE-162410AL	11,0	16,5	27,6	33,1	44,2	49,7	55,3
AR-162609AL	EFXE-162609AL	10,9	16,4	27,4	32,8	43,8	49,3	54,8
AQ-181810AL	EFXE-181810AL	9,8	14,8	24,6	29,6	39,5	44,4	49,3
AR-182810AL	EFXE-182810AL	13,0	19,5	32,6	39,1	52,2	58,7	65,2
AR-202311AL	EFXE-202311AL	12,9	19,3	32,2	38,7	51,6	58,0	64,5
AR-202318AL	EFXE-202318AL	17,7	26,6	44,4	53,3	71,1	80,0	88,9
AR-232811AL	EFXE-232811AL	15,8	23,7	39,6	47,5	63,3	71,3	79,2
AR-233312AL	EFXE-233312AL	18,5	27,8	46,3	55,6	74,1	83,4	92,7
AR-233318AL	EFXE-233318AL	23,7	35,6	59,4	71,3	95,1	107,0	118,9

Enclosure types (aluminium)		Maximum power dissipation (W) – Tamb. up to **60**°C					
		INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
AQ-080806AL	EFXE-080806AL	2,6	5,2	6,5	9,1	10,4	11,7
AR-081306AL	EFXE-081306AL	3,5	7,0	8,8	12,3	14,1	15,9
AR-081806AL	EFXE-081806AL	4,4	8,9	11,1	15,5	17,8	20,0
AR-081808AL	EFXE-081808AL	5,5	11,0	13,8	19,3	22,1	24,8
AR-082505AL	EFXE-082505AL	5,3	10,7	13,4	18,7	21,4	24,1
AR-082508AL	EFXE-082508AL	7,1	14,2	17,8	24,9	28,5	32,1
AQ-101008AL	EFXE-101008AL	4,3	8,7	10,8	15,2	17,4	19,6
AR-101508AL	EFXE-101508AL	5,5	11,1	13,8	19,4	22,2	24,9
AR-101608AL	EFXE-101608AL	5,7	11,5	14,4	20,2	23,1	26,0
AR-102008AL	EFXE-102008AL	6,7	13,4	16,7	23,5	26,8	30,2
AQ-121208AL	EFXE-121208AL	5,4	10,8	13,5	18,9	21,6	24,3
AR-122209AL	EFXE-122209AL	8,4	16,8	21,0	29,5	33,7	37,9
AQ-141409AL	EFXE-141409AL	6,8	13,7	17,2	24,1	27,5	31,0
AR-142009AL	EFXE-142009AL	8,5	17,1	21,4	30,0	34,2	38,5
AQ-161609AL	EFXE-161609AL	8,6	17,2	21,5	30,1	34,4	38,7
AR-162410AL	EFXE-162410AL	11,0	22,1	27,6	38,7	44,2	49,7
AR-162609AL	EFXE-162609AL	10,9	21,9	27,4	38,3	43,8	49,3
AQ-181810AL	EFXE-181810AL	9,8	19,7	24,6	34,5	39,5	44,4
AR-182810AL	EFXE-182810AL	13,0	26,1	32,6	45,7	52,2	58,7
AR-202311AL	EFXE-202311AL	12,9	25,8	32,2	45,1	51,6	58,0
AR-202318AL	EFXE-202318AL	17,7	35,5	44,4	62,2	71,1	80,0
AR-232811AL	EFXE-232811AL	15,8	31,6	39,6	55,4	63,3	71,3
AR-233312AL	EFXE-233312AL	18,5	37,0	46,3	64,8	74,1	83,4
AR-233318AL	EFXE-233318AL	23,7	47,5	59,4	83,2	95,1	107,0

Enclosure types (aluminium)		Maximum power dissipation (W) – Tamb. up to **95**°C	
		INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
AQ-080806AL	EFXE-080806AL	1,3	2,6
AR-081306AL	EFXE-081306AL	1,7	3,5
AR-081806AL	EFXE-081806AL	2,2	4,4
AR-081808AL	EFXE-081808AL	2,7	5,5
AR-082505AL	EFXE-082505AL	2,6	5,3
AR-082508AL	EFXE-082508AL	3,5	7,1
AQ-101008AL	EFXE-101008AL	2,1	4,3
AR-101508AL	EFXE-101508AL	2,7	5,5
AR-101608AL	EFXE-101608AL	2,8	5,7
AR-102008AL	EFXE-102008AL	3,3	6,7
AQ-121208AL	EFXE-121208AL	2,7	5,4
AR-122209AL	EFXE-122209AL	4,2	8,4
AQ-141409AL	EFXE-141409AL	3,4	6,8
AR-142009AL	EFXE-142009AL	4,2	8,5
AQ-161609AL	EFXE-161609AL	4,3	8,6
AR-162410AL	EFXE-162410AL	5,5	11,0
AR-162609AL	EFXE-162609AL	5,4	10,9
AQ-181810AL	EFXE-181810AL	4,9	9,8
AR-182810AL	EFXE-182810AL	6,5	13,0
AR-202311AL	EFXE-202311AL	6,4	12,9
AR-202318AL	EFXE-202318AL	8,8	17,7
AR-232811AL	EFXE-232811AL	7,9	15,8
AR-233312AL	EFXE-233312AL	9,2	18,5
AR-233318AL	EFXE-233318AL	11,8	23,7

Power dissipation – Stainless steel enclosures SB series

Enclosure types (stainless steel)		Maximum power dissipation (W) – Tamb. up to **40**°C						
		INTERNAL TEMP.60°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
SB-101210	EFXE-101210SB	5,5	8,3	11,1	12,5	15,3	16,7	18,1
SB-151510	EFXE-151510SB	8,0	12,0	16,0	18,0	22,0	24,0	26,1
SB-142013	EFXE-142013SB	10,4	15,7	20,9	23,5	28,8	31,4	34,0
SB-202010	EFXE-202010SB	10,7	16,1	21,4	24,1	29,5	32,2	34,8
SB-202016	EFXE-202016SB	13,9	20,8	27,8	31,3	38,3	41,7	45,2
SB-202713	EFXE-202713SB	14,4	21,6	28,9	32,5	39,7	43,3	46,9
SB-272713	EFXE-272713SB	16,7	25,1	33,5	37,7	46,0	50,2	54,4
SB-203016	EFXE-203016SB	17,1	25,7	34,3	38,6	47,2	51,4	55,7
SB-273513	EFXE-273513SB	19,2	28,9	38,5	43,3	53,0	57,8	62,6
SB-282816	EFXE-282816SB	19,3	29,0	38,7	43,6	53,3	58,1	63,0
SB-204016	EFXE-204016SB	20,2	30,3	40,4	45,5	55,6	60,6	65,7
SB-353516	EFXE-353516SB	24,4	36,6	48,8	54,9	67,1	73,2	79,3
SB-282827	EFXE-282827SB	26,2	39,3	52,5	59,0	72,2	78,7	85,3
SB-355016	EFXE-355016SB	29,7	44,5	59,4	66,8	81,7	89,1	96,6
SB-383816	EFXE-383816SB	26,6	39,9	53,2	59,8	73,1	79,8	86,5
SB-384516	EFXE-384516SB	29,1	43,7	58,3	65,6	80,2	87,5	94,8
SB-385716	EFXE-385716SB	33,4	50,1	66,8	75,2	91,9	100,3	108,7
SB-505016	EFXE-505016SB	35,8	53,8	71,7	80,7	98,6	107,6	116,6
SB-383827	EFXE-383827SB	35,1	52,7	70,2	79,0	96,6	105,4	114,2
SB-575716	EFXE-575716SB	41,5	62,3	83,1	93,5	114,3	124,7	135,1
SB-577620	EFXE-577620SB	53,9	80,9	107,9	121,3	148,3	161,8	175,3
SB-575730	EFXE-575730SB	55,8	83,7	111,6	125,6	153,5	167,5	181,4
SB-769520	EFXE-769520SB	72,2	108,3	144,4	162,4	198,5	216,6	234,6
SB-1258040	EFXE-1258040SB	72,2	108,3	144,4	162,4	198,5	216,6	234,6

Enclosure types (Stainless steel)		Maximum power dissipation (W) – Tamb. up to **50**°C						
		INTERNAL TEMP.60°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
SB-101210	EFXE-101210SB	2,7	5,5	8,3	9,7	12,5	13,9	15,3
SB-151510	EFXE-151510SB	4,0	8,0	12,0	14,0	18,0	20,0	22,0
SB-142013	EFXE-142013SB	5,2	10,4	15,7	18,3	23,5	26,2	28,8
SB-202010	EFXE-202010SB	5,3	10,7	16,1	18,7	24,1	26,8	29,5
SB-202016	EFXE-202016SB	6,9	13,9	20,8	24,3	31,3	34,8	38,3
SB-202713	EFXE-202713SB	7,2	14,4	21,6	25,2	32,5	36,1	39,7
SB-272713	EFXE-272713SB	8,3	16,7	25,1	29,3	37,7	41,8	46,0
SB-203016	EFXE-203016SB	8,5	17,1	25,7	30,0	38,6	42,9	47,2
SB-273513	EFXE-273513SB	9,6	19,2	28,9	33,7	43,3	48,2	53,0
SB-282816	EFXE-282816SB	9,6	19,3	29,0	33,9	43,6	48,4	53,3
SB-204016	EFXE-204016SB	10,1	20,2	30,3	35,4	45,5	50,5	55,6
SB-353516	EFXE-353516SB	12,2	24,4	36,6	42,7	54,9	61,0	67,1
SB-282827	EFXE-282827SB	13,1	26,2	39,3	45,9	59,0	65,6	72,2
SB-355016	EFXE-355016SB	14,8	29,7	44,5	52,0	66,8	74,3	81,7
SB-383816	EFXE-383816SB	13,3	26,6	39,9	46,5	59,8	66,5	73,1
SB-384516	EFXE-384516SB	14,5	29,1	43,7	51,0	65,6	72,9	80,2
SB-385716	EFXE-385716SB	16,7	33,4	50,1	58,5	75,2	83,6	91,9
SB-505016	EFXE-505016SB	17,9	35,8	53,8	62,7	80,7	89,7	98,6
SB-383827	EFXE-383827SB	17,5	35,1	52,7	61,4	79,0	87,8	96,6
SB-575716	EFXE-575716SB	20,7	41,5	62,3	72,7	93,5	103,9	114,3
SB-577620	EFXE-577620SB	26,9	53,9	80,9	94,4	121,3	134,8	148,3
SB-575730	EFXE-575730SB	27,9	55,8	83,7	97,7	125,6	139,5	153,5
SB-769520	EFXE-769520SB	36,1	72,2	108,3	126,3	162,4	180,5	198,5
SB-1258040	EFXE-1258040SB	36,1	72,2	108,3	126,3	162,4	180,5	198,5

Enclosure types (Stainless steel)		Maximum power dissipation (W) – Tamb. up to **55**°C						
		INTERNAL TEMP.65°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
SB-101210	EFXE-101210SB	2,7	4,1	6,9	8,3	11,1	12,5	13,9
SB-151510	EFXE-151510SB	4,0	6,0	10,0	12,0	16,0	18,0	20,0
SB-142013	EFXE-142013SB	5,2	7,8	13,1	15,7	20,9	23,5	26,2
SB-202010	EFXE-202010SB	5,3	8,0	13,4	16,1	21,4	24,1	26,8
SB-202016	EFXE-202016SB	6,9	10,4	17,4	20,8	27,8	31,3	34,8
SB-202713	EFXE-202713SB	7,2	10,8	18,0	21,6	28,9	32,5	36,1
SB-272713	EFXE-272713SB	8,3	12,5	20,9	25,1	33,5	37,7	41,8
SB-203016	EFXE-203016SB	8,5	12,8	21,4	25,7	34,3	38,6	42,9
SB-273513	EFXE-273513SB	9,6	14,4	24,1	28,9	38,5	43,3	48,2
SB-282816	EFXE-282816SB	9,6	14,5	24,2	29,0	38,7	43,6	48,4
SB-204016	EFXE-204016SB	10,1	15,1	25,2	30,3	40,4	45,5	50,5
SB-353516	EFXE-353516SB	12,2	18,3	30,5	36,6	48,8	54,9	61,0
SB-282827	EFXE-282827SB	13,1	19,6	32,8	39,3	52,5	59,0	65,6
SB-355016	EFXE-355016SB	14,8	22,2	37,1	44,5	59,4	66,8	74,3
SB-383816	EFXE-383816SB	13,3	19,9	33,2	39,9	53,2	59,8	66,5
SB-384516	EFXE-384516SB	14,5	21,8	36,4	43,7	58,3	65,6	72,9
SB-385716	EFXE-385716SB	16,7	25,0	41,8	50,1	66,8	75,2	83,6
SB-505016	EFXE-505016SB	17,9	26,9	44,8	53,8	71,7	80,7	89,7
SB-383827	EFXE-383827SB	17,5	26,3	43,9	52,7	70,2	79,0	87,8
SB-575716	EFXE-575716SB	20,7	31,1	51,9	62,3	83,1	93,5	103,9
SB-577620	EFXE-577620SB	26,9	40,4	67,4	80,9	107,9	121,3	134,8
SB-575730	EFXE-575730SB	27,9	41,8	69,7	83,7	111,6	125,6	139,5
SB-769520	EFXE-769520SB	36,1	54,1	90,2	108,3	144,4	162,4	180,5
SB-1258040	EFXE-1258040SB	36,1	54,1	90,2	108,3	144,4	162,4	180,5

Enclosure types (Stainless steel)		Maximum power dissipation (W) – Tamb. up to **60**°C					
		INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
SB-101210	EFXE-101210SB	2,7	5,5	6,9	9,7	11,1	12,5
SB-151510	EFXE-151510SB	4,0	8,0	10,0	14,0	16,0	18,0
SB-142013	EFXE-142013SB	5,2	10,4	13,1	18,3	20,9	23,5
SB-202010	EFXE-202010SB	5,3	10,7	13,4	18,7	21,4	24,1
SB-202016	EFXE-202016SB	6,9	13,9	17,4	24,3	27,8	31,3
SB-202713	EFXE-202713SB	7,2	14,4	18,0	25,2	28,9	32,5
SB-272713	EFXE-272713SB	8,3	16,7	20,9	29,3	33,5	37,7
SB-203016	EFXE-203016SB	8,5	17,1	21,4	30,0	34,3	38,6
SB-273513	EFXE-273513SB	9,6	19,2	24,1	33,7	38,5	43,3
SB-282816	EFXE-282816SB	9,6	19,3	24,2	33,9	38,7	43,6
SB-204016	EFXE-204016SB	10,1	20,2	25,2	35,4	40,4	45,5
SB-353516	EFXE-353516SB	12,2	24,4	30,5	42,7	48,8	54,9
SB-282827	EFXE-282827SB	13,1	26,2	32,8	45,9	52,5	59,0
SB-355016	EFXE-355016SB	14,8	29,7	37,1	52,0	59,4	66,8
SB-383816	EFXE-383816SB	13,3	26,6	33,2	46,5	53,2	59,8
SB-384516	EFXE-384516SB	14,5	29,1	36,4	51,0	58,3	65,6
SB-385716	EFXE-385716SB	16,7	33,4	41,8	58,5	66,8	75,2
SB-505016	EFXE-505016SB	17,9	35,8	44,8	62,7	71,7	80,7
SB-383827	EFXE-383827SB	17,5	35,1	43,9	61,4	70,2	79,0
SB-575716	EFXE-575716SB	20,7	41,5	51,9	72,7	83,1	93,5
SB-577620	EFXE-577620SB	26,9	53,9	67,4	94,4	107,9	121,3
SB-575730	EFXE-575730SB	27,9	55,8	69,7	97,7	111,6	125,6
SB-769520	EFXE-769520SB	36,1	72,2	90,2	126,3	144,4	162,4
SB-1258040	EFXE-1258040SB	36,1	72,2	90,2	126,3	144,4	162,4

Enclosure types (Stainless steel)		Maximum power dissipation (W) – Tamb. up to **95**°C	
		INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
SB-101210	EFXE-101210SB	1,3	2,7
SB-151510	EFXE-151510SB	2,0	4,0
SB-142013	EFXE-142013SB	2,6	5,2
SB-202010	EFXE-202010SB	2,6	5,3
SB-202016	EFXE-202016SB	3,4	6,9
SB-202713	EFXE-202713SB	3,6	7,2
SB-272713	EFXE-272713SB	4,1	8,3
SB-203016	EFXE-203016SB	4,2	8,5
SB-273513	EFXE-273513SB	4,8	9,6
SB-282816	EFXE-282816SB	4,8	9,6
SB-204016	EFXE-204016SB	5,0	10,1
SB-353516	EFXE-353516SB	6,1	12,2
SB-282827	EFXE-282827SB	6,5	13,1
SB-355016	EFXE-355016SB	7,4	14,8
SB-383816	EFXE-383816SB	6,6	13,3
SB-384516	EFXE-384516SB	7,2	14,5
SB-385716	EFXE-385716SB	8,3	16,7
SB-505016	EFXE-505016SB	8,9	17,9
SB-383827	EFXE-383827SB	8,7	17,5
SB-575716	EFXE-575716SB	10,3	20,7
SB-577620	EFXE-577620SB	13,4	26,9
SB-575730	EFXE-575730SB	13,9	27,9
SB-769520	EFXE-769520SB	18,0	36,1
SB-1258040	EFXE-1258040SB	18,0	36,1

Power dissipation – Stainless steel enclosures ST series

Enclosure types (Stainless steel)		Maximum power dissipation (W) – Tamb. up to **40**°C						
		INTERNAL TEMP.60°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
ST-101210	EFXE-101210ST	5,5	8,3	11,1	12,5	15,3	16,7	18,1
ST-151510	EFXE-151510ST	8,0	12,0	16,0	18,0	22,0	24,0	26,1
ST-142013	EFXE-142013ST	10,4	15,7	20,9	23,5	28,8	31,4	34,0
ST-202010	EFXE-202010ST	10,7	16,1	21,4	24,1	29,5	32,2	34,8
ST-202016	EFXE-202016ST	13,9	20,8	27,8	31,3	38,3	41,7	45,2
ST-202713	EFXE-202713ST	14,4	21,6	28,9	32,5	39,7	43,3	46,9
ST-272713	EFXE-272713ST	16,7	25,1	33,5	37,7	46,0	50,2	54,4
ST-203016	EFXE-203016ST	17,1	25,7	34,3	38,6	47,2	51,4	55,7
ST-273513	EFXE-273513ST	19,2	28,9	38,5	43,3	53,0	57,8	62,6
ST-282816	EFXE-282816ST	19,3	29,0	38,7	43,6	53,3	58,1	63,0
ST-204016	EFXE-204016ST	20,2	30,3	40,4	45,5	55,6	60,6	65,7
ST-353516	EFXE-353516ST	24,4	36,6	48,8	54,9	67,1	73,2	79,3
ST-282827	EFXE-282827ST	26,2	39,3	52,5	59,0	72,2	78,7	85,3
ST-355016	EFXE-355016ST	29,7	44,5	59,4	66,8	81,7	89,1	96,6
ST-383816	EFXE-383816ST	26,6	39,9	53,2	59,8	73,1	79,8	86,5
ST-384516	EFXE-384516ST	29,1	43,7	58,3	65,6	80,2	87,5	94,8
ST-385716	EFXE-385716ST	33,4	50,1	66,8	75,2	91,9	100,3	108,7
ST-505016	EFXE-505016ST	35,8	53,8	71,7	80,7	98,6	107,6	116,6
ST-383827	EFXE-383827ST	35,1	52,7	70,2	79,0	96,6	105,4	114,2
ST-575716	EFXE-575716ST	41,5	62,3	83,1	93,5	114,3	124,7	135,1
ST-577620	EFXE-577620ST	53,9	80,9	107,9	121,3	148,3	161,8	175,3
ST-575730	EFXE-575730ST	55,8	83,7	111,6	125,6	153,5	167,5	181,4
ST-769520	EFXE-769520ST	72,2	108,3	144,4	162,4	198,5	216,6	234,6
ST-1258040	EFXE-1258040ST	72,2	108,3	144,4	162,4	198,5	216,6	234,6

Enclosure types (Stainless steel)		Maximum power dissipation (W) – Tamb. up to **50**°C						
		INTERNAL TEMP.60°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
ST-101210	EFXE-101210ST	2,7	5,5	8,3	9,7	12,5	13,9	15,3
ST-151510	EFXE-151510ST	4,0	8,0	12,0	14,0	18,0	20,0	22,0
ST-142013	EFXE-142013ST	5,2	10,4	15,7	18,3	23,5	26,2	28,8
ST-202010	EFXE-202010ST	5,3	10,7	16,1	18,7	24,1	26,8	29,5
ST-202016	EFXE-202016ST	6,9	13,9	20,8	24,3	31,3	34,8	38,3
ST-202713	EFXE-202713ST	7,2	14,4	21,6	25,2	32,5	36,1	39,7
ST-272713	EFXE-272713ST	8,3	16,7	25,1	29,3	37,7	41,8	46,0
ST-203016	EFXE-203016ST	8,5	17,1	25,7	30,0	38,6	42,9	47,2
ST-273513	EFXE-273513ST	9,6	19,2	28,9	33,7	43,3	48,2	53,0
ST-282816	EFXE-282816ST	9,6	19,3	29,0	33,9	43,6	48,4	53,3
ST-204016	EFXE-204016ST	10,1	20,2	30,3	35,4	45,5	50,5	55,6
ST-353516	EFXE-353516ST	12,2	24,4	36,6	42,7	54,9	61,0	67,1
ST-282827	EFXE-282827ST	13,1	26,2	39,3	45,9	59,0	65,6	72,2
ST-355016	EFXE-355016ST	14,8	29,7	44,5	52,0	66,8	74,3	81,7
ST-383816	EFXE-383816ST	13,3	26,6	39,9	46,5	59,8	66,5	73,1
ST-384516	EFXE-384516ST	14,5	29,1	43,7	51,0	65,6	72,9	80,2
ST-385716	EFXE-385716ST	16,7	33,4	50,1	58,5	75,2	83,6	91,9
ST-505016	EFXE-505016ST	17,9	35,8	53,8	62,7	80,7	89,7	98,6
ST-383827	EFXE-383827ST	17,5	35,1	52,7	61,4	79,0	87,8	96,6
ST-575716	EFXE-575716ST	20,7	41,5	62,3	72,7	93,5	103,9	114,3
ST-577620	EFXE-577620ST	26,9	53,9	80,9	94,4	121,3	134,8	148,3
ST-575730	EFXE-575730ST	27,9	55,8	83,7	97,7	125,6	139,5	153,5
ST-769520	EFXE-769520ST	36,1	72,2	108,3	126,3	162,4	180,5	198,5
ST-1258040	EFXE-1258040ST	36,1	72,2	108,3	126,3	162,4	180,5	198,5

Enclosure types (Stainless steel)		Maximum power dissipation (W) – Tamb. up to **55**°C						
		INTERNAL TEMP.65°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
ST-101210	EFXE-101210ST	2,7	4,1	6,9	8,3	11,1	12,5	13,9
ST-151510	EFXE-151510ST	4,0	6,0	10,0	12,0	16,0	18,0	20,0
ST-142013	EFXE-142013ST	5,2	7,8	13,1	15,7	20,9	23,5	26,2
ST-202010	EFXE-202010ST	5,3	8,0	13,4	16,1	21,4	24,1	26,8
ST-202016	EFXE-202016ST	6,9	10,4	17,4	20,8	27,8	31,3	34,8
ST-202713	EFXE-202713ST	7,2	10,8	18,0	21,6	28,9	32,5	36,1
ST-272713	EFXE-272713ST	8,3	12,5	20,9	25,1	33,5	37,7	41,8
ST-203016	EFXE-203016ST	8,5	12,8	21,4	25,7	34,3	38,6	42,9
ST-273513	EFXE-273513ST	9,6	14,4	24,1	28,9	38,5	43,3	48,2
ST-282816	EFXE-282816ST	9,6	14,5	24,2	29,0	38,7	43,6	48,4
ST-204016	EFXE-204016ST	10,1	15,1	25,2	30,3	40,4	45,5	50,5
ST-353516	EFXE-353516ST	12,2	18,3	30,5	36,6	48,8	54,9	61,0
ST-282827	EFXE-282827ST	13,1	19,6	32,8	39,3	52,5	59,0	65,6
ST-355016	EFXE-355016ST	14,8	22,2	37,1	44,5	59,4	66,8	74,3
ST-383816	EFXE-383816ST	13,3	19,9	33,2	39,9	53,2	59,8	66,5
ST-384516	EFXE-384516ST	14,5	21,8	36,4	43,7	58,3	65,6	72,9
ST-385716	EFXE-385716ST	16,7	25,0	41,8	50,1	66,8	75,2	83,6
ST-505016	EFXE-505016ST	17,9	26,9	44,8	53,8	71,7	80,7	89,7
ST-383827	EFXE-383827ST	17,5	26,3	43,9	52,7	70,2	79,0	87,8
ST-575716	EFXE-575716ST	20,7	31,1	51,9	62,3	83,1	93,5	103,9
ST-577620	EFXE-577620ST	26,9	40,4	67,4	80,9	107,9	121,3	134,8
ST-575730	EFXE-575730ST	27,9	41,8	69,7	83,7	111,6	125,6	139,5
ST-769520	EFXE-769520ST	36,1	54,1	90,2	108,3	144,4	162,4	180,5
ST-1258040	EFXE-1258040ST	36,1	54,1	90,2	108,3	144,4	162,4	180,5

Enclosure types (Stainless steel)		Maximum power dissipation (W) – Tamb. up to **60**°C					
		INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
ST-101210	EFXE-101210ST	2,7	5,5	6,9	9,7	11,1	12,5
ST-151510	EFXE-151510ST	4,0	8,0	10,0	14,0	16,0	18,0
ST-142013	EFXE-142013ST	5,2	10,4	13,1	18,3	20,9	23,5
ST-202010	EFXE-202010ST	5,3	10,7	13,4	18,7	21,4	24,1
ST-202016	EFXE-202016ST	6,9	13,9	17,4	24,3	27,8	31,3
ST-202713	EFXE-202713ST	7,2	14,4	18,0	25,2	28,9	32,5
ST-272713	EFXE-272713ST	8,3	16,7	20,9	29,3	33,5	37,7
ST-203016	EFXE-203016ST	8,5	17,1	21,4	30,0	34,3	38,6
ST-273513	EFXE-273513ST	9,6	19,2	24,1	33,7	38,5	43,3
ST-282816	EFXE-282816ST	9,6	19,3	24,2	33,9	38,7	43,6
ST-204016	EFXE-204016ST	10,1	20,2	25,2	35,4	40,4	45,5
ST-353516	EFXE-353516ST	12,2	24,4	30,5	42,7	48,8	54,9
ST-282827	EFXE-282827ST	13,1	26,2	32,8	45,9	52,5	59,0
ST-355016	EFXE-355016ST	14,8	29,7	37,1	52,0	59,4	66,8
ST-383816	EFXE-383816ST	13,3	26,6	33,2	46,5	53,2	59,8
ST-384516	EFXE-384516ST	14,5	29,1	36,4	51,0	58,3	65,6
ST-385716	EFXE-385716ST	16,7	33,4	41,8	58,5	66,8	75,2
ST-505016	EFXE-505016ST	17,9	35,8	44,8	62,7	71,7	80,7
ST-383827	EFXE-383827ST	17,5	35,1	43,9	61,4	70,2	79,0
ST-575716	EFXE-575716ST	20,7	41,5	51,9	72,7	83,1	93,5
ST-577620	EFXE-577620ST	26,9	53,9	67,4	94,4	107,9	121,3
ST-575730	EFXE-575730ST	27,9	55,8	69,7	97,7	111,6	125,6
ST-769520	EFXE-769520ST	36,1	72,2	90,2	126,3	144,4	162,4
ST-1258040	EFXE-1258040ST	36,1	72,2	90,2	126,3	144,4	162,4

Enclosure types (Stainless steel)		Maximum power dissipation (W) – Tamb. up to **95**°C	
		INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
ST-101210	EFXE-101210ST	1,3	2,7
ST-151510	EFXE-151510ST	2,0	4,0
ST-142013	EFXE-142013ST	2,6	5,2
ST-202010	EFXE-202010ST	2,6	5,3
ST-202016	EFXE-202016ST	3,4	6,9
ST-202713	EFXE-202713ST	3,6	7,2
ST-272713	EFXE-272713ST	4,1	8,3
ST-203016	EFXE-203016ST	4,2	8,5
ST-273513	EFXE-273513ST	4,8	9,6
ST-282816	EFXE-282816ST	4,8	9,6
ST-204016	EFXE-204016ST	5,0	10,1
ST-353516	EFXE-353516ST	6,1	12,2
ST-282827	EFXE-282827ST	6,5	13,1
ST-355016	EFXE-355016ST	7,4	14,8
ST-383816	EFXE-383816ST	6,6	13,3
ST-384516	EFXE-384516ST	7,2	14,5
ST-385716	EFXE-385716ST	8,3	16,7
ST-505016	EFXE-505016ST	8,9	17,9
ST-383827	EFXE-383827ST	8,7	17,5
ST-575716	EFXE-575716ST	10,3	20,7
ST-577620	EFXE-577620ST	13,4	26,9
ST-575730	EFXE-575730ST	13,9	27,9
ST-769520	EFXE-769520ST	18,0	36,1
ST-1258040	EFXE-1258040ST	18,0	36,1

Maximum Power Dissipation calculation

The values specified in the tables as per clause 2.1.1 may be modified within the maximum admitted Tamb and maximum admitted internal temperature as follows.

$$Pdiss\ (W) = \frac{Tmax - Tamb}{Rth}$$

$Rth = A \times (\text{enclosure surface in } mm^2 \text{ except enclosure bottom})^B$

Legend:
Rth – Thermal resistance [K/W].
Tmax – Maximum allowed temperature inside enclosure.
Tamb – Ambient temperature of enclosure
A and B - coefficients determined for each series of enclosure. Exact values are given in manufacturer's documentation.

Warning labels:

WARNING – DO NOT OPEN WHEN ENERGIZED (*)
(*) Not mandatory for apparatus with protection type Ex ia Ga and Ex ib Gb.

WARNING – POTENTIAL ELECTROSTATIC CHARGING HAZARD – SEE INSTRUCTIONS

To be added when the enclosures or parts of them have a surface resistance more than 10^9 Ω or 10^{11} Ω according to IEC 60079-0 Clause 7.4.2 a), as applicable, and as per following cases:

- are equipped with transparent parts made of polycarbonate.
- for category II 2 G / EPL Gb Gas group IIC: are painted and the paint layer thickness is > 0.2mm.
- for category II 2 G / EPL Gb Gas group IIB: are painted and the paint layer thickness is > 2mm.
- for category II 2 D / EPL Db: are painted and the paint layer thickness is > 2mm.
- for category II 2 G / EPL Gb Gas group IIC: not conductive individual materials (labels), applied on painted enclosures, have exposed (chargeable area) > 2000mm^2 or, not conductive individual materials (labels), applied on unpainted (conductive earthed surface) enclosures, have exposed (chargeable area) > 8000mm^2.
- for category II 2 G /EPL Gb Gas group IIB: not conductive individual materials (labels), applied on painted enclosures, have exposed (chargeable area) > 10000mm^2 or, not conductive individual materials (labels), applied on unpainted (conductive earthed surface) enclosures, have exposed (chargeable area) > 40000mm^2.

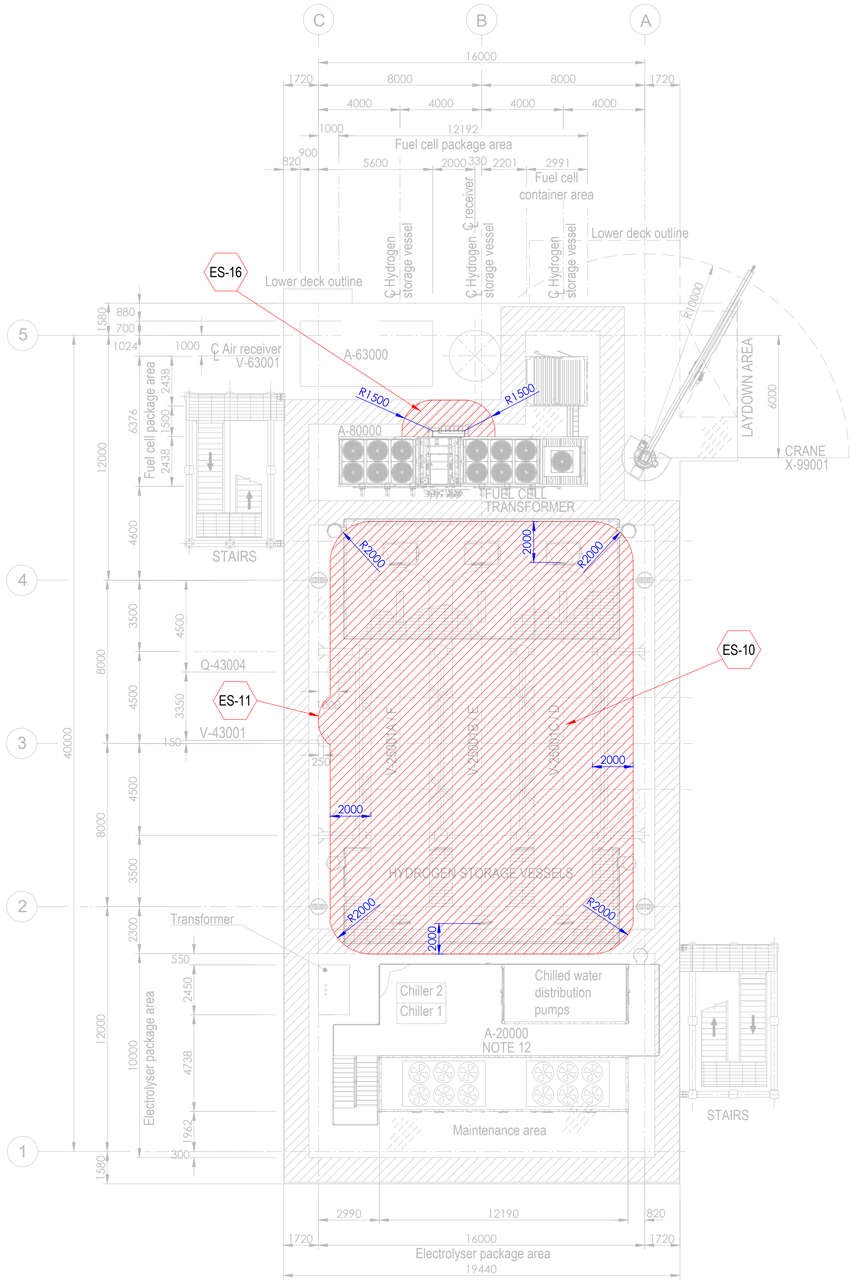
OPEN THE VALVE ONLY WHEN THE APPARATUS IS DE-ENERGIZED AND ONLY WHEN AN EXPLOSIVE DUST ATMOSPHERE IS NOT PRESENT
To be added on Ex tb apparatus equipped with the drain / venting device ECR3.

Other warnings depend on the components actually mounted, according to the component manufacturer's documentation.

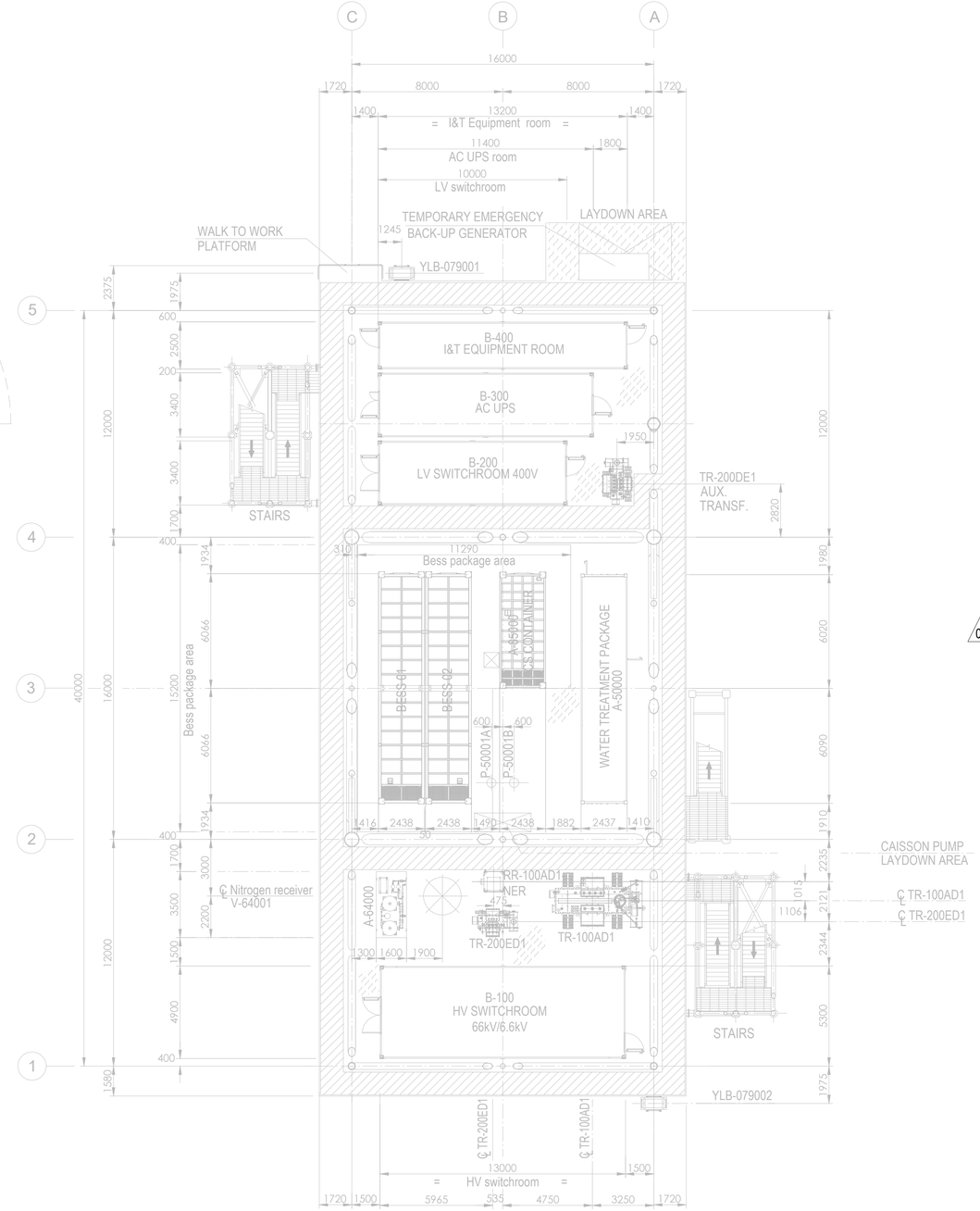
The tables below state the maximum power dissipation values (W) related to the internal temperature (Tint) and ambient temperature (Tamb).

DRAWING NO. 123A90-DDL-SAF-DL-30022

REV. 02



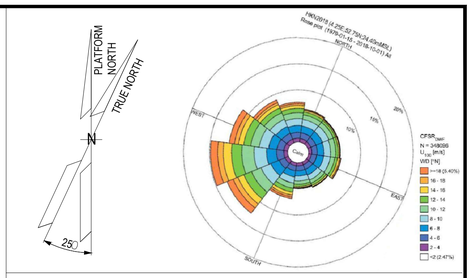
PLAN ON UPPER DECK
EL+30.310 T.O.S.



PLAN ON LOWER DECK
EL+23.310 T.O.S.

Tag No.	Equipment Tag	Description	Material	Ventilation Type
01	P-50001 A/B	SEA WATER LIFT PUMPS	SEA WATER	NATURAL (OPEN AREA)
02	Q-43004	HYDROGEN VENT	HYDROGEN	NATURAL (OPEN AREA)
03	V-43001	HYDROGEN VENT KO DRUM	HYDROGEN	NATURAL (OPEN AREA)
04	V-25001 (A/B/C/D/E/F)	HYDROGEN STORAGE VESSELS	HYDROGEN	NATURAL (OPEN AREA)
05	V-63001	AIR RECEIVER	INSTRUMENT AIR	NATURAL (OPEN AREA)
06	A-20000	ELECTROLYSER PACKAGE		
07	A-63000	INSTRUMENT AIR PACKAGE		
08	A-80000	FUEL CELL PACKAGE		
09	A-85000	BESS PACKAGE		
10	YLB-079001/2	LIFE RAFTS		
11	A-50000	WATER TREATMENT PACKAGE		

Tag No.	Equipment Tag	Description	Material	Ventilation Type
12	A-64000	NITROGEN SYSTEM		
13	B-100	HV SWITCHROOM 66kV/6.6kV		
14	B-200	LV SWITCHROOM 400V		
15	B-300	AC UPS EQUIPMENT ROOM		
16	B-400	I&T EQUIPMENT ROOM		
17	TR-100AD1	TRANSFORMER MAIN 66kV/6.6kV		
18	RR-100AD1-NER	NEUTRAL EARTHING RESISTOR		
19	TR-200DE1	TRANSFORMER AUX. 6.6kV/0.4kV		
20	TR-200ED1	SOLAR TRANSFORMER PV FARM EQUIPMENT		
21	X-99001	CRANE		
22	V-64001	NITROGEN RECEIVER		



NOTES

1. ALL DIMENSIONS IN mm U.N.O.
2. ALL ELEVATIONS IN METERS.
3. PLATFORM NORTH DIRECTION IS N 25°W.
4. VENT TOP SHALL BE REACHEABLE FOR MAINTENANCE PURPOSE.
5. THE BESS IS CONSIDERED SAFE AREA EXCEPT EXTRACTORES FROM BATTERIES , CURRENTLY NOT SHOWN IN DRAWINGS, SINCE INFORMATION FROM VENDOR IS NOT YET AVAILABLE.[ES17].
6. THE LOCATION OF EMISSION SOURCES ON THE LAYOUT ARE ONLY INDICATIVE. EMISSION SOURCES CONSIDERED ARE PRESENT WITHIN THE EXTENSION OF HAZARDOUS CLASSIFIED AREAS SHOWN ON THE LAYOUT. THIS IS BECAUSE VALVES AND FLANGES,WHICH ARE CONSIDERED POTENTIAL SOURCES OF RELEASE POINTS FOR FLAMMABLE GAS ARE NOT SHOWN ON CURRENT LAYOUT PROVIDED. THE SAME APPLIES TO THE EMISSION SOURCES FOR CPI'S ITEM.
7. IDENTIFIED EMISSION SOURCES DETAIL.

02
8. FOR DETAILS RELATED TO ELECTROLYSER PACKAGE INTERNAL ENCLOSURES REFER TO DRAWING 224J10-DDL-PP-DA-00001 REV 0.
9. FOR DETAILS RELATED TO FUELL CELL PACKAGE INTERNAL ENCLOSURES REFER TO DRAWING K559-2254-CWIWP4202202-B01-001 REV 009".
10. THE N.6 HYDROGEN STORAGE VESSELS ARE NOT CLASSIFIED INTERNALLY SINCE THEY ARE DESIGNED TO CONTAIN HYDROGEN OR NITROGEN FOR THE ENTIRE DURATION OF THE 2 YEARS OF OPERATION.

EMISSION SOURCE No.	IDENTIFIED AREAS
ES10	HYDROGEN STORAGE VESSLES
ES11	HYDROGEN VENT KO DRUM
ES16	FUEL CELL

LEGEND

ZONE 0 — ZONE 1

ZONE 2 — ES EMISSION SOURCES

123A90-DDL-PP-DS-70071	PLOT PLAN - BELOW LOWER DECK
123A90-DDL-PP-DS-70072	PLOT PLAN - ELEVATION LOOKING NORTH & EAST

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	15/01/25	MMA	CCA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	27/08/24	MMA	CCA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	08/02/24	MMA	CCA	DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND

ROSETTI MARINO

TITLE :
BASE LOAD POWER HUB (BLPH)
HAZARDOUS AREA CLASSIFICATION
LOWER & UPPER DECK

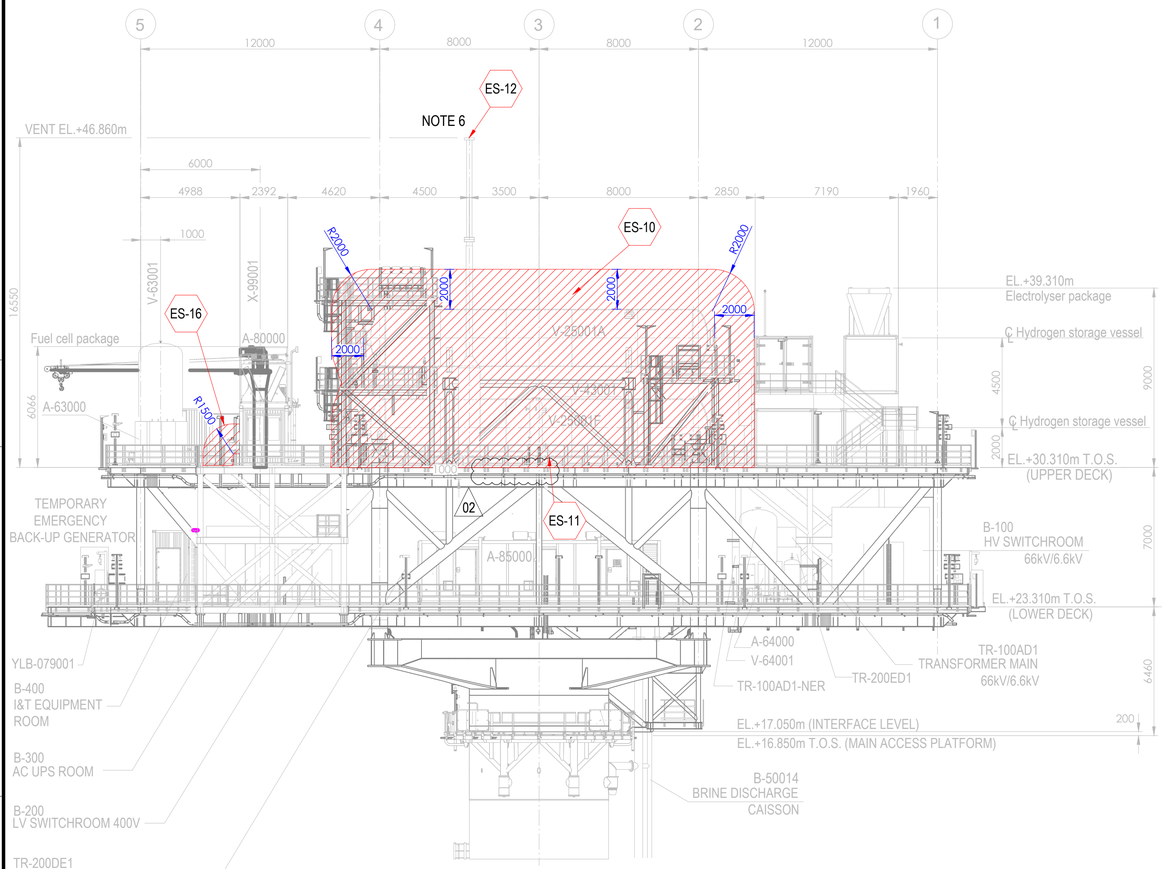
CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK			SCALE 1:150
DRAWN M. MAGNI	CHECKED C. CARACCIOLO	APPROVED D. LO STERZO	DATE 03/07/24

	DRAWING NO.	SHEET	REV.
A1	123A90-DDL-SAF-DL-30022	001	02

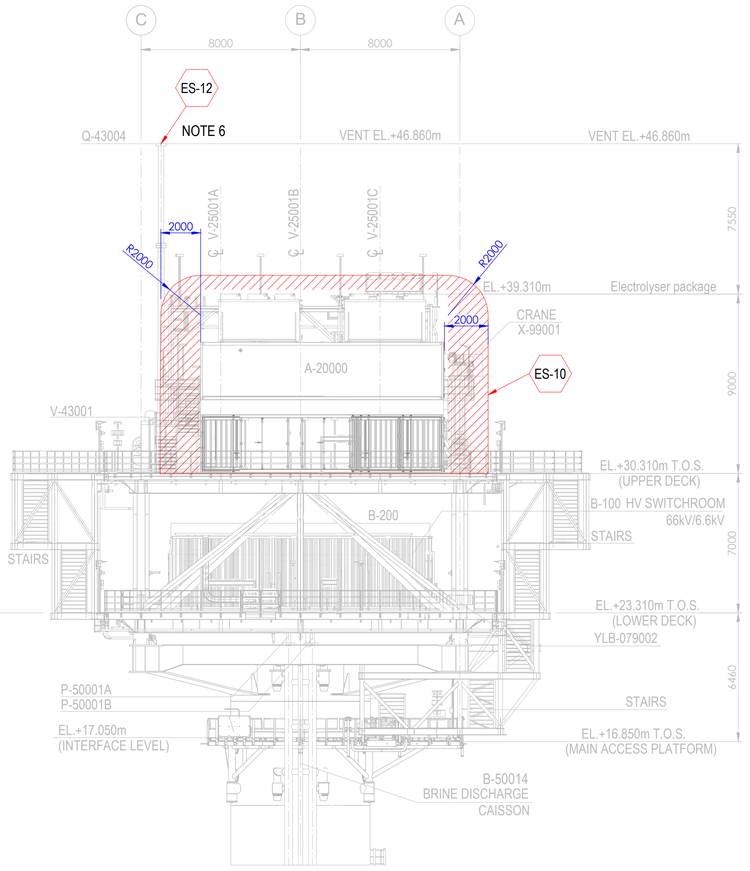
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DRAWING NO. 123A90-DDL-SAF-DL-30024

REV. 02

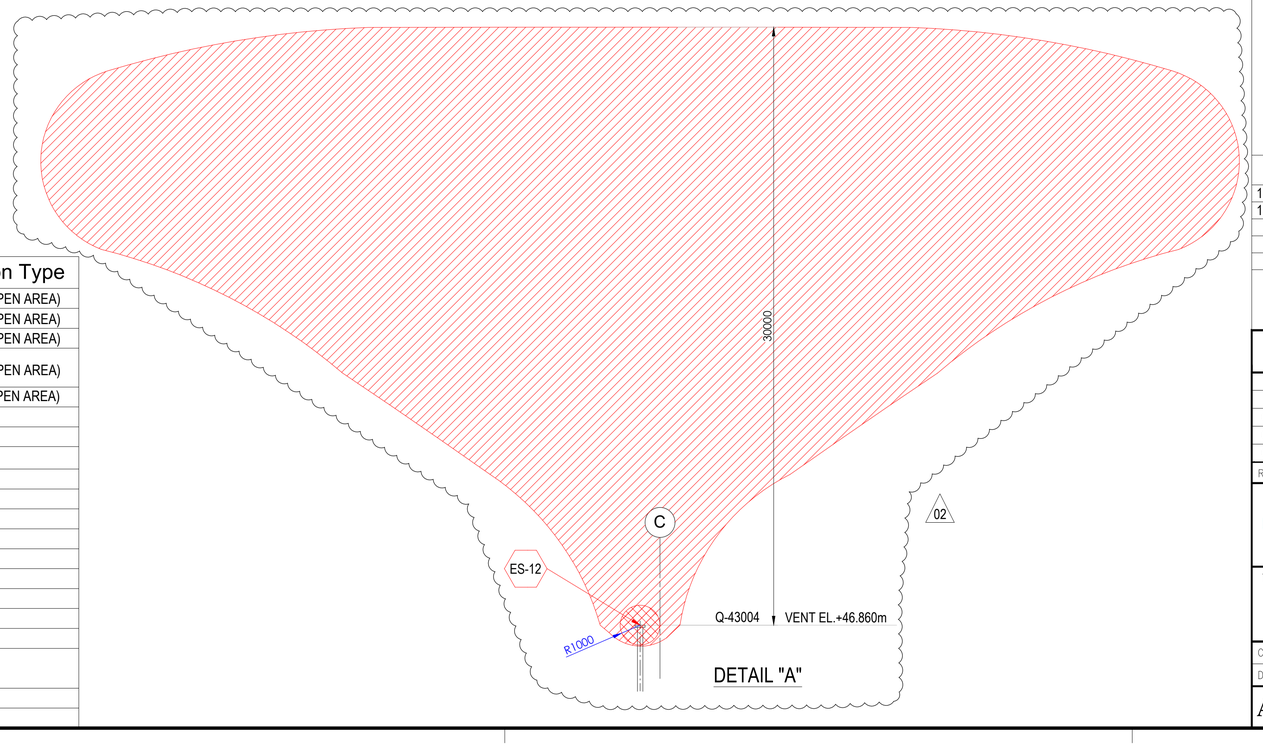


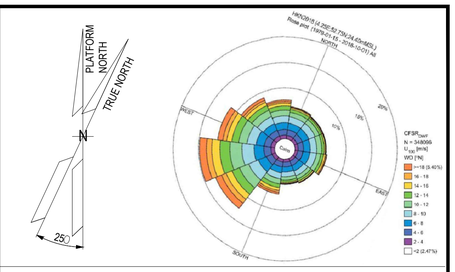
ELEVATION LOOKING EAST



ELEVATION LOOKING NORTH

Tag No.	Equipment Tag	Description	Material	Ventilation Type
01	P-50001 A/B	SEA WATER LIFT PUMPS	SEA WATER	NATURAL (OPEN AREA)
02	Q-43004	HYDROGEN VENT	HYDROGEN	NATURAL (OPEN AREA)
03	V-43001	HYDROGEN VENT KO DRUM	HYDROGEN	NATURAL (OPEN AREA)
04	V-25001 (A/B/C/D/E/F)	HYDROGEN STORAGE VESSELS	HYDROGEN	NATURAL (OPEN AREA)
05	V-63001	INSTRUMENT AIR RECEIVER	INSTRUMENT AIR	NATURAL (OPEN AREA)
06	A-20000	ELECTROLYSER PACKAGE		
07	A-63000	INSTRUMENT AIR PACKAGE		
08	A-80000	FUEL CELL PACKAGE		
09	A-85000	BESS PACKAGE		
10	YLB-079001/2	LIFE RAFTS		
11	B-100	HV SWITCHROOM 66kV/6.6kV		
12	B-200	LV SWITCHROOM 400V		
13	B-300	AC UPS EQUIPMENT ROOM		
14	B-400	I&T EQUIPMENT ROOM		
15	TR-100AD1	TRANSFORMER MAIN 66kV/6.6kV		
16	TR-100AD1-NER	NEUTRAL EARTHING RESISTOR		
17	TR-200DE1	TRANSFORMER AUX. 6.6kV/0.4kV		
18	TR-200ED1	SOLAR TRANSFORMER PV FARM EQUIPMENT		
19	X-99001	CRANE		
20	V-64001	NITROGEN RECEIVER		





NOTES

1. ALL DIMENSIONS IN mm U.N.O
2. ALL ELEVATIONS IN METERS.
3. PLATFORM NORTH DIRECTION IS N 25°W.
4. VENT TOP SHALL BE REACHEABLE FOR MAINTENANCE PURPOSE.
5. THE BESS IS CONSIDERED SAFE AREA EXCEPT EXTRACTORES FROM BATTERIES , CURRENTLY NOT SHOWN IN DRAWINGS, SINCE INFORMATION FROM VENDOR IS NOT YET AVAILABLE.[ES17]
6. FOR ES12 PLUME, PLEASE REFER TO THE DETAIL "A" BELOW. (02)
7. THE LOCATION OF EMISSION SOURCES ON THE LAYOUT ARE ONLY INDICATIVE. EMISSION SOURCES CONSIDERED ARE PRESENT WITHIN THE EXTENSION OF HAZARDOUS CLASSIFIED AREAS SHOWN ON THE LAYOUT. THIS IS BECAUSE VALVES AND FLANGES,WHICH ARE CONSIDERED POTENTIAL SOURCES OF RELEASE POINTS FOR FLAMMABLE GAS ARE NOT SHOWN ON CURRENT LAYOUT PROVIDED. THE SAME APPLIES TO THE EMISSION SOURCES FOR CPI'S ITEM.
8. IDENTIFIED EMISSION SOURCES DETAIL

EMISSION SOURCE No.	IDENTIFIED AREAS
ES10	HYDROGEN STORAGE VESSLES
ES11	HYDROGEN VENT KO DRUM
ES12	HYDROGEN VENT
ES16	FUEL CELL

LEGEND

ZONE 0 — ZONE 1

ZONE 2 — ES EMISSION SOURCES

REFERENCE DOCUMENTS

123A90-DDL-PP-DS-70070	PLOT PLAN - LOWER & UPPER DECK
123A90-DDL-PP-DS-70071	PLOT PLAN - BELOW LOWER DECK

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	15/01/24	MMA	CCA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	27/08/24	MMA	CCA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	08/02/24	MMA	CCA	DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND

ROSETTI MARINO

TITLE :
BASE LOAD POWER HUB (BLPH)
HAZARDOUS AREA CLASSIFICATION
ELEVATION LOOKING NORTH & EAST

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK			SCALE 1:150
DRAWN M. MAGNI	CHECKED C. CARACCIOLO	APPROVED D. LO STERZO	DATE 03/07/24

A1 | DRAWING NO. 123A90-DDL-SAF-DL-30024 | SHEET 001 | REV. 02

File Name : 123A90-DDL-SAF-DL-30024 Rev.02

ITEM	Tag	EJB-200N1-02-L1-17	: JB - NORMAL LIGHTING	Dwg	123A90-DDL-EL-DL-20118
	S/Sys	83-40	: Normal Lighting Upper Deck	Module	UD
TASK	code	C10001635	Location: Onshore Activities	User	Rosetti Marino Quality Control
FORM	Process	MC	Activity: CCK / Discipline: ATEX / Form: CJX01		Hazardous Area Equipment Detailed Inspection

Schedule Ref. #				**Area Code**					
Area Class Drawing	123A90-DDL-SAF-DL-30022			**Serial No.**		24P00297990050			
Manufacturer	Italsmea			**Model**		AQ-252612P			
Cert No.	FIDI 21 ATEX 0090X-FIDI 21 0015 X			**Equipment Ambient Temp.**		-20 to + 40 °C			
Area Classification	Hazardous	**Zone**	2	**Gas group**	II C	**Temp class**	T1		
Equipment Protection Type	Ex eb	**EPL**	Gb	**Gas group**	II C	**Temp class**	T6	**IP Rating**	IP66

Detailed Note:

1) Inspection shall only be performed by competent personnel

2) All fields are to be completed. Any non-applicable field shall state “NA”. Comments are required for ‘Failure’ column ONLY.

3) An Inspection Sheet should be completed for EACH individual item of Equipment.

	General Equipment	Detailed	OK/NA/PL	Comments
1	Equipment is appropriate to the EPL / Zone requirements of the area	x	OK	
2	Equipment group is correct	x	OK	
3	Equipment temperature class is correct	x	OK	
4	Degree of IP protection of equipment is appropriate for the level of protection	x	OK	
5	Equipment circuit identification is correct	x	OK	
6	Equipment circuit identification is available	x	OK	
7	Enclosure glass parts and glass-to-metal sealing gaskets and / or compounds are satisfactory	x	NA	
8	There is no damage or unauthorized modifications	x	OK	
9	There is no evidence of unauthorized modifications	x	OK	
10	Bolts, cable entry devices (direct and indirect) & blanking elements are of the correct type, are complete & tight		PL	
	Physical check	x	OK	
11	Threaded covers on enclosures are of the correct type, are tight and secured		NA	
	Physical check	x	NA	
12	Joint surfaces are clean and undamaged and gaskets, if any, are satisfactory and positioned correctly	x	OK	
13	Condition of enclosure gaskets is satisfactory	x	OK	
14	There is no evidence or ingress of water or dust in the enclosure in accordance with the IP rating	x	OK	
15	Electrical connections are tight	x	OK	
16	Bridging links do not reduce creepage / clearance and are allowed	x	OK	
17	Unused terminals are tightened	x	OK	
18	Encapsulated components are undamaged	x	NA	
19	Flameproof components are undamaged	x	NA	
20	Fluorescent lamps are not indicating EOL effects (only for Ex “e” – Ex “n” – Ex “t”)	x	NA	
21	HID lamps are not indicating EOL effects	x	NA	
22	Lamp type, rating, pin configuration and position are correct	x	NA	
23	Breathing and drainage devices are satisfactory	x	PL	
24	Type of cable is appropriate	x	OK	
25	There is no obvious damage to the cables	x	OK	
26	Cable glands are the correct type and installed correctly	x	OK	
27	Sealing of trunking, ducts, pipes and or conduits is satisfactory	x	NA	
28	Stopping boxes and cable boxes are corrected filled	x	OK	

ITEM	Tag	EJB-200N1-02-L1-17	: JB - NORMAL LIGHTING			Dwg	123A90-DDL-EL-DL-20118
	S/Sys	83-40	: Normal Lighting Upper Deck			Module	UD
TASK	code	C10001635		Location	Onshore Activities	User	Rosetti Marino Quality Control
FORM	Process	MC	Activity CCK	Discipline	ATEX	Form	CJX01
							Hazardous Area Equipment Detailed Inspection

29	Integrity of conduit system and interface with mixed system maintained	x	NA	
30	Earthing connections, including any supplementary earthing bonding connections are satisfactory (for example connections are tight and conductors are of sufficient cross-section		OK	
	Physical check	x	OK	
31	Automated electric protective devices operate within permitted limits	x	NA	
32	Special conditions (if applicable) have been complied with.	x	OK	
33	All cable cores are uniquely labeled	x	Note	See PL C30001496, C30001497, C30001494 &
34	Cable cores not in use are correctly terminated	x	OK	
35	Equipment is adequately protected against corrosion, weather, vibration and other adverse factors	x	OK	
36	No undue accumulation of dust and dirt	x	OK	
37	All equipment housings are clean and dry	x	OK	
38	All moving parts are free and have no mechanical damage	x	OK	
	Applicable for Installation of Heating Systems			
39	Temperature sensors function according to manufacturer's documents (only applicable for Ex-d e Ex-e)	x	NA	
40	Safety cut off devices function according to manufacturer's documents (only applicable for Ex-d e Ex-e)	x	NA	
41	The setting of the safety cut off is sealed (only applicable for Ex-d e Ex-e)	x	NA	
42	Reset of a heating system safety cut off possible with tool only(only applicable for Ex-d e Ex-e)	x	NA	
43	Auto-reset is not possible (only applicable for Ex-d e Ex-e)	x	NA	
44	Reset of a safety cut off under fault conditions is prevented (only applicable for Ex-d e Ex-e)	x	NA	
45	Safety cut off independent from control system (only applicable for Ex-d e Ex-e)	x	NA	
46	Level switch is installed and correctly set, if required (only applicable for Ex-d e Ex-e)	x	NA	
47	Flow switch is installed and correctly set, if required (only applicable for Ex-d e Ex-e)	x	NA	
	Extra Ex d checks			
48	Obstructions adjacent to flame proof flanged joints are in accordance with IEC 60079-14	x	NA	
49	Ex d conduits seals are fitted to all conduits and satisfactorily sealed	x	NA	
50	Cable glands are of the correct type and installed correctly	x	NA	
51	Adaptors, reducers, stop ends, etc. are all certified Ex d	x	NA	
52	Flame path are clean and undamaged	x	NA	
53	Flange gap dimensions are within tolerances	x	NA	
54	Motor fans have sufficient clearance to the enclosure and/or covers, cooling systems are undamaged, motor foundations have no indentations or cracks	x	NA	
55	The ventilation airflow is not impeded	x	NA	
56	Insulation resistance (IR) of the motor windings is satisfactory	x	NA	
57	Fault loop impedance (TN systems) or earthing resistance (IT systems) is satisfactory	x	NA	
58	Variable voltage/frequency installation complies with documentation	x	NA	
	Extra Ex e checks			
59	All Equipment is Ex e certified (including components within enclosure)	x	OK	
60	Power conductors are not bunched together causing possible hot spots	x	OK	
61	Motor fans have sufficient clearance to the enclosure and/or covers, cooling systems are undamaged, motor foundations have no indentations or cracks	x	NA	
62	Insulation resistance (IR) of the motor windings is satisfactory	x	NA	
63	Fault loop impedance (TN systems) or earthing resistance (IT systems) is satisfactory	x	NA	
64	The ventilation airflow is not impeded	x	NA	
65	Motor protection devices operate within the permitted tE or tA time limits.	x	NA	
66	Variable voltage/frequency installation complies with documentation	x	NA	

ROSETTI MARINO PROVERLIS CROSSWIND

ITEM	Tag	EJB-200N1-02-L1-17	: JB - NORMAL LIGHTING			Dwg	123A90-DDL-EL-DL-20118
	S/Sys	83-40	: Normal Lighting Upper Deck			Module	UD
TASK	code	C10001635		Location	Onshore Activities	User	Rosetti Marino Quality Control
FORM	Process	MC	Activity CCK	Discipline	ATEX	Form	CJX01
							Hazardous Area Equipment Detailed Inspection

	Extra Ex n (nR, nL) checks				
67	All Terminals are Ex n certified (if required on certificate)	x	NA		
68	Hermetically sealed and enclosed break devices are undamaged	x	NA		
69	Restricted breathing properties satisfactory (conduct vacuum test)	x	NA		
70	Test port, if fitted, is functional (type “nR” only)	x	NA		
71	Breathing operation is satisfactory (type “nR” only)	x	NA		
72	Motor fans have sufficient clearance to the enclosure and/or covers, cooling systems are	x	NA		
73	The ventilation airflow is not impeded	x	NA		
74	Insulation resistance (IR) of the motor windings is satisfactory	x	NA		
75	Motor protection devices operate within the permitted tE or tA time limits.	x	NA		
76	Variable voltage/frequency installation complies with documentation	x	NA		
	Extra Ex p checks				
77	Pressurization gas is correct type	x	NA		
78	Actual pressure is within maximum and minimum settings for equipment	x	NA		
79	Timers set as per certification documentation	x	NA		
80	Alarms and trip functions operate correctly as per certification documentation	x	NA		
81	Fault loop impedance (TN systems) or earthing resistance (IT systems) is satisfactory	x	NA		
82	Automatic electrical protective devices operate within permitted limits	x	NA		
83	Automatic electrical protective devices are set correctly	x	NA		
84	Protective gas inlet temperature is below maximum specified	x	NA		
85	Ducts, pipes and enclosures are in good condition	x	NA		
86	Protective gas is substantially free from contaminants	x	NA		
87	Protective gas pressure and/or flow is adequate	x	NA		
88	Pressure and/or flow indicators, alarms and interlocks function correctly	x	NA		
89	Conditions of spark and particle barriers of ducts for exhausting the gas in hazardous area are satisfactory	x	NA		
90	Specific conditions of use (if applicable) are complied with		NA		
	Extra Ex i (Intrinsically Safe – IS) checks				
91	Equipment has adequate circuit identification for ‘IS’ Installation	x	NA		
92	Cables are installed in accordance with the documentation	x	NA		
93	Segregation is maintained between IS and non-IS Circuits	x	NA		
94	Cable screens are isolated at one end (field side)	x	NA		
95	Cable screens are earthed in accordance with the documentation	x	NA		
96	Safety barrier units, relays and other energy limiting devices are of the approved type, installed in	x	NA		
97	Equipment installed is the one specified in the documentation	x	NA		
98	Ambient temperature range of the apparatus is correct for the installation	x	NA		
99	Service temperature range of the apparatus is correct for the installation	x	NA		
100	Installation is clearly labelled	x	NA		
101	Printed circuit boards are clean and undamaged	x	NA		
102	The maximum voltage Um of the associated apparatus is not exceeded	x	NA		
103	Point-to-point connections are all correct	x	NA		
104	Earth continuity is satisfactory (e.g. connections are tight, conductors are of sufficient cross-section)	x	NA		
105	Earth connections maintain the integrity of the type of protection	x	NA		
106	Intrinsically safe circuit earthing is satisfactory	x	NA		
107	Insulation resistance is satisfactory	x	NA		
108	Short-circuit protection of the power supply is in accordance with the documentation	x	NA		

	BARRIER:	**Manufacturer:**	NA	**Model:**	NA		
		Authority:	NA	**Cert No:**	NA	**Type:**	NA

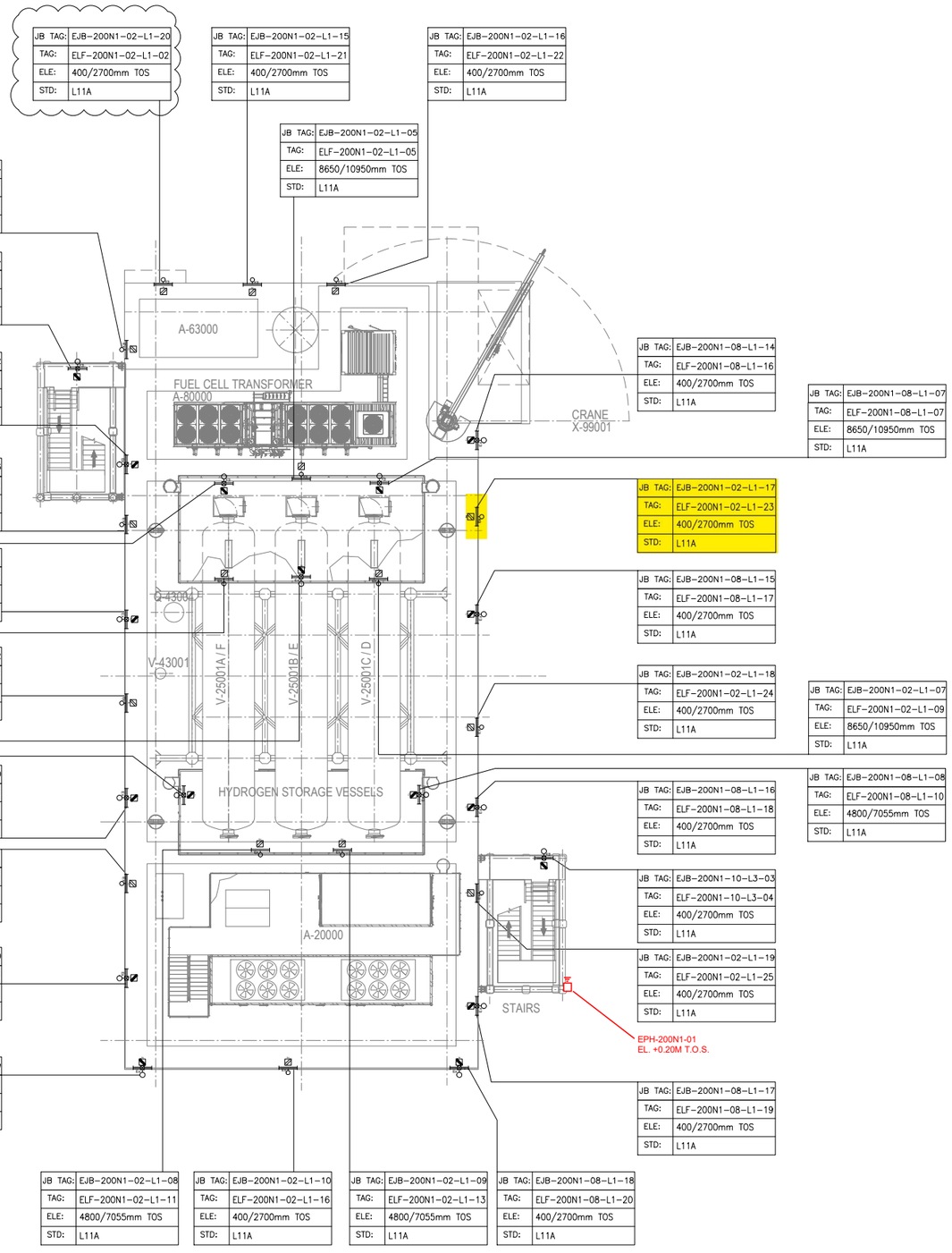
Remarks: Initial inspection should be detailed and carried out before equipment is brought into service as per IEC 60079-17

Please mark only one box as appropriate	
●	**Passed - Complete**
	Failed

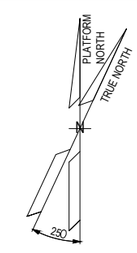
Page 3/3	Performed by	☐ WITNESS ☐ REVIEW	☐ WITNESS ☐ REVIEW
Company	ICS IMPIANTI	RM(ROSETTI MARINO)	
Name	Francesco Zucca	Luca Mussi	
Date	2024-12-19	2025-01-07	
Signature	PROVERLIS Digitaly signed by Francesco Zucca 2024-12-19T12:30:47.812Z	PROVERLIS Digitaly signed by Luca Mussi 2025-01-07T09:33:44.583Z	

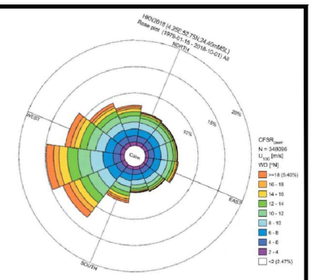
DRAWING NO. 123A90-DDL-EL-DL-20118

REV. 01



PLAN ON UPPER DECK
EL+30.310 T.O.S.





NOTES

1. ALL DIMENSIONS AND ELEVATIONS ARE GIVEN IN mm UNLESS OTHERWISE NOTED.
2. ELEVATIONS REFER TO T.O.S.
3. ELEVATION OF THE LAMPS ARE REFFERED TO THE BOTTOM OF THE LAMP.
4. FOR THE ELEVATION OF JB, REFER TO THE TYPICAL INSTALLATION.

LEGEND

- EMERGENCY LIGHTING JB
- 60W LED EMERGENCY LUMINARIES
- 60W LED EMERGENCY LUMINARIES FIXTURE POLE MOUNTED
- NORMAL LIGHTING JB
- 45W LED NORMAL LUMINARIES
- 45W LED NORMAL LUMINARIES FIXTURE POLE MOUNTED
- WELDING SOCKET WITH INTEGRATED JB
- SMALL POWER SOCKET WITH INTEGRATED JB
- TWILIGHT RELAY SENSOR

JB TAG:	JB-TAG
TAG:	TAG
ELE:	ELEVATION
STD:	STANDARD

VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DL-20118**

REV.:	DATE:	SIGNATURE:
1_B	22/10/24	G.Randi

ROSETTI MARINO SpA

REFERENCE DOCUMENTS

123A90-DDL-PP-DL-70070	PLOT PLAN - LOWER & UPPER DECK
123A90-DDL-EL-DL-20100	ELECTRICAL EQUIPMENT LAYOUT - TOP DECK
123A90-DDL-EL-DD-20091	ELECTRICAL TYPICAL INSTALLATION DETAILS - LIGHTING SYSTEM
123A90-DDL-EL-DD-20092	ELECTRICAL TYPICAL INSTALLATION DETAILS - POWER SYSTEM & CABLE INSTALLATION
123A90-DDL-EL-RE-20153	LIGHTING CALCULATION STUDY REPORT

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	02/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	28/05/24	ASR	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND | ROSETTI MARINO

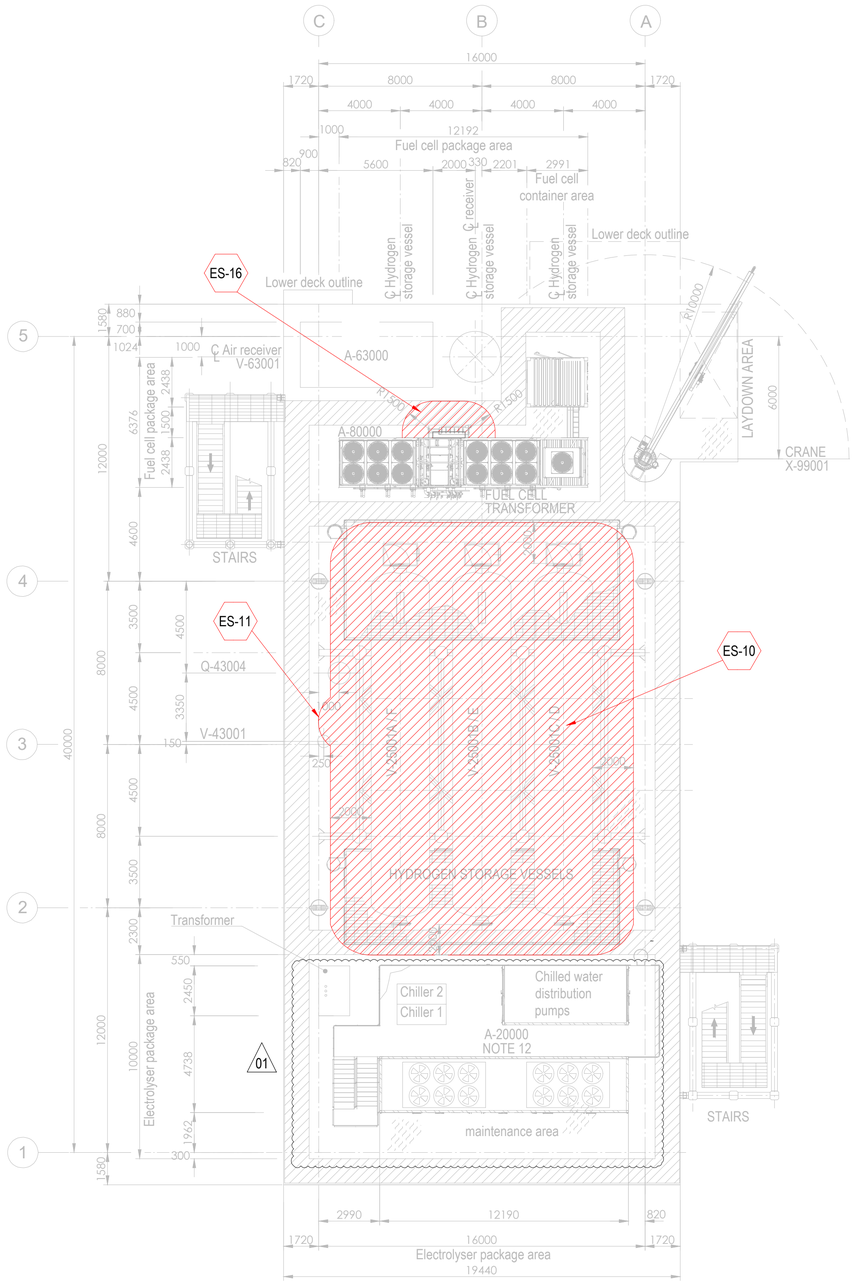
TITLE :
BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET LAYOUT – TOP DECK

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK			SCALE 1:150
DRAWN ASR	CHECKED FMA/AMA	APPROVED FPA/DLO	DATE 01/08/24
A1	DRAWING NO. 123A90-DDL-EL-DL-20118	SHEET 1of2	REV. 01

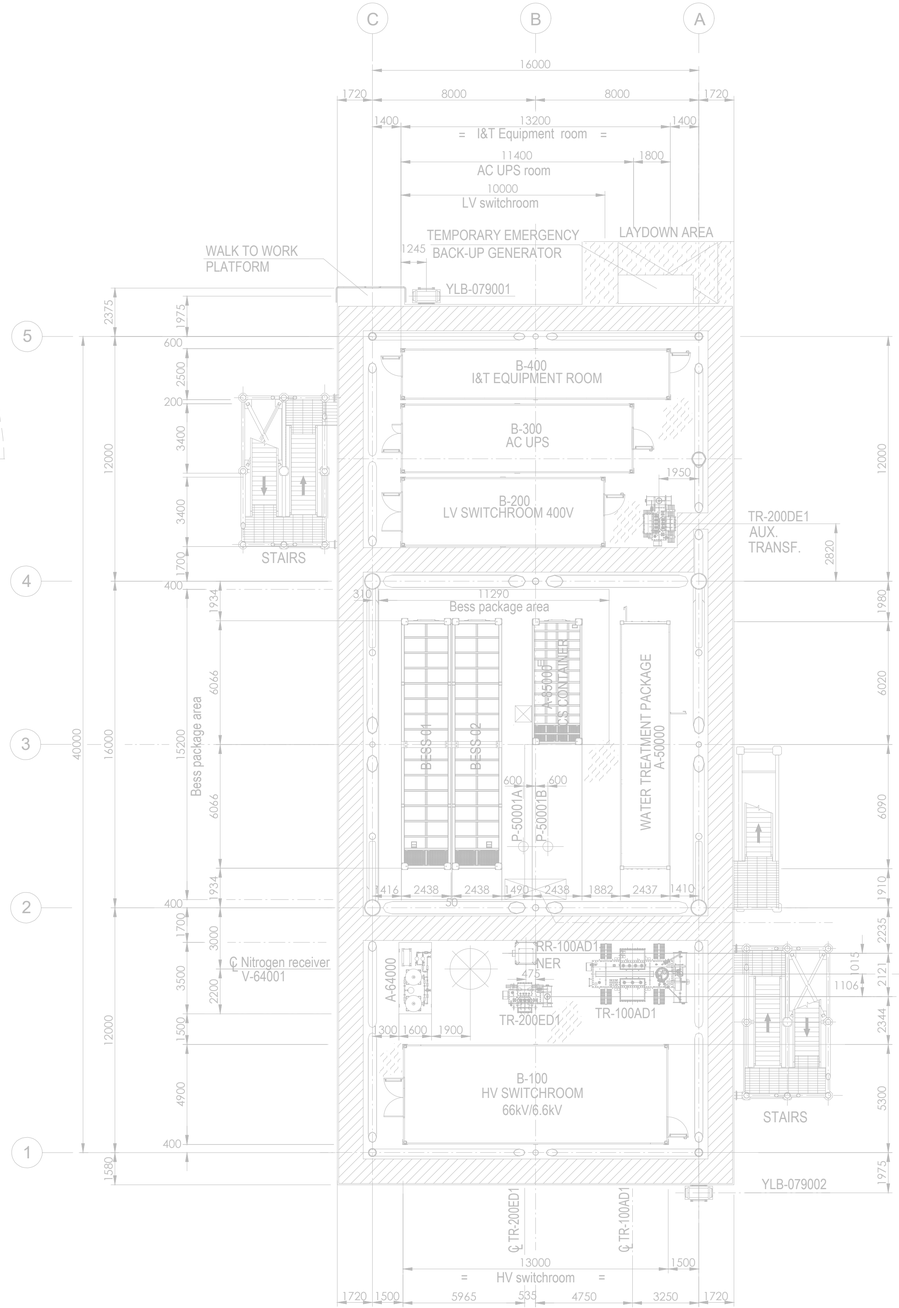
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DRAWING NO. 123A90-DDL-SAF-DL-30022

REV. 01



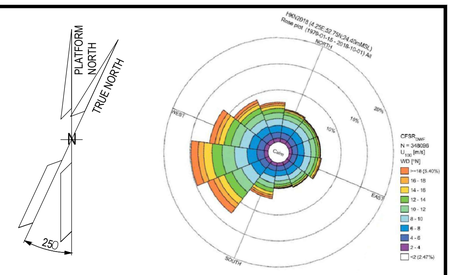
PLAN ON UPPER DECK
EL+30.310 T.O.S.



PLAN ON LOWER DECK
EL+23.310 T.O.S.

Tag No.	Equipment Tag	Description	Material	Ventilation Type
01	P-50001 A/B	SEA WATER LIFT PUMPS	SEA WATER	NATURAL (OPEN AREA)
02	Q-43004	HYDROGEN VENT	HYDROGEN	NATURAL (OPEN AREA)
03	V-43001	HYDROGEN VENT KO DRUM	HYDROGEN	NATURAL (OPEN AREA)
04	V-25001 (A/B/C/D/E/F)	HYDROGEN STORAGE VESSELS	HYDROGEN	NATURAL (OPEN AREA)
05	V-63001	AIR RECEIVER	INSTRUMENT AIR	NATURAL (OPEN AREA)
06	A-20000	ELECTROLYSER PACKAGE		
07	A-63000	INSTRUMENT AIR PACKAGE		
08	A-80000	FUEL CELL PACKAGE		
09	A-85000	BESS PACKAGE		
10	YLB-079001/2	LIFE RAFTS		
11	A-50000	WATER TREATMENT PACKAGE		

Tag No.	Equipment Tag	Description	Material	Ventilation Type
12	A-64000	NITROGEN SYSTEM		
13	B-100	HV SWITCHROOM 66kV/6.6kV		
14	B-200	LV SWITCHROOM 400V		
15	B-300	AC UPS EQUIPMENT ROOM		
16	B-400	I&T EQUIPMENT ROOM		
17	TR-100AD1	TRANSFORMER MAIN 66kV/6.6kV		
18	RR-100AD1-NER	NEUTRAL EARTHING RESISTOR		
19	TR-200DE1	TRANSFORMER AUX. 6.6kV/0.4kV		
20	TR-200ED1	SOLAR TRANSFORMER PV FARM EQUIPMENT		
21	X-99001	CRANE		
22	V-64001	NITROGEN RECEIVER		



1. ALL DIMENSIONS IN mm U.N.O
2. ALL ELEVATIONS IN METERS.
3. PLATFORM NORTH DIRECTION IS N 25°W.
4. VENT TOP SHALL BE REACHEABLE FOR MAINTENANCE PURPOSE.
5. THE BESS IS CONSIDERED SAFE AREA EXCEPT EXTRACTORES FROM BATTERIES , CURRENTLY NOT SHOWN IN DRAWINGS, SINCE INFORMATION FROM VENDOR IS NOT YET AVAILABLE.[ES17]
6. THE LOCATION OF EMISSION SOURCES ON THE LAYOUT ARE ONLY INDICATIVE. EMISSION SOURCES CONSIDERED ARE PRESENT WITHIN THE EXTENSION OF HAZARDOUS CLASSIFIED AREAS SHOWN ON THE LAYOUT. THIS IS BECAUSE VALVES AND FLANGES,WHICH ARE CONSIDERED POTENTIAL SOURCES OF RELEASE POINTS FOR FLAMMABLE GAS ARE NOT SHOWN ON CURRENT LAYOUT PROVIDED. THE SAME APPLIES TO THE EMISSION SOURCES FOR CPI'S ITEM.
7. IDENTIFIED EMISSION SOURCES DETAIL

EMISSION SOURCE No.	IDENTIFIED AREAS
ES10	HYDROGEN STORAGE VESSLES
ES11	HYDROGEN VENT KO DRUM
ES16	FUEL CELL

01

ZONE 0 | ZONE 1 | ZONE 2 | ES EMISSION SOURCES

01

01

123A90-DDL-PP-DS-70071	PLOT PLAN - BELOW LOWER DECK
123A90-DDL-PP-DS-70072	PLOT PLAN - ELEVATION LOOKING NORTH & EAST

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	27/08/24	MMA	CCA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	08/02/24	MMA	CCA	DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND

ROSETTI MARINO

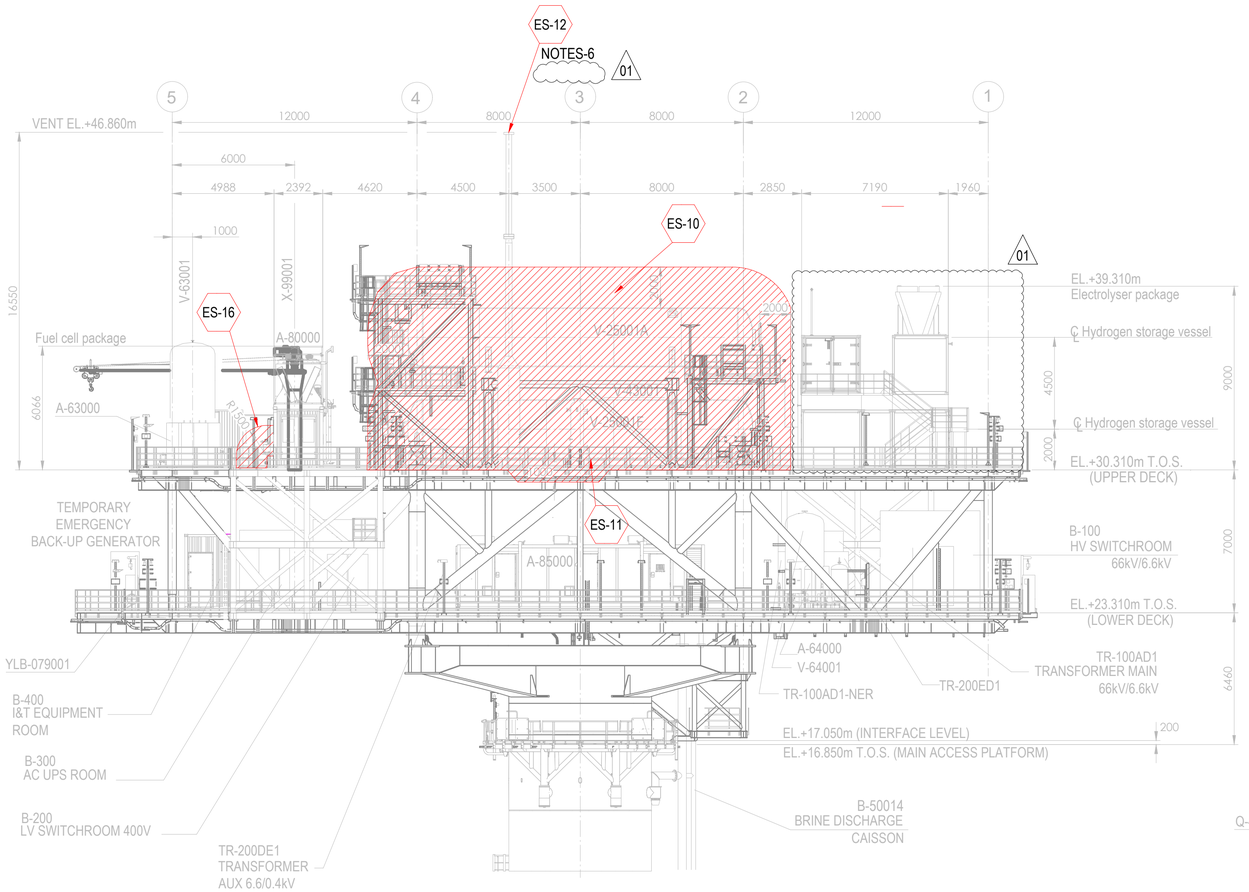
TITLE : BASE LOAD POWER HUB (BLPH)
HAZARDOUS AREA CLASSIFICATION
LOWER & UPPER DECK

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK		SCALE 1:150
DRAWN M. MAGNI	CHECKED C. CARACCIOLO	APPROVED D. LO STERZO	DATE 03/07/24
A1	DRAWING NO. 123A90-DDL-SAF-DL-30022	SHEET 001	REV. 01

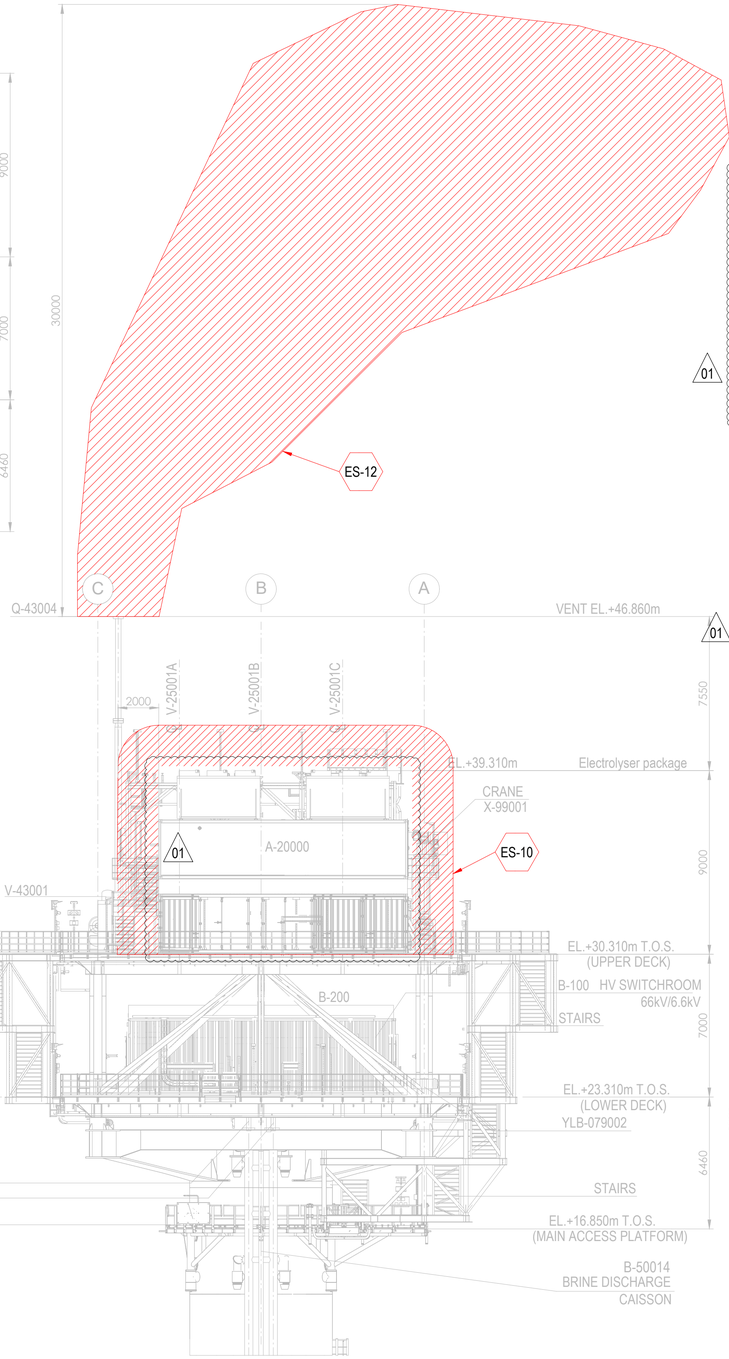
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DRAWING NO. 123A90-DDL-SAF-DL-30024

REV. 01



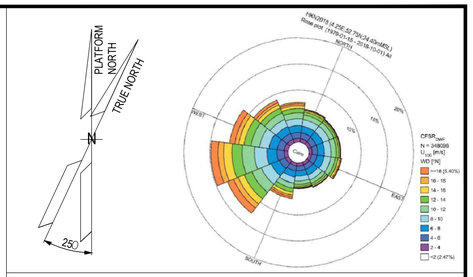
ELEVATION LOOKING EAST



ELEVATION LOOKING NORTH

01

Tag No.	Equipment Tag	Description	Material	Ventilation Type
01	P-50001 A/B	SEA WATER LIFT PUMPS	SEA WATER	NATURAL (OPEN AREA)
02	Q-43004	HYDROGEN VENT	HYDROGEN	NATURAL (OPEN AREA)
03	V-43001	HYDROGEN VENT KO DRUM	HYDROGEN	NATURAL (OPEN AREA)
04	V-25001 (A/B/C/D/E/F)	HYDROGEN STORAGE VESSELS	HYDROGEN	NATURAL (OPEN AREA)
05	V-63001	INSTRUMENT AIR RECEIVER	INSTRUMENT AIR	NATURAL (OPEN AREA)
06	A-20000	ELECTROLYSER PACKAGE		
07	A-63000	INSTRUMENT AIR PACKAGE		
08	A-80000	FUEL CELL PACKAGE		
09	A-85000	BESS PACKAGE		
10	YLB-079001/2	LIFE RAFTS		
11	B-100	HV SWITCHROOM 66kV/6.6kV		
12	B-200	LV SWITCHROOM 400V		
13	B-300	AC UPS EQUIPMENT ROOM		
14	B-400	I&T EQUIPMENT ROOM		
15	TR-100AD1	TRANSFORMER MAIN 66kV/6.6kV		
16	TR-100AD1-NER	NEUTRAL EARTHING RESISTOR		
17	TR-200DE1	TRANSFORMER AUX. 6.6kV/0.4kV		
18	TR-200ED1	SOLAR TRANSFORMER PV FARM EQUIPMENT		
19	X-99001	CRANE		
20	V-64001	NITROGEN RECEIVER		



NOTES

1. ALL DIMENSIONS IN mm U.N.O
2. ALL ELEVATIONS IN METERS.
3. PLATFORM NORTH DIRECTION IS N 25°W.
4. VENT TOP SHALL BE REACHEABLE FOR MAINTENANCE PURPOSE.
5. THE BESS IS CONSIDERED SAFE AREA EXCEPT EXTRACTORES FROM BATTERIES , CURRENTLY NOT SHOWN IN DRAWINGS, SINCE INFORMATION FROM VENDOR IS NOT YET AVAILABLE.[ES17]
6. (ES12) IS SHOWN ONLY ON ELEVATION LOOKING NORTH ON THIS LAYOUT
7. THE LOCATION OF EMISSION SOURCES ON THE LAYOUT ARE ONLY INDICATIVE. EMISSION SOURCES CONSIDERED ARE PRESENT WITHIN THE EXTENSION OF HAZARDOUS CLASSIFIED AREAS SHOWN ON THE LAYOUT. THIS IS BECAUSE VALVES AND FLANGES,WHICH ARE CONSIDERED POTENTIAL SOURCES OF RELEASE POINTS FOR FLAMMABLE GAS ARE NOT SHOWN ON CURRENT LAYOUT PROVIDED. THE SAME APPLIES TO THE EMISSION SOURCES FOR CPI'S ITEM.
8. IDENTIFIED EMISSION SOURCES DETAIL

EMISSION SOURCE No.	IDENTIFIED AREAS
ES10	HYDROGEN STORAGE VESSLES
ES11	HYDROGEN VENT KO DRUM
ES12	HYDROGEN VENT
ES16	FUEL CELL

01

LEGEND

ZONE 0 | ZONE 1 | ZONE 2 | ES EMISSION SOURCES

01

REFERENCE DOCUMENTS

123A90-DDL-PP-DS-70070	PLOT PLAN - LOWER & UPPER DECK
123A90-DDL-PP-DS-70071	PLOT PLAN - BELOW LOWER DECK

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	27/08/24	MMA	CCA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	08/02/24	MMA	CCA	DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND | ROSETTI MARINO

TITLE :
BASE LOAD POWER HUB (BLPH)
HAZARDOUS AREA CLASSIFICATION
ELEVATION LOOKING NORTH & EAST

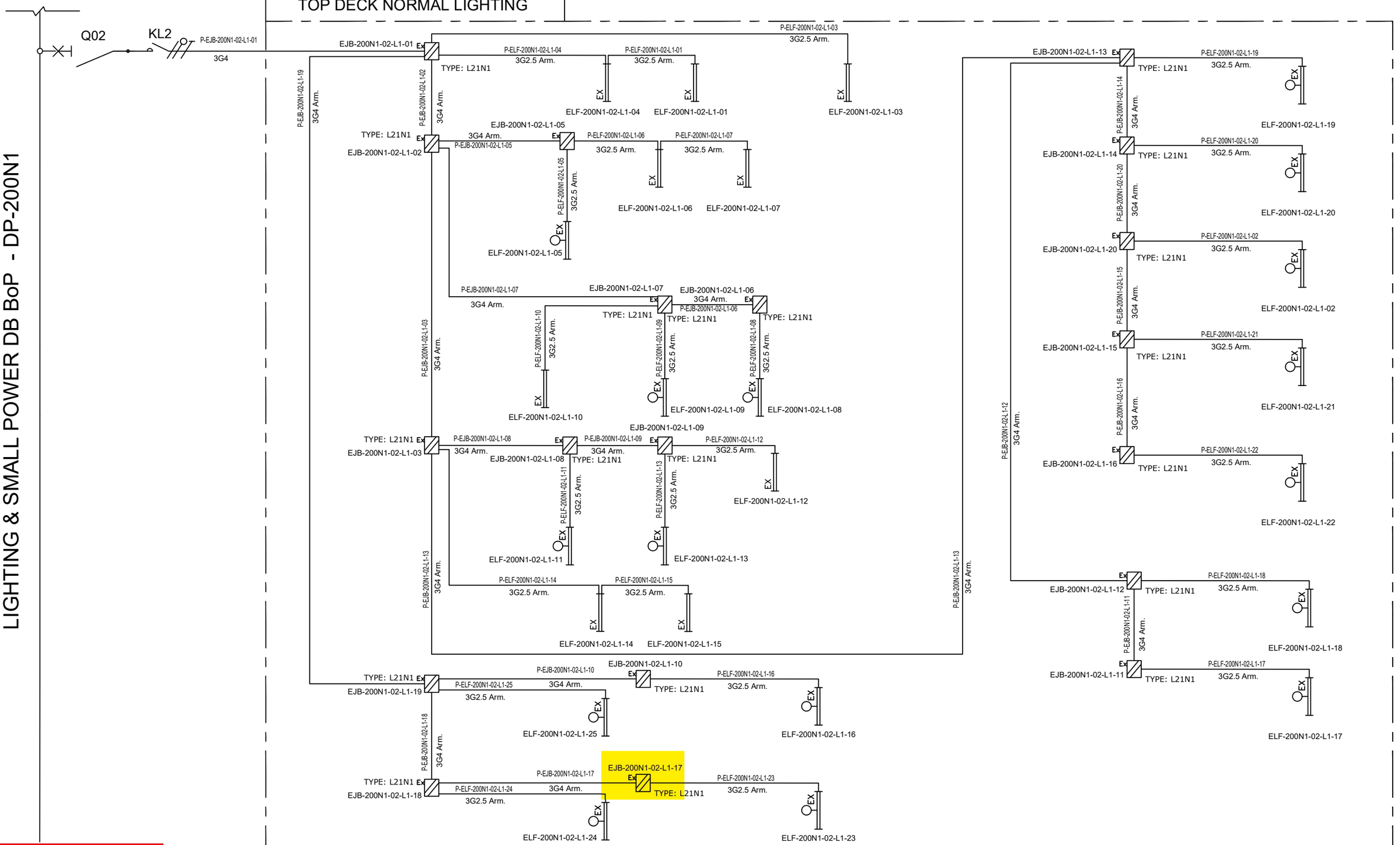
CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK			SCALE 1:150
DRAWN M. MAGNI	CHECKED C. CARACCIOLO	APPROVED D. LO STERZO	DATE 03/07/24

A1	DRAWING NO. 123A90-DDL-SAF-DL-30024	SHEET 001	REV. 01

File Name : 123A90-DDL-SAF-DL-30024 Rev.01

LIGHTING & SMALL POWER DB BoP - DP-200N1

TOP DECK NORMAL LIGHTING



VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DG-20125**

REV.:	DATE:	SIGNATURE:
2_C	20/12/24	V.Ramponi

ROSETTI MARINO SpA

CROSSWIND

ROSETTI MARINO

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	08/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	01/07/24	ASR	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

TITLE : BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET CIRCUIT DIAGRAM
TOP DECK–NORMAL LIGHTING

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE : NTS

A3

DRAWING NO. 123A90-DDL-EL-DG-20125

SHEET 010

REV. 01

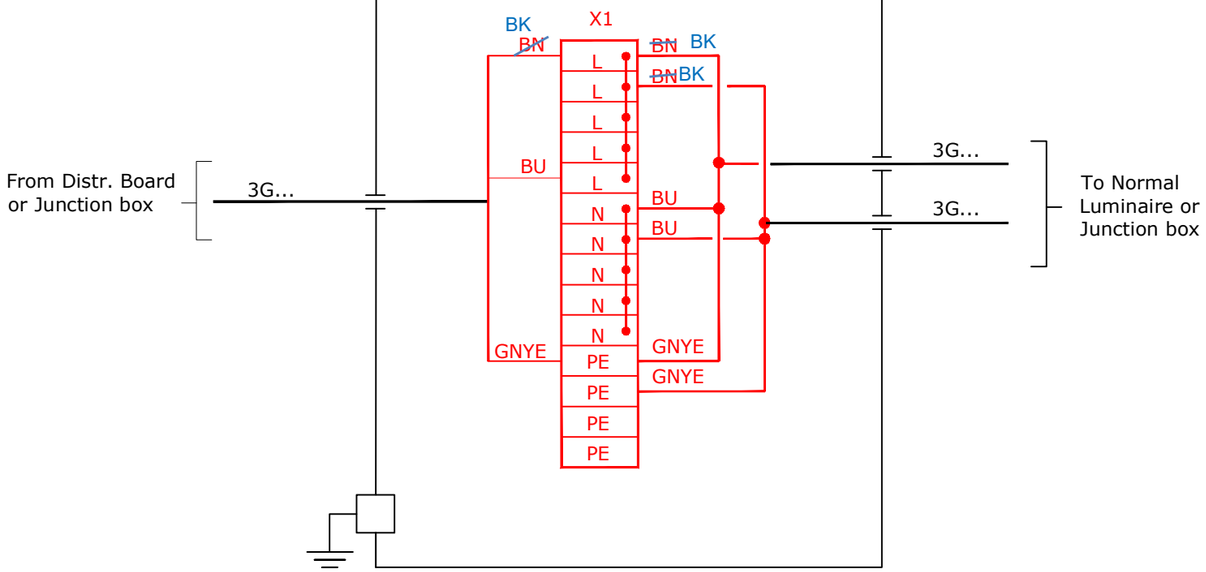
F.to UNI A3: 420mmx297mm

File Name : 123A90-DDL-EL-DG-20125

TYPE : L21N1 & L21N2

ITEM: NORMAL LIGHTING JUNCTION BOX

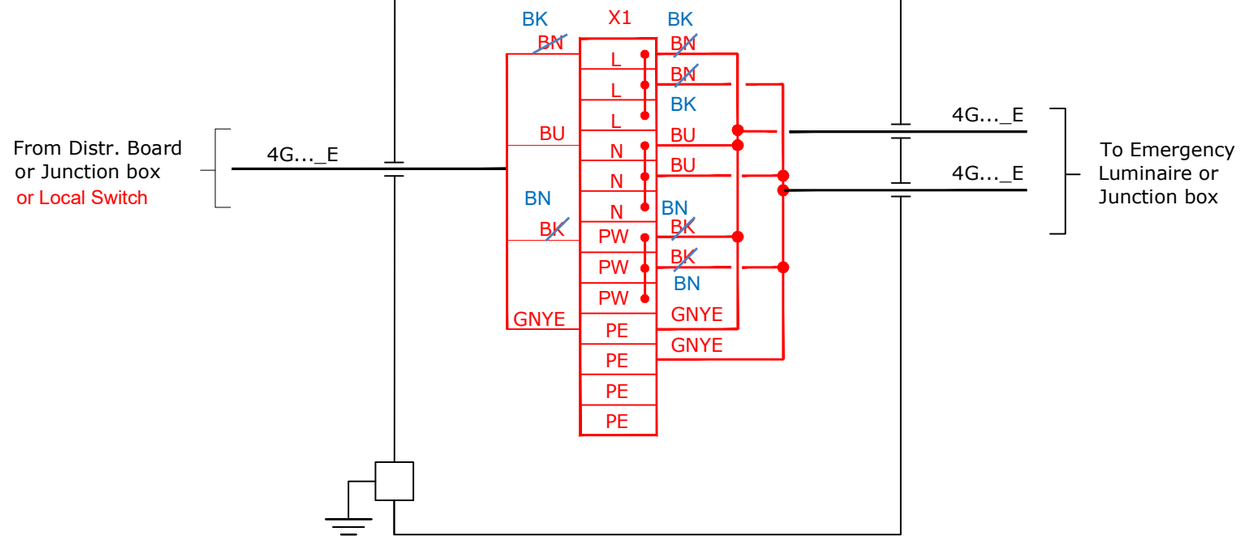
TAG : Typical



TYPE : L21E1 & L21E2

ITEM: EMERGENCY LIGHTING JUNCTION BOX

TAG : Typical



VALID FOR CONSTRUCTION

FDL DWG: **123A90-FDL-EL-DG-20125**

REV.:	DATE:	SIGNATURE:
2_C	20/12/24	V.Ramponi

ROSETTI MARINO SpA

CROSSWIND

ROSETTI MARINO

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	08/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)

TITLE : BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET CIRCUIT DIAGRAM
TYPICAL JB INTERCONNECTING DIAGRAM

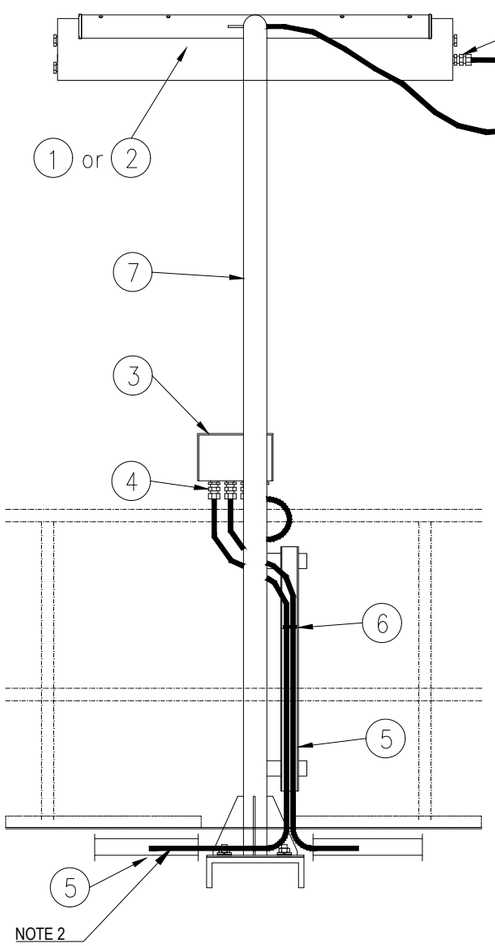
CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK | SCALE : NTS

A3	DRAWING NO.	SHEET	REV.
	123A90-DDL-EL-DG-20125	016	01

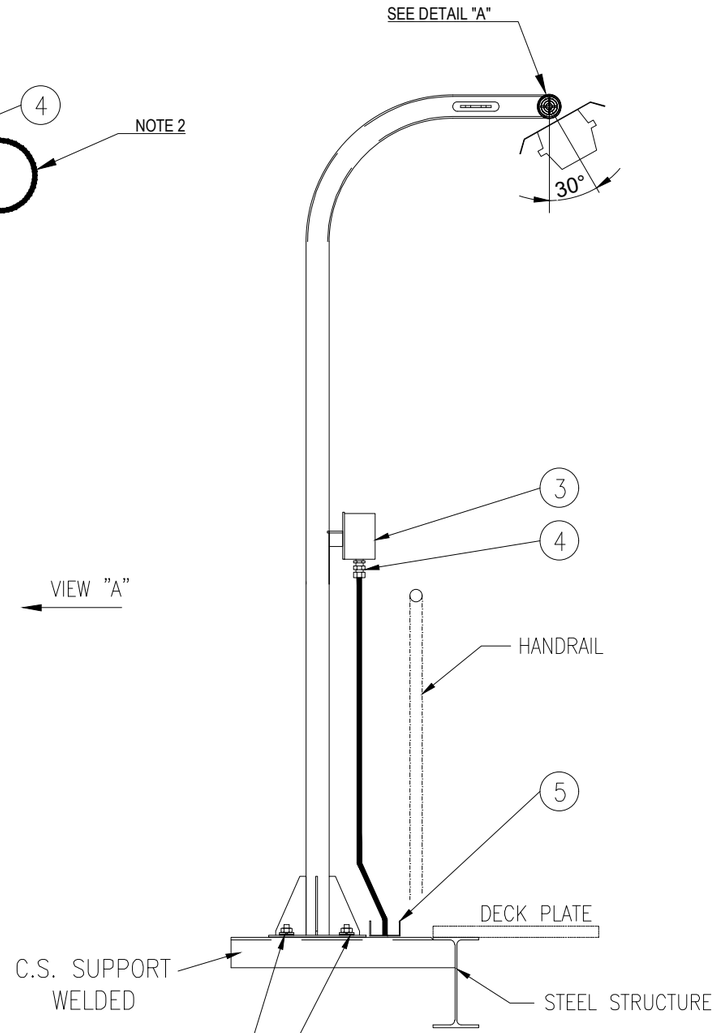
F.to UNI A3: 420mmx297mm

File Name : 123A90-DDL-EL-DG-20125

L11A

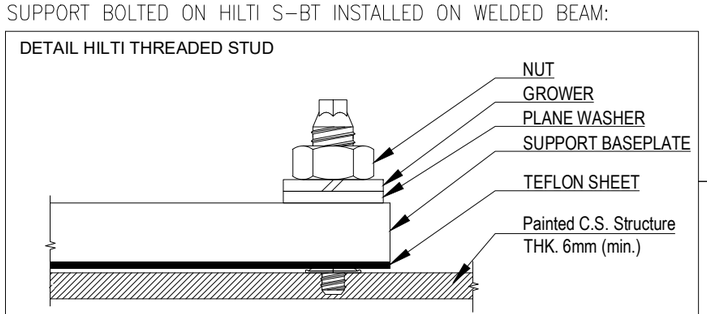


VIEW "A"

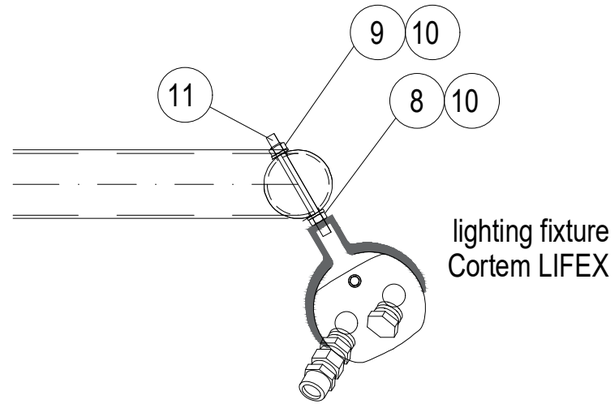


VIEW "A"

SUPPORT BOLTED ON HILTI S-BT INSTALLED ON WELDED BEAM:



POS.	DESCRIPTION	MATERIAL	SIZE	Q.TY	NOTE
1	42W LED LUMINARIES	ALUMINIUM ALLOY		1	
2	45W LED LUMINARIES C/W BATTERY	ALUMINIUM ALLOY		1	
3	JUNCTION BOX (Ex)	GRP		1	NOTE 1
4	CABLE GLAND ~~C/W EARTH TAG,~~ WASHERS, LOCKNUT AND WEATHERPROOF WASHERS	BRASS NICKEL PLATED		AS REQ.	
5	CABLE TRAY	AISI 316L			
6	STAINLESS STEEL NYLON COATED CABLE TIE	SS NYLON COATED			
7	POLE SUPPORT FOR LAMP	AISI 316L	2"		
8	NUT	AISI 316L	M8		
9	SELF.LOCKING NUT	AISI 316L	M8		
10	LARGE PLANE WASHER (24mm DIAM.)	AISI 316L	M8		
11	THREADED ROD M8x100	AISI 316L	M8		



DETAIL "A"

VALID FOR CONSTRUCTION

REV.:	DATE:	SIGNATURE:
2_B	12/12/24	C.Pilato

ROSETTI MARINO SpA

NOTES:

1) FOR LAMPS IN HAZARDOUS AREA, USE ARMOURED CABLE, DOUBLE SEAL CABLE GLAND AND EX JUNCTION BOX.

2) ALWAYS ENSURE CABLE LENGTH IS >3m

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	30/09/24	GRA	AMA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	04/07/24	NLK	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	21/11/23	SPS	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

02

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL TYPICAL INSTALLATION DETAILS-LIGHTING SYSTEM
LIGHTING FIXTURE MOUNTED ON POLE

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE : NTS

A3

DRAWING NO. 123A90-DDL-EL-DD-20091

SHEET 014

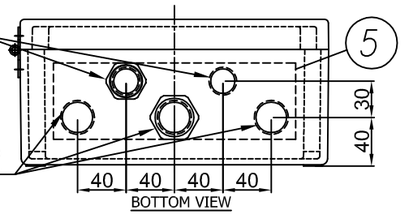
REV. 02

F.to UNI A3: 420mmx297mm

File Name : 123A90-DDL-EL-DD-20091 REV.02.DWG

(10)(4) N°2 PASSING HOLES Ø20.2
C/W N°1 BNK PLUG M20 +
N°1 DUSTPROOF PVC PLUG

(3)(3) N°3 PASSING HOLES Ø25.2
C/W N°1 BNK PLUG M25 +
N°2 DUSTPROOF PVC PLUG



BOTTOM VIEW

(8) I2400722-B015I00029809

TECHNOR ITALSMEA
A COMPANY OF MARECHAL ELECTRIC
Via Italia 33 - 20060 Cassano (MI) ITALY

CE 0080 Ex II 2G II 2D
FIDI 21ATEX 0090X
IECEx FIDI 21.0015X
Year of construction:

MADE IN ITALY

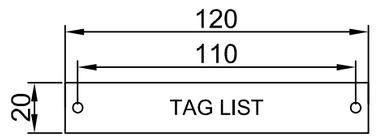
TYPE: AQ-252612P
230VAC 50Hz 20A
Max Dis. P. 6W

Ex eb IIC T6 Gb
Ex tb IIIC T85°C Db
IP66
T.amb. -20/+40°C
Serial Nr.

WARNINGS : DO NOT OPEN WHEN ENERGIZED

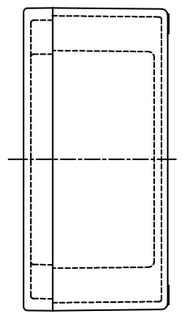
A002MAX

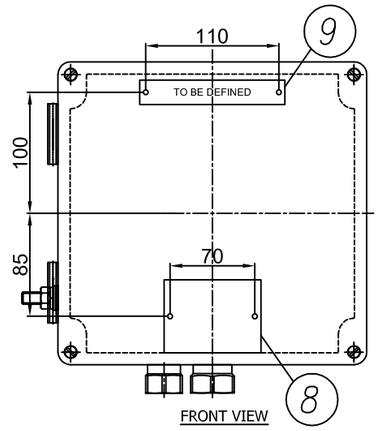
(9) PLATE DETAIL



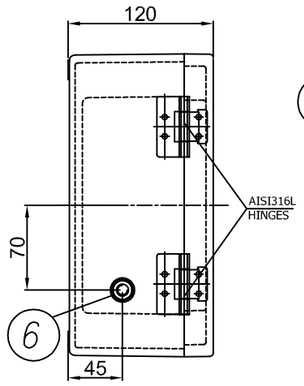
MATERIAL: LAMINATED PLASTIC
BACKGROUND: WHITE
LETTERS: BLACK

(7) Terminals numbered: NOTE 1

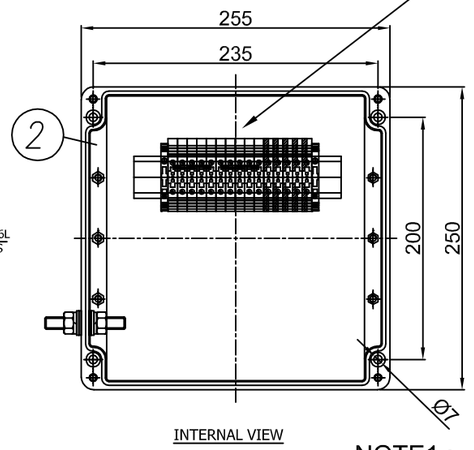

RIGHT VIEW



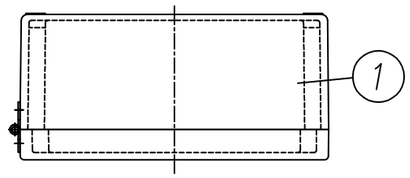
FRONT VIEW



LEFT VIEW



INTERNAL VIEW



TOP VIEW

NOTE1 :
- JB for Normal Lighting have terminals bridge: L-L-L-L-L, N-N-N-N-N, PE-PE-PE-PE-PE - JB for Emergency Lighting have terminals bridge: L-L-L, N-N-N, PW-PW-PW, PE-PE-PE-PE-PE

ITEM	DESCRIPTION	Pcs Q.TY	NOTE/MAT.	CODE	MANUFACTURER
11	DUSTPROOF PVC PLUG Ø25	2	–	.	TECHNOR ITALSMEA
10	DUSTPROOF PVC PLUG Ø20	1	–	.	TECHNOR ITALSMEA
9	LAMINATED PLASTIC TAG 120X20	1	–	.	TECHNOR ITALSMEA
8	AISI316L CERTIFICATE PLATE 80X60	1	–	.	TECHNOR ITALSMEA
7	BEIGE TERMINAL BLOCK SIZE 6 SQMM EARTH TERMINAL BLOCK SIZE 6 SQMM	10 5	WDU–6 WPE–6	.	WEIDMULLER
6	AISI316L INT/EXT EARTH BOLT M10	1	BTP–10	.	TECHNOR ITALSMEA
5	BRASS CONTINUITY PLATE THK. 0.8 MM	1	–	.	TECHNOR ITALSMEA
4	NICKEL PLATED BRASS PLUG M20	1	T20	.	TECHNOR ITALSMEA
3	NICKEL PLATED BRASS PLUG M25	1	T25	.	TECHNOR ITALSMEA
2	INTERNAL MOUNTING PLATE	1	PS–2526	.	TECHNOR ITALSMEA
1	GRP ENCLOSURE	1	AQ–252612P	.	TECHNOR ITALSMEA

-UNPAINTED (BLACK NATURAL)
Q.TY 92, ITEM 20: 2JBXXGPEE, ELEJB02

Explosion Proof
Electrical Equipment
Materiali Elettrici Antideflagranti
TECHNOR ITALSMEA
A COMPANY OF MARECHAL ELECTRIC

CROSSWIND

ROSETTI MARINO

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
05	20/12/24	FB	OB	OB	ACCEPTED FOR CONSTRUCTION (AFC)
04	26/11/24	FB	OB	OB	ACCEPTED FOR CONSTRUCTION (AFC)
03	25/10/24	FB	OB	OB	ACCEPTED FOR CONSTRUCTION (AFC)
02	12/09/24	FB	OB	OB	ACCEPTED FOR CONSTRUCTION (AFC)
01	03/09/24	FB	OB	OB	ACCEPTED FOR CONSTRUCTION (AFC)
00	30/07/24	FB	OB	OB	ISSUE FOR REVIEW (IFR)

TITLE : BASE LOAD POWER HUB (BLPH)

Junction Box for Normal & Emergency Lighting

CONTRACT NO./TITLE CW–I–WP4–2023–05/HOLLANDSE KUST NOORD WIND PARK | SCALE : NTS

A3 | DRAWING NO. 1724001481–EL–DA–00003 | SHEET 004 | REV. 05

F.to UNI A3: 420mmx297mm

File Name : 1724001481–EL–DA–00003 Rev. 01

ENCLOSURE N°	TAG LIST	NORMAL LIGHTING	EMERGENCY LIGHTING
1	EJB-200N1-03-L2-04	X	
2	EJB-200N1-03-L2-03	X	
3	EJB-200N1-03-L2-01	X	
4	EJB-200N1-03-L2-02	X	
5	EJB-200N1-03-L2-12	X	
6	EJB-200N1-03-L2-11	X	
7	EJB-200N1-03-L2-10	X	
8	EJB-200N1-03-L2-09	X	
9	EJB-200N1-03-L2-08	X	
10	EJB-200N1-03-L2-07	X	
11	EJB-200N1-03-L2-06	X	
12	EJB-200N1-03-L2-05	X	
13	EJB-200N1-03-L2-14	X	
14	EJB-200N1-03-L2-13		X
15	EJB-200N1-09-L2-17		X
16	EJB-200N1-09-L2-01		X
17	EJB-200N1-09-L2-04		X
18	SPARE (TO BE PROVIDED BLANK)		X
19	EJB-200N1-09-L2-02		X
20	EJB-200N1-09-L2-15		X
21	EJB-200N1-09-L2-14		X
22	EJB-200N1-09-L2-13		X
23	EJB-200N1-09-L2-12		X
24	EJB-200N1-09-L2-11		X
25	EJB-200N1-09-L2-10		X
26	EJB-200N1-09-L2-09		X
27	EJB-200N1-09-L2-08		X
28	EJB-200N1-09-L2-07		X
29	EJB-200N1-09-L2-06		X
30	EJB-200N1-09-L2-05		X
31	EJB-200N1-09-L2-16	X	
32	EJB-200N1-04-L3-01	X	
33	EJB-200N1-04-L3-02	X	
34	EJB-200N1-10-L3-05		X
35	EJB-200N1-10-L3-06		X
36	EJB-200N1-10-L3-07		X
37	EJB-200N1-10-L3-08		X
38	EJB-200N1-10-L3-09		X
39	EJB-200N1-10-L3-02		X
40	EJB-200N1-10-L3-01		X
41	EJB-200N1-10-L3-03		X
42	EJB-200N1-10-L3-04		X
43	EJB-200N1-02-L1-03	X	
44	EJB-200N1-02-L1-02	X	
45	EJB-200N1-02-L1-01	X	
46	SPARE (TO BE PROVIDED BLANK)	X	
47	EJB-200N1-02-L1-10	X	
48	EJB-200N1-02-L1-19	X	
49	EJB-200N1-02-L1-18	X	

ENCLOSURE N°	TAG LIST	NORMAL LIGHTING	EMERGENCY LIGHTING
50	EJB-200N1-02-L1-17	X	
51	EJB-200N1-02-L1-16	X	
52	EJB-200N1-02-L1-15	X	
53	EJB-200N1-02-L1-14	X	
54	EJB-200N1-02-L1-13	X	
55	EJB-200N1-02-L1-12	X	
56	EJB-200N1-02-L1-11	X	
57	EJB-200N1-02-L1-06	X	
58	EJB-200N1-02-L1-05	X	
59	EJB-200N1-02-L1-07	X	
60	EJB-200N1-02-L1-08	X	
61	EJB-200N1-02-L1-09	X	
62	EJB-200N1-08-L1-03		X
63	SPARE (TO BE PROVIDED BLANK)		X
64	EJB-200N1-08-L1-01		X
65	EJB-200N1-08-L1-04		X
66	EJB-200N1-08-L1-19		X
67	EJB-200N1-08-L1-18		X
68	EJB-200N1-08-L1-17		X
69	EJB-200N1-08-L1-16		X
70	EJB-200N1-08-L1-15		X
71	EJB-200N1-08-L1-14		X
72	EJB-200N1-02-L1-20	X	
73	EJB-200N1-08-L1-12		X
74	EJB-200N1-08-L1-11		X
75	EJB-200N1-08-L1-10		X
76	EJB-200N1-08-L1-20		X
77	EJB-200N1-08-L1-05		X
78	EJB-200N1-08-L1-06		X
79	EJB-200N1-08-L1-07		X
80	EJB-200N1-08-L1-09		X
81	EJB-200N1-08-L1-08		X
82	EJB-200F2-01	X	
83	EJB-200F2-02	X	
84	SPARE (TO BE PROVIDED BLANK)	X	
85	SPARE (TO BE PROVIDED BLANK)	X	
86	SPARE (TO BE PROVIDED BLANK)	X	
87	SPARE (TO BE PROVIDED BLANK)	X	
88	SPARE (TO BE PROVIDED BLANK)	X	
89	SPARE (TO BE PROVIDED BLANK)		X
90	SPARE (TO BE PROVIDED BLANK)		X
91	SPARE (TO BE PROVIDED BLANK)		X
92	SPARE (TO BE PROVIDED BLANK)		X

Q.TY 92, ITEM 20: 2JBXXGPEE, ELEJB02

Explosion Proof
Electrical Equipment
Materiali Elettrici Antideflagranti

TECHNOR ITALSMEA
A COMPANY OF MARECHAL ELECTRIC

CROSSWIND

ROSETTI MARINO

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
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01	03/09/24	FB	OB	OB	ACCEPTED FOR CONSTRUCTION (AFC)
00	30/07/24	FB	OB	OB	ISSUE FOR REVIEW (IFR)

TITLE : BASE LOAD POWER HUB (BLPH)

Junction Box for Normal & Emergency Lighting–Tag List

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE : NTS

A3

DRAWING NO. 1724001481-EL-DA-00003

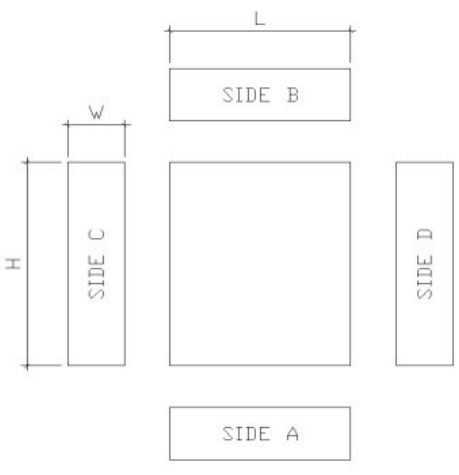
SHEET 005

REV. 05

F.to UNI A3: 420mmx297mm

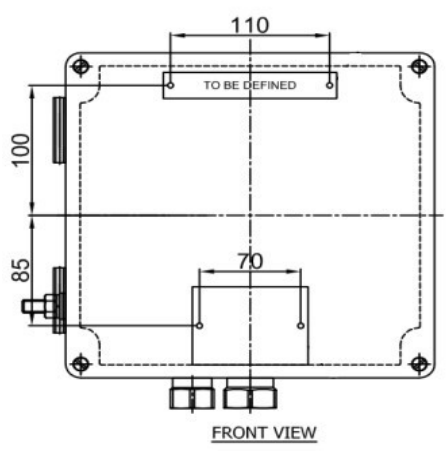
File Name : 1724001481-EL-DA-00003 Rev. 01

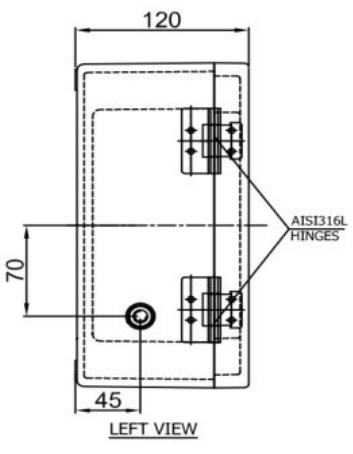
Row	Data Sheet for Control Stations, Junction Boxes and Sockets				Rev.
1	Junction Box for Normal & Emergency Lighting (Exdb)				
2	Item	Required	Manufacturer Proposal	Comments	
3	Model Number	by Vendor	AQ-252612P		01
4	Serial Number	by Vendor	B011041010004		01
5	Quantity	43+5(spare)		(39+9 spare)	01
6	Appkication	Lighting pole JB/Lighting JB			00
7	**Installation area**				
8	Indoor/Outdoor	Outdoor			00
9	Safe Area/Hazardous Area	Hazardous area			00
10	Zone 1/Zone 2	Zone-1			00
11	Temp. Class	Zone 1 Gas Group IIC (or) IIB + H2, T1	Ex eb IIC, T6 Gb		01
12	**Electrical input data**				
13	Voltage	230 V ac	230 V ac		01
14	Number of Phases	1ph + N + PE			00
15	**Material**				
16	Body	GRP	GRP		01
17	Execution	Ex eb	Ex eb		00
18	Protection Degree	IP56	IP 66		01
19	**Accessories**				
20	Hinged Cover	Required	AISI316L Hinges		01
21	Gasket	Required			00
22	Removable Gland Plates	Required	Brass Continuity plate 0.8mm thick		01
23	Internal Mounting Plate	Thickness 3mm threaded		connected to Internal ground bar	00
24	Internal Ground Bar	Required		connected to earth stud	00
25	Earth Stud	Required			00
26	Drainage Valve	Required			00
27	Pad lockable Cover	Required			00
28	Identification Label	Trafolite/ Stainless Steel	Laminated Plastic	for all label	01
29	**Side 'A'**				
30	Hubs Qty.	5	5		01
31	Size	No.3 M25, No.2 M20	No.3 Ø 25.2 mm, No.2 Ø 20.2 mm		01
32	Thread	ISO-M			00
33	Plug	No. 1 M20, No.1 M25	No. 1 Ø 20.2 mm, No.1 Ø 25.2 mm	nickel-plated brass	01
34	**Side 'B'**				
35	Hubs Qty.	Not Required			00
36	Size	NA			00
37	Thread	NA			00
38	**Side 'C'**				
39	Hubs Qty.	Not Required			00
40	Size	NA			00
41	Thread	NA			00
42	**Side 'D'**				
43	Hubs Qty.	Not Required			00
44	Size	NA			00
45	Thread	NA			00
46	**Terminals**				
47	Size [mm^2]	Suitable for 6 Sq.mm & 2.5 Sq.mm Cable	M25 & M20	suitable with wire-end ferrules DIN 46228	01
48	Qty.	n°5 for Ph // n°5 for N // n°5 for PE	n°5 for Ph // n°5 for N // n°5 for PE	Ex - jumpered	01
49	**Bonding Cable (yellow/Green)**				
50	Size [mm^2]	by vendor		6 mm^2	01
51	Qty.	Min. 0.15m			00
52	**Dimension**				
53	Height 'H' [mm]	by vendor	120 mm		01
54	Width 'W' [mm]	by vendor	250 mm		01
55	Length 'L' [mm]	by vendor	255 mm		01
56	Weight [Kg]	by vendor	2.65 Kg		01
57	JB Code (*)	Remarks			
58					



NOTES:

(*) Filled by Vendor





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Tag Number	Tag Description	Location	P.O.	Vendor	Manufacturer	Serial Number	Model Type Catalogue Number	Installation Zone	ATEX Certificate Number	Reference Document	ATEX Certification Marking	Notes / Comments	Skid / Package	Electrical Equip.	Barrier Calculation Ref.	Special Conditions of Safe Use Applicable	3D Location
CB-200F4B	AC UPS F&G - Battery Isolator-B	CONTAINER B-300 (LOWER DECK)	1724000372	3W Power	Cortem Spa		EJBC	Zone 1	EPT 20 ATEX 4075X	1724000372-EL-DG-00011	II 2GDEx db IIC T6 Gb Ex tb IIIC T 85°C Db	-	N/A	True	N/A	False	
EAT-200N1-01	Trace Heating - Remote Ambient Thermostat	LOWER DECK	1724001647	nVent	nVent	1244-022663	ETS-05-A2-E-A	Zone 1	Baseefa 13ATEX0137	1724001647-EL-DD-00004	II 2(1)G Ex eb ia mb [ia Ga] IIC T5 Gb - 40ºC ≤ Ta ≤ +60ºC II 2D Ex tb IIIC T100ºC Db	-	N/A	True	N/A	False	
EHT-1001-A	Self-regulating heat cable	LOWER DECK	1724001647	nVent	nVent	469145-000	3BTV2-CT	Zone 1	SGS20ATEX0048X	1724001647-EL-DD-00004	II 2 GD Ex 60079-30-1 eb IIC T6 Gb	-	N/A	True	N/A	True	
EHT-1002-A	Self-regulating heat cable	LOWER DECK	1724001647	nVent	nVent	469145-000	3BTV2-CT	Zone 1	SGS20ATEX0048X	1724001647-EL-DD-00004	II 2 GD Ex 60079-30-1 eb IIC T6 Gb	-	N/A	True	N/A	True	
EHT-1003-A	Self-regulating heat cable	LOWER DECK	1724001647	nVent	nVent	469145-000	3BTV2-CT	Zone 1	SGS20ATEX0048X	1724001647-EL-DD-00004	II 2 GD Ex 60079-30-1 eb IIC T6 Gb	-	N/A	True	N/A	True	
EHT-1004-A	Self-regulating heat cable	UPPER DECK	1724001647	nVent	nVent	469145-000	3BTV2-CT	Zone 1	SGS20ATEX0048X	1724001647-EL-DD-00004	II 2 GD Ex 60079-30-1 eb IIC T6 Gb	-	N/A	True	N/A	True	
EHT-1004-B	Self-regulating heat cable	UPPER DECK	1724001647	nVent	nVent	469145-000	3BTV2-CT	Zone 1	SGS20ATEX0048X	1724001647-EL-DD-00004	II 2 GD Ex 60079-30-1 eb IIC T6 Gb	-	N/A	True	N/A	True	
EHT-1005-A	Self-regulating heat cable	UPPER DECK	1724001647	nVent	nVent	469145-000	3BTV2-CT	Zone 1	SGS20ATEX0048X	1724001647-EL-DD-00004	II 2 GD Ex 60079-30-1 eb IIC T6 Gb	-	N/A	True	N/A	True	
EHT-1006-A	Self-regulating heat cable	UPPER DECK	1724001647	nVent	nVent	469145-000	3BTV2-CT	Zone 1	SGS20ATEX0048X	1724001647-EL-DD-00004	II 2 GD Ex 60079-30-1 eb IIC T6 Gb	-	N/A	True	N/A	True	
EHT-1007-A	Self-regulating heat cable	LOWER DECK	1724001647	nVent	nVent	469145-000	3BTV2-CT	Zone 1	SGS20ATEX0048X	1724001647-EL-DD-00004	II 2 GD Ex 60079-30-1 eb IIC T6 Gb	-	N/A	True	N/A	True	
EHT-2002-A	Self-regulating heat cable	UPPER DECK	1724001647	nVent	nVent	469145-000	3BTV2-CT	Zone 1	SGS20ATEX0048X	1724001647-EL-DD-00004	II 2 GD Ex 60079-30-1 eb IIC T6 Gb	-	N/A	True	N/A	True	
EJB-200F2-01	Top Obstruction Lights Junction Box	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990082	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	HAZARDOUS-AREA_8 HAZARDOUS-AREA_3
EJB-200F2-02	Intermediate obstruction lights junction box	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990083	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	HAZARDOUS-AREA_4
EJB-200N1-02-L1-01	Normal Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990045	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-02-L1-02	Normal Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990044	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-02-L1-03	Normal Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990043	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	HAZARDOUS-AREA_3
EJB-200N1-02-L1-05	Normal Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990058	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-02-L1-06	Normal Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990057	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-02-L1-07	Normal Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990059	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-02-L1-08	Normal Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990060	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-02-L1-09	Normal Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990061	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-02-L1-10	Normal Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990047	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-02-L1-11	Normal Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990056	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-02-L1-12	Normal Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990055	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-02-L1-13	Normal Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990054	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-02-L1-14	Normal Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990053	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-02-L1-15	Normal Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990052	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-02-L1-16	Normal Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990051	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-02-L1-17	Normal Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990050	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-02-L1-18	Normal Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990049	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-02-L1-19	Normal Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990048	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-02-L1-20	Normal Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990072	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-03-L2-01	Normal Lighting JB	LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990003	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-03-L2-02	Normal Lighting JB	LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990004	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-03-L2-03	Normal Lighting JB	LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990002	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-03-L2-04	Normal Lighting JB	LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990001	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-03-L2-05	Normal Lighting JB	LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990012	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-03-L2-06	Normal Lighting JB	LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990011	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-03-L2-07	Normal Lighting JB	LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990010	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-03-L2-08	Normal Lighting JB	LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990009	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-03-L2-09	Normal Lighting JB	LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990008	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-03-L2-10	Normal Lighting JB	LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990007	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-03-L2-11	Normal Lighting JB	LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990006	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-03-L2-12	Normal Lighting JB	LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990005	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-03-L2-13	Normal Lighting JB	LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990014	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-03-L2-14	Normal Lighting JB	LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990013	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-04-L3-01	Stair Normal Lighting JB	LOWER DECK STAIRS	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990032	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-04-L3-02	Stair Normal Lighting JB	LOWER DECK STAIRS	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990033	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-08-L1-01	Emergency Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990064	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-08-L1-03	Emergency Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990062	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	HAZARDOUS-AREA_3
EJB-200N1-08-L1-04	Emergency Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990065	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-08-L1-05	Emergency Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990077	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-08-L1-06	Emergency Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990078	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	

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explosion safety solutions

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[1] # EU – TYPE EXAMINATION CERTIFICATE

[2] Equipment or Protective Systems Intended for use in Potentially Explosive Atmospheres Directive 2014/34/EU.

[3] EU-Type Examination Certificate Number: **FIDI 21 ATEX 0090X** Issue: **1**

[4] Product: **Junction boxes, local control stations and local control panels**

Type: **AQ-***P / AQ-***AL / AR-***P / AR-***AL**
AQ-*P-HT / AQ-***AL-HT / AR-***P-HT / AR-***AL-HT**
SB-* / ST-***
EFE-* / EFXE-*** AL / EFXE-***SB / EFXE-***ST**
EFE-*-HT / EFXE-***AL-HT**

[5] Manufacturer: **Technor Italsmea S.p.A.**

[6] Address: **Via Italia 33, 20060 Gessate (MI), Italy**

[7] This product and any acceptable variation thereto is specified in the schedule to this certificate and documents therein referred to.

[8] FIDITAS Ltd., Notified Body number 2829 in accordance with Article 17 of Directive 2014/34/EU of the European Parliament and of the Council, dated 26 February 2014, certifies that this product has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of products intended for use in potentially explosive atmospheres given in Annex II of the Directive.

The examination and test results are recorded in confidential Report No: **FIDI 21 CR 075**

[9] Compliance with the Essential Health and Safety Requirements has been assured by compliance with:

EN IEC 60079-0:2018	**EN 60079-1:2014**	**EN IEC 60079-7:2015 / A1:2018**
EN 60079-11:2012	**EN 60079-18:2015/A1:2017**	**EN 60079-31:2014**

except in respect of those requirements listed at item 18 of the Schedule.

[10] If the sign 'X' is placed after the certificate number, it indicates that the product is subject to Specific Conditions of Use specified in the schedule to this certificate.

[11] This EU-Type Examination Certificate relates only to the design, examination and test of the specified product in accordance with Annex III. Further requirements of the Directive apply to the manufacturing process and supply of this products. These are not covered by this certificate.

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[12] The marking of the product shall include the following:



II 1 G	**Ex ia IIC/IIB T6...T4 Ga**(2) or
II 2(1) G or **II 2(2) G**	**Ex db eb ia/ib mb [**(3)**] IIC/IIB T6...T4 Gb**(1) or
II 2 G	**Ex eb IIC/IIB T6...T4 Gb**(1) or
II 2 D	**Ex tb IIIC T85°C...T135°C Db**

(1) Others type of protection additional to 'eb' depending to the components actually mounted.

(2) In case of enclosures containing 'eb' terminals and/or 'ia Ga' already certified components (with compatible marking) only.

(3) Associated equipment protection depending on the components actually mounted (see lists): e.g. [ia/ib/ia Ga/ia IIIC Da] and/or [ia IIIC Da] or [ia/ib/ia Ga/ia IIIC Da] and/or [ia/ib/ia Ga] [ia IIIC Da]

Our ref.: 21.CRT.400

Date: 23. 12.2021.

Fiditas d.o.o. ZAGREB

FIDITAS Ltd.
Certification department
Approved:

Marino Kelava, M.E.Eng.

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[13] **SCHEDULE**

[14] **EU - TYPE EXAMINATION CERTIFICATE No.:** **FIDI 21 ATEX 0090X**

[15] **Description of product**

Junction boxes, local control stations and local control panels are made of 'eb' and 'tb' enclosures in stainless steel, aluminium alloy or glass fiber reinforced polyester resin, of various dimensions, which shall house 'eb' and/or 'ia/ib' terminals and/or Ex components or Ex equipment made in different type of Ex protection. All Ex terminals, Ex components and Ex equipment are covered by their own ATEX certificates.

The terminals and components are be used according to data available in related component certificates, in relevant temperature range, voltage and current limitations. The terminals must be fitted in accordance with EN IEC 60079-0 and EN IEC 60079-7 with regards to creepage and clearance distances, and according to related safety instructions.

The cover is fixed to the body with screw, between body and cover a gasket guarantee the protection degree IP66 (IP66/67 depending on models). The cover of stainless-steel enclosure can be also fixed the body with looking devices, between body and cover a gasket guarantee the protection degree IP66. The IP degree of junction boxes, local control stations and local control panels depend on the components actually mounted. The walls and the bottom of the boxes can be drilled and taped with maximum size and maximum number of holes as specified in the manufacturer documents.

The cable glands or plugs, with separate ATEX certificate, made in type of protection 'eb' and/or 'tb' with appropriate IP protection are mounted according to related manufacturer's installation instructions. Each enclosure is provided with internal earthing certified terminal or earthing screw or bolt. Metal enclosures are provided by external earthing screw or bolt. Metal and polyester enclosures can be provided by passing through earthing terminals.

All enclosures can be provided by:
- Externally installed accessories as specified in manufacturer documents,
- Drain breath device type ECR3, included in this certificate,
- Internal/external earthing plate.

Model identification

Junction boxes

A(1)-(2) (3) (4) (5) (6)	(1) –	**Q**: Square size **R**: Rectangular size
	(2) (3) (4)	dimension, in cm
	(5)	Material **P**: Glass fiber reinforced polyester resin **AL**: Aluminium Alloy
	(6)	None: up to internal temperature of 105°C **HT**: up to internal temperature of 130°C
SB- (2) (3) (4)	(2) (3) (4)	dimension, in cm
ST- (2) (3) (4)	(2) (3) (4)	dimension, in cm

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Panel boards

EFE- (2) (3) (4) (6)	(2) (3) (4)	dimension, in cm
	(6)	None: up to internal temperature of 105°C **HT**: up to internal temperature of 130°C
EFXE- (2) (3) (4) (5) (6)	(2) (3) (4)	dimension, in cm
		Material
	(5)	**SB** or **ST**: stainless steel **AL**: Aluminium Alloy
	(6)	None: up to internal temperature of 105°C **HT**: up to internal temperature of 130°C

Technical data:

Electrical data:	According to Ex component to actually installed
Ambient temperature:	-50°C ÷ +95°C Other possible ranges are with: - min temperature: -50°C to -20 °C - max temperature of +40 °C to +95 °C
Mechanical protection:	IP66/IP67 depending on models IP66 without swing handle element IP55 with swing handle element

Temperature class and/or maximum surface temperature of any junction box or control panel depend on ambient temperature and internal power dissipation. The values that must be observed are given in relevant tables in this certificate.

For commercial reasons model name listed in the tables below can be modified as follows: first (2) and second (3) pair of digits can be reversed.

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Model sizes

Polyester High Temperature		Aluminium High Temperature	
AQ-080806P-HT	EFE-080806-HT	AQ-080806AL-HT	EFXE-080806AL-HT
AQ-080808P-HT	EFE-080808-HT	AR-081306AL-HT	EFXE-081306AL-HT
AR-081106P-HT	EFE-081106-HT	AR-081806AL-HT	EFXE-081806AL-HT
AR-081108P-HT	EFE-081108-HT	AR-082505AL-HT	EFXE-082505AL-HT
AR-081606P-HT	EFE-081606-HT	AQ-101008AL-HT	EFXE-101008AL-HT
AR-081608P-HT	EFE-081608-HT	AR-101608AL-HT	EFXE-101608AL-HT
AR-081906P-HT	EFE-081906-HT	AR-102008AL-HT	EFXE-102008AL-HT
AR-081908P-HT	EFE-081908-HT	AQ-121208AL-HT	EFXE-121208AL-HT
AR-082306P-HT	EFE-082306-HT	AQ-121209AL-HT	EFXE-121209AL-HT
AR-082308P-HT	EFE-082308-HT	AR-122208AL-HT	EFXE-122208AL-HT
AQ-121209P-HT	EFE-121209-HT	AR-122209AL-HT	EFXE-122209AL-HT
AR-122209P-HT	EFE-122209-HT	AR-123608AL-HT	EFXE-123608AL-HT
AQ-161609P-HT	EFE-161609-HT	AQ-141409AL-HT	EFXE-141409AL-HT
AR-162609P-HT	EFE-162609-HT	AR-142009AL-HT	EFXE-142009AL-HT
AR-163609P-HT	EFE-163609-HT	AQ-161609AL-HT	EFXE-161609AL-HT
AR-165609P-HT	EFE-165609-HT	AR-162609AL-HT	EFXE-162609AL-HT
AQ-202017P-HT	EFE-202017-HT	AR-163609AL-HT	EFXE-163609AL-HT
AR-203017P-HT	EFE-203017-HT	AR-165609AL-HT	EFXE-165609AL-HT
AQ-252612P-HT	EFE-252612-HT	AQ-181810AL-HT	EFXE-181810AL-HT
AQ-252616P-HT	EFE-252616-HT	AR-182810AL-HT	EFXE-182810AL-HT
AR-254012P-HT	EFE-254012-HT	AR-102311AL-HT	EFXE-102311AL-HT
AR-254016P-HT	EFE-254016-HT	AR-202311AL-HT	EFXE-202311AL-HT
AR-256012P-HT	EFE-256012-HT	AR-202318AL-HT	EFXE-202318AL-HT
AR-304020P-HT	EFE-304020-HT	AR-232811AL-HT	EFXE-232811AL-HT
AQ-363609P-HT	EFE-363609-HT	AR-233311AL-HT	EFXE-233311AL-HT
AR-406025P-HT	EFE-406025-HT	AR-233318AL-HT	EFXE-233318AL-HT
AQ-414012P-HT	EFE-414012-HT	AR-234011AL-HT	EFXE-234011AL-HT
AQ-414020P-HT	EFE-414020-HT	AR-234023AL-HT	EFXE-234023AL-HT
		AR-236011AL-HT	EFXE-236011AL-HT
		AR-314011AL-HT	EFXE-314011AL-HT
		AR-314014AL-HT	EFXE-314014AL-HT
		AR-314018AL-HT	EFXE-314018AL-HT
		AR-314023AL-HT	EFXE-314023AL-HT
		AR-316011AL-HT	EFXE-316011AL-HT
		AR-316018AL-HT	EFXE-316018AL-HT
		AQ-606020AL-HT	EFXE-606020AL-HT

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Polyester		Aluminium		Stainless steel	
AQ-080806P	EFE-080806	AQ-080806AL	EFXE-080806AL	SB-101210	EFXE-101210SB
AQ-080808P	EFE-080808	AR-081306AL	EFXE-081306AL	SB-151510	EFXE-151510SB
AR-081106P	EFE-081106	AR-081806AL	EFXE-081806AL	SB-142013	EFXE-142013SB
AR-081606P	EFE-081606	AR-081808AL	EFXE-081808AL	SB-202010	EFXE-202010SB
AR-081906P	EFE-081906	AR-082505AL	EFXE-082505AL	SB-202016	EFXE-202016SB
AQ-121209P	EFE-121209	AR-082508AL	EFXE-082508AL	SB-202713	EFXE-202713SB
AR-122209P	EFE-122209	AQ-101008AL	EFXE-101008AL	SB-272713	EFXE-272713SB
AQ-161609P	EFE-161609	AR-101508AL	EFXE-101508AL	SB-203016	EFXE-203016SB
AR-162609P	EFE-162609	AR-101608AL	EFXE-101608AL	SB-273513	EFXE-273513SB
AR-163609P	EFE-163609	AR-102008AL	EFXE-102008AL	SB-282816	EFXE-282816SB
AQ-252612P	EFE-252612	AQ-121208AL	EFXE-121208AL	SB-204016	EFXE-204016SB
AQ-252616P	EFE-252616	AR-122209AL	EFXE-122209AL	SB-353516	EFXE-353516SB
AR-254012P	EFE-254012	AQ-141409AL	EFXE-141409AL	SB-282827	EFXE-282827SB
AR-254016P	EFE-254016	AR-142009AL	EFXE-142009AL	SB-355016	EFXE-355016SB
AR-256012P	EFE-256012	AQ-161609AL	EFXE-161609AL	SB-383816	EFXE-383816SB
AQ-414012P	EFE-414012	AR-162410AL	EFXE-162410AL	SB-384516	EFXE-384516SB
		AR-162609AL	EFXE-162609AL	SB-385716	EFXE-385716SB
		AQ-181810AL	EFXE-181810AL	SB-505016	EFXE-505016SB
		AR-182810AL	EFXE-182810AL	SB-383827	EFXE-383827SB
		AR-202311AL	EFXE-202311AL	SB-575716	EFXE-575716SB
		AR-202318AL	EFXE-202318AL	SB-577620	EFXE-577620SB
		AR-232811AL	EFXE-232811AL	SB-575730	EFXE-575730SB
		AR-233312AL	EFXE-233312AL	SB-769520	EFXE-769520SB
		AR-233318AL	EFXE-233318AL	SB-1258040	EFXE-1258040SB

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Enclosure types (Stainless steel)	
ST-101210	EFXE-101210ST
ST-151510	EFXE-151510ST
ST-142013	EFXE-142013ST
ST-202010	EFXE-202010ST
ST-202016	EFXE-202016ST
ST-202713	EFXE-202713ST
ST-272713	EFXE-272713ST
ST-203016	EFXE-203016ST
ST-273513	EFXE-273513ST
ST-282816	EFXE-282816ST
ST-204016	EFXE-204016ST
ST-353516	EFXE-353516ST
ST-282827	EFXE-282827ST
ST-355016	EFXE-355016ST
ST-383816	EFXE-383816ST
ST-384516	EFXE-384516ST
ST-385716	EFXE-385716ST
ST-505016	EFXE-505016ST
ST-383827	EFXE-383827ST
ST-575716	EFXE-575716ST
ST-577620	EFXE-577620ST
ST-575730	EFXE-575730ST
ST-769520	EFXE-769520ST
ST-1258040	EFXE-1258040ST

Note 2 For stainless steel enclosures: dimensions (2) and (3) can be decreased or increased up to 20%, dimensions (4) can be increased up to 500 mm. Model name changes consequently.

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Power dissipation – HT glass fiber reinforced polyester resin enclosures

Enclosure types (polyester)		Maximum power dissipation (W) – Tamb. up to **40**°C							
		INTERNAL TEMP.60°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)	INTERNAL TEMP.127°C (T4/T135°C)
AQ-080806P-HT	EFE-080806-HT	3,5	5,2	7,0	7,8	9,6	10,4	11,3	15,2
AQ-080808P-HT	EFE-080808-HT	4,6	6,8	9,1	10,2	12,5	13,7	14,8	19,8
AR-081106P-HT	EFE-081106-HT	4,3	6,4	8,5	9,6	11,8	12,8	13,9	18,6
AR-081108P-HT	EFE-081108-HT	5,6	8,4	11,2	12,6	15,3	16,7	18,1	24,2
AR-081606P-HT	EFE-081606-HT	5,8	8,7	11,6	13,0	15,9	17,4	18,8	25.2
AR-081608P-HT	EFE-081608-HT	6,8	10,2	13,7	15,4	18,8	20,5	22,2	29,7
AR-081906P-HT	EFE-081906-HT	6,4	9,6	12,8	14,4	17,6	19,2	20,8	27,8
AR-081908P-HT	EFE-081908-HT	7,5	11,3	15,1	17,0	20,7	22,6	24,5	32,7
AR-082306P-HT	EFE-082306-HT	7,2	10,8	14,4	16,2	19,8	21,6	23,4	31,3
AR-082308P-HT	EFE-082308-HT	8,5	12,7	16,9	19,0	23,3	25,4	27,5	36,7
AQ-121209P-HT	EFE-121209-HT	8,0	12,0	15,9	17,9	21,9	23,9	25,9	34,7
AR-122209P-HT	EFE-122209-HT	10,8	16,2	21,6	24,3	29,7	32,4	35,1	47,0
AQ-161609P-HT	EFE-161609-HT	10,4	15,6	20,8	23,4	28,6	31,2	33,8	45,2
AR-162609P-HT	EFE-162609-HT	13,4	20,1	26,8	30,2	36,9	40,2	43,6	58,3
AR-163609P-HT	EFE-163609-HT	16,2	24,3	32,4	36,5	44,6	48,6	52,7	70,5
AR-165609P-HT	EFE-165609-HT	21,4	32,0	42,7	48,1	58,7	64,1	69,4	92,9
AQ-202017P-HT	EFE-202017-HT	18,0	26,9	35,9	40,4	49,4	53,9	58,4	78,1
AR-203017P-HT	EFE-203017-HT	20,9	31,3	41,7	47,0	57,4	62,6	67,8	90,8
AQ-252612P-HT	EFE-252612-HT	18,8	28,2	37,6	42,4	51,8	56,5	61,2	81,9
AQ-252616P-HT	EFE-252616-HT	20,8	31,1	41,5	46,7	57,1	62,3	67,5	90,3
AR-254012P-HT	EFE-254012-HT	22,8	34,2	45,7	51,4	62,8	68,5	74,2	99,3
AR-254016P-HT	EFE-254016-HT	26,2	39,3	52,4	58,9	72,0	78,6	85,1	113,9
AR-256012P-HT	EFE-256012-HT	29,0	43,6	58,1	65,3	79,9	87,1	94,4	126,3
AR-304020P-HT	EFE-304020-HT	32,3	48,5	64,7	72,7	88,9	97,0	105,1	140,7
AQ-363609P-HT	EFE-363609-HT	23,0	34,6	46,1	51,8	63,4	69,1	74,9	100,2
AR-406025P-HT	EFE-406025-HT	50,3	75,5	100,7	113,3	138,4	151,0	163,6	218,9
AQ-414012P-HT	EFE-414012-HT	29,1	43,7	58,2	65,5	80,1	87,3	94,6	126,6
AQ-414020P-HT	EFE-414020-HT	36,6	55,0	73,3	82,4	100,8	109,9	119,1	159,4

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Enclosure types (polyester)		Maximum power dissipation (W) – Tamb. up to **50**°C							
		INTERNAL TEMP.60°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)	INTERNAL TEMP.127°C (T4/T135°C)
AQ-080806P-HT	EFE-080806-HT	1,7	3,5	5,2	6,1	7,8	8,7	9,6	13,4
AQ-080808P-HT	EFE-080808-HT	2,3	4,6	6,8	8,0	10,2	11,4	12,5	17,5
AR-081106P-HT	EFE-081106-HT	2,1	4,3	6,4	7,5	9,6	10,7	11,8	16,5
AR-081108P-HT	EFE-081108-HT	2,8	5,6	8,4	9,8	12,6	13,9	15,3	21.5
AR-081606P-HT	EFE-081606-HT	2,9	5,8	8,7	10,1	13,0	14,5	15,9	22,3
AR-081608P-HT	EFE-081608-HT	3,4	6,8	10,2	11,9	15,4	17,1	18,8	26,3
AR-081906P-HT	EFE-081906-HT	3,2	6,4	9,6	11,2	14,4	16,0	17,6	24,6
AR-081908P-HT	EFE-081908-HT	3,8	7,5	11,3	13,2	17,0	18,8	20,7	29,0
AR-082306P-HT	EFE-082306-HT	3,6	7,2	10,8	12,6	16,2	18,0	19,8	27,7
AR-082308P-HT	EFE-082308-HT	4,2	8,5	12,7	14,8	19,0	21,1	23,3	32,5
AQ-121209P-HT	EFE-121209-HT	4,0	8,0	12,0	14,0	17,9	19,9	21,9	30,7
AR-122209P-HT	EFE-122209-HT	5,4	10,8	16,2	18,9	24,3	27,0	29,7	41,6
AQ-161609P-HT	EFE-161609-HT	5,2	10,4	15,6	18,2	23,4	26,0	28,6	40,0
AR-162609P-HT	EFE-162609-HT	6,7	13,4	20,1	23,5	30,2	33,5	36,9	51,6
AR-163609P-HT	EFE-163609-HT	8,1	16,2	24,3	28,4	36,5	40,5	44,6	62,3
AR-165609P-HT	EFE-165609-HT	10,7	21,4	32,0	37,4	48,1	53,4	58,7	82,2
AQ-202017P-HT	EFE-202017-HT	9,0	18,0	26,9	31,4	40,4	44,9	49,4	69,1
AR-203017P-HT	EFE-203017-HT	10,4	20,9	31,3	36,5	47,0	52,2	57,4	80,4
AQ-252612P-HT	EFE-252612-HT	9,4	18,8	28,2	32,9	42,4	47,1	51,8	72,5
AQ-252616P-HT	EFE-252616-HT	10,4	20,8	31,1	36,3	46,7	51,9	57,1	79,9
AR-254012P-HT	EFE-254012-HT	11,4	22,8	34,2	39,9	51,4	57,1	62,8	87,9
AR-254016P-HT	EFE-254016-HT	13,1	26,2	39,3	45,8	58,9	65,5	72,0	100,8
AR-256012P-HT	EFE-256012-HT	14,5	29,0	43,6	50,8	65,3	72,6	79,9	111,8
AR-304020P-HT	EFE-304020-HT	16,2	32,3	48,5	56,6	72,7	80,8	88,9	124,4
AQ-363609P-HT	EFE-363609-HT	11,5	23,0	34,6	40,3	51,8	57,6	63,4	88,7
AR-406025P-HT	EFE-406025-HT	25,2	50,3	75,5	88,1	113,3	125,8	138,4	193,8
AQ-414012P-HT	EFE-414012-HT	14,6	29,1	43,7	51,0	65,5	72,8	80,1	112,1
AQ-414020P-HT	EFE-414020-HT	18,3	36,6	55,0	64,1	82,4	91,6	100,8	141,1

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Enclosure types (polyester)		Maximum power dissipation (W) – Tamb. up to **55**°C							
		INTERNAL TEMP.65°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)	INTERNAL TEMP.127°C (T4/T135°C)
AQ-080806P-HT	EFE-080806-HT	1,7	2,6	4,4	5,2	7,0	7,8	8,7	12,5
AQ-080808P-HT	EFE-080808-HT	2,3	3,4	5,7	6,8	9,1	10,2	11,4	16,2
AR-081106P-HT	EFE-081106-HT	2,1	3,2	5,3	6,4	8,5	9,6	10,7	15,2
AR-081108P-HT	EFE-081108-HT	2,8	4,2	7,0	8,4	11,2	12,6	13,9	19,8
AR-081606P-HT	EFE-081606-HT	2,9	4,3	7,2	8,7	11,6	13,0	14,5	20,6
AR-081608P-HT	EFE-081608-HT	3,4	5,1	8,5	10,2	13,7	15,4	17,1	24,3
AR-081906P-HT	EFE-081906-HT	3,2	4,8	8,0	9,6	12,8	14,4	16,0	22,8
AR-081908P-HT	EFE-081908-HT	3,8	5,7	9,4	11,3	15,1	17,0	18,8	26,8
AR-082306P-HT	EFE-082306-HT	3,6	5,4	9,0	10,8	14,4	16,2	18,0	25,6
AR-082308P-HT	EFE-082308-HT	4,2	6,3	10,6	12,7	16,9	19,0	21,1	30,0
AQ-121209P-HT	EFE-121209-HT	4,0	6,0	10,0	12,0	15,9	17,9	19,9	28,3
AR-122209P-HT	EFE-122209-HT	5,4	8,1	13,5	16,2	21,6	24,3	27,0	38,3
AQ-161609P-HT	EFE-161609-HT	5,2	7,8	13,0	15,6	20,8	23,4	26,0	36,9
AR-162609P-HT	EFE-162609-HT	6,7	10,1	16,8	20,1	26,8	30,2	33,5	47,6
AR-163609P-HT	EFE-163609-HT	8,1	12,2	20,3	24,3	32,4	36,5	40,5	57,5
AR-165609P-HT	EFE-165609-HT	10,7	16,0	26,7	32,0	42,7	48,1	53,4	75,8
AQ-202017P-HT	EFE-202017-HT	9,0	13,5	22,4	26,9	35,9	40,4	44,9	63,7
AR-203017P-HT	EFE-203017-HT	10,4	15,7	26,1	31,3	41,7	47,0	52,2	74,0
AQ-252612P-HT	EFE-252612-HT	9,4	14,1	23,5	28,2	37,6	42,4	47,1	66,8
AQ-252616P-HT	EFE-252616-HT	10,4	15,6	26,0	31,1	41,5	46,7	51,9	73,7
AR-254012P-HT	EFE-254012-HT	11,4	17,1	28,5	34,2	45,7	51,4	57,1	81,0
AR-254016P-HT	EFE-254016-HT	13,1	19,6	32,7	39,3	52,4	58,9	65,5	92,9
AR-256012P-HT	EFE-256012-HT	14,5	21,8	36,3	43,6	58,1	65,3	72,6	103,0
AR-304020P-HT	EFE-304020-HT	16,2	24,2	40,4	48,5	64,7	72,7	80,8	114,7
AQ-363609P-HT	EFE-363609-HT	11,5	17,3	28,8	34,6	46,1	51,8	57,6	81,8
AR-406025P-HT	EFE-406025-HT	25,2	37,8	62,9	75,5	100,7	113,3	125,8	178,6
AQ-414012P-HT	EFE-414012-HT	14,6	21,8	36,4	43,7	58,2	65,5	72,8	103,0
AQ-414020P-HT	EFE-414020-HT	18,3	27,5	45,8	55,0	73,3	82,4	91,6	130,0

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Enclosure types (polyester)		Maximum power dissipation (W) – Tamb. up to **60**°C						
		INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)	INTERNAL TEMP.127°C (T4/T135°C)
AQ-080806P-HT	EFE-080806-HT	1,7	3,5	4,4	6,1	7,0	7,8	11,7
AQ-080808P-HT	EFE-080808-HT	2,3	4,6	5,7	8,0	9,1	10,2	15,2
AR-081106P-HT	EFE-081106-HT	2,1	4,3	5,3	7,5	8,5	9,6	14,3
AR-081108P-HT	EFE-081108-HT	2,8	5,6	7,0	9,8	11,2	12,6	18,7
AR-081606P-HT	EFE-081606-HT	2,9	5,8	7,2	10,1	11,6	13,0	19,4
AR-081608P-HT	EFE-081608-HT	3,4	6,8	8,5	11,9	13,7	15,4	22,9
AR-081906P-HT	EFE-081906-HT	3,2	6,4	8,0	11,2	12,8	14,4	21,4
AR-081908P-HT	EFE-081908-HT	3,8	7,5	9,4	13,2	15,1	17,0	25,3
AR-082306P-HT	EFE-082306-HT	3,6	7,2	9,0	12,6	14,4	16,2	24,1
AR-082308P-HT	EFE-082308-HT	4,2	8,5	10,6	14,8	16,9	19,0	28,3
AQ-121209P-HT	EFE-121209-HT	4,0	8,0	10,0	14,0	15,9	17,9	26,7
AR-122209P-HT	EFE-122209-HT	5,4	10,8	13,5	18,9	21,6	24,3	36,2
AQ-161609P-HT	EFE-161609-HT	5,2	10,4	13,0	18,2	20,8	23,4	34,8
AR-162609P-HT	EFE-162609-HT	6,7	13,4	16,8	23,5	26,8	30,2	44,9
AR-163609P-HT	EFE-163609-HT	8,1	16,2	20,3	28,4	32,4	36,5	54,2
AR-165609P-HT	EFE-165609-HT	10,7	21,4	26,7	37,4	42,7	48,1	71,5
AQ-202017P-HT	EFE-202017-HT	9,0	18,0	22,4	31,4	35,9	40,4	60,1
AR-203017P-HT	EFE-203017-HT	10,4	20,9	26,1	36,5	41,7	47,0	69,9
AQ-252612P-HT	EFE-252612-HT	9,4	18,8	23,5	32,9	37,6	42,4	63,0
AQ-252616P-HT	EFE-252616-HT	10,4	20,8	26,0	36,3	41,5	46,7	69,5
AR-254012P-HT	EFE-254012-HT	11,4	22,8	28,5	39,9	45,7	51,4	76,5
AR-254016P-HT	EFE-254016-HT	13,1	26,2	32,7	45,8	52,4	58,9	87,7
AR-256012P-HT	EFE-256012-HT	14,5	29,0	36,3	50,8	58,1	65,3	97,2
AR-304020P-HT	EFE-304020-HT	16,2	32,3	40,4	56,6	64,7	72,7	108,3
AQ-363609P-HT	EFE-363609-HT	11,5	23,0	28,8	40,3	46,1	51,8	77,1
AR-406025P-HT	EFE-406025-HT	25,2	50,3	62,9	88,1	100,7	113,3	168,7
AQ-414012P-HT	EFE-414012-HT	14,6	29,1	36,4	51,0	58,2	65,5	97,5
AQ-414020P-HT	EFE-414020-HT	18,3	36,6	45,8	64,1	73,3	82,4	122,7

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Enclosure types (polyester)		Maximum power dissipation (W) Tamb. up to **95**°C		
		INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)	INTERNAL TEMP.127°C (T4/T135°C)
AQ-080806P-HT	EFE-080806-HT	0,9	1,7	5,6
AQ-080808P-HT	EFE-080808-HT	1,1	2,3	7,3
AR-081106P-HT	EFE-081106-HT	1,1	2,1	6,5
AR-081108P-HT	EFE-081108-HT	1,4	2,8	9,0
AR-081606P-HT	EFE-081606-HT	1,4	2,9	9,2
AR-081608P-HT	EFE-081608-HT	1,7	3,4	10,9
AR-081906P-HT	EFE-081906-HT	1,6	3,2	10,2
AR-081908P-HT	EFE-081908-HT	1,9	3,8	12,1
AR-082306P-HT	EFE-082306-HT	1,8	3,6	11,5
AR-082308P-HT	EFE-082308-HT	2,1	4,2	13,5
AQ-121209P-HT	EFE-121209-HT	2,0	4,0	12,8
AR-122209P-HT	EFE-122209-HT	2,7	5,4	17,3
AQ-161609P-HT	EFE-161609-HT	2,6	5,2	16,6
AR-162609P-HT	EFE-162609-HT	3,4	6,7	21,5
AR-163609P-HT	EFE-163609-HT	4,1	8,1	26,0
AR-165609P-HT	EFE-165609-HT	5,3	10,7	34,2
AQ-202017P-HT	EFE-202017-HT	4,5	9,0	28,7
AR-203017P-HT	EFE-203017-HT	5,2	10,4	33,4
AQ-252612P-HT	EFE-252612-HT	4,7	9,4	30,1
AQ-252616P-HT	EFE-252616-HT	5,2	10,4	33,2
AR-254012P-HT	EFE-254012-HT	5,7	11,4	36,5
AR-254016P-HT	EFE-254016-HT	6,5	13,1	41,9
AR-256012P-HT	EFE-256012-HT	7,3	14,5	46,4
AR-304020P-HT	EFE-304020-HT	8,1	16,2	51,8
AQ-363609P-HT	EFE-363609-HT	5,8	11,5	36,8
AR-406025P-HT	EFE-406025-HT	12,6	25,2	80,6
AQ-414012P-HT	EFE-414012-HT	7,3	14,6	46,6
AQ-414020P-HT	EFE-414020-HT	9,2	18,3	58,6

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Power dissipation – HT aluminum alloy enclosures

Enclosure types (aluminium)		Maximum power dissipation (W) – Tamb. up to **40**°C							
		INTERNAL TEMP.60°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)	INTERNAL TEMP.130°C (T4/T135°C)
AQ-080806AL-HT	EFXE-080806AL-HT	5,2	7,8	10,4	11,7	14,3	15,6	16,9	23,4
AR-081306AL-HT	EFXE-081306AL-HT	7,0	10,6	14,1	15,9	19,4	21,2	23,0	31,8
AR-081806AL-HT	EFXE-081806AL-HT	8,9	13,3	17,8	20,0	24,5	26,7	28,9	40,0
AR-082505AL-HT	EFXE-082505AL-HT	10,9	16,4	21,9	24,7	30,1	32,9	35,6	49,4
AQ-101008AL-HT	EFXE-101008AL-HT	8,7	13,0	17,4	19,6	23,9	26,1	28,3	39,2
AR-101608AL-HT	EFXE-101608AL-HT	11,5	17,3	23,1	26,0	31,8	34,7	37,6	52,0
AR-102008AL-HT	EFXE-102008AL-HT	13,4	20,1	26,8	30,2	36,9	40,3	43,6	60,4
AQ-121208AL-HT	EFXE-121208AL-HT	10,8	16,2	21,6	24,3	29,7	32,4	35,1	48,6
AQ-121209AL-HT	EFXE-121209AL-HT	11,6	17,5	23,3	26,2	32,1	35,0	37,9	52,5
AR-122208AL-HT	EFXE-122208AL-HT	15,6	23,5	31,3	35,3	43,1	47,0	50,9	70,6
AR-122209AL-HT	EFXE-122209AL-HT	16,8	25,3	33,7	37,9	46,3	50,6	54,8	75,9
AR-123608AL-HT	EFXE-123608AL-HT	22,3	33,5	44,7	50,3	61,5	67,1	72,7	100,7
AQ-141409AL-HT	EFXE-141409AL-HT	13,7	20,6	27,5	31,0	37,9	41,3	44,8	62,0
AR-142009AL-HT	EFXE-142009AL-HT	17,1	25,7	34,2	38,5	47,1	51,4	55,7	77,1
AQ-161609AL-HT	EFXE-161609AL-HT	16,1	24,1	32,2	36,2	44,2	48,3	52,3	72,4
AR-162609AL-HT	EFXE-162609AL-HT	21,9	32,8	43,8	49,3	60,2	65,7	71,2	98,6
AR-163609AL-HT	EFXE-163609AL-HT	27,5	41,3	55,1	62,0	75,7	82,6	89,5	124,0
AR-165609AL-HT	EFXE-165609AL-HT	38,4	57,7	76,9	86,6	105,8	115,4	125,0	173,2
AQ-181810AL-HT	EFXE-181810AL-HT	19,7	29,6	39,5	44,4	54,3	59,2	64,2	88,8
AR-182810AL-HT	EFXE-182810AL-HT	26,1	39,1	52,2	58,7	71,8	78,3	84,8	117,5
AR-102311AL-HT	EFXE-102311AL-HT	18,2	27,3	36,5	41,0	50,1	54,7	59,3	82,1
AR-202311AL-HT	EFXE-202311AL-HT	26,1	39,1	52,2	58,7	71,7	78,3	84,8	117,4
AR-202318AL-HT	EFXE-202318AL-HT	35,9	53,9	71,8	80,8	98,8	107,8	116,8	161,7
AR-232811AL-HT	EFXE-232811AL-HT	31,6	47,5	63,3	71,3	87,1	95,0	103,0	142,6
AR-233311AL-HT	EFXE-233311AL-HT	35,3	52,9	70,6	79,4	97,0	105,9	114,7	158,8
AR-233318AL-HT	EFXE-233318AL-HT	47,5	71,3	95,1	107,0	130,8	142,7	154,6	214,1
AR-234011AL-HT	EFXE-234011AL-HT	40,2	60,4	80,5	90,6	110,7	120,8	130,9	181,2
AR-234023AL-HT	EFXE-234023AL-HT	62,2	93,3	124,5	140,0	171,2	186,7	202,3	280,1
AR-236011AL-HT	EFXE-236011AL-HT	54,1	81,2	108,3	121,9	148,9	162,5	176,0	243,8
AR-314011AL-HT	EFXE-314011AL-HT	48,6	72,9	97,2	109,3	133,6	145,8	157,9	218,7
AR-314014AL-HT	EFXE-314014AL-HT	54,9	82,4	109,9	123,7	151,2	164,9	178,7	247,4
AR-314018AL-HT	EFXE-314018AL-HT	63,8	95,7	127,6	143,5	175,4	191,4	207,3	287,1
AR-314023AL-HT	EFXE-314023AL-HT	73,5	110,3	147,1	165,5	202,3	220,7	239,1	331,0
AR-316011AL-HT	EFXE-316011AL-HT	64,0	96,0	128,1	144,1	176,1	192,1	208,1	288,2
AR-316018AL-HT	EFXE-316018AL-HT	82,7	124,1	165,5	186,2	227,6	248,3	268,9	372,4
AQ-606020AL-HT	EFXE-606020AL-HT	129,1	193,7	258,3	290,5	355,1	387,4	419,7	581,1

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Enclosure types (aluminium)		Maximum power dissipation (W) – Tamb. up to **50**°C							
		INTERNAL TEMP.60°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)	INTERNAL TEMP.130°C (T4/T135°C)
AQ-080806AL-HT	EFXE-080806AL-HT	2,6	5,2	7,8	9,1	11,7	13,0	14,3	20,8
AR-081306AL-HT	EFXE-081306AL-HT	3,5	7,0	10,6	12,3	15,9	17,7	19,4	28,3
AR-081806AL-HT	EFXE-081806AL-HT	4,4	8,9	13,3	15,5	20,0	22,2	24,5	35,6
AR-082505AL-HT	EFXE-082505AL-HT	5,4	10,9	16,4	19,2	24,7	27,4	30,1	43,9
AQ-101008AL-HT	EFXE-101008AL-HT	4,3	8,7	13,0	15,2	19,6	21,7	23,9	34,8
AR-101608AL-HT	EFXE-101608AL-HT	5,7	11,5	17,3	20,2	26,0	28,9	31,8	46,2
AR-102008AL-HT	EFXE-102008AL-HT	6,7	13,4	20,1	23,5	30,2	33,5	36,9	53,7
AQ-121208AL-HT	EFXE-121208AL-HT	5,4	10,8	16,2	18,9	24,3	27,0	29,7	43,2
AQ-121209AL-HT	EFXE-121209AL-HT	5,8	11,6	17,5	20,4	26,2	29,2	32,1	46,7
AR-122208AL-HT	EFXE-122208AL-HT	7,8	15,6	23,5	27,4	35,3	39,2	43,1	62,7
AR-122209AL-HT	EFXE-122209AL-HT	8,4	16,8	25,3	29,5	37,9	42,1	46,3	67,4
AR-123608AL-HT	EFXE-123608AL-HT	11,1	22,3	33,5	39,1	50,3	55,9	61,5	89,5
AQ-141409AL-HT	EFXE-141409AL-HT	6,8	13,7	20,6	24,1	31,0	34,4	37,9	55,1
AR-142009AL-HT	EFXE-142009AL-HT	8,5	17,1	25,7	30,0	38,5	42,8	47,1	68,5
AQ-161609AL-HT	EFXE-161609AL-HT	8,0	16,1	24,1	28,1	36,2	40,2	44,2	64,4
AR-162609AL-HT	EFXE-162609AL-HT	10,9	21,9	32,8	38,3	49,3	54,8	60,2	87,6
AR-163609AL-HT	EFXE-163609AL-HT	13,7	27,5	41,3	48,2	62,0	68,9	75,7	110,2
AR-165609AL-HT	EFXE-165609AL-HT	19,2	38,4	57,7	67,3	86,6	96,2	105,8	153,9
AQ-181810AL-HT	EFXE-181810AL-HT	9,8	19,7	29,6	34,5	44,4	49,3	54,3	79,0
AR-182810AL-HT	EFXE-182810AL-HT	13,0	26,1	39,1	45,7	58,7	65,2	71,8	104,4
AR-102311AL-HT	EFXE-102311AL-HT	9,1	18,2	27,3	31,9	41,0	45,6	50,1	73,0
AR-202311AL-HT	EFXE-202311AL-HT	13,0	26,1	39,1	45,6	58,7	65,2	71,7	104,4
AR-202318AL-HT	EFXE-202318AL-HT	17,9	35,9	53,9	62,8	80,8	89,8	98,8	143,7
AR-232811AL-HT	EFXE-232811AL-HT	15,8	31,6	47,5	55,4	71,3	79,2	87,1	126,7
AR-233311AL-HT	EFXE-233311AL-HT	17,6	35,3	52,9	61,7	79,4	88,2	97,0	141,2
AR-233318AL-HT	EFXE-233318AL-HT	23,7	47,5	71,3	83,2	107,0	118,9	130,8	190,3
AR-234011AL-HT	EFXE-234011AL-HT	20,1	40,2	60,4	70,5	90,6	100,7	110,7	161,1
AR-234023AL-HT	EFXE-234023AL-HT	31,1	62,2	93,3	108,9	140,0	155,6	171,2	249,0
AR-236011AL-HT	EFXE-236011AL-HT	27,0	54,1	81,2	94,8	121,9	135,4	148,9	216,7
AR-314011AL-HT	EFXE-314011AL-HT	24,3	48,6	72,9	85,0	109,3	121,5	133,6	194,4
AR-314014AL-HT	EFXE-314014AL-HT	27,4	54,9	82,4	96,2	123,7	137,4	151,2	219,9
AR-314018AL-HT	EFXE-314018AL-HT	31,9	63,8	95,7	111,6	143,5	159,5	175,4	255,2
AR-314023AL-HT	EFXE-314023AL-HT	36,7	73,5	110,3	128,7	165,5	183,9	202,3	294,2
AR-316011AL-HT	EFXE-316011AL-HT	32,0	64,0	96,0	112,0	144,1	160,1	176,1	256,2
AR-316018AL-HT	EFXE-316018AL-HT	41,3	82,7	124,1	144,8	186,2	206,9	227,6	331,0
AQ-606020AL-HT	EFXE-606020AL-HT	64,5	129,1	193,7	226,0	290,5	322,8	355,1	516,6

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Enclosure types (aluminium)		Maximum power dissipation (W) – Tamb. up to **55**°C							
		INTERNAL TEMP.65°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)	INTERNAL TEMP.130°C (T4/T135°C)
AQ-080806AL-HT	EFXE-080806AL-HT	2,6	3,9	6,5	7,8	10,4	11,7	13,0	19,5
AR-081306AL-HT	EFXE-081306AL-HT	3,5	5,3	8,8	10,6	14,1	15,9	17,7	26,5
AR-081806AL-HT	EFXE-081806AL-HT	4,4	6,6	11,1	13,3	17,8	20,0	22,2	33,4
AR-082505AL-HT	EFXE-082505AL-HT	5,4	8,2	13,7	16,4	21,9	24,7	27,4	41,1
AQ-101008AL-HT	EFXE-101008AL-HT	4,3	6,5	10,8	13,0	17,4	19,6	21,7	32,6
AR-101608AL-HT	EFXE-101608AL-HT	5,7	8,6	14,4	17,3	23,1	26,0	28,9	43,3
AR-102008AL-HT	EFXE-102008AL-HT	6,7	10,0	16,7	20,1	26,8	30,2	33,5	50,3
AQ-121208AL-HT	EFXE-121208AL-HT	5,4	8,1	13,5	16,2	21,6	24,3	27,0	40,5
AQ-121209AL-HT	EFXE-121209AL-HT	5,8	8,7	14,6	17,5	23,3	26,2	29,2	43,8
AR-122208AL-HT	EFXE-122208AL-HT	7,8	11,7	19,6	23,5	31,3	35,3	39,2	58,8
AR-122209AL-HT	EFXE-122209AL-HT	8,4	12,6	21,0	25,3	33,7	37,9	42,1	63,2
AR-123608AL-HT	EFXE-123608AL-HT	11,1	16,7	27,9	33,5	44,7	50,3	55,9	83,9
AQ-141409AL-HT	EFXE-141409AL-HT	6,8	10,3	17,2	20,6	27,5	31,0	34,4	51,7
AR-142009AL-HT	EFXE-142009AL-HT	8,5	12,8	21,4	25,7	34,2	38,5	42,8	64,3
AQ-161609AL-HT	EFXE-161609AL-HT	8,0	12,0	20,1	24,1	32,2	36,2	40,2	60,4
AR-162609AL-HT	EFXE-162609AL-HT	10,9	16,4	27,4	32,8	43,8	49,3	54,8	82,2
AR-163609AL-HT	EFXE-163609AL-HT	13,7	20,6	34,4	41,3	55,1	62,0	68,9	103,3
AR-165609AL-HT	EFXE-165609AL-HT	19,2	28,8	48,1	57,7	76,9	86,6	96,2	144,3
AQ-181810AL-HT	EFXE-181810AL-HT	9,8	14,8	24,6	29,6	39,5	44,4	49,3	74,0
AR-182810AL-HT	EFXE-182810AL-HT	13,0	19,5	32,6	39,1	52,2	58,7	65,2	97,9
AR-102311AL-HT	EFXE-102311AL-HT	9,1	13,6	22,8	27,3	36,5	41,0	45,6	68,4
AR-202311AL-HT	EFXE-202311AL-HT	13,0	19,5	32,6	39,1	52,2	58,7	65,2	97,9
AR-202318AL-HT	EFXE-202318AL-HT	17,9	26,9	44,9	53,9	71,8	80,8	89,8	134,7
AR-232811AL-HT	EFXE-232811AL-HT	15,8	23,7	39,6	47,5	63,3	71,3	79,2	118,8
AR-233311AL-HT	EFXE-233311AL-HT	17,6	26,4	44,1	52,9	70,6	79,4	88,2	132,3
AR-233318AL-HT	EFXE-233318AL-HT	23,7	35,6	59,4	71,3	95,1	107,0	118,9	178,4
AR-234011AL-HT	EFXE-234011AL-HT	20,1	30,2	50,3	60,4	80,5	90,6	100,7	151,0
AR-234023AL-HT	EFXE-234023AL-HT	31,1	46,6	77,8	93,3	124,5	140,0	155,6	233,4
AR-236011AL-HT	EFXE-236011AL-HT	27,0	40,6	67,7	81,2	108,3	121,9	135,4	203,1
AR-314011AL-HT	EFXE-314011AL-HT	24,3	36,4	60,7	72,9	97,2	109,3	121,5	182,3
AR-314014AL-HT	EFXE-314014AL-HT	27,4	41,2	68,7	82,4	109,9	123,7	137,4	206,2
AR-314018AL-HT	EFXE-314018AL-HT	31,9	47,8	79,7	95,7	127,6	143,5	159,5	239,2
AR-314023AL-HT	EFXE-314023AL-HT	36,7	55,1	91,9	110,3	147,1	165,5	183,9	275,8
AR-316011AL-HT	EFXE-316011AL-HT	32,0	48,0	80,0	96,0	128,1	144,1	160,1	240,1
AR-316018AL-HT	EFXE-316018AL-HT	41,3	62,0	103,4	124,1	165,5	186,2	206,9	310,3
AQ-606020AL-HT	EFXE-606020AL-HT	64,5	96,8	161,4	193,7	258,3	290,5	322,8	484,3

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Enclosure types (aluminium)		Maximum power dissipation (W) – Tamb. up to **60**°C						
		INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)	INTERNAL TEMP.130°C (T4/T135°C)
AQ-080806AL-HT	EFXE-080806AL-HT	2,6	5,2	6,5	9,1	10,4	11,7	18,2
AR-081306AL-HT	EFXE-081306AL-HT	3,5	7,0	8,8	12,3	14,1	15,9	24,7
AR-081806AL-HT	EFXE-081806AL-HT	4,4	8,9	11,1	15,5	17,8	20,0	31,1
AR-082505AL-HT	EFXE-082505AL-HT	5,4	10,9	13,7	19,2	21,9	24,7	38,4
AQ-101008AL-HT	EFXE-101008AL-HT	4,3	8,7	10,8	15,2	17,4	19,6	30,4
AR-101608AL-HT	EFXE-101608AL-HT	5,7	11,5	14,4	20,2	23,1	26,0	40,5
AR-102008AL-HT	EFXE-102008AL-HT	6,7	13,4	16,7	23,5	26,8	30,2	47,0
AQ-121208AL-HT	EFXE-121208AL-HT	5,4	10,8	13,5	18,9	21,6	24,3	37,8
AQ-121209AL-HT	EFXE-121209AL-HT	5,8	11,6	14,6	20,4	23,3	26,2	40,8
AR-122208AL-HT	EFXE-122208AL-HT	7,8	15,6	19,6	27,4	31,3	35,3	54,9
AR-122209AL-HT	EFXE-122209AL-HT	8,4	16,8	21,0	29,5	33,7	37,9	59,0
AR-123608AL-HT	EFXE-123608AL-HT	11,1	22,3	27,9	39,1	44,7	50,3	78,3
AQ-141409AL-HT	EFXE-141409AL-HT	6,8	13,7	17,2	24,1	27,5	31,0	48,2
AR-142009AL-HT	EFXE-142009AL-HT	8,5	17,1	21,4	30,0	34,2	38,5	60,0
AQ-161609AL-HT	EFXE-161609AL-HT	8,0	16,1	20,1	28,1	32,2	36,2	56,3
AR-162609AL-HT	EFXE-162609AL-HT	10,9	21,9	27,4	38,3	43,8	49,3	76,7
AR-163609AL-HT	EFXE-163609AL-HT	13,7	27,5	34,4	48,2	55,1	62,0	96,4
AR-165609AL-HT	EFXE-165609AL-HT	19,2	38,4	48,1	67,3	76,9	86,6	134,7
AQ-181810AL-HT	EFXE-181810AL-HT	9,8	19,7	24,6	34,5	39,5	44,4	69,1
AR-182810AL-HT	EFXE-182810AL-HT	13,0	26,1	32,6	45,7	52,2	58,7	91,4
AR-102311AL-HT	EFXE-102311AL-HT	9,1	18,2	22,8	31,9	36,5	41,0	63,8
AR-202311AL-HT	EFXE-202311AL-HT	13,0	26,1	32,6	45,6	52,2	58,7	91,3
AR-202318AL-HT	EFXE-202318AL-HT	17,9	35,9	44,9	62,8	71,8	80,8	125,7
AR-232811AL-HT	EFXE-232811AL-HT	15,8	31,6	39,6	55,4	63,3	71,3	110,9
AR-233311AL-HT	EFXE-233311AL-HT	17,6	35,3	44,1	61,7	70,6	79,4	123,5
AR-233318AL-HT	EFXE-233318AL-HT	23,7	47,5	59,4	83,2	95,1	107,0	166,5
AR-234011AL-HT	EFXE-234011AL-HT	20,1	40,2	50,3	70,5	80,5	90,6	141,0
AR-234023AL-HT	EFXE-234023AL-HT	31,1	62,2	77,8	108,9	124,5	140,0	217,9
AR-236011AL-HT	EFXE-236011AL-HT	27,0	54,1	67,7	94,8	108,3	121,9	189,6
AR-314011AL-HT	EFXE-314011AL-HT	24,3	48,6	60,7	85,0	97,2	109,3	170,1
AR-314014AL-HT	EFXE-314014AL-HT	27,4	54,9	68,7	96,2	109,9	123,7	192,4
AR-314018AL-HT	EFXE-314018AL-HT	31,9	63,8	79,7	111,6	127,6	143,5	223,3
AR-314023AL-HT	EFXE-314023AL-HT	36,7	73,5	91,9	128,7	147,1	165,5	257,4
AR-316011AL-HT	EFXE-316011AL-HT	32,0	64,0	80,0	112,0	128,1	144,1	224,1
AR-316018AL-HT	EFXE-316018AL-HT	41,3	82,7	103,4	144,8	165,5	186,2	289,6
AQ-606020AL-HT	EFXE-606020AL-HT	64,5	129,1	161,4	226,0	258,3	290,5	452,0

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Enclosure types (aluminium)		Maximum power dissipation (W) Tamb. up to **95**°C		
		INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)	INTERNAL TEMP.130°C (T4/T135°C)
AQ-080806AL-HT	EFXE-080806AL-HT	1,3	2,6	9,1
AR-081306AL-HT	EFXE-081306AL-HT	1,7	3,5	12,3
AR-081806AL-HT	EFXE-081806AL-HT	2,2	4,4	15,5
AR-082505AL-HT	EFXE-082505AL-HT	2,7	5,4	19,2
AQ-101008AL-HT	EFXE-101008AL-HT	2,1	4,3	15,2
AR-101608AL-HT	EFXE-101608AL-HT	2,8	5,7	20,2
AR-102008AL-HT	EFXE-102008AL-HT	3,3	6,7	23,5
AQ-121208AL-HT	EFXE-121208AL-HT	2,7	5,4	18,9
AQ-121209AL-HT	EFXE-121209AL-HT	2,9	5,8	20,4
AR-122208AL-HT	EFXE-122208AL-HT	3,9	7,8	27,4
AR-122209AL-HT	EFXE-122209AL-HT	4,2	8,4	29,5
AR-123608AL-HT	EFXE-123608AL-HT	5,5	11,1	39,1
AQ-141409AL-HT	EFXE-141409AL-HT	3,4	6,8	24,1
AR-142009AL-HT	EFXE-142009AL-HT	4,2	8,5	30,0
AQ-161609AL-HT	EFXE-161609AL-HT	4,0	8,0	28,1
AR-162609AL-HT	EFXE-162609AL-HT	5,4	10,9	38,3
AR-163609AL-HT	EFXE-163609AL-HT	6,8	13,7	48,2
AR-165609AL-HT	EFXE-165609AL-HT	9,6	19,2	67,3
AQ-181810AL-HT	EFXE-181810AL-HT	4,9	9,8	34,5
AR-182810AL-HT	EFXE-182810AL-HT	6,5	13,0	45,7
AR-102311AL-HT	EFXE-102311AL-HT	4,5	9,1	31,9
AR-202311AL-HT	EFXE-202311AL-HT	6,5	13,0	45,6
AR-202318AL-HT	EFXE-202318AL-HT	8,9	17,9	62,8
AR-232811AL-HT	EFXE-232811AL-HT	7,9	15,8	55,4
AR-233311AL-HT	EFXE-233311AL-HT	8,8	17,6	61,7
AR-233318AL-HT	EFXE-233318AL-HT	11,8	23,7	83,2
AR-234011AL-HT	EFXE-234011AL-HT	10,0	20,1	70,5
AR-234023AL-HT	EFXE-234023AL-HT	15,5	31,1	108,9
AR-236011AL-HT	EFXE-236011AL-HT	13,5	27,0	94,8
AR-314011AL-HT	EFXE-314011AL-HT	12,1	24,3	85,0
AR-314014AL-HT	EFXE-314014AL-HT	13,7	27,4	96,2
AR-314018AL-HT	EFXE-314018AL-HT	15,9	31,9	111,6
AR-314023AL-HT	EFXE-314023AL-HT	18,3	36,7	128,7
AR-316011AL-HT	EFXE-316011AL-HT	16,0	32,0	112,0
AR-316018AL-HT	EFXE-316018AL-HT	20,6	41,3	144,8
AQ-606020AL-HT	EFXE-606020AL-HT	32,2	64,5	226,0

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Power dissipation – Glass fiber reinforced polyester resin enclosures

Enclosure types (polyester)		Maximum power dissipation (W) – Tamb. up to **40**°C						
		INTERNAL TEMP.60°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
AQ-080806P	EFE-080806	3,4	5,2	6,9	7,8	9,5	10,4	11,3
AQ-080808P	EFE-080808	4,5	6,8	9,1	10,2	12,5	13,6	14,7
AR-081106P	EFE-081106	4,2	6,4	8,5	9,6	11,7	12,8	13,8
AR-081606P	EFE-081606	5,7	8,6	11,5	13,0	15,9	17,3	18,8
AR-081906P	EFE-081906	6,4	9,6	12,8	14,4	17,6	19,2	20,8
AQ-121209P	EFE-121209	7,9	11,9	15,9	17,9	21,9	23,9	25,9
AR-122209P	EFE-122209	10,8	16,2	21,6	24,3	29,7	32,4	35,1
AQ-161609P	EFE-161609	10,3	15,5	20,7	23,3	28,5	31,1	33,7
AR-162609P	EFE-162609	13,4	20,1	26,8	30,1	36,8	40,2	43,5
AR-163609P	EFE-163609	16,2	24,3	32,4	36,4	44,5	48,6	52,6
AQ-252612P	EFE-252612	18,8	28,2	37,6	42,3	51,7	56,4	61,1
AQ-252616P	EFE-252616	21,7	32,6	43,5	49,0	59,9	65,3	70,8
AR-254012P	EFE-254012	23,9	35,9	47,9	53,9	65,9	71,8	77,8
AR-254016P	EFE-254016	27,4	41,2	54,9	61,8	75,6	82,4	89,3
AR-256012P	EFE-256012	29,0	43,5	58,0	65,3	79,8	87,1	94,3
AQ-414012P	EFE-414012	29,1	43,6	58,2	65,5	80,0	87,3	94,6
AQ-414016P	EFE-414016	32,9	49,4	65,9	74,1	90,6	98,8	107,0

Enclosure types (polyester)		Maximum power dissipation (W) – Tamb. up to **50**°C						
		INTERNAL TEMP.60°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
AQ-080806P	EFE-080806	1,7	3,4	5,2	6,0	7,8	8,7	9,5
AQ-080808P	EFE-080808	2,2	4,5	6,8	7,9	10,2	11,3	12,5
AR-081106P	EFE-081106	2,1	4,2	6,4	7,4	9,6	10,6	11,7
AR-081606P	EFE-081606	2,8	5,7	8,6	10,1	13,0	14,4	15,9
AR-081906P	EFE-081906	3,2	6,4	9,6	11,2	14,4	16,0	17,6
AQ-121209P	EFE-121209	3,9	7,9	11,9	13,9	17,9	19,9	21,9
AR-122209P	EFE-122209	5,4	10,8	16,2	18,9	24,3	27,0	29,7
AQ-161609P	EFE-161609	5,1	10,3	15,5	18,1	23,3	25,9	28,5
AR-162609P	EFE-162609	6,7	13,4	20,1	23,4	30,1	33,5	36,8
AR-163609P	EFE-163609	8,1	16,2	24,3	28,3	36,4	40,5	44,5
AQ-252612P	EFE-252612	9,4	18,8	28,2	32,9	42,3	47,0	51,7
AQ-252616P	EFE-252616	10,8	21,7	32,6	38,1	49,0	54,4	59,9
AR-254012P	EFE-254012	11,9	23,9	35,9	41,9	53,9	59,9	65,9
AR-254016P	EFE-254016	13,7	27,4	41,2	48,1	61,8	68,7	75,6
AR-256012P	EFE-256012	14,5	29,0	43,5	50,8	65,3	72,6	79,8
AQ-414012P	EFE-414012	14,5	29,1	43,6	50,9	65,5	72,7	80,0
AQ-414016P	EFE-414016	16,4	32,9	49,4	57,6	74,1	82,3	90,6

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Enclosure types (polyester)		Maximum power dissipation (W) – Tamb. up to **55**°C						
		INTERNAL TEMP.65°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
AQ-080806P	EFE-080806	1,7	2,6	4,3	5,2	6,9	7,8	8,7
AQ-080808P	EFE-080808	2,2	3,4	5,6	6,8	9,1	10,2	11,3
AR-081106P	EFE-081106	2,1	3,2	5,3	6,4	8,5	9,6	10,6
AR-081606P	EFE-081606	2,8	4,3	7,2	8,6	11,5	13,0	14,4
AR-081906P	EFE-081906	3,2	4,8	8,0	9,6	12,8	14,4	16,0
AQ-121209P	EFE-121209	3,9	5,9	9,9	11,9	15,9	17,9	19,9
AR-122209P	EFE-122209	5,4	8,1	13,5	16,2	21,6	24,3	27,0
AQ-161609P	EFE-161609	5,1	7,7	12,9	15,5	20,7	23,3	25,9
AR-162609P	EFE-162609	6,7	10,0	16,7	20,1	26,8	30,1	33,5
AR-163609P	EFE-163609	8,1	12,1	20,2	24,3	32,4	36,4	40,5
AQ-252612P	EFE-252612	9,4	14,1	23,5	28,2	37,6	42,3	47,0
AQ-252616P	EFE-252616	10,8	16,3	27,2	32,6	43,5	49,0	54,4
AR-254012P	EFE-254012	11,9	17,9	29,9	35,9	47,9	53,9	59,9
AR-254016P	EFE-254016	13,7	20,6	34,3	41,2	54,9	61,8	68,7
AR-256012P	EFE-256012	14,5	21,7	36,3	43,5	58,0	65,3	72,6
AQ-414012P	EFE-414012	14,5	21,8	36,3	43,6	58,2	65,5	72,7
AQ-414016P	EFE-414016	16,4	24,7	41,1	49,4	65,9	74,1	82,3

Enclosure types (polyester)		Maximum power dissipation (W) – Tamb. up to **60**°C					
		INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
AQ-080806P	EFE-080806	1,7	3,4	4,3	6,0	6,9	7,8
AQ-080808P	EFE-080808	2,2	4,5	5,6	7,9	9,1	10,2
AR-081106P	EFE-081106	2,1	4,2	5,3	7,4	8,5	9,6
AR-081606P	EFE-081606	2,8	5,7	7,2	10,1	11,5	13,0
AR-081906P	EFE-081906	3,2	6,4	8,0	11,2	12,8	14,4
AQ-121209P	EFE-121209	3,9	7,9	9,9	13,9	15,9	17,9
AR-122209P	EFE-122209	5,4	10,8	13,5	18,9	21,6	24,3
AQ-161609P	EFE-161609	5,1	10,3	12,9	18,1	20,7	23,3
AR-162609P	EFE-162609	6,7	13,4	16,7	23,4	26,8	30,1
AR-163609P	EFE-163609	8,1	16,2	20,2	28,3	32,4	36,4
AQ-252612P	EFE-252612	9,4	18,8	23,5	32,9	37,6	42,3
AQ-252616P	EFE-252616	10,8	21,7	27,2	38,1	43,5	49,0
AR-254012P	EFE-254012	11,9	23,9	29,9	41,9	47,9	53,9
AR-254016P	EFE-254016	13,7	27,4	34,3	48,1	54,9	61,8
AR-256012P	EFE-256012	14,5	29,0	36,3	50,8	58,0	65,3
AQ-414012P	EFE-414012	14,5	29,1	36,3	50,9	58,2	65,5
AQ-414016P	EFE-414016	16,4	32,9	41,1	57,6	65,9	74,1

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Enclosure types (polyester)		Maximum power dissipation (W) – Tamb. up to **95**°C	
		INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
AQ-080806P	EFE-080806	0,8	1,7
AQ-080808P	EFE-080808	1,1	2,2
AR-081106P	EFE-081106	1,0	2,1
AR-081606P	EFE-081606	1,4	2,8
AR-081906P	EFE-081906	1,6	3,2
AQ-121209P	EFE-121209	1,9	3,9
AR-122209P	EFE-122209	2,7	5,4
AQ-161609P	EFE-161609	2,5	5,1
AR-162609P	EFE-162609	3,3	6,7
AR-163609P	EFE-163609	4,0	8,1
AQ-252612P	EFE-252612	4,7	9,4
AQ-252616P	EFE-252616	5,4	10,8
AR-254012P	EFE-254012	5,9	11,9
AR-254016P	EFE-254016	6,8	13,7
AR-256012P	EFE-256012	7,2	14,5
AQ-414012P	EFE-414012	7,2	14,5
AQ-414016P	EFE-414016	8,2	16,4

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Power dissipation – Aluminum alloy enclosures

Enclosure types (aluminium)		Maximum power dissipation (W) – Tamb. up to **40**°C						
		INTERNAL TEMP.60°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
AQ-080806AL	EFXE-080806AL	5,2	7,8	10,4	11,7	14,3	15,6	16,9
AR-081306AL	EFXE-081306AL	7,0	10,6	14,1	15,9	19,4	21,2	23,0
AR-081806AL	EFXE-081806AL	8,9	13,3	17,8	20,0	24,5	26,7	28,9
AR-081808AL	EFXE-081808AL	11,0	16,5	22,1	24,8	30,4	33,1	35,9
AR-082505AL	EFXE-082505AL	10,7	16,1	21,4	24,1	29,5	32,2	34,8
AR-082508AL	EFXE-082508AL	14,2	21,4	28,5	32,1	39,2	42,8	46,4
AQ-101008AL	EFXE-101008AL	8,7	13,0	17,4	19,6	23,9	26,1	28,3
AR-101508AL	EFXE-101508AL	11,1	16,6	22,2	24,9	30,5	33,3	36,0
AR-101608AL	EFXE-101608AL	11,5	17,3	23,1	26,0	31,8	34,7	37,6
AR-102008AL	EFXE-102008AL	13,4	20,1	26,8	30,2	36,9	40,3	43,6
AQ-121208AL	EFXE-121208AL	10,8	16,2	21,6	24,3	29,7	32,4	35,1
AR-122209AL	EFXE-122209AL	16,8	25,3	33,7	37,9	46,3	50,6	54,8
AQ-141409AL	EFXE-141409AL	13,7	20,6	27,5	31,0	37,9	41,3	44,8
AR-142009AL	EFXE-142009AL	17,1	25,7	34,2	38,5	47,1	51,4	55,7
AQ-161609AL	EFXE-161609AL	17,2	25,8	34,4	38,7	47,3	51,6	55,9
AR-162410AL	EFXE-162410AL	22,1	33,1	44,2	49,7	60,8	66,3	71,8
AR-162609AL	EFXE-162609AL	21,9	32,8	43,8	49,3	60,2	65,7	71,2
AQ-181810AL	EFXE-181810AL	19,7	29,6	39,5	44,4	54,3	59,2	64,2
AR-182810AL	EFXE-182810AL	26,1	39,1	52,2	58,7	71,8	78,3	84,8
AR-202311AL	EFXE-202311AL	25,8	38,7	51,6	58,0	71,0	77,4	83,9
AR-202318AL	EFXE-202318AL	35,5	53,3	71,1	80,0	97,8	106,7	115,6
AR-232811AL	EFXE-232811AL	31,6	47,5	63,3	71,3	87,1	95,0	103,0
AR-233312AL	EFXE-233312AL	37,0	55,6	74,1	83,4	101,9	111,2	120,5
AR-233318AL	EFXE-233318AL	47,5	71,3	95,1	107,0	130,8	142,7	154,6

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Enclosure types (aluminium)		Maximum power dissipation (W) – Tamb. up to **50**°C						
		INTERNAL TEMP.60°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
AQ-080806AL	EFXE-080806AL	2,6	5,2	7,8	9,1	11,7	13,0	14,3
AR-081306AL	EFXE-081306AL	3,5	7,0	10,6	12,3	15,9	17,7	19,4
AR-081806AL	EFXE-081806AL	4,4	8,9	13,3	15,5	20,0	22,2	24,5
AR-081808AL	EFXE-081808AL	5,5	11,0	16,5	19,3	24,8	27,6	30,4
AR-082505AL	EFXE-082505AL	5,3	10,7	16,1	18,7	24,1	26,8	29,5
AR-082508AL	EFXE-082508AL	7,1	14,2	21,4	24,9	32,1	35,7	39,2
AQ-101008AL	EFXE-101008AL	4,3	8,7	13,0	15,2	19,6	21,7	23,9
AR-101508AL	EFXE-101508AL	5,5	11,1	16,6	19,4	24,9	27,7	30,5
AR-101608AL	EFXE-101608AL	5,7	11,5	17,3	20,2	26,0	28,9	31,8
AR-102008AL	EFXE-102008AL	6,7	13,4	20,1	23,5	30,2	33,5	36,9
AQ-121208AL	EFXE-121208AL	5,4	10,8	16,2	18,9	24,3	27,0	29,7
AR-122209AL	EFXE-122209AL	8,4	16,8	25,3	29,5	37,9	42,1	46,3
AQ-141409AL	EFXE-141409AL	6,8	13,7	20,6	24,1	31,0	34,4	37,9
AR-142009AL	EFXE-142009AL	8,5	17,1	25,7	30,0	38,5	42,8	47,1
AQ-161609AL	EFXE-161609AL	8,6	17,2	25,8	30,1	38,7	43,0	47,3
AR-162410AL	EFXE-162410AL	11,0	22,1	33,1	38,7	49,7	55,3	60,8
AR-162609AL	EFXE-162609AL	10,9	21,9	32,8	38,3	49,3	54,8	60,2
AQ-181810AL	EFXE-181810AL	9,8	19,7	29,6	34,5	44,4	49,3	54,3
AR-182810AL	EFXE-182810AL	13,0	26,1	39,1	45,7	58,7	65,2	71,8
AR-202311AL	EFXE-202311AL	12,9	25,8	38,7	45,1	58,0	64,5	71,0
AR-202318AL	EFXE-202318AL	17,7	35,5	53,3	62,2	80,0	88,9	97,8
AR-232811AL	EFXE-232811AL	15,8	31,6	47,5	55,4	71,3	79,2	87,1
AR-233312AL	EFXE-233312AL	18,5	37,0	55,6	64,8	83,4	92,7	101,9
AR-233318AL	EFXE-233318AL	23,7	47,5	71,3	83,2	107,0	118,9	130,8

Enclosure types (aluminium)		Maximum power dissipation (W) – Tamb. up to **55**°C						
		INTERNAL TEMP.65°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
AQ-080806AL	EFXE-080806AL	2,6	3,9	6,5	7,8	10,4	11,7	13,0
AR-081306AL	EFXE-081306AL	3,5	5,3	8,8	10,6	14,1	15,9	17,7
AR-081806AL	EFXE-081806AL	4,4	6,6	11,1	13,3	17,8	20,0	22,2
AR-081808AL	EFXE-081808AL	5,5	8,2	13,8	16,5	22,1	24,8	27,6
AR-082505AL	EFXE-082505AL	5,3	8,0	13,4	16,1	21,4	24,1	26,8
AR-082508AL	EFXE-082508AL	7,1	10,7	17,8	21,4	28,5	32,1	35,7
AQ-101008AL	EFXE-101008AL	4,3	6,5	10,8	13,0	17,4	19,6	21,7
AR-101508AL	EFXE-101508AL	5,5	8,3	13,8	16,6	22,2	24,9	27,7
AR-101608AL	EFXE-101608AL	5,7	8,6	14,4	17,3	23,1	26,0	28,9
AR-102008AL	EFXE-102008AL	6,7	10,0	16,7	20,1	26,8	30,2	33,5
AQ-121208AL	EFXE-121208AL	5,4	8,1	13,5	16,2	21,6	24,3	27,0
AR-122209AL	EFXE-122209AL	8,4	12,6	21,0	25,3	33,7	37,9	42,1
AQ-141409AL	EFXE-141409AL	6,8	10,3	17,2	20,6	27,5	31,0	34,4
AR-142009AL	EFXE-142009AL	8,5	12,8	21,4	25,7	34,2	38,5	42,8
AQ-161609AL	EFXE-161609AL	8,6	12,9	21,5	25,8	34,4	38,7	43,0
AR-162410AL	EFXE-162410AL	11,0	16,5	27,6	33,1	44,2	49,7	55,3
AR-162609AL	EFXE-162609AL	10,9	16,4	27,4	32,8	43,8	49,3	54,8
AQ-181810AL	EFXE-181810AL	9,8	14,8	24,6	29,6	39,5	44,4	49,3
AR-182810AL	EFXE-182810AL	13,0	19,5	32,6	39,1	52,2	58,7	65,2
AR-202311AL	EFXE-202311AL	12,9	19,3	32,2	38,7	51,6	58,0	64,5
AR-202318AL	EFXE-202318AL	17,7	26,6	44,4	53,3	71,1	80,0	88,9
AR-232811AL	EFXE-232811AL	15,8	23,7	39,6	47,5	63,3	71,3	79,2
AR-233312AL	EFXE-233312AL	18,5	27,8	46,3	55,6	74,1	83,4	92,7
AR-233318AL	EFXE-233318AL	23,7	35,6	59,4	71,3	95,1	107,0	118,9

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Enclosure types (aluminium)		Maximum power dissipation (W) – Tamb. up to **60**°C					
		INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
AQ-080806AL	EFXE-080806AL	2,6	5,2	6,5	9,1	10,4	11,7
AR-081306AL	EFXE-081306AL	3,5	7,0	8,8	12,3	14,1	15,9
AR-081806AL	EFXE-081806AL	4,4	8,9	11,1	15,5	17,8	20,0
AR-081808AL	EFXE-081808AL	5,5	11,0	13,8	19,3	22,1	24,8
AR-082505AL	EFXE-082505AL	5,3	10,7	13,4	18,7	21,4	24,1
AR-082508AL	EFXE-082508AL	7,1	14,2	17,8	24,9	28,5	32,1
AQ-101008AL	EFXE-101008AL	4,3	8,7	10,8	15,2	17,4	19,6
AR-101508AL	EFXE-101508AL	5,5	11,1	13,8	19,4	22,2	24,9
AR-101608AL	EFXE-101608AL	5,7	11,5	14,4	20,2	23,1	26,0
AR-102008AL	EFXE-102008AL	6,7	13,4	16,7	23,5	26,8	30,2
AQ-121208AL	EFXE-121208AL	5,4	10,8	13,5	18,9	21,6	24,3
AR-122209AL	EFXE-122209AL	8,4	16,8	21,0	29,5	33,7	37,9
AQ-141409AL	EFXE-141409AL	6,8	13,7	17,2	24,1	27,5	31,0
AR-142009AL	EFXE-142009AL	8,5	17,1	21,4	30,0	34,2	38,5
AQ-161609AL	EFXE-161609AL	8,6	17,2	21,5	30,1	34,4	38,7
AR-162410AL	EFXE-162410AL	11,0	22,1	27,6	38,7	44,2	49,7
AR-162609AL	EFXE-162609AL	10,9	21,9	27,4	38,3	43,8	49,3
AQ-181810AL	EFXE-181810AL	9,8	19,7	24,6	34,5	39,5	44,4
AR-182810AL	EFXE-182810AL	13,0	26,1	32,6	45,7	52,2	58,7
AR-202311AL	EFXE-202311AL	12,9	25,8	32,2	45,1	51,6	58,0
AR-202318AL	EFXE-202318AL	17,7	35,5	44,4	62,2	71,1	80,0
AR-232811AL	EFXE-232811AL	15,8	31,6	39,6	55,4	63,3	71,3
AR-233312AL	EFXE-233312AL	18,5	37,0	46,3	64,8	74,1	83,4
AR-233318AL	EFXE-233318AL	23,7	47,5	59,4	83,2	95,1	107,0

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Enclosure types (aluminium)		Maximum power dissipation (W) – Tamb. up to **95**°C	
		INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
AQ-080806AL	EFXE-080806AL	1,3	2,6
AR-081306AL	EFXE-081306AL	1,7	3,5
AR-081806AL	EFXE-081806AL	2,2	4,4
AR-081808AL	EFXE-081808AL	2,7	5,5
AR-082505AL	EFXE-082505AL	2,6	5,3
AR-082508AL	EFXE-082508AL	3,5	7,1
AQ-101008AL	EFXE-101008AL	2,1	4,3
AR-101508AL	EFXE-101508AL	2,7	5,5
AR-101608AL	EFXE-101608AL	2,8	5,7
AR-102008AL	EFXE-102008AL	3,3	6,7
AQ-121208AL	EFXE-121208AL	2,7	5,4
AR-122209AL	EFXE-122209AL	4,2	8,4
AQ-141409AL	EFXE-141409AL	3,4	6,8
AR-142009AL	EFXE-142009AL	4,2	8,5
AQ-161609AL	EFXE-161609AL	4,3	8,6
AR-162410AL	EFXE-162410AL	5,5	11,0
AR-162609AL	EFXE-162609AL	5,4	10,9
AQ-181810AL	EFXE-181810AL	4,9	9,8
AR-182810AL	EFXE-182810AL	6,5	13,0
AR-202311AL	EFXE-202311AL	6,4	12,9
AR-202318AL	EFXE-202318AL	8,8	17,7
AR-232811AL	EFXE-232811AL	7,9	15,8
AR-233312AL	EFXE-233312AL	9,2	18,5
AR-233318AL	EFXE-233318AL	11,8	23,7

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Power dissipation – Stainless steel enclosures SB series

Enclosure types (stainless steel)		Maximum power dissipation (W) – Tamb. up to **40**°C						
		INTERNAL TEMP.60°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
SB-101210	EFXE-101210SB	5,5	8,3	11,1	12,5	15,3	16,7	18,1
SB-151510	EFXE-151510SB	8,0	12,0	16,0	18,0	22,0	24,0	26,1
SB-142013	EFXE-142013SB	10,4	15,7	20,9	23,5	28,8	31,4	34,0
SB-202010	EFXE-202010SB	10,7	16,1	21,4	24,1	29,5	32,2	34,8
SB-202016	EFXE-202016SB	13,9	20,8	27,8	31,3	38,3	41,7	45,2
SB-202713	EFXE-202713SB	14,4	21,6	28,9	32,5	39,7	43,3	46,9
SB-272713	EFXE-272713SB	16,7	25,1	33,5	37,7	46,0	50,2	54,4
SB-203016	EFXE-203016SB	17,1	25,7	34,3	38,6	47,2	51,4	55,7
SB-273513	EFXE-273513SB	19,2	28,9	38,5	43,3	53,0	57,8	62,6
SB-282816	EFXE-282816SB	19,3	29,0	38,7	43,6	53,3	58,1	63,0
SB-204016	EFXE-204016SB	20,2	30,3	40,4	45,5	55,6	60,6	65,7
SB-353516	EFXE-353516SB	24,4	36,6	48,8	54,9	67,1	73,2	79,3
SB-282827	EFXE-282827SB	26,2	39,3	52,5	59,0	72,2	78,7	85,3
SB-355016	EFXE-355016SB	29,7	44,5	59,4	66,8	81,7	89,1	96,6
SB-383816	EFXE-383816SB	26,6	39,9	53,2	59,8	73,1	79,8	86,5
SB-384516	EFXE-384516SB	29,1	43,7	58,3	65,6	80,2	87,5	94,8
SB-385716	EFXE-385716SB	33,4	50,1	66,8	75,2	91,9	100,3	108,7
SB-505016	EFXE-505016SB	35,8	53,8	71,7	80,7	98,6	107,6	116,6
SB-383827	EFXE-383827SB	35,1	52,7	70,2	79,0	96,6	105,4	114,2
SB-575716	EFXE-575716SB	41,5	62,3	83,1	93,5	114,3	124,7	135,1
SB-577620	EFXE-577620SB	53,9	80,9	107,9	121,3	148,3	161,8	175,3
SB-575730	EFXE-575730SB	55,8	83,7	111,6	125,6	153,5	167,5	181,4
SB-769520	EFXE-769520SB	72,2	108,3	144,4	162,4	198,5	216,6	234,6
SB-1258040	EFXE-1258040SB	72,2	108,3	144,4	162,4	198,5	216,6	234,6

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Enclosure types (Stainless steel)		Maximum power dissipation (W) – Tamb. up to **50**°C						
		INTERNAL TEMP.60°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
SB-101210	EFXE-101210SB	2,7	5,5	8,3	9,7	12,5	13,9	15,3
SB-151510	EFXE-151510SB	4,0	8,0	12,0	14,0	18,0	20,0	22,0
SB-142013	EFXE-142013SB	5,2	10,4	15,7	18,3	23,5	26,2	28,8
SB-202010	EFXE-202010SB	5,3	10,7	16,1	18,7	24,1	26,8	29,5
SB-202016	EFXE-202016SB	6,9	13,9	20,8	24,3	31,3	34,8	38,3
SB-202713	EFXE-202713SB	7,2	14,4	21,6	25,2	32,5	36,1	39,7
SB-272713	EFXE-272713SB	8,3	16,7	25,1	29,3	37,7	41,8	46,0
SB-203016	EFXE-203016SB	8,5	17,1	25,7	30,0	38,6	42,9	47,2
SB-273513	EFXE-273513SB	9,6	19,2	28,9	33,7	43,3	48,2	53,0
SB-282816	EFXE-282816SB	9,6	19,3	29,0	33,9	43,6	48,4	53,3
SB-204016	EFXE-204016SB	10,1	20,2	30,3	35,4	45,5	50,5	55,6
SB-353516	EFXE-353516SB	12,2	24,4	36,6	42,7	54,9	61,0	67,1
SB-282827	EFXE-282827SB	13,1	26,2	39,3	45,9	59,0	65,6	72,2
SB-355016	EFXE-355016SB	14,8	29,7	44,5	52,0	66,8	74,3	81,7
SB-383816	EFXE-383816SB	13,3	26,6	39,9	46,5	59,8	66,5	73,1
SB-384516	EFXE-384516SB	14,5	29,1	43,7	51,0	65,6	72,9	80,2
SB-385716	EFXE-385716SB	16,7	33,4	50,1	58,5	75,2	83,6	91,9
SB-505016	EFXE-505016SB	17,9	35,8	53,8	62,7	80,7	89,7	98,6
SB-383827	EFXE-383827SB	17,5	35,1	52,7	61,4	79,0	87,8	96,6
SB-575716	EFXE-575716SB	20,7	41,5	62,3	72,7	93,5	103,9	114,3
SB-577620	EFXE-577620SB	26,9	53,9	80,9	94,4	121,3	134,8	148,3
SB-575730	EFXE-575730SB	27,9	55,8	83,7	97,7	125,6	139,5	153,5
SB-769520	EFXE-769520SB	36,1	72,2	108,3	126,3	162,4	180,5	198,5
SB-1258040	EFXE-1258040SB	36,1	72,2	108,3	126,3	162,4	180,5	198,5

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Enclosure types (Stainless steel)		Maximum power dissipation (W) – Tamb. up to **55**°C						
		INTERNAL TEMP.65°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
SB-101210	EFXE-101210SB	2,7	4,1	6,9	8,3	11,1	12,5	13,9
SB-151510	EFXE-151510SB	4,0	6,0	10,0	12,0	16,0	18,0	20,0
SB-142013	EFXE-142013SB	5,2	7,8	13,1	15,7	20,9	23,5	26,2
SB-202010	EFXE-202010SB	5,3	8,0	13,4	16,1	21,4	24,1	26,8
SB-202016	EFXE-202016SB	6,9	10,4	17,4	20,8	27,8	31,3	34,8
SB-202713	EFXE-202713SB	7,2	10,8	18,0	21,6	28,9	32,5	36,1
SB-272713	EFXE-272713SB	8,3	12,5	20,9	25,1	33,5	37,7	41,8
SB-203016	EFXE-203016SB	8,5	12,8	21,4	25,7	34,3	38,6	42,9
SB-273513	EFXE-273513SB	9,6	14,4	24,1	28,9	38,5	43,3	48,2
SB-282816	EFXE-282816SB	9,6	14,5	24,2	29,0	38,7	43,6	48,4
SB-204016	EFXE-204016SB	10,1	15,1	25,2	30,3	40,4	45,5	50,5
SB-353516	EFXE-353516SB	12,2	18,3	30,5	36,6	48,8	54,9	61,0
SB-282827	EFXE-282827SB	13,1	19,6	32,8	39,3	52,5	59,0	65,6
SB-355016	EFXE-355016SB	14,8	22,2	37,1	44,5	59,4	66,8	74,3
SB-383816	EFXE-383816SB	13,3	19,9	33,2	39,9	53,2	59,8	66,5
SB-384516	EFXE-384516SB	14,5	21,8	36,4	43,7	58,3	65,6	72,9
SB-385716	EFXE-385716SB	16,7	25,0	41,8	50,1	66,8	75,2	83,6
SB-505016	EFXE-505016SB	17,9	26,9	44,8	53,8	71,7	80,7	89,7
SB-383827	EFXE-383827SB	17,5	26,3	43,9	52,7	70,2	79,0	87,8
SB-575716	EFXE-575716SB	20,7	31,1	51,9	62,3	83,1	93,5	103,9
SB-577620	EFXE-577620SB	26,9	40,4	67,4	80,9	107,9	121,3	134,8
SB-575730	EFXE-575730SB	27,9	41,8	69,7	83,7	111,6	125,6	139,5
SB-769520	EFXE-769520SB	36,1	54,1	90,2	108,3	144,4	162,4	180,5
SB-1258040	EFXE-1258040SB	36,1	54,1	90,2	108,3	144,4	162,4	180,5

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Enclosure types (Stainless steel)		Maximum power dissipation (W) – Tamb. up to **60**°C					
		INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
SB-101210	EFXE-101210SB	2,7	5,5	6,9	9,7	11,1	12,5
SB-151510	EFXE-151510SB	4,0	8,0	10,0	14,0	16,0	18,0
SB-142013	EFXE-142013SB	5,2	10,4	13,1	18,3	20,9	23,5
SB-202010	EFXE-202010SB	5,3	10,7	13,4	18,7	21,4	24,1
SB-202016	EFXE-202016SB	6,9	13,9	17,4	24,3	27,8	31,3
SB-202713	EFXE-202713SB	7,2	14,4	18,0	25,2	28,9	32,5
SB-272713	EFXE-272713SB	8,3	16,7	20,9	29,3	33,5	37,7
SB-203016	EFXE-203016SB	8,5	17,1	21,4	30,0	34,3	38,6
SB-273513	EFXE-273513SB	9,6	19,2	24,1	33,7	38,5	43,3
SB-282816	EFXE-282816SB	9,6	19,3	24,2	33,9	38,7	43,6
SB-204016	EFXE-204016SB	10,1	20,2	25,2	35,4	40,4	45,5
SB-353516	EFXE-353516SB	12,2	24,4	30,5	42,7	48,8	54,9
SB-282827	EFXE-282827SB	13,1	26,2	32,8	45,9	52,5	59,0
SB-355016	EFXE-355016SB	14,8	29,7	37,1	52,0	59,4	66,8
SB-383816	EFXE-383816SB	13,3	26,6	33,2	46,5	53,2	59,8
SB-384516	EFXE-384516SB	14,5	29,1	36,4	51,0	58,3	65,6
SB-385716	EFXE-385716SB	16,7	33,4	41,8	58,5	66,8	75,2
SB-505016	EFXE-505016SB	17,9	35,8	44,8	62,7	71,7	80,7
SB-383827	EFXE-383827SB	17,5	35,1	43,9	61,4	70,2	79,0
SB-575716	EFXE-575716SB	20,7	41,5	51,9	72,7	83,1	93,5
SB-577620	EFXE-577620SB	26,9	53,9	67,4	94,4	107,9	121,3
SB-575730	EFXE-575730SB	27,9	55,8	69,7	97,7	111,6	125,6
SB-769520	EFXE-769520SB	36,1	72,2	90,2	126,3	144,4	162,4
SB-1258040	EFXE-1258040SB	36,1	72,2	90,2	126,3	144,4	162,4

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Enclosure types (Stainless steel)		Maximum power dissipation (W) – Tamb. up to **95**°C	
		INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
SB-101210	EFXE-101210SB	1,3	2,7
SB-151510	EFXE-151510SB	2,0	4,0
SB-142013	EFXE-142013SB	2,6	5,2
SB-202010	EFXE-202010SB	2,6	5,3
SB-202016	EFXE-202016SB	3,4	6,9
SB-202713	EFXE-202713SB	3,6	7,2
SB-272713	EFXE-272713SB	4,1	8,3
SB-203016	EFXE-203016SB	4,2	8,5
SB-273513	EFXE-273513SB	4,8	9,6
SB-282816	EFXE-282816SB	4,8	9,6
SB-204016	EFXE-204016SB	5,0	10,1
SB-353516	EFXE-353516SB	6,1	12,2
SB-282827	EFXE-282827SB	6,5	13,1
SB-355016	EFXE-355016SB	7,4	14,8
SB-383816	EFXE-383816SB	6,6	13,3
SB-384516	EFXE-384516SB	7,2	14,5
SB-385716	EFXE-385716SB	8,3	16,7
SB-505016	EFXE-505016SB	8,9	17,9
SB-383827	EFXE-383827SB	8,7	17,5
SB-575716	EFXE-575716SB	10,3	20,7
SB-577620	EFXE-577620SB	13,4	26,9
SB-575730	EFXE-575730SB	13,9	27,9
SB-769520	EFXE-769520SB	18,0	36,1
SB-1258040	EFXE-1258040SB	18,0	36,1

Power dissipation – Stainless steel enclosures ST series

Enclosure types (Stainless steel)		Maximum power dissipation (W) – Tamb. up to **40**°C						
		INTERNAL TEMP.60°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
ST-101210	EFXE-101210ST	5,5	8,3	11,1	12,5	15,3	16,7	18,1
ST-151510	EFXE-151510ST	8,0	12,0	16,0	18,0	22,0	24,0	26,1
ST-142013	EFXE-142013ST	10,4	15,7	20,9	23,5	28,8	31,4	34,0
ST-202010	EFXE-202010ST	10,7	16,1	21,4	24,1	29,5	32,2	34,8
ST-202016	EFXE-202016ST	13,9	20,8	27,8	31,3	38,3	41,7	45,2
ST-202713	EFXE-202713ST	14,4	21,6	28,9	32,5	39,7	43,3	46,9
ST-272713	EFXE-272713ST	16,7	25,1	33,5	37,7	46,0	50,2	54,4
ST-203016	EFXE-203016ST	17,1	25,7	34,3	38,6	47,2	51,4	55,7
ST-273513	EFXE-273513ST	19,2	28,9	38,5	43,3	53,0	57,8	62,6
ST-282816	EFXE-282816ST	19,3	29,0	38,7	43,6	53,3	58,1	63,0
ST-204016	EFXE-204016ST	20,2	30,3	40,4	45,5	55,6	60,6	65,7
ST-353516	EFXE-353516ST	24,4	36,6	48,8	54,9	67,1	73,2	79,3
ST-282827	EFXE-282827ST	26,2	39,3	52,5	59,0	72,2	78,7	85,3
ST-355016	EFXE-355016ST	29,7	44,5	59,4	66,8	81,7	89,1	96,6
ST-383816	EFXE-383816ST	26,6	39,9	53,2	59,8	73,1	79,8	86,5
ST-384516	EFXE-384516ST	29,1	43,7	58,3	65,6	80,2	87,5	94,8
ST-385716	EFXE-385716ST	33,4	50,1	66,8	75,2	91,9	100,3	108,7
ST-505016	EFXE-505016ST	35,8	53,8	71,7	80,7	98,6	107,6	116,6
ST-383827	EFXE-383827ST	35,1	52,7	70,2	79,0	96,6	105,4	114,2
ST-575716	EFXE-575716ST	41,5	62,3	83,1	93,5	114,3	124,7	135,1
ST-577620	EFXE-577620ST	53,9	80,9	107,9	121,3	148,3	161,8	175,3
ST-575730	EFXE-575730ST	55,8	83,7	111,6	125,6	153,5	167,5	181,4
ST-769520	EFXE-769520ST	72,2	108,3	144,4	162,4	198,5	216,6	234,6
ST-1258040	EFXE-1258040ST	72,2	108,3	144,4	162,4	198,5	216,6	234,6

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Enclosure types (Stainless steel)		Maximum power dissipation (W) – Tamb. up to **50**°C						
		INTERNAL TEMP.60°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
ST-101210	EFXE-101210ST	2,7	5,5	8,3	9,7	12,5	13,9	15,3
ST-151510	EFXE-151510ST	4,0	8,0	12,0	14,0	18,0	20,0	22,0
ST-142013	EFXE-142013ST	5,2	10,4	15,7	18,3	23,5	26,2	28,8
ST-202010	EFXE-202010ST	5,3	10,7	16,1	18,7	24,1	26,8	29,5
ST-202016	EFXE-202016ST	6,9	13,9	20,8	24,3	31,3	34,8	38,3
ST-202713	EFXE-202713ST	7,2	14,4	21,6	25,2	32,5	36,1	39,7
ST-272713	EFXE-272713ST	8,3	16,7	25,1	29,3	37,7	41,8	46,0
ST-203016	EFXE-203016ST	8,5	17,1	25,7	30,0	38,6	42,9	47,2
ST-273513	EFXE-273513ST	9,6	19,2	28,9	33,7	43,3	48,2	53,0
ST-282816	EFXE-282816ST	9,6	19,3	29,0	33,9	43,6	48,4	53,3
ST-204016	EFXE-204016ST	10,1	20,2	30,3	35,4	45,5	50,5	55,6
ST-353516	EFXE-353516ST	12,2	24,4	36,6	42,7	54,9	61,0	67,1
ST-282827	EFXE-282827ST	13,1	26,2	39,3	45,9	59,0	65,6	72,2
ST-355016	EFXE-355016ST	14,8	29,7	44,5	52,0	66,8	74,3	81,7
ST-383816	EFXE-383816ST	13,3	26,6	39,9	46,5	59,8	66,5	73,1
ST-384516	EFXE-384516ST	14,5	29,1	43,7	51,0	65,6	72,9	80,2
ST-385716	EFXE-385716ST	16,7	33,4	50,1	58,5	75,2	83,6	91,9
ST-505016	EFXE-505016ST	17,9	35,8	53,8	62,7	80,7	89,7	98,6
ST-383827	EFXE-383827ST	17,5	35,1	52,7	61,4	79,0	87,8	96,6
ST-575716	EFXE-575716ST	20,7	41,5	62,3	72,7	93,5	103,9	114,3
ST-577620	EFXE-577620ST	26,9	53,9	80,9	94,4	121,3	134,8	148,3
ST-575730	EFXE-575730ST	27,9	55,8	83,7	97,7	125,6	139,5	153,5
ST-769520	EFXE-769520ST	36,1	72,2	108,3	126,3	162,4	180,5	198,5
ST-1258040	EFXE-1258040ST	36,1	72,2	108,3	126,3	162,4	180,5	198,5

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Enclosure types (Stainless steel)		Maximum power dissipation (W) – Tamb. up to **55**°C						
		INTERNAL TEMP.65°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
ST-101210	EFXE-101210ST	2,7	4,1	6,9	8,3	11,1	12,5	13,9
ST-151510	EFXE-151510ST	4,0	6,0	10,0	12,0	16,0	18,0	20,0
ST-142013	EFXE-142013ST	5,2	7,8	13,1	15,7	20,9	23,5	26,2
ST-202010	EFXE-202010ST	5,3	8,0	13,4	16,1	21,4	24,1	26,8
ST-202016	EFXE-202016ST	6,9	10,4	17,4	20,8	27,8	31,3	34,8
ST-202713	EFXE-202713ST	7,2	10,8	18,0	21,6	28,9	32,5	36,1
ST-272713	EFXE-272713ST	8,3	12,5	20,9	25,1	33,5	37,7	41,8
ST-203016	EFXE-203016ST	8,5	12,8	21,4	25,7	34,3	38,6	42,9
ST-273513	EFXE-273513ST	9,6	14,4	24,1	28,9	38,5	43,3	48,2
ST-282816	EFXE-282816ST	9,6	14,5	24,2	29,0	38,7	43,6	48,4
ST-204016	EFXE-204016ST	10,1	15,1	25,2	30,3	40,4	45,5	50,5
ST-353516	EFXE-353516ST	12,2	18,3	30,5	36,6	48,8	54,9	61,0
ST-282827	EFXE-282827ST	13,1	19,6	32,8	39,3	52,5	59,0	65,6
ST-355016	EFXE-355016ST	14,8	22,2	37,1	44,5	59,4	66,8	74,3
ST-383816	EFXE-383816ST	13,3	19,9	33,2	39,9	53,2	59,8	66,5
ST-384516	EFXE-384516ST	14,5	21,8	36,4	43,7	58,3	65,6	72,9
ST-385716	EFXE-385716ST	16,7	25,0	41,8	50,1	66,8	75,2	83,6
ST-505016	EFXE-505016ST	17,9	26,9	44,8	53,8	71,7	80,7	89,7
ST-383827	EFXE-383827ST	17,5	26,3	43,9	52,7	70,2	79,0	87,8
ST-575716	EFXE-575716ST	20,7	31,1	51,9	62,3	83,1	93,5	103,9
ST-577620	EFXE-577620ST	26,9	40,4	67,4	80,9	107,9	121,3	134,8
ST-575730	EFXE-575730ST	27,9	41,8	69,7	83,7	111,6	125,6	139,5
ST-769520	EFXE-769520ST	36,1	54,1	90,2	108,3	144,4	162,4	180,5
ST-1258040	EFXE-1258040ST	36,1	54,1	90,2	108,3	144,4	162,4	180,5

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Enclosure types (Stainless steel)		Maximum power dissipation (W) – Tamb. up to **60**°C					
		INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
ST-101210	EFXE-101210ST	2,7	5,5	6,9	9,7	11,1	12,5
ST-151510	EFXE-151510ST	4,0	8,0	10,0	14,0	16,0	18,0
ST-142013	EFXE-142013ST	5,2	10,4	13,1	18,3	20,9	23,5
ST-202010	EFXE-202010ST	5,3	10,7	13,4	18,7	21,4	24,1
ST-202016	EFXE-202016ST	6,9	13,9	17,4	24,3	27,8	31,3
ST-202713	EFXE-202713ST	7,2	14,4	18,0	25,2	28,9	32,5
ST-272713	EFXE-272713ST	8,3	16,7	20,9	29,3	33,5	37,7
ST-203016	EFXE-203016ST	8,5	17,1	21,4	30,0	34,3	38,6
ST-273513	EFXE-273513ST	9,6	19,2	24,1	33,7	38,5	43,3
ST-282816	EFXE-282816ST	9,6	19,3	24,2	33,9	38,7	43,6
ST-204016	EFXE-204016ST	10,1	20,2	25,2	35,4	40,4	45,5
ST-353516	EFXE-353516ST	12,2	24,4	30,5	42,7	48,8	54,9
ST-282827	EFXE-282827ST	13,1	26,2	32,8	45,9	52,5	59,0
ST-355016	EFXE-355016ST	14,8	29,7	37,1	52,0	59,4	66,8
ST-383816	EFXE-383816ST	13,3	26,6	33,2	46,5	53,2	59,8
ST-384516	EFXE-384516ST	14,5	29,1	36,4	51,0	58,3	65,6
ST-385716	EFXE-385716ST	16,7	33,4	41,8	58,5	66,8	75,2
ST-505016	EFXE-505016ST	17,9	35,8	44,8	62,7	71,7	80,7
ST-383827	EFXE-383827ST	17,5	35,1	43,9	61,4	70,2	79,0
ST-575716	EFXE-575716ST	20,7	41,5	51,9	72,7	83,1	93,5
ST-577620	EFXE-577620ST	26,9	53,9	67,4	94,4	107,9	121,3
ST-575730	EFXE-575730ST	27,9	55,8	69,7	97,7	111,6	125,6
ST-769520	EFXE-769520ST	36,1	72,2	90,2	126,3	144,4	162,4
ST-1258040	EFXE-1258040ST	36,1	72,2	90,2	126,3	144,4	162,4

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Enclosure types (Stainless steel)		Maximum power dissipation (W) – Tamb. up to **95**°C	
		INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
ST-101210	EFXE-101210ST	1,3	2,7
ST-151510	EFXE-151510ST	2,0	4,0
ST-142013	EFXE-142013ST	2,6	5,2
ST-202010	EFXE-202010ST	2,6	5,3
ST-202016	EFXE-202016ST	3,4	6,9
ST-202713	EFXE-202713ST	3,6	7,2
ST-272713	EFXE-272713ST	4,1	8,3
ST-203016	EFXE-203016ST	4,2	8,5
ST-273513	EFXE-273513ST	4,8	9,6
ST-282816	EFXE-282816ST	4,8	9,6
ST-204016	EFXE-204016ST	5,0	10,1
ST-353516	EFXE-353516ST	6,1	12,2
ST-282827	EFXE-282827ST	6,5	13,1
ST-355016	EFXE-355016ST	7,4	14,8
ST-383816	EFXE-383816ST	6,6	13,3
ST-384516	EFXE-384516ST	7,2	14,5
ST-385716	EFXE-385716ST	8,3	16,7
ST-505016	EFXE-505016ST	8,9	17,9
ST-383827	EFXE-383827ST	8,7	17,5
ST-575716	EFXE-575716ST	10,3	20,7
ST-577620	EFXE-577620ST	13,4	26,9
ST-575730	EFXE-575730ST	13,9	27,9
ST-769520	EFXE-769520ST	18,0	36,1
ST-1258040	EFXE-1258040ST	18,0	36,1

Maximum Power Dissipation calculation

The values specified in the tables as per clause 2.1.1 may be modified within the maximum admitted Tamb and maximum admitted internal temperature as follows.

$$Pdiss\ (W) = \frac{Tmax - Tamb}{Rth}$$

$Rth = A \times (\text{enclosure surface in } mm^2 \text{ except enclosure bottom})^B$

Legend:
Rth – Thermal resistance [K/W].
Tmax – Maximum allowed temperature inside enclosure.
Tamb – Ambient temperature of enclosure
A and B - coefficients determined for each series o enclosure. Exact values are given in manufacturer's documentation.

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[16] Confidential Report No. FIDI 21 CR 075

[16.1] Routine testing

Junction boxes, local control stations and local control panels fitted with wiring, shall be subject to a routine dielectric strength test according to the clause 7.1 of IEC 60079-7.

[17] Specific Conditions of Use

- Enclosures marked with warning label: "WARNING – POTENTIAL ELECTROSTATIC CHARGING HAZARD – SEE INSTRUCTIONS" must be cleaned only by damp cloth or antistatic products.
- Apparatus equipped with drain / venting valve Technor Italsmea model ECR3:
  - the valve cannot be open when an explosive dust atmosphere is present.
  - The valve can be open when an explosive gas atmosphere is present: when open, the equipment reaches the protection degree IP44.
  - When the valve is left in open position, it should be protected from light exposure.
- On the intrinsic safety terminals, the user must only connect devices with compatible intrinsic safety parameters according to EN 60079-14.

[18] Essential Health and Safety Requirements

Covered by the conformity with harmonized standards listed under item 9.

[19] Drawings and Documents

Title:	Drawing No.:	Rev. level:	Date:
Technical note	TN2111	0	17.11.2021
Instruction for use	TN2111 Annex A	0	08.11.2021
Apparatus list	TN2111 Annex B	0	17.11.2021
Drawings:			
Cable entries, plug, adaptors coupling systems	AC2111, sheet 1	0	10.11.2021
Example of operator arrangements for AQ-AR-EFE	AC2111, sheet 2	0	10.11.2021
Example of operator arrangements for SB-ST-EFEXE	AC2111, sheet 3	0	10.11.2021
Example terminals and earth bus bar	AC2111, sheet 4	0	10.11.2021
Drain / breath device type ECR3	AC2111, sheet 5	0	10.11.2021
Marking label SB..., ST..., AQ..., AR...	AC2111, sheet 6	0	10.11.2021
Marking label SB..., ST..., AQ..., AR...	AC2111, sheet 7	0	10.11.2021

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[1] **SUPPLEMENTARY EU – TYPE EXAMINATION CERTIFICATE**

[2] Equipment or Protective Systems Intended for use in Potentially Explosive Atmospheres Directive 2014/34/EU.

[3] Supplementary EU-Type Examination Certificate Number: **FIDI 21 ATEX 0090X/1**

[4] Product: **Junction boxes, local control stations and local control panels**

Type: **AQ-***P / AQ-***AL / AR-***P / AR-***AL**
AQ-*P-HT / AQ-***AL-HT / AR-***P-HT / AR-***AL-HT**
SB-* / ST-***
EFE-* / EFXE-*** AL/ EFXE-***SB / EFXE-***ST**
EFE-*-HT / EFXE-***AL-HT**

[5] Manufacturer: **Technor Italsmea S.p.A.**

[6] Address: **Via Italia 33, 20060 Gessate (MI), Italy**

[7] This supplementary certificate extends EU – Type Examination Certificate to apply to product designed and constructed in accordance with the specification set out in the Schedule of the said certificate but having any variations specified in the Schedule to this certificate and the documents therein referred to.

[8] FIDITAS Ltd., Notified Body number 2829 in accordance with Article 17 of Directive 2014/34/EU of the European Parliament and of the Council, dated 26 February 2014, certifies that this product has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of products intended for use in potentially explosive atmospheres given in Annex II of the Directive.

[9] The examination and test results are recorded in confidential Report No: **FIDI 23 CR 019**

[10] The marking of the product shall include the following:

II 1 G	**Ex ia IIC/IIB T6...T4 Ga**(2) or
II 2(1) G or **II 2(2) G**	**Ex db eb ia/ib mb [**(3)**] IIC/IIB T6...T4 Gb**(1) or
II 2 G	**Ex eb IIC/IIB T6...T4 Gb**(1) or
II 2 D	**Ex tb IIIC T85°C...T135°C Db**

(1) Others type of protection additional to 'eb' depending to the components actually mounted.

(2) In case of enclosures containing 'eb' terminals and/or 'ia Ga' already certified components (with compatible marking) only.

(3) Associated equipment protection depending on the components actually mounted (see lists): e.g. [ia/ib/ia Ga/ia IIIC Da] and/or [ia IIIC Da] or [ia/ib/ia Ga/ia IIIC Da] and/or [ia/ib/ia Ga] [ia IIIC Da]

FIDITAS Ltd.
Certification department
Approved:

Marino Kelava, M.E.Eng.

Our ref.: 23.CRT.071

Date: 19.04.2023

Fiditas d.o.o. ZAGREB

Fiditas Ltd. Slavka Tomerlina 44, 10361 Zagreb-Sesvete, Croatia
Phone: +385 1 5578565; info@fiditas.com ; www.fiditas.com

This certificate may only be reproduced in its entirety, without any change, schedule included

[11] **SCHEDULE**

[12] **SUPPLEMENTARY EU - TYPE EXAMINATION CERTIFICATE No.: FIDI 21 ATEX 0090X /1**

[13] Description of the variation to the Product

New Ex products added:

- Surge voltage protection unit type: PLUGTRAB PT2 or PT4 – PHOENIX CONTACT; II 1G> Ex ia IIC T4...T6 Ga; KEMA 00 ATEX 1099X;
- SITRANS TH230/420, type: 7NG0317, 0310; 0410 TR320/TR420 7NG0327; 7NG0320; TYPE 7NG0420; Siemens AG; II 1G Ex ia IIC T6...T4 Ga; II 2(1)G Ex ib [ia Ga] IIC T6...T4 Gb; DEKRA 17 ATEX 0116X
- Enhanced Model 644 Temperature Transmitter, ROSEMOUNT INCORPORATED, II 1G Ex ia IIC T6...T4 Ga; DEKRA 21ATEX0003X,
- Temperature Transmitter type: 5434D; 5431D; 6431D; 5435D; 5437D; 5437D; 5437B; 6437D, II 1G Ex ia IIC T6...T4 Ga; II 2(1)G Ex ib [ia Ga] IIC T6...T4 Gb; DEKRA 16 ATEX 0047X,
- Controls Units and / or Junction Boxes Type: GUB..., TECHNOR ITALSMEA; II 2G Ex db (*) IIC T(*) Gb; INERIS 22 ATEX 0008X
- Cable Transit Device type: CF 8 Ex, CF 32 Ex, CF 16 Ex, C RS T...Ex, RS..B Ex, SF...Ex, SFX...B Ex, B...B Ex, R...B Ex and RO...B; ROXTEC INTERNATIONAL AB, II 2G Ex e IIC Gb, II 2D Ex tb IIC Db; NEMKO 12 ATEX 1278X
- Cable Transit Device type: HD 16 Ex, HD 24 Ex, HD 32 Ex and HDLC Ex, ROXTEC INTERNATIONAL AB, II 2G Ex eb IIC Gb, II 2D Ex tb IIIC Db, PRESAFE 15 ATEX 6419X
- Control stations and junction boxes type: CP..., TECHNOR ITALSMEA, II 2G Ex db IIC T6 or T5 or T4 Gb or II 2(1)G Ex db [ia Ga] IIC T6 Gb(***) or II 2(2)G Ex db [ib] IIC T6 Gb (***); INERIS 03 ATEX 0009X
- Industrial plug and socket type: DXN1, MARECHAL ELECTRIC, II 2G Ex db eb IIC T5 or T6; II 2D Ex tb IIIC T90°C/T70°C; LCIE 99 ATEX6027X
- Industrial plug and socket type: DXN3, MARECHAL ELECTRIC; II 2G Ex db eb IIC T5 or T6; II 2D Ex tb IIIC T90°C/T70°C; LCIE 05 ATEX 6149X
- Industrial plug and socket type: DXN6, MARECHAL ELECTRIC, II 2G Ex db eb IIC T5 or T6; II 2D Ex tb IIIC T90°C/T70°C; LCIE 05 ATEX 6150X
- Industrial plug and socket type: PXN12C, MARECHAL ELECTRIC, II 2G Ex eb IIC T*; II 2G Ex ia or ib IIC T*; II 2D Ex tb IIIC T* Db; LCIE 07 ATEX 6070X
- Industrial plug and socket type: DXN25C, MARECHAL ELECTRIC; II 2G Ex eb IIC T*; II 2G Ex ia or ib IIC T6; II2D Ex tb IIIC T*; LCIE 09ATEX3050X
- Industrial plug and socket type: DXN37C, MARECHAL ELECTRIC; II 2G Ex eb IIC T*; II 2G Ex ia or ib IIC T6; II2D Ex tb IIIC T*; LCIE 07ATEX6071X
- Industrial plug and socket type: SPeX, MARECHAL ELECTRIC, II 2G Ex eb IIC T*; II2D Ex tb IIIC T* Db; LCIE 07ATEX6073X
- Industrial plug and socket type: DXA1, MARECHAL ELECTRIC, II 2G Ex db eb IIC T* Gb; II 2D Ex tb IIC T*°C Db; LCIE 15ATEX 3033X
- Industrial plug and socket type: PNCX, MARECHAL ELECTRIC, II 2G Ex IIC T6 Gb; II 2D Ex tb IIIC T72°C Db; LCIE 16ATEX3001X
- Terminal type: WDU 240, WEIDMULLER, II 2G Ex eb IIC Gb; KEMA 01 ATEX 2186U.

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[14] Confidential Report No. FIDI 23 CR 019

[14.1] Routine testing

No change to specified in the initial certificate.

[15] Specific Conditions of Use

Addditional to those specified the initial certificate:

- Manufacturer must obey relevant specific condition of use of Ex equipment and/or schedule of limitation of Ex components installed in/on the product and forward to the end user if relevant for the installation and use.

[16] Essential Health and Safety Requirements

Compliance with the Essential Health and Safety Requirements is not affected by this variation.

[17] Drawings and Documents

Title:	Drawing No.:	Rev. level:	Date:
Technical note	TN2111	1	20.01.2023
Instruction for use	TN2111 Annex A	1	20.01.2023
Apparatus list	TN2111 Annex B	1	20.01.2023

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IECEx Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION
IEC Certification System for Explosive Atmospheres

for rules and details of the IECEx Scheme visit www.iecex.com

Certificate No.:	**IECEx FIDI 21.0015X**	Page 1 of 4	Certificate history: Issue 0 (2022-02-18)
Status:	**Current**	Issue No: 1	
Date of Issue:	2023-05-04		

Applicant: **Technor Italsmea S.p.A.**
Via Italia 33
20060 Gessate (MI)
Italy

Equipment: **Junction boxes, local control stations and local control panels**

Optional accessory: Model reference: AQ-***P / AQ-***AL / AR-***P / AR-***AL / AQ-***P-HT / AQ-***AL-HT / AR-***P-HT / AR-***AL-HT / SB-*** / ST-*** / EFE-*** / EFXE-*** AL/ EFXE-***SB / EFXE-***ST / EFE-***-HT / EFXE-***AL-HT

Type of Protection: **Flameproof enclosure 'db'; Intrinsic safety 'ia/ib'; Increased safety 'eb'; Encapsulation 'mb', Protection by enclosure 'tb'**

Marking: **Ex ia IIC/IIB T6...T4 Ga**(2) or

Ex db eb ia/ib mb [(3)] IIC/IIB T6...T4 Gb(1) or

Ex eb IIC/IIB T6...T4 Gb(1) or

Ex tb IIIC T85°C...T135°C Db

(1) Others type of protection additional to Ex e/eb depending to the components actually mounted.

(2) In case of enclosures containing Ex e/Ex eb terminals and/or Ex ia Ga already certified components (with compatible marking) only.

(3) Associated equipment protection depending on the components actually mounted (see lists): e.g. [ia/ib/ia Ga/ia IIIC Da] and/or [ia IIIC Da] or [ia/ib/ia Ga/ia IIIC Da] and/or [ia/ib/ia Ga] [ia IIIC Da]

Approved for issue on behalf of the IECEx Certification Body: **Marino Kelava**

Position: **Certification Signatory**

Signature:
(for printed version)

Date:
(for printed version)

1. This certificate and schedule may only be reproduced in full.
2. This certificate is not transferable and remains the property of the issuing body.
3. The Status and authenticity of this certificate may be verified by visiting www.iecex.com or use of this QR Code.

Certificate issued by:

Fiditas Ltd
Slavka Tomerlina 44
HR-10361 Zagreb-Sesvete
Croatia

Fiditas
explosion safety solutions

IECEx Certificate of Conformity

Certificate No.: **IECEx FIDI 21.0015X**

Date of issue: 2023-05-04 Issue No: 1

Manufacturer: **Technor Italsmea S.p.A.**
Via Italia 33
20060 Gessate (MI)
Italy

Manufacturing locations:

This certificate is issued as verification that a sample(s), representative of production, was assessed and tested and found to comply with the IEC Standard list below and that the manufacturer's quality system, relating to the Ex products covered by this certificate, was assessed and found to comply with the IECEx Quality system requirements.This certificate is granted subject to the conditions as set out in IECEx Scheme Rules, IECEx 02 and Operational Documents as amended

STANDARDS :
The equipment and any acceptable variations to it specified in the schedule of this certificate and the identified documents, was found to comply with the following standards

IEC 60079-0:2017 Explosive atmospheres - Part 0: Equipment - General requirements
Edition:7.0

IEC 60079-1:2014-06 Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"
Edition:7.0

IEC 60079-11:2011 Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"
Edition:6.0

IEC 60079-18:2017 Explosive atmospheres - Part 18: Protection by encapsulation "m"
Edition:4.1

IEC 60079-31:2013 Explosive atmospheres - Part 31: Equipment dust ignition protection by enclosure "t"
Edition:2

IEC 60079-7:2017 Explosive atmospheres - Part 7: Equipment protection by increased safety "e"
Edition:5.1

This Certificate **does not** indicate compliance with safety and performance requirements other than those expressly included in the Standards listed above.

TEST & ASSESSMENT REPORTS:
A sample(s) of the equipment listed has successfully met the examination and test requirements as recorded in:

Test Reports:

HR/FIDI/ExTR21.0016/00 HR/FIDI/ExTR21.0016/01

Quality Assessment Report:

FR/INE/QAR08.0002/15

IECEx Certificate of Conformity

EQUIPMENT:
Equipment and systems covered by this Certificate are as follows:

Junction boxes, local control stations and local control panels series AQ-…..; AR-…..; SB…..; EFE-…..; EFXE-….. use certified enclosures of various sizes, manufactured by Technor Italsmea S.p.A., type: AQ-.... ; AR-....; SB-...; ST- …, certificate IECEx FIDI 21.0012U.

Enclosures coded …-HT are made in glass fiber reinforced polyester resin or in aluminum, and covered by IECEx component certificates: IECEx PTB 08.0003U, enclosure type: 26.****** and IECEx PTB 08.0003U, enclosure type: 25.******.

Enclosures may be equipped with certified Ex equipment or Ex components and Ex terminals listed in manufacturer's documentation. Certified Ex equipment or Ex components and Ex terminals must be used according to data available in related component or equipment certificates, in particular relevant temperature range, voltage and current limitations. The cable glands or plugs, with separate IECEx certificate, made in type of protection ‘eb’ and/or ‘tb’ with appropriate IP protection are mounted according to related manufacturer’s installation instructions. Each enclosure is provided with internal earthing certified terminal or earthing screw or bolt. Metal enclosures are provided by external earthing screw or bolt. Metal and polyester enclosures can be provided by passing through earthing terminals.

All enclosures can be provided by:
- Externally installed accessories as specified in manufacturer documents,
- Drain breath device type ECR3, included in this certificate,
- Internal/external earthing plate.

For other description see Annex.

SPECIFIC CONDITIONS OF USE: YES as shown below:

- Enclosures marked with warning label: “WARNING – POTENTIAL ELECTROSTATIC CHARGING HAZARD – SEE INSTRUCTIONS” must be cleaned only by damp cloth or antistatic products.
- Apparatus equipped with drain / venting valve Technor Italsmea model ECR3:
  - the valve cannot be open when an explosive dust atmosphere is present.
  - The valve can be open when an explosive gas atmosphere is present: when open, the equipment reaches the protection degree IP44.
  - When the valve is left in open position, it should be protected from light exposure.
- On the intrinsic safety terminals, the user must only connect devices with compatible intrinsic safety parameters according to IEC 60079-14.

IECEx Certificate of Conformity

DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)
New IECEx certified Ex products added in the Apparatus list according to list given in HR/FIDI/ ExTR 21.0016/01.

Annex:

IECEx FIDI 21.0015X Technor Equipment Annex1 issue1.pdf

Technical description (continued from original certificate)

Model identification

Junction boxes

A(1)-(2) (3) (4) (5) (6)	(1) –	**Q**: Square size **R**: Rectangular size
	(2) (3) (4)	dimension, in cm
	(5)	Material **P**: Glass fiber reinforced polyester resin **AL**: Aluminium Alloy
	(6)	None: up to internal temperature of 105°C **HT**: up to internal temperature of 130°C
SB- (2) (3) (4)	(2) (3) (4)	dimension, in cm
ST- (2) (3) (4)	(2) (3) (4)	dimension, in cm

Panel boards

EFE- (2) (3) (4) (6)	(2) (3) (4)	dimension, in cm
	(6)	None: up to internal temperature of 105°C **HT**: up to internal temperature of 130°C
EFXE- (2) (3) (4) (5) (6)	(2) (3) (4)	dimension, in cm
	(5)	Material **SB** or **ST**: stainless steel **AL**: Aluminium Alloy
	(6)	None: up to internal temperature of 105°C **HT**: up to internal temperature of 130°C

Technical data:

Electrical data:	According to Ex component to actually installed
Ambient temperature:	-50°C to +95°C Other possible ranges are with: - min temperature: -50°C to -20 °C - max temperature of +40 °C to +95 °C
Mechanical protection:	IP55, IP66 or IP67 depending on model

Temperature class and/or maximum surface temperature of any junction box or control panel depend on ambient temperature and internal power dissipation. The values that must be observed are given in relevant tables in this certificate.

For commercial reasons model name listed in the tables below can be modified as follows: first (2) and second (3) pair of digits can be reversed.

Models sizes

Polyester High Temperature		Aluminium High Temperature	
AQ-080806P-HT	EFE-080806-HT	AQ-080806AL-HT	EFXE-080806AL-HT
AQ-080808P-HT	EFE-080808-HT	AR-081306AL-HT	EFXE-081306AL-HT
AR-081106P-HT	EFE-081106-HT	AR-081806AL-HT	EFXE-081806AL-HT
AR-081108P-HT	EFE-081108-HT	AR-082505AL-HT	EFXE-082505AL-HT
AR-081606P-HT	EFE-081606-HT	AQ-101008AL-HT	EFXE-101008AL-HT
AR-081608P-HT	EFE-081608-HT	AR-101608AL-HT	EFXE-101608AL-HT
AR-081906P-HT	EFE-081906-HT	AR-102008AL-HT	EFXE-102008AL-HT
AR-081908P-HT	EFE-081908-HT	AQ-121208AL-HT	EFXE-121208AL-HT
AR-082306P-HT	EFE-082306-HT	AQ-121209AL-HT	EFXE-121209AL-HT
AR-082308P-HT	EFE-082308-HT	AR-122208AL-HT	EFXE-122208AL-HT
AQ-121209P-HT	EFE-121209-HT	AR-122209AL-HT	EFXE-122209AL-HT
AR-122209P-HT	EFE-122209-HT	AR-123608AL-HT	EFXE-123608AL-HT
AQ-161609P-HT	EFE-161609-HT	AQ-141409AL-HT	EFXE-141409AL-HT
AR-162609P-HT	EFE-162609-HT	AR-142009AL-HT	EFXE-142009AL-HT
AR-163609P-HT	EFE-163609-HT	AQ-161609AL-HT	EFXE-161609AL-HT
AR-165609P-HT	EFE-165609-HT	AR-162609AL-HT	EFXE-162609AL-HT
AQ-202017P-HT	EFE-202017-HT	AR-163609AL-HT	EFXE-163609AL-HT
AR-203017P-HT	EFE-203017-HT	AR-165609AL-HT	EFXE-165609AL-HT
AQ-252612P-HT	EFE-252612-HT	AQ-181810AL-HT	EFXE-181810AL-HT
AQ-252616P-HT	EFE-252616-HT	AR-182810AL-HT	EFXE-182810AL-HT
AR-254012P-HT	EFE-254012-HT	AR-102311AL-HT	EFXE-102311AL-HT
AR-254016P-HT	EFE-254016-HT	AR-202311AL-HT	EFXE-202311AL-HT
AR-256012P-HT	EFE-256012-HT	AR-202318AL-HT	EFXE-202318AL-HT
AR-304020P-HT	EFE-304020-HT	AR-232811AL-HT	EFXE-232811AL-HT
AQ-363609P-HT	EFE-363609-HT	AR-233311AL-HT	EFXE-233311AL-HT
AR-406025P-HT	EFE-406025-HT	AR-233318AL-HT	EFXE-233318AL-HT
AQ-414012P-HT	EFE-414012-HT	AR-234011AL-HT	EFXE-234011AL-HT
AQ-414020P-HT	EFE-414020-HT	AR-234023AL-HT	EFXE-234023AL-HT
		AR-236011AL-HT	EFXE-236011AL-HT
		AR-314011AL-HT	EFXE-314011AL-HT
		AR-314014AL-HT	EFXE-314014AL-HT
		AR-314018AL-HT	EFXE-314018AL-HT
		AR-314023AL-HT	EFXE-314023AL-HT
		AR-316011AL-HT	EFXE-316011AL-HT
		AR-316018AL-HT	EFXE-316018AL-HT
		AQ-606020AL-HT	EFXE-606020AL-HT

Polyester		Aluminium		Stainless steel	
AQ-080806P	EFE-080806	AQ-080806AL	EFXE-080806AL	SB-101210	EFXE-101210SB
AQ-080808P	EFE-080808	AR-081306AL	EFXE-081306AL	SB-151510	EFXE-151510SB
AR-081106P	EFE-081106	AR-081806AL	EFXE-081806AL	SB-142013	EFXE-142013SB
AR-081606P	EFE-081606	AR-081808AL	EFXE-081808AL	SB-202010	EFXE-202010SB
AR-081906P	EFE-081906	AR-082505AL	EFXE-082505AL	SB-202016	EFXE-202016SB
AQ-121209P	EFE-121209	AR-082508AL	EFXE-082508AL	SB-202713	EFXE-202713SB
AR-122209P	EFE-122209	AQ-101008AL	EFXE-101008AL	SB-272713	EFXE-272713SB
AQ-161609P	EFE-161609	AR-101508AL	EFXE-101508AL	SB-203016	EFXE-203016SB
AR-162609P	EFE-162609	AR-101608AL	EFXE-101608AL	SB-273513	EFXE-273513SB
AR-163609P	EFE-163609	AR-102008AL	EFXE-102008AL	SB-282816	EFXE-282816SB
AQ-252612P	EFE-252612	AQ-121208AL	EFXE-121208AL	SB-204016	EFXE-204016SB
AQ-252616P	EFE-252616	AR-122209AL	EFXE-122209AL	SB-353516	EFXE-353516SB
AR-254012P	EFE-254012	AQ-141409AL	EFXE-141409AL	SB-282827	EFXE-282827SB
AR-254016P	EFE-254016	AR-142009AL	EFXE-142009AL	SB-355016	EFXE-355016SB
AR-256012P	EFE-256012	AQ-161609AL	EFXE-161609AL	SB-383816	EFXE-383816SB
AQ-414012P	EFE-414012	AR-162410AL	EFXE-162410AL	SB-384516	EFXE-384516SB
		AR-162609AL	EFXE-162609AL	SB-385716	EFXE-385716SB
		AQ-181810AL	EFXE-181810AL	SB-505016	EFXE-505016SB
		AR-182810AL	EFXE-182810AL	SB-383827	EFXE-383827SB
		AR-202311AL	EFXE-202311AL	SB-575716	EFXE-575716SB
		AR-202318AL	EFXE-202318AL	SB-577620	EFXE-577620SB
		AR-232811AL	EFXE-232811AL	SB-575730	EFXE-575730SB
		AR-233312AL	EFXE-233312AL	SB-769520	EFXE-769520SB
		AR-233318AL	EFXE-233318AL	SB-1258040	EFXE-1258040SB

Enclosure types (Stainless steel)	
ST-101210	EFXE-101210ST
ST-151510	EFXE-151510ST
ST-142013	EFXE-142013ST
ST-202010	EFXE-202010ST
ST-202016	EFXE-202016ST
ST-202713	EFXE-202713ST
ST-272713	EFXE-272713ST
ST-203016	EFXE-203016ST
ST-273513	EFXE-273513ST
ST-282816	EFXE-282816ST
ST-204016	EFXE-204016ST
ST-353516	EFXE-353516ST
ST-282827	EFXE-282827ST
ST-355016	EFXE-355016ST
ST-383816	EFXE-383816ST
ST-384516	EFXE-384516ST
ST-385716	EFXE-385716ST
ST-505016	EFXE-505016ST
ST-383827	EFXE-383827ST
ST-575716	EFXE-575716ST
ST-577620	EFXE-577620ST
ST-575730	EFXE-575730ST
ST-769520	EFXE-769520ST
ST-1258040	EFXE-1258040ST

Note 2 For stainless steel enclosures: dimensions (2) and (3) can be decreased or increased up to 20%, dimensions (4) can be increased up to 500 mm. Model name changes consequently.

Power dissipation – HT glass fiber reinforced polyester resin enclosures

Enclosure types (polyester)		Maximum power dissipation (W) – Tamb. up to **40**°C							
		INTERNAL TEMP.60°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)	INTERNAL TEMP.127°C (T4/T135°C)
AQ-080806P-HT	EFE-080806-HT	3,5	5,2	7,0	7,8	9,6	10,4	11,3	15,2
AQ-080808P-HT	EFE-080808-HT	4,6	6,8	9,1	10,2	12,5	13,7	14,8	19,8
AR-081106P-HT	EFE-081106-HT	4,3	6,4	8,5	9,6	11,8	12,8	13,9	18,6
AR-081108P-HT	EFE-081108-HT	5,6	8,4	11,2	12,6	15,3	16,7	18,1	24,2
AR-081606P-HT	EFE-081606-HT	5,8	8,7	11,6	13,0	15,9	17,4	18,8	25.2
AR-081608P-HT	EFE-081608-HT	6,8	10,2	13,7	15,4	18,8	20,5	22,2	29,7
AR-081906P-HT	EFE-081906-HT	6,4	9,6	12,8	14,4	17,6	19,2	20,8	27,8
AR-081908P-HT	EFE-081908-HT	7,5	11,3	15,1	17,0	20,7	22,6	24,5	32,7
AR-082306P-HT	EFE-082306-HT	7,2	10,8	14,4	16,2	19,8	21,6	23,4	31,3
AR-082308P-HT	EFE-082308-HT	8,5	12,7	16,9	19,0	23,3	25,4	27,5	36,7
AQ-121209P-HT	EFE-121209-HT	8,0	12,0	15,9	17,9	21,9	23,9	25,9	34,7
AR-122209P-HT	EFE-122209-HT	10,8	16,2	21,6	24,3	29,7	32,4	35,1	47,0
AQ-161609P-HT	EFE-161609-HT	10,4	15,6	20,8	23,4	28,6	31,2	33,8	45,2
AR-162609P-HT	EFE-162609-HT	13,4	20,1	26,8	30,2	36,9	40,2	43,6	58,3
AR-163609P-HT	EFE-163609-HT	16,2	24,3	32,4	36,5	44,6	48,6	52,7	70,5
AR-165609P-HT	EFE-165609-HT	21,4	32,0	42,7	48,1	58,7	64,1	69,4	92,9
AQ-202017P-HT	EFE-202017-HT	18,0	26,9	35,9	40,4	49,4	53,9	58,4	78,1
AR-203017P-HT	EFE-203017-HT	20,9	31,3	41,7	47,0	57,4	62,6	67,8	90,8
AQ-252612P-HT	EFE-252612-HT	18,8	28,2	37,6	42,4	51,8	56,5	61,2	81,9
AQ-252616P-HT	EFE-252616-HT	20,8	31,1	41,5	46,7	57,1	62,3	67,5	90,3
AR-254012P-HT	EFE-254012-HT	22,8	34,2	45,7	51,4	62,8	68,5	74,2	99,3
AR-254016P-HT	EFE-254016-HT	26,2	39,3	52,4	58,9	72,0	78,6	85,1	113,9
AR-256012P-HT	EFE-256012-HT	29,0	43,6	58,1	65,3	79,9	87,1	94,4	126,3
AR-304020P-HT	EFE-304020-HT	32,3	48,5	64,7	72,7	88,9	97,0	105,1	140,7
AQ-363609P-HT	EFE-363609-HT	23,0	34,6	46,1	51,8	63,4	69,1	74,9	100,2
AR-406025P-HT	EFE-406025-HT	50,3	75,5	100,7	113,3	138,4	151,0	163,6	218,9
AQ-414012P-HT	EFE-414012-HT	29,1	43,7	58,2	65,5	80,1	87,3	94,6	126,6
AQ-414020P-HT	EFE-414020-HT	36,6	55,0	73,3	82,4	100,8	109,9	119,1	159,4

Enclosure types (polyester)		Maximum power dissipation (W) – Tamb. up to **50**°C							
		INTERNAL TEMP.60°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)	INTERNAL TEMP.127°C (T4/T135°C)
AQ-080806P-HT	EFE-080806-HT	1,7	3,5	5,2	6,1	7,8	8,7	9,6	13,4
AQ-080808P-HT	EFE-080808-HT	2,3	4,6	6,8	8,0	10,2	11,4	12,5	17,5
AR-081106P-HT	EFE-081106-HT	2,1	4,3	6,4	7,5	9,6	10,7	11,8	16,5
AR-081108P-HT	EFE-081108-HT	2,8	5,6	8,4	9,8	12,6	13,9	15,3	21.5
AR-081606P-HT	EFE-081606-HT	2,9	5,8	8,7	10,1	13,0	14,5	15,9	22,3
AR-081608P-HT	EFE-081608-HT	3,4	6,8	10,2	11,9	15,4	17,1	18,8	26,3
AR-081906P-HT	EFE-081906-HT	3,2	6,4	9,6	11,2	14,4	16,0	17,6	24,6
AR-081908P-HT	EFE-081908-HT	3,8	7,5	11,3	13,2	17,0	18,8	20,7	29,0
AR-082306P-HT	EFE-082306-HT	3,6	7,2	10,8	12,6	16,2	18,0	19,8	27,7
AR-082308P-HT	EFE-082308-HT	4,2	8,5	12,7	14,8	19,0	21,1	23,3	32,5
AQ-121209P-HT	EFE-121209-HT	4,0	8,0	12,0	14,0	17,9	19,9	21,9	30,7
AR-122209P-HT	EFE-122209-HT	5,4	10,8	16,2	18,9	24,3	27,0	29,7	41,6
AQ-161609P-HT	EFE-161609-HT	5,2	10,4	15,6	18,2	23,4	26,0	28,6	40,0
AR-162609P-HT	EFE-162609-HT	6,7	13,4	20,1	23,5	30,2	33,5	36,9	51,6
AR-163609P-HT	EFE-163609-HT	8,1	16,2	24,3	28,4	36,5	40,5	44,6	62,3
AR-165609P-HT	EFE-165609-HT	10,7	21,4	32,0	37,4	48,1	53,4	58,7	82,2
AQ-202017P-HT	EFE-202017-HT	9,0	18,0	26,9	31,4	40,4	44,9	49,4	69,1
AR-203017P-HT	EFE-203017-HT	10,4	20,9	31,3	36,5	47,0	52,2	57,4	80,4
AQ-252612P-HT	EFE-252612-HT	9,4	18,8	28,2	32,9	42,4	47,1	51,8	72,5
AQ-252616P-HT	EFE-252616-HT	10,4	20,8	31,1	36,3	46,7	51,9	57,1	79,9
AR-254012P-HT	EFE-254012-HT	11,4	22,8	34,2	39,9	51,4	57,1	62,8	87,9
AR-254016P-HT	EFE-254016-HT	13,1	26,2	39,3	45,8	58,9	65,5	72,0	100,8
AR-256012P-HT	EFE-256012-HT	14,5	29,0	43,6	50,8	65,3	72,6	79,9	111,8
AR-304020P-HT	EFE-304020-HT	16,2	32,3	48,5	56,6	72,7	80,8	88,9	124,4
AQ-363609P-HT	EFE-363609-HT	11,5	23,0	34,6	40,3	51,8	57,6	63,4	88,7
AR-406025P-HT	EFE-406025-HT	25,2	50,3	75,5	88,1	113,3	125,8	138,4	193,8
AQ-414012P-HT	EFE-414012-HT	14,6	29,1	43,7	51,0	65,5	72,8	80,1	112,1
AQ-414020P-HT	EFE-414020-HT	18,3	36,6	55,0	64,1	82,4	91,6	100,8	141,1

Enclosure types (polyester)		Maximum power dissipation (W) – Tamb. up to **55**°C							
		INTERNAL TEMP.65°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)	INTERNAL TEMP.127°C (T4/T135°C)
AQ-080806P-HT	EFE-080806-HT	1,7	2,6	4,4	5,2	7,0	7,8	8,7	12,5
AQ-080808P-HT	EFE-080808-HT	2,3	3,4	5,7	6,8	9,1	10,2	11,4	16,2
AR-081106P-HT	EFE-081106-HT	2,1	3,2	5,3	6,4	8,5	9,6	10,7	15,2
AR-081108P-HT	EFE-081108-HT	2,8	4,2	7,0	8,4	11,2	12,6	13,9	19,8
AR-081606P-HT	EFE-081606-HT	2,9	4,3	7,2	8,7	11,6	13,0	14,5	20,6
AR-081608P-HT	EFE-081608-HT	3,4	5,1	8,5	10,2	13,7	15,4	17,1	24,3
AR-081906P-HT	EFE-081906-HT	3,2	4,8	8,0	9,6	12,8	14,4	16,0	22,8
AR-081908P-HT	EFE-081908-HT	3,8	5,7	9,4	11,3	15,1	17,0	18,8	26,8
AR-082306P-HT	EFE-082306-HT	3,6	5,4	9,0	10,8	14,4	16,2	18,0	25,6
AR-082308P-HT	EFE-082308-HT	4,2	6,3	10,6	12,7	16,9	19,0	21,1	30,0
AQ-121209P-HT	EFE-121209-HT	4,0	6,0	10,0	12,0	15,9	17,9	19,9	28,3
AR-122209P-HT	EFE-122209-HT	5,4	8,1	13,5	16,2	21,6	24,3	27,0	38,3
AQ-161609P-HT	EFE-161609-HT	5,2	7,8	13,0	15,6	20,8	23,4	26,0	36,9
AR-162609P-HT	EFE-162609-HT	6,7	10,1	16,8	20,1	26,8	30,2	33,5	47,6
AR-163609P-HT	EFE-163609-HT	8,1	12,2	20,3	24,3	32,4	36,5	40,5	57,5
AR-165609P-HT	EFE-165609-HT	10,7	16,0	26,7	32,0	42,7	48,1	53,4	75,8
AQ-202017P-HT	EFE-202017-HT	9,0	13,5	22,4	26,9	35,9	40,4	44,9	63,7
AR-203017P-HT	EFE-203017-HT	10,4	15,7	26,1	31,3	41,7	47,0	52,2	74,0
AQ-252612P-HT	EFE-252612-HT	9,4	14,1	23,5	28,2	37,6	42,4	47,1	66,8
AQ-252616P-HT	EFE-252616-HT	10,4	15,6	26,0	31,1	41,5	46,7	51,9	73,7
AR-254012P-HT	EFE-254012-HT	11,4	17,1	28,5	34,2	45,7	51,4	57,1	81,0
AR-254016P-HT	EFE-254016-HT	13,1	19,6	32,7	39,3	52,4	58,9	65,5	92,9
AR-256012P-HT	EFE-256012-HT	14,5	21,8	36,3	43,6	58,1	65,3	72,6	103,0
AR-304020P-HT	EFE-304020-HT	16,2	24,2	40,4	48,5	64,7	72,7	80,8	114,7
AQ-363609P-HT	EFE-363609-HT	11,5	17,3	28,8	34,6	46,1	51,8	57,6	81,8
AR-406025P-HT	EFE-406025-HT	25,2	37,8	62,9	75,5	100,7	113,3	125,8	178,6
AQ-414012P-HT	EFE-414012-HT	14,6	21,8	36,4	43,7	58,2	65,5	72,8	103,0
AQ-414020P-HT	EFE-414020-HT	18,3	27,5	45,8	55,0	73,3	82,4	91,6	130,0

Enclosure types (polyester)		Maximum power dissipation (W) – Tamb. up to **60**°C						
		INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)	INTERNAL TEMP.127°C (T4/T135°C)
AQ-080806P-HT	EFE-080806-HT	1,7	3,5	4,4	6,1	7,0	7,8	11,7
AQ-080808P-HT	EFE-080808-HT	2,3	4,6	5,7	8,0	9,1	10,2	15,2
AR-081106P-HT	EFE-081106-HT	2,1	4,3	5,3	7,5	8,5	9,6	14,3
AR-081108P-HT	EFE-081108-HT	2,8	5,6	7,0	9,8	11,2	12,6	18,7
AR-081606P-HT	EFE-081606-HT	2,9	5,8	7,2	10,1	11,6	13,0	19,4
AR-081608P-HT	EFE-081608-HT	3,4	6,8	8,5	11,9	13,7	15,4	22,9
AR-081906P-HT	EFE-081906-HT	3,2	6,4	8,0	11,2	12,8	14,4	21,4
AR-081908P-HT	EFE-081908-HT	3,8	7,5	9,4	13,2	15,1	17,0	25,3
AR-082306P-HT	EFE-082306-HT	3,6	7,2	9,0	12,6	14,4	16,2	24,1
AR-082308P-HT	EFE-082308-HT	4,2	8,5	10,6	14,8	16,9	19,0	28,3
AQ-121209P-HT	EFE-121209-HT	4,0	8,0	10,0	14,0	15,9	17,9	26,7
AR-122209P-HT	EFE-122209-HT	5,4	10,8	13,5	18,9	21,6	24,3	36,2
AQ-161609P-HT	EFE-161609-HT	5,2	10,4	13,0	18,2	20,8	23,4	34,8
AR-162609P-HT	EFE-162609-HT	6,7	13,4	16,8	23,5	26,8	30,2	44,9
AR-163609P-HT	EFE-163609-HT	8,1	16,2	20,3	28,4	32,4	36,5	54,2
AR-165609P-HT	EFE-165609-HT	10,7	21,4	26,7	37,4	42,7	48,1	71,5
AQ-202017P-HT	EFE-202017-HT	9,0	18,0	22,4	31,4	35,9	40,4	60,1
AR-203017P-HT	EFE-203017-HT	10,4	20,9	26,1	36,5	41,7	47,0	69,9
AQ-252612P-HT	EFE-252612-HT	9,4	18,8	23,5	32,9	37,6	42,4	63,0
AQ-252616P-HT	EFE-252616-HT	10,4	20,8	26,0	36,3	41,5	46,7	69,5
AR-254012P-HT	EFE-254012-HT	11,4	22,8	28,5	39,9	45,7	51,4	76,5
AR-254016P-HT	EFE-254016-HT	13,1	26,2	32,7	45,8	52,4	58,9	87,7
AR-256012P-HT	EFE-256012-HT	14,5	29,0	36,3	50,8	58,1	65,3	97,2
AR-304020P-HT	EFE-304020-HT	16,2	32,3	40,4	56,6	64,7	72,7	108,3
AQ-363609P-HT	EFE-363609-HT	11,5	23,0	28,8	40,3	46,1	51,8	77,1
AR-406025P-HT	EFE-406025-HT	25,2	50,3	62,9	88,1	100,7	113,3	168,7
AQ-414012P-HT	EFE-414012-HT	14,6	29,1	36,4	51,0	58,2	65,5	97,5
AQ-414020P-HT	EFE-414020-HT	18,3	36,6	45,8	64,1	73,3	82,4	122,7

Enclosure types (polyester)		Maximum power dissipation (W) Tamb. up to **95**°C		
		INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)	INTERNAL TEMP.127°C (T4/T135°C)
AQ-080806P-HT	EFE-080806-HT	0,9	1,7	5,6
AQ-080808P-HT	EFE-080808-HT	1,1	2,3	7,3
AR-081106P-HT	EFE-081106-HT	1,1	2,1	6,5
AR-081108P-HT	EFE-081108-HT	1,4	2,8	9,0
AR-081606P-HT	EFE-081606-HT	1,4	2,9	9,2
AR-081608P-HT	EFE-081608-HT	1,7	3,4	10,9
AR-081906P-HT	EFE-081906-HT	1,6	3,2	10,2
AR-081908P-HT	EFE-081908-HT	1,9	3,8	12,1
AR-082306P-HT	EFE-082306-HT	1,8	3,6	11,5
AR-082308P-HT	EFE-082308-HT	2,1	4,2	13,5
AQ-121209P-HT	EFE-121209-HT	2,0	4,0	12,8
AR-122209P-HT	EFE-122209-HT	2,7	5,4	17,3
AQ-161609P-HT	EFE-161609-HT	2,6	5,2	16,6
AR-162609P-HT	EFE-162609-HT	3,4	6,7	21,5
AR-163609P-HT	EFE-163609-HT	4,1	8,1	26,0
AR-165609P-HT	EFE-165609-HT	5,3	10,7	34,2
AQ-202017P-HT	EFE-202017-HT	4,5	9,0	28,7
AR-203017P-HT	EFE-203017-HT	5,2	10,4	33,4
AQ-252612P-HT	EFE-252612-HT	4,7	9,4	30,1
AQ-252616P-HT	EFE-252616-HT	5,2	10,4	33,2
AR-254012P-HT	EFE-254012-HT	5,7	11,4	36,5
AR-254016P-HT	EFE-254016-HT	6,5	13,1	41,9
AR-256012P-HT	EFE-256012-HT	7,3	14,5	46,4
AR-304020P-HT	EFE-304020-HT	8,1	16,2	51,8
AQ-363609P-HT	EFE-363609-HT	5,8	11,5	36,8
AR-406025P-HT	EFE-406025-HT	12,6	25,2	80,6
AQ-414012P-HT	EFE-414012-HT	7,3	14,6	46,6
AQ-414020P-HT	EFE-414020-HT	9,2	18,3	58,6

Power dissipation – HT aluminium alloy enclosures

Enclosure types (aluminium)		Maximum power dissipation (W) – Tamb. up to **40**°C							
		INTERNAL TEMP.60°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)	INTERNAL TEMP.130°C (T4/T135°C)
AQ-080806AL-HT	EFXE-080806AL-HT	5,2	7,8	10,4	11,7	14,3	15,6	16,9	23,4
AR-081306AL-HT	EFXE-081306AL-HT	7,0	10,6	14,1	15,9	19,4	21,2	23,0	31,8
AR-081806AL-HT	EFXE-081806AL-HT	8,9	13,3	17,8	20,0	24,5	26,7	28,9	40,0
AR-082505AL-HT	EFXE-082505AL-HT	10,9	16,4	21,9	24,7	30,1	32,9	35,6	49,4
AQ-101008AL-HT	EFXE-101008AL-HT	8,7	13,0	17,4	19,6	23,9	26,1	28,3	39,2
AR-101608AL-HT	EFXE-101608AL-HT	11,5	17,3	23,1	26,0	31,8	34,7	37,6	52,0
AR-102008AL-HT	EFXE-102008AL-HT	13,4	20,1	26,8	30,2	36,9	40,3	43,6	60,4
AQ-121208AL-HT	EFXE-121208AL-HT	10,8	16,2	21,6	24,3	29,7	32,4	35,1	48,6
AQ-121209AL-HT	EFXE-121209AL-HT	11,6	17,5	23,3	26,2	32,1	35,0	37,9	52,5
AR-122208AL-HT	EFXE-122208AL-HT	15,6	23,5	31,3	35,3	43,1	47,0	50,9	70,6
AR-122209AL-HT	EFXE-122209AL-HT	16,8	25,3	33,7	37,9	46,3	50,6	54,8	75,9
AR-123608AL-HT	EFXE-123608AL-HT	22,3	33,5	44,7	50,3	61,5	67,1	72,7	100,7
AQ-141409AL-HT	EFXE-141409AL-HT	13,7	20,6	27,5	31,0	37,9	41,3	44,8	62,0
AR-142009AL-HT	EFXE-142009AL-HT	17,1	25,7	34,2	38,5	47,1	51,4	55,7	77,1
AQ-161609AL-HT	EFXE-161609AL-HT	16,1	24,1	32,2	36,2	44,2	48,3	52,3	72,4
AR-162609AL-HT	EFXE-162609AL-HT	21,9	32,8	43,8	49,3	60,2	65,7	71,2	98,6
AR-163609AL-HT	EFXE-163609AL-HT	27,5	41,3	55,1	62,0	75,7	82,6	89,5	124,0
AR-165609AL-HT	EFXE-165609AL-HT	38,4	57,7	76,9	86,6	105,8	115,4	125,0	173,2
AQ-181810AL-HT	EFXE-181810AL-HT	19,7	29,6	39,5	44,4	54,3	59,2	64,2	88,8
AR-182810AL-HT	EFXE-182810AL-HT	26,1	39,1	52,2	58,7	71,8	78,3	84,8	117,5
AR-102311AL-HT	EFXE-102311AL-HT	18,2	27,3	36,5	41,0	50,1	54,7	59,3	82,1
AR-202311AL-HT	EFXE-202311AL-HT	26,1	39,1	52,2	58,7	71,7	78,3	84,8	117,4
AR-202318AL-HT	EFXE-202318AL-HT	35,9	53,9	71,8	80,8	98,8	107,8	116,8	161,7
AR-232811AL-HT	EFXE-232811AL-HT	31,6	47,5	63,3	71,3	87,1	95,0	103,0	142,6
AR-233311AL-HT	EFXE-233311AL-HT	35,3	52,9	70,6	79,4	97,0	105,9	114,7	158,8
AR-233318AL-HT	EFXE-233318AL-HT	47,5	71,3	95,1	107,0	130,8	142,7	154,6	214,1
AR-234011AL-HT	EFXE-234011AL-HT	40,2	60,4	80,5	90,6	110,7	120,8	130,9	181,2
AR-234023AL-HT	EFXE-234023AL-HT	62,2	93,3	124,5	140,0	171,2	186,7	202,3	280,1
AR-236011AL-HT	EFXE-236011AL-HT	54,1	81,2	108,3	121,9	148,9	162,5	176,0	243,8
AR-314011AL-HT	EFXE-314011AL-HT	48,6	72,9	97,2	109,3	133,6	145,8	157,9	218,7
AR-314014AL-HT	EFXE-314014AL-HT	54,9	82,4	109,9	123,7	151,2	164,9	178,7	247,4
AR-314018AL-HT	EFXE-314018AL-HT	63,8	95,7	127,6	143,5	175,4	191,4	207,3	287,1
AR-314023AL-HT	EFXE-314023AL-HT	73,5	110,3	147,1	165,5	202,3	220,7	239,1	331,0
AR-316011AL-HT	EFXE-316011AL-HT	64,0	96,0	128,1	144,1	176,1	192,1	208,1	288,2
AR-316018AL-HT	EFXE-316018AL-HT	82,7	124,1	165,5	186,2	227,6	248,3	268,9	372,4
AQ-606020AL-HT	EFXE-606020AL-HT	129,1	193,7	258,3	290,5	355,1	387,4	419,7	581,1

Enclosure types (aluminium)		Maximum power dissipation (W) – Tamb. up to **50**°C							
		INTERNAL TEMP.60°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)	INTERNAL TEMP.130°C (T4/T135°C)
AQ-080806AL-HT	EFXE-080806AL-HT	2,6	5,2	7,8	9,1	11,7	13,0	14,3	20,8
AR-081306AL-HT	EFXE-081306AL-HT	3,5	7,0	10,6	12,3	15,9	17,7	19,4	28,3
AR-081806AL-HT	EFXE-081806AL-HT	4,4	8,9	13,3	15,5	20,0	22,2	24,5	35,6
AR-082505AL-HT	EFXE-082505AL-HT	5,4	10,9	16,4	19,2	24,7	27,4	30,1	43,9
AQ-101008AL-HT	EFXE-101008AL-HT	4,3	8,7	13,0	15,2	19,6	21,7	23,9	34,8
AR-101608AL-HT	EFXE-101608AL-HT	5,7	11,5	17,3	20,2	26,0	28,9	31,8	46,2
AR-102008AL-HT	EFXE-102008AL-HT	6,7	13,4	20,1	23,5	30,2	33,5	36,9	53,7
AQ-121208AL-HT	EFXE-121208AL-HT	5,4	10,8	16,2	18,9	24,3	27,0	29,7	43,2
AQ-121209AL-HT	EFXE-121209AL-HT	5,8	11,6	17,5	20,4	26,2	29,2	32,1	46,7
AR-122208AL-HT	EFXE-122208AL-HT	7,8	15,6	23,5	27,4	35,3	39,2	43,1	62,7
AR-122209AL-HT	EFXE-122209AL-HT	8,4	16,8	25,3	29,5	37,9	42,1	46,3	67,4
AR-123608AL-HT	EFXE-123608AL-HT	11,1	22,3	33,5	39,1	50,3	55,9	61,5	89,5
AQ-141409AL-HT	EFXE-141409AL-HT	6,8	13,7	20,6	24,1	31,0	34,4	37,9	55,1
AR-142009AL-HT	EFXE-142009AL-HT	8,5	17,1	25,7	30,0	38,5	42,8	47,1	68,5
AQ-161609AL-HT	EFXE-161609AL-HT	8,0	16,1	24,1	28,1	36,2	40,2	44,2	64,4
AR-162609AL-HT	EFXE-162609AL-HT	10,9	21,9	32,8	38,3	49,3	54,8	60,2	87,6
AR-163609AL-HT	EFXE-163609AL-HT	13,7	27,5	41,3	48,2	62,0	68,9	75,7	110,2
AR-165609AL-HT	EFXE-165609AL-HT	19,2	38,4	57,7	67,3	86,6	96,2	105,8	153,9
AQ-181810AL-HT	EFXE-181810AL-HT	9,8	19,7	29,6	34,5	44,4	49,3	54,3	79,0
AR-182810AL-HT	EFXE-182810AL-HT	13,0	26,1	39,1	45,7	58,7	65,2	71,8	104,4
AR-102311AL-HT	EFXE-102311AL-HT	9,1	18,2	27,3	31,9	41,0	45,6	50,1	73,0
AR-202311AL-HT	EFXE-202311AL-HT	13,0	26,1	39,1	45,6	58,7	65,2	71,7	104,4
AR-202318AL-HT	EFXE-202318AL-HT	17,9	35,9	53,9	62,8	80,8	89,8	98,8	143,7
AR-232811AL-HT	EFXE-232811AL-HT	15,8	31,6	47,5	55,4	71,3	79,2	87,1	126,7
AR-233311AL-HT	EFXE-233311AL-HT	17,6	35,3	52,9	61,7	79,4	88,2	97,0	141,2
AR-233318AL-HT	EFXE-233318AL-HT	23,7	47,5	71,3	83,2	107,0	118,9	130,8	190,3
AR-234011AL-HT	EFXE-234011AL-HT	20,1	40,2	60,4	70,5	90,6	100,7	110,7	161,1
AR-234023AL-HT	EFXE-234023AL-HT	31,1	62,2	93,3	108,9	140,0	155,6	171,2	249,0
AR-236011AL-HT	EFXE-236011AL-HT	27,0	54,1	81,2	94,8	121,9	135,4	148,9	216,7
AR-314011AL-HT	EFXE-314011AL-HT	24,3	48,6	72,9	85,0	109,3	121,5	133,6	194,4
AR-314014AL-HT	EFXE-314014AL-HT	27,4	54,9	82,4	96,2	123,7	137,4	151,2	219,9
AR-314018AL-HT	EFXE-314018AL-HT	31,9	63,8	95,7	111,6	143,5	159,5	175,4	255,2
AR-314023AL-HT	EFXE-314023AL-HT	36,7	73,5	110,3	128,7	165,5	183,9	202,3	294,2
AR-316011AL-HT	EFXE-316011AL-HT	32,0	64,0	96,0	112,0	144,1	160,1	176,1	256,2
AR-316018AL-HT	EFXE-316018AL-HT	41,3	82,7	124,1	144,8	186,2	206,9	227,6	331,0
AQ-606020AL-HT	EFXE-606020AL-HT	64,5	129,1	193,7	226,0	290,5	322,8	355,1	516,6

Enclosure types (aluminium)		Maximum power dissipation (W) – Tamb. up to **55**°C							
		INTERNAL TEMP.65°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)	INTERNAL TEMP.130°C (T4/T135°C)
AQ-080806AL-HT	EFXE-080806AL-HT	2,6	3,9	6,5	7,8	10,4	11,7	13,0	19,5
AR-081306AL-HT	EFXE-081306AL-HT	3,5	5,3	8,8	10,6	14,1	15,9	17,7	26,5
AR-081806AL-HT	EFXE-081806AL-HT	4,4	6,6	11,1	13,3	17,8	20,0	22,2	33,4
AR-082505AL-HT	EFXE-082505AL-HT	5,4	8,2	13,7	16,4	21,9	24,7	27,4	41,1
AQ-101008AL-HT	EFXE-101008AL-HT	4,3	6,5	10,8	13,0	17,4	19,6	21,7	32,6
AR-101608AL-HT	EFXE-101608AL-HT	5,7	8,6	14,4	17,3	23,1	26,0	28,9	43,3
AR-102008AL-HT	EFXE-102008AL-HT	6,7	10,0	16,7	20,1	26,8	30,2	33,5	50,3
AQ-121208AL-HT	EFXE-121208AL-HT	5,4	8,1	13,5	16,2	21,6	24,3	27,0	40,5
AQ-121209AL-HT	EFXE-121209AL-HT	5,8	8,7	14,6	17,5	23,3	26,2	29,2	43,8
AR-122208AL-HT	EFXE-122208AL-HT	7,8	11,7	19,6	23,5	31,3	35,3	39,2	58,8
AR-122209AL-HT	EFXE-122209AL-HT	8,4	12,6	21,0	25,3	33,7	37,9	42,1	63,2
AR-123608AL-HT	EFXE-123608AL-HT	11,1	16,7	27,9	33,5	44,7	50,3	55,9	83,9
AQ-141409AL-HT	EFXE-141409AL-HT	6,8	10,3	17,2	20,6	27,5	31,0	34,4	51,7
AR-142009AL-HT	EFXE-142009AL-HT	8,5	12,8	21,4	25,7	34,2	38,5	42,8	64,3
AQ-161609AL-HT	EFXE-161609AL-HT	8,0	12,0	20,1	24,1	32,2	36,2	40,2	60,4
AR-162609AL-HT	EFXE-162609AL-HT	10,9	16,4	27,4	32,8	43,8	49,3	54,8	82,2
AR-163609AL-HT	EFXE-163609AL-HT	13,7	20,6	34,4	41,3	55,1	62,0	68,9	103,3
AR-165609AL-HT	EFXE-165609AL-HT	19,2	28,8	48,1	57,7	76,9	86,6	96,2	144,3
AQ-181810AL-HT	EFXE-181810AL-HT	9,8	14,8	24,6	29,6	39,5	44,4	49,3	74,0
AR-182810AL-HT	EFXE-182810AL-HT	13,0	19,5	32,6	39,1	52,2	58,7	65,2	97,9
AR-102311AL-HT	EFXE-102311AL-HT	9,1	13,6	22,8	27,3	36,5	41,0	45,6	68,4
AR-202311AL-HT	EFXE-202311AL-HT	13,0	19,5	32,6	39,1	52,2	58,7	65,2	97,9
AR-202318AL-HT	EFXE-202318AL-HT	17,9	26,9	44,9	53,9	71,8	80,8	89,8	134,7
AR-232811AL-HT	EFXE-232811AL-HT	15,8	23,7	39,6	47,5	63,3	71,3	79,2	118,8
AR-233311AL-HT	EFXE-233311AL-HT	17,6	26,4	44,1	52,9	70,6	79,4	88,2	132,3
AR-233318AL-HT	EFXE-233318AL-HT	23,7	35,6	59,4	71,3	95,1	107,0	118,9	178,4
AR-234011AL-HT	EFXE-234011AL-HT	20,1	30,2	50,3	60,4	80,5	90,6	100,7	151,0
AR-234023AL-HT	EFXE-234023AL-HT	31,1	46,6	77,8	93,3	124,5	140,0	155,6	233,4
AR-236011AL-HT	EFXE-236011AL-HT	27,0	40,6	67,7	81,2	108,3	121,9	135,4	203,1
AR-314011AL-HT	EFXE-314011AL-HT	24,3	36,4	60,7	72,9	97,2	109,3	121,5	182,3
AR-314014AL-HT	EFXE-314014AL-HT	27,4	41,2	68,7	82,4	109,9	123,7	137,4	206,2
AR-314018AL-HT	EFXE-314018AL-HT	31,9	47,8	79,7	95,7	127,6	143,5	159,5	239,2
AR-314023AL-HT	EFXE-314023AL-HT	36,7	55,1	91,9	110,3	147,1	165,5	183,9	275,8
AR-316011AL-HT	EFXE-316011AL-HT	32,0	48,0	80,0	96,0	128,1	144,1	160,1	240,1
AR-316018AL-HT	EFXE-316018AL-HT	41,3	62,0	103,4	124,1	165,5	186,2	206,9	310,3
AQ-606020AL-HT	EFXE-606020AL-HT	64,5	96,8	161,4	193,7	258,3	290,5	322,8	484,3

Enclosure types (aluminium)		Maximum power dissipation (W) – Tamb. up to **60**°C						
		INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)	INTERNAL TEMP.130°C (T4/T135°C)
AQ-080806AL-HT	EFXE-080806AL-HT	2,6	5,2	6,5	9,1	10,4	11,7	18,2
AR-081306AL-HT	EFXE-081306AL-HT	3,5	7,0	8,8	12,3	14,1	15,9	24,7
AR-081806AL-HT	EFXE-081806AL-HT	4,4	8,9	11,1	15,5	17,8	20,0	31,1
AR-082505AL-HT	EFXE-082505AL-HT	5,4	10,9	13,7	19,2	21,9	24,7	38,4
AQ-101008AL-HT	EFXE-101008AL-HT	4,3	8,7	10,8	15,2	17,4	19,6	30,4
AR-101608AL-HT	EFXE-101608AL-HT	5,7	11,5	14,4	20,2	23,1	26,0	40,5
AR-102008AL-HT	EFXE-102008AL-HT	6,7	13,4	16,7	23,5	26,8	30,2	47,0
AQ-121208AL-HT	EFXE-121208AL-HT	5,4	10,8	13,5	18,9	21,6	24,3	37,8
AQ-121209AL-HT	EFXE-121209AL-HT	5,8	11,6	14,6	20,4	23,3	26,2	40,8
AR-122208AL-HT	EFXE-122208AL-HT	7,8	15,6	19,6	27,4	31,3	35,3	54,9
AR-122209AL-HT	EFXE-122209AL-HT	8,4	16,8	21,0	29,5	33,7	37,9	59,0
AR-123608AL-HT	EFXE-123608AL-HT	11,1	22,3	27,9	39,1	44,7	50,3	78,3
AQ-141409AL-HT	EFXE-141409AL-HT	6,8	13,7	17,2	24,1	27,5	31,0	48,2
AR-142009AL-HT	EFXE-142009AL-HT	8,5	17,1	21,4	30,0	34,2	38,5	60,0
AQ-161609AL-HT	EFXE-161609AL-HT	8,0	16,1	20,1	28,1	32,2	36,2	56,3
AR-162609AL-HT	EFXE-162609AL-HT	10,9	21,9	27,4	38,3	43,8	49,3	76,7
AR-163609AL-HT	EFXE-163609AL-HT	13,7	27,5	34,4	48,2	55,1	62,0	96,4
AR-165609AL-HT	EFXE-165609AL-HT	19,2	38,4	48,1	67,3	76,9	86,6	134,7
AQ-181810AL-HT	EFXE-181810AL-HT	9,8	19,7	24,6	34,5	39,5	44,4	69,1
AR-182810AL-HT	EFXE-182810AL-HT	13,0	26,1	32,6	45,7	52,2	58,7	91,4
AR-102311AL-HT	EFXE-102311AL-HT	9,1	18,2	22,8	31,9	36,5	41,0	63,8
AR-202311AL-HT	EFXE-202311AL-HT	13,0	26,1	32,6	45,6	52,2	58,7	91,3
AR-202318AL-HT	EFXE-202318AL-HT	17,9	35,9	44,9	62,8	71,8	80,8	125,7
AR-232811AL-HT	EFXE-232811AL-HT	15,8	31,6	39,6	55,4	63,3	71,3	110,9
AR-233311AL-HT	EFXE-233311AL-HT	17,6	35,3	44,1	61,7	70,6	79,4	123,5
AR-233318AL-HT	EFXE-233318AL-HT	23,7	47,5	59,4	83,2	95,1	107,0	166,5
AR-234011AL-HT	EFXE-234011AL-HT	20,1	40,2	50,3	70,5	80,5	90,6	141,0
AR-234023AL-HT	EFXE-234023AL-HT	31,1	62,2	77,8	108,9	124,5	140,0	217,9
AR-236011AL-HT	EFXE-236011AL-HT	27,0	54,1	67,7	94,8	108,3	121,9	189,6
AR-314011AL-HT	EFXE-314011AL-HT	24,3	48,6	60,7	85,0	97,2	109,3	170,1
AR-314014AL-HT	EFXE-314014AL-HT	27,4	54,9	68,7	96,2	109,9	123,7	192,4
AR-314018AL-HT	EFXE-314018AL-HT	31,9	63,8	79,7	111,6	127,6	143,5	223,3
AR-314023AL-HT	EFXE-314023AL-HT	36,7	73,5	91,9	128,7	147,1	165,5	257,4
AR-316011AL-HT	EFXE-316011AL-HT	32,0	64,0	80,0	112,0	128,1	144,1	224,1
AR-316018AL-HT	EFXE-316018AL-HT	41,3	82,7	103,4	144,8	165,5	186,2	289,6
AQ-606020AL-HT	EFXE-606020AL-HT	64,5	129,1	161,4	226,0	258,3	290,5	452,0

Enclosure types (aluminium)		Maximum power dissipation (W) Tamb. up to **95**°C		
		INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)	INTERNAL TEMP.130°C (T4/T135°C)
AQ-080806AL-HT	EFXE-080806AL-HT	1,3	2,6	9,1
AR-081306AL-HT	EFXE-081306AL-HT	1,7	3,5	12,3
AR-081806AL-HT	EFXE-081806AL-HT	2,2	4,4	15,5
AR-082505AL-HT	EFXE-082505AL-HT	2,7	5,4	19,2
AQ-101008AL-HT	EFXE-101008AL-HT	2,1	4,3	15,2
AR-101608AL-HT	EFXE-101608AL-HT	2,8	5,7	20,2
AR-102008AL-HT	EFXE-102008AL-HT	3,3	6,7	23,5
AQ-121208AL-HT	EFXE-121208AL-HT	2,7	5,4	18,9
AQ-121209AL-HT	EFXE-121209AL-HT	2,9	5,8	20,4
AR-122208AL-HT	EFXE-122208AL-HT	3,9	7,8	27,4
AR-122209AL-HT	EFXE-122209AL-HT	4,2	8,4	29,5
AR-123608AL-HT	EFXE-123608AL-HT	5,5	11,1	39,1
AQ-141409AL-HT	EFXE-141409AL-HT	3,4	6,8	24,1
AR-142009AL-HT	EFXE-142009AL-HT	4,2	8,5	30,0
AQ-161609AL-HT	EFXE-161609AL-HT	4,0	8,0	28,1
AR-162609AL-HT	EFXE-162609AL-HT	5,4	10,9	38,3
AR-163609AL-HT	EFXE-163609AL-HT	6,8	13,7	48,2
AR-165609AL-HT	EFXE-165609AL-HT	9,6	19,2	67,3
AQ-181810AL-HT	EFXE-181810AL-HT	4,9	9,8	34,5
AR-182810AL-HT	EFXE-182810AL-HT	6,5	13,0	45,7
AR-102311AL-HT	EFXE-102311AL-HT	4,5	9,1	31,9
AR-202311AL-HT	EFXE-202311AL-HT	6,5	13,0	45,6
AR-202318AL-HT	EFXE-202318AL-HT	8,9	17,9	62,8
AR-232811AL-HT	EFXE-232811AL-HT	7,9	15,8	55,4
AR-233311AL-HT	EFXE-233311AL-HT	8,8	17,6	61,7
AR-233318AL-HT	EFXE-233318AL-HT	11,8	23,7	83,2
AR-234011AL-HT	EFXE-234011AL-HT	10,0	20,1	70,5
AR-234023AL-HT	EFXE-234023AL-HT	15,5	31,1	108,9
AR-236011AL-HT	EFXE-236011AL-HT	13,5	27,0	94,8
AR-314011AL-HT	EFXE-314011AL-HT	12,1	24,3	85,0
AR-314014AL-HT	EFXE-314014AL-HT	13,7	27,4	96,2
AR-314018AL-HT	EFXE-314018AL-HT	15,9	31,9	111,6
AR-314023AL-HT	EFXE-314023AL-HT	18,3	36,7	128,7
AR-316011AL-HT	EFXE-316011AL-HT	16,0	32,0	112,0
AR-316018AL-HT	EFXE-316018AL-HT	20,6	41,3	144,8
AQ-606020AL-HT	EFXE-606020AL-HT	32,2	64,5	226,0

Power dissipation – Glass fiber reinforced polyester resin enclosures

Enclosure types (polyester)		Maximum power dissipation (W) – Tamb. up to **40**°C						
		INTERNAL TEMP.60°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
AQ-080806P	EFE-080806	3,4	5,2	6,9	7,8	9,5	10,4	11,3
AQ-080808P	EFE-080808	4,5	6,8	9,1	10,2	12,5	13,6	14,7
AR-081106P	EFE-081106	4,2	6,4	8,5	9,6	11,7	12,8	13,8
AR-081606P	EFE-081606	5,7	8,6	11,5	13,0	15,9	17,3	18,8
AR-081906P	EFE-081906	6,4	9,6	12,8	14,4	17,6	19,2	20,8
AQ-121209P	EFE-121209	7,9	11,9	15,9	17,9	21,9	23,9	25,9
AR-122209P	EFE-122209	10,8	16,2	21,6	24,3	29,7	32,4	35,1
AQ-161609P	EFE-161609	10,3	15,5	20,7	23,3	28,5	31,1	33,7
AR-162609P	EFE-162609	13,4	20,1	26,8	30,1	36,8	40,2	43,5
AR-163609P	EFE-163609	16,2	24,3	32,4	36,4	44,5	48,6	52,6
AQ-252612P	EFE-252612	18,8	28,2	37,6	42,3	51,7	56,4	61,1
AQ-252616P	EFE-252616	21,7	32,6	43,5	49,0	59,9	65,3	70,8
AR-254012P	EFE-254012	23,9	35,9	47,9	53,9	65,9	71,8	77,8
AR-254016P	EFE-254016	27,4	41,2	54,9	61,8	75,6	82,4	89,3
AR-256012P	EFE-256012	29,0	43,5	58,0	65,3	79,8	87,1	94,3
AQ-414012P	EFE-414012	29,1	43,6	58,2	65,5	80,0	87,3	94,6
AQ-414016P	EFE-414016	32,9	49,4	65,9	74,1	90,6	98,8	107,0

Enclosure types (polyester)		Maximum power dissipation (W) – Tamb. up to **50**°C						
		INTERNAL TEMP.60°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
AQ-080806P	EFE-080806	1,7	3,4	5,2	6,0	7,8	8,7	9,5
AQ-080808P	EFE-080808	2,2	4,5	6,8	7,9	10,2	11,3	12,5
AR-081106P	EFE-081106	2,1	4,2	6,4	7,4	9,6	10,6	11,7
AR-081606P	EFE-081606	2,8	5,7	8,6	10,1	13,0	14,4	15,9
AR-081906P	EFE-081906	3,2	6,4	9,6	11,2	14,4	16,0	17,6
AQ-121209P	EFE-121209	3,9	7,9	11,9	13,9	17,9	19,9	21,9
AR-122209P	EFE-122209	5,4	10,8	16,2	18,9	24,3	27,0	29,7
AQ-161609P	EFE-161609	5,1	10,3	15,5	18,1	23,3	25,9	28,5
AR-162609P	EFE-162609	6,7	13,4	20,1	23,4	30,1	33,5	36,8
AR-163609P	EFE-163609	8,1	16,2	24,3	28,3	36,4	40,5	44,5
AQ-252612P	EFE-252612	9,4	18,8	28,2	32,9	42,3	47,0	51,7
AQ-252616P	EFE-252616	10,8	21,7	32,6	38,1	49,0	54,4	59,9
AR-254012P	EFE-254012	11,9	23,9	35,9	41,9	53,9	59,9	65,9
AR-254016P	EFE-254016	13,7	27,4	41,2	48,1	61,8	68,7	75,6
AR-256012P	EFE-256012	14,5	29,0	43,5	50,8	65,3	72,6	79,8
AQ-414012P	EFE-414012	14,5	29,1	43,6	50,9	65,5	72,7	80,0
AQ-414016P	EFE-414016	16,4	32,9	49,4	57,6	74,1	82,3	90,6

Enclosure types (polyester)		Maximum power dissipation (W) – Tamb. up to **55**°C						
		INTERNAL TEMP.65°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
AQ-080806P	EFE-080806	1,7	2,6	4,3	5,2	6,9	7,8	8,7
AQ-080808P	EFE-080808	2,2	3,4	5,6	6,8	9,1	10,2	11,3
AR-081106P	EFE-081106	2,1	3,2	5,3	6,4	8,5	9,6	10,6
AR-081606P	EFE-081606	2,8	4,3	7,2	8,6	11,5	13,0	14,4
AR-081906P	EFE-081906	3,2	4,8	8,0	9,6	12,8	14,4	16,0
AQ-121209P	EFE-121209	3,9	5,9	9,9	11,9	15,9	17,9	19,9
AR-122209P	EFE-122209	5,4	8,1	13,5	16,2	21,6	24,3	27,0
AQ-161609P	EFE-161609	5,1	7,7	12,9	15,5	20,7	23,3	25,9
AR-162609P	EFE-162609	6,7	10,0	16,7	20,1	26,8	30,1	33,5
AR-163609P	EFE-163609	8,1	12,1	20,2	24,3	32,4	36,4	40,5
AQ-252612P	EFE-252612	9,4	14,1	23,5	28,2	37,6	42,3	47,0
AQ-252616P	EFE-252616	10,8	16,3	27,2	32,6	43,5	49,0	54,4
AR-254012P	EFE-254012	11,9	17,9	29,9	35,9	47,9	53,9	59,9
AR-254016P	EFE-254016	13,7	20,6	34,3	41,2	54,9	61,8	68,7
AR-256012P	EFE-256012	14,5	21,7	36,3	43,5	58,0	65,3	72,6
AQ-414012P	EFE-414012	14,5	21,8	36,3	43,6	58,2	65,5	72,7
AQ-414016P	EFE-414016	16,4	24,7	41,1	49,4	65,9	74,1	82,3

Enclosure types (polyester)		Maximum power dissipation (W) – Tamb. up to **60**°C					
		INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
AQ-080806P	EFE-080806	1,7	3,4	4,3	6,0	6,9	7,8
AQ-080808P	EFE-080808	2,2	4,5	5,6	7,9	9,1	10,2
AR-081106P	EFE-081106	2,1	4,2	5,3	7,4	8,5	9,6
AR-081606P	EFE-081606	2,8	5,7	7,2	10,1	11,5	13,0
AR-081906P	EFE-081906	3,2	6,4	8,0	11,2	12,8	14,4
AQ-121209P	EFE-121209	3,9	7,9	9,9	13,9	15,9	17,9
AR-122209P	EFE-122209	5,4	10,8	13,5	18,9	21,6	24,3
AQ-161609P	EFE-161609	5,1	10,3	12,9	18,1	20,7	23,3
AR-162609P	EFE-162609	6,7	13,4	16,7	23,4	26,8	30,1
AR-163609P	EFE-163609	8,1	16,2	20,2	28,3	32,4	36,4
AQ-252612P	EFE-252612	9,4	18,8	23,5	32,9	37,6	42,3
AQ-252616P	EFE-252616	10,8	21,7	27,2	38,1	43,5	49,0
AR-254012P	EFE-254012	11,9	23,9	29,9	41,9	47,9	53,9
AR-254016P	EFE-254016	13,7	27,4	34,3	48,1	54,9	61,8
AR-256012P	EFE-256012	14,5	29,0	36,3	50,8	58,0	65,3
AQ-414012P	EFE-414012	14,5	29,1	36,3	50,9	58,2	65,5
AQ-414016P	EFE-414016	16,4	32,9	41,1	57,6	65,9	74,1

Enclosure types (polyester)		Maximum power dissipation (W) – Tamb. up to **95**°C	
		INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
AQ-080806P	EFE-080806	0,8	1,7
AQ-080808P	EFE-080808	1,1	2,2
AR-081106P	EFE-081106	1,0	2,1
AR-081606P	EFE-081606	1,4	2,8
AR-081906P	EFE-081906	1,6	3,2
AQ-121209P	EFE-121209	1,9	3,9
AR-122209P	EFE-122209	2,7	5,4
AQ-161609P	EFE-161609	2,5	5,1
AR-162609P	EFE-162609	3,3	6,7
AR-163609P	EFE-163609	4,0	8,1
AQ-252612P	EFE-252612	4,7	9,4
AQ-252616P	EFE-252616	5,4	10,8
AR-254012P	EFE-254012	5,9	11,9
AR-254016P	EFE-254016	6,8	13,7
AR-256012P	EFE-256012	7,2	14,5
AQ-414012P	EFE-414012	7,2	14,5
AQ-414016P	EFE-414016	8,2	16,4

Power dissipation – Aluminium alloy enclosures

Enclosure types (aluminium)		Maximum power dissipation (W) – Tamb. up to **40**°C						
		INTERNAL TEMP.60°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
AQ-080806AL	EFXE-080806AL	5,2	7,8	10,4	11,7	14,3	15,6	16,9
AR-081306AL	EFXE-081306AL	7,0	10,6	14,1	15,9	19,4	21,2	23,0
AR-081806AL	EFXE-081806AL	8,9	13,3	17,8	20,0	24,5	26,7	28,9
AR-081808AL	EFXE-081808AL	11,0	16,5	22,1	24,8	30,4	33,1	35,9
AR-082505AL	EFXE-082505AL	10,7	16,1	21,4	24,1	29,5	32,2	34,8
AR-082508AL	EFXE-082508AL	14,2	21,4	28,5	32,1	39,2	42,8	46,4
AQ-101008AL	EFXE-101008AL	8,7	13,0	17,4	19,6	23,9	26,1	28,3
AR-101508AL	EFXE-101508AL	11,1	16,6	22,2	24,9	30,5	33,3	36,0
AR-101608AL	EFXE-101608AL	11,5	17,3	23,1	26,0	31,8	34,7	37,6
AR-102008AL	EFXE-102008AL	13,4	20,1	26,8	30,2	36,9	40,3	43,6
AQ-121208AL	EFXE-121208AL	10,8	16,2	21,6	24,3	29,7	32,4	35,1
AR-122209AL	EFXE-122209AL	16,8	25,3	33,7	37,9	46,3	50,6	54,8
AQ-141409AL	EFXE-141409AL	13,7	20,6	27,5	31,0	37,9	41,3	44,8
AR-142009AL	EFXE-142009AL	17,1	25,7	34,2	38,5	47,1	51,4	55,7
AQ-161609AL	EFXE-161609AL	17,2	25,8	34,4	38,7	47,3	51,6	55,9
AR-162410AL	EFXE-162410AL	22,1	33,1	44,2	49,7	60,8	66,3	71,8
AR-162609AL	EFXE-162609AL	21,9	32,8	43,8	49,3	60,2	65,7	71,2
AQ-181810AL	EFXE-181810AL	19,7	29,6	39,5	44,4	54,3	59,2	64,2
AR-182810AL	EFXE-182810AL	26,1	39,1	52,2	58,7	71,8	78,3	84,8
AR-202311AL	EFXE-202311AL	25,8	38,7	51,6	58,0	71,0	77,4	83,9
AR-202318AL	EFXE-202318AL	35,5	53,3	71,1	80,0	97,8	106,7	115,6
AR-232811AL	EFXE-232811AL	31,6	47,5	63,3	71,3	87,1	95,0	103,0
AR-233312AL	EFXE-233312AL	37,0	55,6	74,1	83,4	101,9	111,2	120,5
AR-233318AL	EFXE-233318AL	47,5	71,3	95,1	107,0	130,8	142,7	154,6

Enclosure types (aluminium)		Maximum power dissipation (W) – Tamb. up to **50**°C						
		INTERNAL TEMP.60°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
AQ-080806AL	EFXE-080806AL	2,6	5,2	7,8	9,1	11,7	13,0	14,3
AR-081306AL	EFXE-081306AL	3,5	7,0	10,6	12,3	15,9	17,7	19,4
AR-081806AL	EFXE-081806AL	4,4	8,9	13,3	15,5	20,0	22,2	24,5
AR-081808AL	EFXE-081808AL	5,5	11,0	16,5	19,3	24,8	27,6	30,4
AR-082505AL	EFXE-082505AL	5,3	10,7	16,1	18,7	24,1	26,8	29,5
AR-082508AL	EFXE-082508AL	7,1	14,2	21,4	24,9	32,1	35,7	39,2
AQ-101008AL	EFXE-101008AL	4,3	8,7	13,0	15,2	19,6	21,7	23,9
AR-101508AL	EFXE-101508AL	5,5	11,1	16,6	19,4	24,9	27,7	30,5
AR-101608AL	EFXE-101608AL	5,7	11,5	17,3	20,2	26,0	28,9	31,8
AR-102008AL	EFXE-102008AL	6,7	13,4	20,1	23,5	30,2	33,5	36,9
AQ-121208AL	EFXE-121208AL	5,4	10,8	16,2	18,9	24,3	27,0	29,7
AR-122209AL	EFXE-122209AL	8,4	16,8	25,3	29,5	37,9	42,1	46,3
AQ-141409AL	EFXE-141409AL	6,8	13,7	20,6	24,1	31,0	34,4	37,9
AR-142009AL	EFXE-142009AL	8,5	17,1	25,7	30,0	38,5	42,8	47,1
AQ-161609AL	EFXE-161609AL	8,6	17,2	25,8	30,1	38,7	43,0	47,3
AR-162410AL	EFXE-162410AL	11,0	22,1	33,1	38,7	49,7	55,3	60,8
AR-162609AL	EFXE-162609AL	10,9	21,9	32,8	38,3	49,3	54,8	60,2
AQ-181810AL	EFXE-181810AL	9,8	19,7	29,6	34,5	44,4	49,3	54,3
AR-182810AL	EFXE-182810AL	13,0	26,1	39,1	45,7	58,7	65,2	71,8
AR-202311AL	EFXE-202311AL	12,9	25,8	38,7	45,1	58,0	64,5	71,0
AR-202318AL	EFXE-202318AL	17,7	35,5	53,3	62,2	80,0	88,9	97,8
AR-232811AL	EFXE-232811AL	15,8	31,6	47,5	55,4	71,3	79,2	87,1
AR-233312AL	EFXE-233312AL	18,5	37,0	55,6	64,8	83,4	92,7	101,9
AR-233318AL	EFXE-233318AL	23,7	47,5	71,3	83,2	107,0	118,9	130,8

Enclosure types (aluminium)		Maximum power dissipation (W) – Tamb. up to **55**°C						
		INTERNAL TEMP.65°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
AQ-080806AL	EFXE-080806AL	2,6	3,9	6,5	7,8	10,4	11,7	13,0
AR-081306AL	EFXE-081306AL	3,5	5,3	8,8	10,6	14,1	15,9	17,7
AR-081806AL	EFXE-081806AL	4,4	6,6	11,1	13,3	17,8	20,0	22,2
AR-081808AL	EFXE-081808AL	5,5	8,2	13,8	16,5	22,1	24,8	27,6
AR-082505AL	EFXE-082505AL	5,3	8,0	13,4	16,1	21,4	24,1	26,8
AR-082508AL	EFXE-082508AL	7,1	10,7	17,8	21,4	28,5	32,1	35,7
AQ-101008AL	EFXE-101008AL	4,3	6,5	10,8	13,0	17,4	19,6	21,7
AR-101508AL	EFXE-101508AL	5,5	8,3	13,8	16,6	22,2	24,9	27,7
AR-101608AL	EFXE-101608AL	5,7	8,6	14,4	17,3	23,1	26,0	28,9
AR-102008AL	EFXE-102008AL	6,7	10,0	16,7	20,1	26,8	30,2	33,5
AQ-121208AL	EFXE-121208AL	5,4	8,1	13,5	16,2	21,6	24,3	27,0
AR-122209AL	EFXE-122209AL	8,4	12,6	21,0	25,3	33,7	37,9	42,1
AQ-141409AL	EFXE-141409AL	6,8	10,3	17,2	20,6	27,5	31,0	34,4
AR-142009AL	EFXE-142009AL	8,5	12,8	21,4	25,7	34,2	38,5	42,8
AQ-161609AL	EFXE-161609AL	8,6	12,9	21,5	25,8	34,4	38,7	43,0
AR-162410AL	EFXE-162410AL	11,0	16,5	27,6	33,1	44,2	49,7	55,3
AR-162609AL	EFXE-162609AL	10,9	16,4	27,4	32,8	43,8	49,3	54,8
AQ-181810AL	EFXE-181810AL	9,8	14,8	24,6	29,6	39,5	44,4	49,3
AR-182810AL	EFXE-182810AL	13,0	19,5	32,6	39,1	52,2	58,7	65,2
AR-202311AL	EFXE-202311AL	12,9	19,3	32,2	38,7	51,6	58,0	64,5
AR-202318AL	EFXE-202318AL	17,7	26,6	44,4	53,3	71,1	80,0	88,9
AR-232811AL	EFXE-232811AL	15,8	23,7	39,6	47,5	63,3	71,3	79,2
AR-233312AL	EFXE-233312AL	18,5	27,8	46,3	55,6	74,1	83,4	92,7
AR-233318AL	EFXE-233318AL	23,7	35,6	59,4	71,3	95,1	107,0	118,9

Enclosure types (aluminium)		Maximum power dissipation (W) – Tamb. up to **60**°C					
		INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
AQ-080806AL	EFXE-080806AL	2,6	5,2	6,5	9,1	10,4	11,7
AR-081306AL	EFXE-081306AL	3,5	7,0	8,8	12,3	14,1	15,9
AR-081806AL	EFXE-081806AL	4,4	8,9	11,1	15,5	17,8	20,0
AR-081808AL	EFXE-081808AL	5,5	11,0	13,8	19,3	22,1	24,8
AR-082505AL	EFXE-082505AL	5,3	10,7	13,4	18,7	21,4	24,1
AR-082508AL	EFXE-082508AL	7,1	14,2	17,8	24,9	28,5	32,1
AQ-101008AL	EFXE-101008AL	4,3	8,7	10,8	15,2	17,4	19,6
AR-101508AL	EFXE-101508AL	5,5	11,1	13,8	19,4	22,2	24,9
AR-101608AL	EFXE-101608AL	5,7	11,5	14,4	20,2	23,1	26,0
AR-102008AL	EFXE-102008AL	6,7	13,4	16,7	23,5	26,8	30,2
AQ-121208AL	EFXE-121208AL	5,4	10,8	13,5	18,9	21,6	24,3
AR-122209AL	EFXE-122209AL	8,4	16,8	21,0	29,5	33,7	37,9
AQ-141409AL	EFXE-141409AL	6,8	13,7	17,2	24,1	27,5	31,0
AR-142009AL	EFXE-142009AL	8,5	17,1	21,4	30,0	34,2	38,5
AQ-161609AL	EFXE-161609AL	8,6	17,2	21,5	30,1	34,4	38,7
AR-162410AL	EFXE-162410AL	11,0	22,1	27,6	38,7	44,2	49,7
AR-162609AL	EFXE-162609AL	10,9	21,9	27,4	38,3	43,8	49,3
AQ-181810AL	EFXE-181810AL	9,8	19,7	24,6	34,5	39,5	44,4
AR-182810AL	EFXE-182810AL	13,0	26,1	32,6	45,7	52,2	58,7
AR-202311AL	EFXE-202311AL	12,9	25,8	32,2	45,1	51,6	58,0
AR-202318AL	EFXE-202318AL	17,7	35,5	44,4	62,2	71,1	80,0
AR-232811AL	EFXE-232811AL	15,8	31,6	39,6	55,4	63,3	71,3
AR-233312AL	EFXE-233312AL	18,5	37,0	46,3	64,8	74,1	83,4
AR-233318AL	EFXE-233318AL	23,7	47,5	59,4	83,2	95,1	107,0

Enclosure types (aluminium)		Maximum power dissipation (W) – Tamb. up to **95**°C	
		INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
AQ-080806AL	EFXE-080806AL	1,3	2,6
AR-081306AL	EFXE-081306AL	1,7	3,5
AR-081806AL	EFXE-081806AL	2,2	4,4
AR-081808AL	EFXE-081808AL	2,7	5,5
AR-082505AL	EFXE-082505AL	2,6	5,3
AR-082508AL	EFXE-082508AL	3,5	7,1
AQ-101008AL	EFXE-101008AL	2,1	4,3
AR-101508AL	EFXE-101508AL	2,7	5,5
AR-101608AL	EFXE-101608AL	2,8	5,7
AR-102008AL	EFXE-102008AL	3,3	6,7
AQ-121208AL	EFXE-121208AL	2,7	5,4
AR-122209AL	EFXE-122209AL	4,2	8,4
AQ-141409AL	EFXE-141409AL	3,4	6,8
AR-142009AL	EFXE-142009AL	4,2	8,5
AQ-161609AL	EFXE-161609AL	4,3	8,6
AR-162410AL	EFXE-162410AL	5,5	11,0
AR-162609AL	EFXE-162609AL	5,4	10,9
AQ-181810AL	EFXE-181810AL	4,9	9,8
AR-182810AL	EFXE-182810AL	6,5	13,0
AR-202311AL	EFXE-202311AL	6,4	12,9
AR-202318AL	EFXE-202318AL	8,8	17,7
AR-232811AL	EFXE-232811AL	7,9	15,8
AR-233312AL	EFXE-233312AL	9,2	18,5
AR-233318AL	EFXE-233318AL	11,8	23,7

Power dissipation – Stainless steel enclosures SB series

Enclosure types (stainless steel)		Maximum power dissipation (W) – Tamb. up to **40**°C						
		INTERNAL TEMP.60°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
SB-101210	EFXE-101210SB	5,5	8,3	11,1	12,5	15,3	16,7	18,1
SB-151510	EFXE-151510SB	8,0	12,0	16,0	18,0	22,0	24,0	26,1
SB-142013	EFXE-142013SB	10,4	15,7	20,9	23,5	28,8	31,4	34,0
SB-202010	EFXE-202010SB	10,7	16,1	21,4	24,1	29,5	32,2	34,8
SB-202016	EFXE-202016SB	13,9	20,8	27,8	31,3	38,3	41,7	45,2
SB-202713	EFXE-202713SB	14,4	21,6	28,9	32,5	39,7	43,3	46,9
SB-272713	EFXE-272713SB	16,7	25,1	33,5	37,7	46,0	50,2	54,4
SB-203016	EFXE-203016SB	17,1	25,7	34,3	38,6	47,2	51,4	55,7
SB-273513	EFXE-273513SB	19,2	28,9	38,5	43,3	53,0	57,8	62,6
SB-282816	EFXE-282816SB	19,3	29,0	38,7	43,6	53,3	58,1	63,0
SB-204016	EFXE-204016SB	20,2	30,3	40,4	45,5	55,6	60,6	65,7
SB-353516	EFXE-353516SB	24,4	36,6	48,8	54,9	67,1	73,2	79,3
SB-282827	EFXE-282827SB	26,2	39,3	52,5	59,0	72,2	78,7	85,3
SB-355016	EFXE-355016SB	29,7	44,5	59,4	66,8	81,7	89,1	96,6
SB-383816	EFXE-383816SB	26,6	39,9	53,2	59,8	73,1	79,8	86,5
SB-384516	EFXE-384516SB	29,1	43,7	58,3	65,6	80,2	87,5	94,8
SB-385716	EFXE-385716SB	33,4	50,1	66,8	75,2	91,9	100,3	108,7
SB-505016	EFXE-505016SB	35,8	53,8	71,7	80,7	98,6	107,6	116,6
SB-383827	EFXE-383827SB	35,1	52,7	70,2	79,0	96,6	105,4	114,2
SB-575716	EFXE-575716SB	41,5	62,3	83,1	93,5	114,3	124,7	135,1
SB-577620	EFXE-577620SB	53,9	80,9	107,9	121,3	148,3	161,8	175,3
SB-575730	EFXE-575730SB	55,8	83,7	111,6	125,6	153,5	167,5	181,4
SB-769520	EFXE-769520SB	72,2	108,3	144,4	162,4	198,5	216,6	234,6
SB-1258040	EFXE-1258040SB	72,2	108,3	144,4	162,4	198,5	216,6	234,6

Enclosure types (Stainless steel)		Maximum power dissipation (W) – Tamb. up to **50**°C						
		INTERNAL TEMP.60°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
SB-101210	EFXE-101210SB	2,7	5,5	8,3	9,7	12,5	13,9	15,3
SB-151510	EFXE-151510SB	4,0	8,0	12,0	14,0	18,0	20,0	22,0
SB-142013	EFXE-142013SB	5,2	10,4	15,7	18,3	23,5	26,2	28,8
SB-202010	EFXE-202010SB	5,3	10,7	16,1	18,7	24,1	26,8	29,5
SB-202016	EFXE-202016SB	6,9	13,9	20,8	24,3	31,3	34,8	38,3
SB-202713	EFXE-202713SB	7,2	14,4	21,6	25,2	32,5	36,1	39,7
SB-272713	EFXE-272713SB	8,3	16,7	25,1	29,3	37,7	41,8	46,0
SB-203016	EFXE-203016SB	8,5	17,1	25,7	30,0	38,6	42,9	47,2
SB-273513	EFXE-273513SB	9,6	19,2	28,9	33,7	43,3	48,2	53,0
SB-282816	EFXE-282816SB	9,6	19,3	29,0	33,9	43,6	48,4	53,3
SB-204016	EFXE-204016SB	10,1	20,2	30,3	35,4	45,5	50,5	55,6
SB-353516	EFXE-353516SB	12,2	24,4	36,6	42,7	54,9	61,0	67,1
SB-282827	EFXE-282827SB	13,1	26,2	39,3	45,9	59,0	65,6	72,2
SB-355016	EFXE-355016SB	14,8	29,7	44,5	52,0	66,8	74,3	81,7
SB-383816	EFXE-383816SB	13,3	26,6	39,9	46,5	59,8	66,5	73,1
SB-384516	EFXE-384516SB	14,5	29,1	43,7	51,0	65,6	72,9	80,2
SB-385716	EFXE-385716SB	16,7	33,4	50,1	58,5	75,2	83,6	91,9
SB-505016	EFXE-505016SB	17,9	35,8	53,8	62,7	80,7	89,7	98,6
SB-383827	EFXE-383827SB	17,5	35,1	52,7	61,4	79,0	87,8	96,6
SB-575716	EFXE-575716SB	20,7	41,5	62,3	72,7	93,5	103,9	114,3
SB-577620	EFXE-577620SB	26,9	53,9	80,9	94,4	121,3	134,8	148,3
SB-575730	EFXE-575730SB	27,9	55,8	83,7	97,7	125,6	139,5	153,5
SB-769520	EFXE-769520SB	36,1	72,2	108,3	126,3	162,4	180,5	198,5
SB-1258040	EFXE-1258040SB	36,1	72,2	108,3	126,3	162,4	180,5	198,5

Enclosure types (Stainless steel)		Maximum power dissipation (W) – Tamb. up to **55**°C						
		INTERNAL TEMP.65°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
SB-101210	EFXE-101210SB	2,7	4,1	6,9	8,3	11,1	12,5	13,9
SB-151510	EFXE-151510SB	4,0	6,0	10,0	12,0	16,0	18,0	20,0
SB-142013	EFXE-142013SB	5,2	7,8	13,1	15,7	20,9	23,5	26,2
SB-202010	EFXE-202010SB	5,3	8,0	13,4	16,1	21,4	24,1	26,8
SB-202016	EFXE-202016SB	6,9	10,4	17,4	20,8	27,8	31,3	34,8
SB-202713	EFXE-202713SB	7,2	10,8	18,0	21,6	28,9	32,5	36,1
SB-272713	EFXE-272713SB	8,3	12,5	20,9	25,1	33,5	37,7	41,8
SB-203016	EFXE-203016SB	8,5	12,8	21,4	25,7	34,3	38,6	42,9
SB-273513	EFXE-273513SB	9,6	14,4	24,1	28,9	38,5	43,3	48,2
SB-282816	EFXE-282816SB	9,6	14,5	24,2	29,0	38,7	43,6	48,4
SB-204016	EFXE-204016SB	10,1	15,1	25,2	30,3	40,4	45,5	50,5
SB-353516	EFXE-353516SB	12,2	18,3	30,5	36,6	48,8	54,9	61,0
SB-282827	EFXE-282827SB	13,1	19,6	32,8	39,3	52,5	59,0	65,6
SB-355016	EFXE-355016SB	14,8	22,2	37,1	44,5	59,4	66,8	74,3
SB-383816	EFXE-383816SB	13,3	19,9	33,2	39,9	53,2	59,8	66,5
SB-384516	EFXE-384516SB	14,5	21,8	36,4	43,7	58,3	65,6	72,9
SB-385716	EFXE-385716SB	16,7	25,0	41,8	50,1	66,8	75,2	83,6
SB-505016	EFXE-505016SB	17,9	26,9	44,8	53,8	71,7	80,7	89,7
SB-383827	EFXE-383827SB	17,5	26,3	43,9	52,7	70,2	79,0	87,8
SB-575716	EFXE-575716SB	20,7	31,1	51,9	62,3	83,1	93,5	103,9
SB-577620	EFXE-577620SB	26,9	40,4	67,4	80,9	107,9	121,3	134,8
SB-575730	EFXE-575730SB	27,9	41,8	69,7	83,7	111,6	125,6	139,5
SB-769520	EFXE-769520SB	36,1	54,1	90,2	108,3	144,4	162,4	180,5
SB-1258040	EFXE-1258040SB	36,1	54,1	90,2	108,3	144,4	162,4	180,5

Enclosure types (Stainless steel)		Maximum power dissipation (W) – Tamb. up to **60**°C					
		INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
SB-101210	EFXE-101210SB	2,7	5,5	6,9	9,7	11,1	12,5
SB-151510	EFXE-151510SB	4,0	8,0	10,0	14,0	16,0	18,0
SB-142013	EFXE-142013SB	5,2	10,4	13,1	18,3	20,9	23,5
SB-202010	EFXE-202010SB	5,3	10,7	13,4	18,7	21,4	24,1
SB-202016	EFXE-202016SB	6,9	13,9	17,4	24,3	27,8	31,3
SB-202713	EFXE-202713SB	7,2	14,4	18,0	25,2	28,9	32,5
SB-272713	EFXE-272713SB	8,3	16,7	20,9	29,3	33,5	37,7
SB-203016	EFXE-203016SB	8,5	17,1	21,4	30,0	34,3	38,6
SB-273513	EFXE-273513SB	9,6	19,2	24,1	33,7	38,5	43,3
SB-282816	EFXE-282816SB	9,6	19,3	24,2	33,9	38,7	43,6
SB-204016	EFXE-204016SB	10,1	20,2	25,2	35,4	40,4	45,5
SB-353516	EFXE-353516SB	12,2	24,4	30,5	42,7	48,8	54,9
SB-282827	EFXE-282827SB	13,1	26,2	32,8	45,9	52,5	59,0
SB-355016	EFXE-355016SB	14,8	29,7	37,1	52,0	59,4	66,8
SB-383816	EFXE-383816SB	13,3	26,6	33,2	46,5	53,2	59,8
SB-384516	EFXE-384516SB	14,5	29,1	36,4	51,0	58,3	65,6
SB-385716	EFXE-385716SB	16,7	33,4	41,8	58,5	66,8	75,2
SB-505016	EFXE-505016SB	17,9	35,8	44,8	62,7	71,7	80,7
SB-383827	EFXE-383827SB	17,5	35,1	43,9	61,4	70,2	79,0
SB-575716	EFXE-575716SB	20,7	41,5	51,9	72,7	83,1	93,5
SB-577620	EFXE-577620SB	26,9	53,9	67,4	94,4	107,9	121,3
SB-575730	EFXE-575730SB	27,9	55,8	69,7	97,7	111,6	125,6
SB-769520	EFXE-769520SB	36,1	72,2	90,2	126,3	144,4	162,4
SB-1258040	EFXE-1258040SB	36,1	72,2	90,2	126,3	144,4	162,4

Enclosure types (Stainless steel)		Maximum power dissipation (W) – Tamb. up to **95**°C	
		INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
SB-101210	EFXE-101210SB	1,3	2,7
SB-151510	EFXE-151510SB	2,0	4,0
SB-142013	EFXE-142013SB	2,6	5,2
SB-202010	EFXE-202010SB	2,6	5,3
SB-202016	EFXE-202016SB	3,4	6,9
SB-202713	EFXE-202713SB	3,6	7,2
SB-272713	EFXE-272713SB	4,1	8,3
SB-203016	EFXE-203016SB	4,2	8,5
SB-273513	EFXE-273513SB	4,8	9,6
SB-282816	EFXE-282816SB	4,8	9,6
SB-204016	EFXE-204016SB	5,0	10,1
SB-353516	EFXE-353516SB	6,1	12,2
SB-282827	EFXE-282827SB	6,5	13,1
SB-355016	EFXE-355016SB	7,4	14,8
SB-383816	EFXE-383816SB	6,6	13,3
SB-384516	EFXE-384516SB	7,2	14,5
SB-385716	EFXE-385716SB	8,3	16,7
SB-505016	EFXE-505016SB	8,9	17,9
SB-383827	EFXE-383827SB	8,7	17,5
SB-575716	EFXE-575716SB	10,3	20,7
SB-577620	EFXE-577620SB	13,4	26,9
SB-575730	EFXE-575730SB	13,9	27,9
SB-769520	EFXE-769520SB	18,0	36,1
SB-1258040	EFXE-1258040SB	18,0	36,1

Power dissipation – Stainless steel enclosures ST series

Enclosure types (Stainless steel)		Maximum power dissipation (W) – Tamb. up to **40**°C						
		INTERNAL TEMP.60°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
ST-101210	EFXE-101210ST	5,5	8,3	11,1	12,5	15,3	16,7	18,1
ST-151510	EFXE-151510ST	8,0	12,0	16,0	18,0	22,0	24,0	26,1
ST-142013	EFXE-142013ST	10,4	15,7	20,9	23,5	28,8	31,4	34,0
ST-202010	EFXE-202010ST	10,7	16,1	21,4	24,1	29,5	32,2	34,8
ST-202016	EFXE-202016ST	13,9	20,8	27,8	31,3	38,3	41,7	45,2
ST-202713	EFXE-202713ST	14,4	21,6	28,9	32,5	39,7	43,3	46,9
ST-272713	EFXE-272713ST	16,7	25,1	33,5	37,7	46,0	50,2	54,4
ST-203016	EFXE-203016ST	17,1	25,7	34,3	38,6	47,2	51,4	55,7
ST-273513	EFXE-273513ST	19,2	28,9	38,5	43,3	53,0	57,8	62,6
ST-282816	EFXE-282816ST	19,3	29,0	38,7	43,6	53,3	58,1	63,0
ST-204016	EFXE-204016ST	20,2	30,3	40,4	45,5	55,6	60,6	65,7
ST-353516	EFXE-353516ST	24,4	36,6	48,8	54,9	67,1	73,2	79,3
ST-282827	EFXE-282827ST	26,2	39,3	52,5	59,0	72,2	78,7	85,3
ST-355016	EFXE-355016ST	29,7	44,5	59,4	66,8	81,7	89,1	96,6
ST-383816	EFXE-383816ST	26,6	39,9	53,2	59,8	73,1	79,8	86,5
ST-384516	EFXE-384516ST	29,1	43,7	58,3	65,6	80,2	87,5	94,8
ST-385716	EFXE-385716ST	33,4	50,1	66,8	75,2	91,9	100,3	108,7
ST-505016	EFXE-505016ST	35,8	53,8	71,7	80,7	98,6	107,6	116,6
ST-383827	EFXE-383827ST	35,1	52,7	70,2	79,0	96,6	105,4	114,2
ST-575716	EFXE-575716ST	41,5	62,3	83,1	93,5	114,3	124,7	135,1
ST-577620	EFXE-577620ST	53,9	80,9	107,9	121,3	148,3	161,8	175,3
ST-575730	EFXE-575730ST	55,8	83,7	111,6	125,6	153,5	167,5	181,4
ST-769520	EFXE-769520ST	72,2	108,3	144,4	162,4	198,5	216,6	234,6
ST-1258040	EFXE-1258040ST	72,2	108,3	144,4	162,4	198,5	216,6	234,6

Enclosure types (Stainless steel)		Maximum power dissipation (W) – Tamb. up to **50**°C						
		INTERNAL TEMP.60°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
ST-101210	EFXE-101210ST	2,7	5,5	8,3	9,7	12,5	13,9	15,3
ST-151510	EFXE-151510ST	4,0	8,0	12,0	14,0	18,0	20,0	22,0
ST-142013	EFXE-142013ST	5,2	10,4	15,7	18,3	23,5	26,2	28,8
ST-202010	EFXE-202010ST	5,3	10,7	16,1	18,7	24,1	26,8	29,5
ST-202016	EFXE-202016ST	6,9	13,9	20,8	24,3	31,3	34,8	38,3
ST-202713	EFXE-202713ST	7,2	14,4	21,6	25,2	32,5	36,1	39,7
ST-272713	EFXE-272713ST	8,3	16,7	25,1	29,3	37,7	41,8	46,0
ST-203016	EFXE-203016ST	8,5	17,1	25,7	30,0	38,6	42,9	47,2
ST-273513	EFXE-273513ST	9,6	19,2	28,9	33,7	43,3	48,2	53,0
ST-282816	EFXE-282816ST	9,6	19,3	29,0	33,9	43,6	48,4	53,3
ST-204016	EFXE-204016ST	10,1	20,2	30,3	35,4	45,5	50,5	55,6
ST-353516	EFXE-353516ST	12,2	24,4	36,6	42,7	54,9	61,0	67,1
ST-282827	EFXE-282827ST	13,1	26,2	39,3	45,9	59,0	65,6	72,2
ST-355016	EFXE-355016ST	14,8	29,7	44,5	52,0	66,8	74,3	81,7
ST-383816	EFXE-383816ST	13,3	26,6	39,9	46,5	59,8	66,5	73,1
ST-384516	EFXE-384516ST	14,5	29,1	43,7	51,0	65,6	72,9	80,2
ST-385716	EFXE-385716ST	16,7	33,4	50,1	58,5	75,2	83,6	91,9
ST-505016	EFXE-505016ST	17,9	35,8	53,8	62,7	80,7	89,7	98,6
ST-383827	EFXE-383827ST	17,5	35,1	52,7	61,4	79,0	87,8	96,6
ST-575716	EFXE-575716ST	20,7	41,5	62,3	72,7	93,5	103,9	114,3
ST-577620	EFXE-577620ST	26,9	53,9	80,9	94,4	121,3	134,8	148,3
ST-575730	EFXE-575730ST	27,9	55,8	83,7	97,7	125,6	139,5	153,5
ST-769520	EFXE-769520ST	36,1	72,2	108,3	126,3	162,4	180,5	198,5
ST-1258040	EFXE-1258040ST	36,1	72,2	108,3	126,3	162,4	180,5	198,5

Enclosure types (Stainless steel)		Maximum power dissipation (W) – Tamb. up to **55**°C						
		INTERNAL TEMP.65°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
ST-101210	EFXE-101210ST	2,7	4,1	6,9	8,3	11,1	12,5	13,9
ST-151510	EFXE-151510ST	4,0	6,0	10,0	12,0	16,0	18,0	20,0
ST-142013	EFXE-142013ST	5,2	7,8	13,1	15,7	20,9	23,5	26,2
ST-202010	EFXE-202010ST	5,3	8,0	13,4	16,1	21,4	24,1	26,8
ST-202016	EFXE-202016ST	6,9	10,4	17,4	20,8	27,8	31,3	34,8
ST-202713	EFXE-202713ST	7,2	10,8	18,0	21,6	28,9	32,5	36,1
ST-272713	EFXE-272713ST	8,3	12,5	20,9	25,1	33,5	37,7	41,8
ST-203016	EFXE-203016ST	8,5	12,8	21,4	25,7	34,3	38,6	42,9
ST-273513	EFXE-273513ST	9,6	14,4	24,1	28,9	38,5	43,3	48,2
ST-282816	EFXE-282816ST	9,6	14,5	24,2	29,0	38,7	43,6	48,4
ST-204016	EFXE-204016ST	10,1	15,1	25,2	30,3	40,4	45,5	50,5
ST-353516	EFXE-353516ST	12,2	18,3	30,5	36,6	48,8	54,9	61,0
ST-282827	EFXE-282827ST	13,1	19,6	32,8	39,3	52,5	59,0	65,6
ST-355016	EFXE-355016ST	14,8	22,2	37,1	44,5	59,4	66,8	74,3
ST-383816	EFXE-383816ST	13,3	19,9	33,2	39,9	53,2	59,8	66,5
ST-384516	EFXE-384516ST	14,5	21,8	36,4	43,7	58,3	65,6	72,9
ST-385716	EFXE-385716ST	16,7	25,0	41,8	50,1	66,8	75,2	83,6
ST-505016	EFXE-505016ST	17,9	26,9	44,8	53,8	71,7	80,7	89,7
ST-383827	EFXE-383827ST	17,5	26,3	43,9	52,7	70,2	79,0	87,8
ST-575716	EFXE-575716ST	20,7	31,1	51,9	62,3	83,1	93,5	103,9
ST-577620	EFXE-577620ST	26,9	40,4	67,4	80,9	107,9	121,3	134,8
ST-575730	EFXE-575730ST	27,9	41,8	69,7	83,7	111,6	125,6	139,5
ST-769520	EFXE-769520ST	36,1	54,1	90,2	108,3	144,4	162,4	180,5
ST-1258040	EFXE-1258040ST	36,1	54,1	90,2	108,3	144,4	162,4	180,5

Enclosure types (Stainless steel)		Maximum power dissipation (W) – Tamb. up to **60**°C					
		INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
ST-101210	EFXE-101210ST	2,7	5,5	6,9	9,7	11,1	12,5
ST-151510	EFXE-151510ST	4,0	8,0	10,0	14,0	16,0	18,0
ST-142013	EFXE-142013ST	5,2	10,4	13,1	18,3	20,9	23,5
ST-202010	EFXE-202010ST	5,3	10,7	13,4	18,7	21,4	24,1
ST-202016	EFXE-202016ST	6,9	13,9	17,4	24,3	27,8	31,3
ST-202713	EFXE-202713ST	7,2	14,4	18,0	25,2	28,9	32,5
ST-272713	EFXE-272713ST	8,3	16,7	20,9	29,3	33,5	37,7
ST-203016	EFXE-203016ST	8,5	17,1	21,4	30,0	34,3	38,6
ST-273513	EFXE-273513ST	9,6	19,2	24,1	33,7	38,5	43,3
ST-282816	EFXE-282816ST	9,6	19,3	24,2	33,9	38,7	43,6
ST-204016	EFXE-204016ST	10,1	20,2	25,2	35,4	40,4	45,5
ST-353516	EFXE-353516ST	12,2	24,4	30,5	42,7	48,8	54,9
ST-282827	EFXE-282827ST	13,1	26,2	32,8	45,9	52,5	59,0
ST-355016	EFXE-355016ST	14,8	29,7	37,1	52,0	59,4	66,8
ST-383816	EFXE-383816ST	13,3	26,6	33,2	46,5	53,2	59,8
ST-384516	EFXE-384516ST	14,5	29,1	36,4	51,0	58,3	65,6
ST-385716	EFXE-385716ST	16,7	33,4	41,8	58,5	66,8	75,2
ST-505016	EFXE-505016ST	17,9	35,8	44,8	62,7	71,7	80,7
ST-383827	EFXE-383827ST	17,5	35,1	43,9	61,4	70,2	79,0
ST-575716	EFXE-575716ST	20,7	41,5	51,9	72,7	83,1	93,5
ST-577620	EFXE-577620ST	26,9	53,9	67,4	94,4	107,9	121,3
ST-575730	EFXE-575730ST	27,9	55,8	69,7	97,7	111,6	125,6
ST-769520	EFXE-769520ST	36,1	72,2	90,2	126,3	144,4	162,4
ST-1258040	EFXE-1258040ST	36,1	72,2	90,2	126,3	144,4	162,4

Enclosure types (Stainless steel)		Maximum power dissipation (W) – Tamb. up to **95**°C	
		INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
ST-101210	EFXE-101210ST	1,3	2,7
ST-151510	EFXE-151510ST	2,0	4,0
ST-142013	EFXE-142013ST	2,6	5,2
ST-202010	EFXE-202010ST	2,6	5,3
ST-202016	EFXE-202016ST	3,4	6,9
ST-202713	EFXE-202713ST	3,6	7,2
ST-272713	EFXE-272713ST	4,1	8,3
ST-203016	EFXE-203016ST	4,2	8,5
ST-273513	EFXE-273513ST	4,8	9,6
ST-282816	EFXE-282816ST	4,8	9,6
ST-204016	EFXE-204016ST	5,0	10,1
ST-353516	EFXE-353516ST	6,1	12,2
ST-282827	EFXE-282827ST	6,5	13,1
ST-355016	EFXE-355016ST	7,4	14,8
ST-383816	EFXE-383816ST	6,6	13,3
ST-384516	EFXE-384516ST	7,2	14,5
ST-385716	EFXE-385716ST	8,3	16,7
ST-505016	EFXE-505016ST	8,9	17,9
ST-383827	EFXE-383827ST	8,7	17,5
ST-575716	EFXE-575716ST	10,3	20,7
ST-577620	EFXE-577620ST	13,4	26,9
ST-575730	EFXE-575730ST	13,9	27,9
ST-769520	EFXE-769520ST	18,0	36,1
ST-1258040	EFXE-1258040ST	18,0	36,1

Maximum Power Dissipation calculation

The values specified in the tables as per clause 2.1.1 may be modified within the maximum admitted Tamb and maximum admitted internal temperature as follows.

$$Pdiss\ (W) = \frac{Tmax - Tamb}{Rth}$$

$Rth = A \times (\text{enclosure surface in } mm^2 \text{ except enclosure bottom})^B$

Legend:
Rth – Thermal resistance [K/W].
Tmax – Maximum allowed temperature inside enclosure.
Tamb – Ambient temperature of enclosure
A and B - coefficients determined for each series of enclosure. Exact values are given in manufacturer's documentation.

Warning labels:

WARNING – DO NOT OPEN WHEN ENERGIZED (*)
(*) Not mandatory for apparatus with protection type Ex ia Ga and Ex ib Gb.

WARNING – POTENTIAL ELECTROSTATIC CHARGING HAZARD – SEE INSTRUCTIONS

To be added when the enclosures or parts of them have a surface resistance more than 10^9 Ω or 10^{11} Ω according to IEC 60079-0 Clause 7.4.2 a), as applicable, and as per following cases:

- are equipped with transparent parts made of polycarbonate.
- for category II 2 G / EPL Gb Gas group IIC: are painted and the paint layer thickness is > 0.2mm.
- for category II 2 G / EPL Gb Gas group IIB: are painted and the paint layer thickness is > 2mm.
- for category II 2 D / EPL Db: are painted and the paint layer thickness is > 2mm.
- for category II 2 G / EPL Gb Gas group IIC: not conductive individual materials (labels), applied on painted enclosures, have exposed (chargeable area) > 2000mm^2 or, not conductive individual materials (labels), applied on unpainted (conductive earthed surface) enclosures, have exposed (chargeable area) > 8000mm^2.
- for category II 2 G /EPL Gb Gas group IIB: not conductive individual materials (labels), applied on painted enclosures, have exposed (chargeable area) > 10000mm^2 or, not conductive individual materials (labels), applied on unpainted (conductive earthed surface) enclosures, have exposed (chargeable area) > 40000mm^2.

OPEN THE VALVE ONLY WHEN THE APPARATUS IS DE-ENERGIZED AND ONLY WHEN AN EXPLOSIVE DUST ATMOSPHERE IS NOT PRESENT
To be added on Ex tb apparatus equipped with the drain / venting device ECR3.

Other warnings depend on the components actually mounted, according to the component manufacturer's documentation.

The tables below state the maximum power dissipation values (W) related to the internal temperature (Tint) and ambient temperature (Tamb).

ITEM	Tag	EJB-200N1-02-L1-18	: JB - NORMAL LIGHTING	Dwg	123A90-DDL-EL-DL-20118
	S/Sys	83-40	: Normal Lighting Upper Deck	Module	UD
TASK	code	C10001636	Location: Onshore Activities	User	Rosetti Marino Quality Control
FORM	Process	MC	Activity: CCK / Discipline: ATEX / Form: CJX01		Hazardous Area Equipment Detailed Inspection

Schedule Ref. #				**Area Code**					
Area Class Drawing	123A90-DDL-SAF-DL-30022			**Serial No.**		24P00297990035			
Manufacturer	TECHNOR ITALSMEA			**Model**		AQ-252612P			
Cert No.	FIDI 21 ATEX 0090X-FIDI 21 0015 X			**Equipment Ambient Temp.**		-20 to + 40 °C			
Area Classification	Hazardous	**Zone**	2	**Gas group**	II C	**Temp class**	T1		
Equipment Protection Type	Ex eb	**EPL**	Gb	**Gas group**	II C	**Temp class**	T6	**IP Rating**	IP66

Detailed Note:

1) Inspection shall only be performed by competent personnel

2) All fields are to be completed. Any non-applicable field shall state “NA”. Comments are required for ‘Failure’ column ONLY.

3) An Inspection Sheet should be completed for EACH individual item of Equipment.

	General Equipment	Detailed	OK/NA/PL	Comments
1	Equipment is appropriate to the EPL / Zone requirements of the area	x	OK	
2	Equipment group is correct	x	OK	
3	Equipment temperature class is correct	x	OK	
4	Degree of IP protection of equipment is appropriate for the level of protection	x	OK	
5	Equipment circuit identification is correct	x	OK	
6	Equipment circuit identification is available	x	OK	
7	Enclosure glass parts and glass-to-metal sealing gaskets and / or compounds are satisfactory	x	NA	
8	There is no damage or unauthorized modifications	x	OK	
9	There is no evidence of unauthorized modifications	x	OK	
10	Bolts, cable entry devices (direct and indirect) & blanking elements are of the correct type, are complete & tight		OK	
	Physical check	x	OK	
11	Threaded covers on enclosures are of the correct type, are tight and secured		NA	
	Physical check	x	NA	
12	Joint surfaces are clean and undamaged and gaskets, if any, are satisfactory and positioned correctly	x	OK	
13	Condition of enclosure gaskets is satisfactory	x	OK	
14	There is no evidence or ingress of water or dust in the enclosure in accordance with the IP rating	x	OK	
15	Electrical connections are tight	x	OK	
16	Bridging links do not reduce creepage / clearance and are allowed	x	OK	
17	Unused terminals are tightened	x	OK	
18	Encapsulated components are undamaged	x	NA	
19	Flameproof components are undamaged	x	NA	
20	Fluorescent lamps are not indicating EOL effects (only for Ex “e” – Ex “n” – Ex “t”)	x	NA	
21	HID lamps are not indicating EOL effects	x	NA	
22	Lamp type, rating, pin configuration and position are correct	x	NA	
23	Breathing and drainage devices are satisfactory	x	PL	
24	Type of cable is appropriate	x	OK	
25	There is no obvious damage to the cables	x	OK	
26	Cable glands are the correct type and installed correctly	x	Note	C30002192, C30002193, C30002202, C30002
27	Sealing of trunking, ducts, pipes and or conduits is satisfactory	x	NA	
28	Stopping boxes and cable boxes are corrected filled	x	OK	

ITEM	Tag	EJB-200N1-02-L1-18	: JB - NORMAL LIGHTING			Dwg	123A90-DDL-EL-DL-20118
	S/Sys	83-40	: Normal Lighting Upper Deck			Module	UD
TASK	code	C10001636		Location	Onshore Activities	User	Rosetti Marino Quality Control
FORM	Process	MC	Activity CCK	Discipline	ATEX	Form	CJX01 Hazardous Area Equipment Detailed Inspection

29	Integrity of conduit system and interface with mixed system maintained	x	NA	
30	Earthing connections, including any supplementary earthing bonding connections are satisfactory (for example connections are tight and conductors are of sufficient cross-section		OK	
	Physical check	x	OK	
31	Automated electric protective devices operate within permitted limits	x	NA	
32	Special conditions (if applicable) have been complied with.	x	NA	
33	All cable cores are uniquely labeled	x	Note	See PL 30002191, C30002201, C30002203, C
34	Cable cores not in use are correctly terminated	x	OK	
35	Equipment is adequately protected against corrosion, weather, vibration and other adverse factors	x	OK	
36	No undue accumulation of dust and dirt	x	OK	
37	All equipment housings are clean and dry	x	OK	
38	All moving parts are free and have no mechanical damage	x	OK	
	Applicable for Installation of Heating Systems			
39	Temperature sensors function according to manufacturer's documents (only applicable for Ex-d e Ex-e)	x	NA	
40	Safety cut off devices function according to manufacturer's documents (only applicable for Ex-d e Ex-e)	x	NA	
41	The setting of the safety cut off is sealed (only applicable for Ex-d e Ex-e)	x	NA	
42	Reset of a heating system safety cut off possible with tool only(only applicable for Ex-d e Ex-e)	x	NA	
43	Auto-reset is not possible (only applicable for Ex-d e Ex-e)	x	NA	
44	Reset of a safety cut off under fault conditions is prevented (only applicable for Ex-d e Ex-e)	x	NA	
45	Safety cut off independent from control system (only applicable for Ex-d e Ex-e)	x	NA	
46	Level switch is installed and correctly set, if required (only applicable for Ex-d e Ex-e)	x	NA	
47	Flow switch is installed and correctly set, if required (only applicable for Ex-d e Ex-e)	x	NA	
	Extra Ex d checks			
48	Obstructions adjacent to flame proof flanged joints are in accordance with IEC 60079-14	x	NA	
49	Ex d conduits seals are fitted to all conduits and satisfactorily sealed	x	NA	
50	Cable glands are of the correct type and installed correctly	x	NA	
51	Adaptors, reducers, stop ends, etc. are all certified Ex d	x	NA	
52	Flame path are clean and undamaged	x	NA	
53	Flange gap dimensions are within tolerances	x	NA	
54	Motor fans have sufficient clearance to the enclosure and/or covers, cooling systems are undamaged, motor foundations have no indentations or cracks	x	NA	
55	The ventilation airflow is not impeded	x	NA	
56	Insulation resistance (IR) of the motor windings is satisfactory	x	NA	
57	Fault loop impedance (TN systems) or earthing resistance (IT systems) is satisfactory	x	NA	
58	Variable voltage/frequency installation complies with documentation	x	NA	
	Extra Ex e checks			
59	All Equipment is Ex e certified (including components within enclosure)	x	OK	
60	Power conductors are not bunched together causing possible hot spots	x	OK	
61	Motor fans have sufficient clearance to the enclosure and/or covers, cooling systems are undamaged, motor foundations have no indentations or cracks	x	NA	
62	Insulation resistance (IR) of the motor windings is satisfactory	x	NA	
63	Fault loop impedance (TN systems) or earthing resistance (IT systems) is satisfactory	x	NA	
64	The ventilation airflow is not impeded	x	NA	
65	Motor protection devices operate within the permitted tE or tA time limits.	x	NA	
66	Variable voltage/frequency installation complies with documentation	x	NA	

ROSETTI MARINO PROVERLIS CROSSWIND

ITEM	Tag	EJB-200N1-02-L1-18	: JB - NORMAL LIGHTING		Dwg	123A90-DDL-EL-DL-20118	
	S/Sys	83-40	: Normal Lighting Upper Deck		Module	UD	
TASK	code	C10001636	Location	Onshore Activities	User	Rosetti Marino Quality Control	
FORM	Process	MC	Activity CCK	Discipline ATEX	Form	CJX01	Hazardous Area Equipment Detailed Inspection

Extra Ex n (nR, nL) checks				
67	All Terminals are Ex n certified (if required on certificate)	x	NA	
68	Hermetically sealed and enclosed break devices are undamaged	x	NA	
69	Restricted breathing properties satisfactory (conduct vacuum test)	x	NA	
70	Test port, if fitted, is functional (type “nR” only)	x	NA	
71	Breathing operation is satisfactory (type “nR” only)	x	NA	
72	Motor fans have sufficient clearance to the enclosure and/or covers, cooling systems are	x	NA	
73	The ventilation airflow is not impeded	x	NA	
74	Insulation resistance (IR) of the motor windings is satisfactory	x	NA	
75	Motor protection devices operate within the permitted tE or tA time limits.	x	NA	
76	Variable voltage/frequency installation complies with documentation	x	NA	
Extra Ex p checks				
77	Pressurization gas is correct type	x	NA	
78	Actual pressure is within maximum and minimum settings for equipment	x	NA	
79	Timers set as per certification documentation	x	NA	
80	Alarms and trip functions operate correctly as per certification documentation	x	NA	
81	Fault loop impedance (TN systems) or earthing resistance (IT systems) is satisfactory	x	NA	
82	Automatic electrical protective devices operate within permitted limits	x	NA	
83	Automatic electrical protective devices are set correctly	x	NA	
84	Protective gas inlet temperature is below maximum specified	x	NA	
85	Ducts, pipes and enclosures are in good condition	x	NA	
86	Protective gas is substantially free from contaminants	x	NA	
87	Protective gas pressure and/or flow is adequate	x	NA	
88	Pressure and/or flow indicators, alarms and interlocks function correctly	x	NA	
89	Conditions of spark and particle barriers of ducts for exhausting the gas in hazardous area are satisfactory	x	NA	
90	Specific conditions of use (if applicable) are complied with		NA	
Extra Ex i (Intrinsically Safe – IS) checks				
91	Equipment has adequate circuit identification for ‘IS’ Installation	x	NA	
92	Cables are installed in accordance with the documentation	x	NA	
93	Segregation is maintained between IS and non-IS Circuits	x	NA	
94	Cable screens are isolated at one end (field side)	x	NA	
95	Cable screens are earthed in accordance with the documentation	x	NA	
96	Safety barrier units, relays and other energy limiting devices are of the approved type, installed in	x	NA	
97	Equipment installed is the one specified in the documentation	x	NA	
98	Ambient temperature range of the apparatus is correct for the installation	x	NA	
99	Service temperature range of the apparatus is correct for the installation	x	NA	
100	Installation is clearly labelled	x	NA	
101	Printed circuit boards are clean and undamaged	x	NA	
102	The maximum voltage Um of the associated apparatus is not exceeded	x	NA	
103	Point-to-point connections are all correct	x	NA	
104	Earth continuity is satisfactory (e.g. connections are tight, conductors are of sufficient cross-section)	x	NA	
105	Earth connections maintain the integrity of the type of protection	x	NA	
106	Intrinsically safe circuit earthing is satisfactory	x	NA	
107	Insulation resistance is satisfactory	x	NA	
108	Short-circuit protection of the power supply is in accordance with the documentation	x	NA	

	BARRIER:	**Manufacturer:**	NA	**Model:**	NA		
		Authority:	NA	**Cert No:**	NA	**Type:**	NA

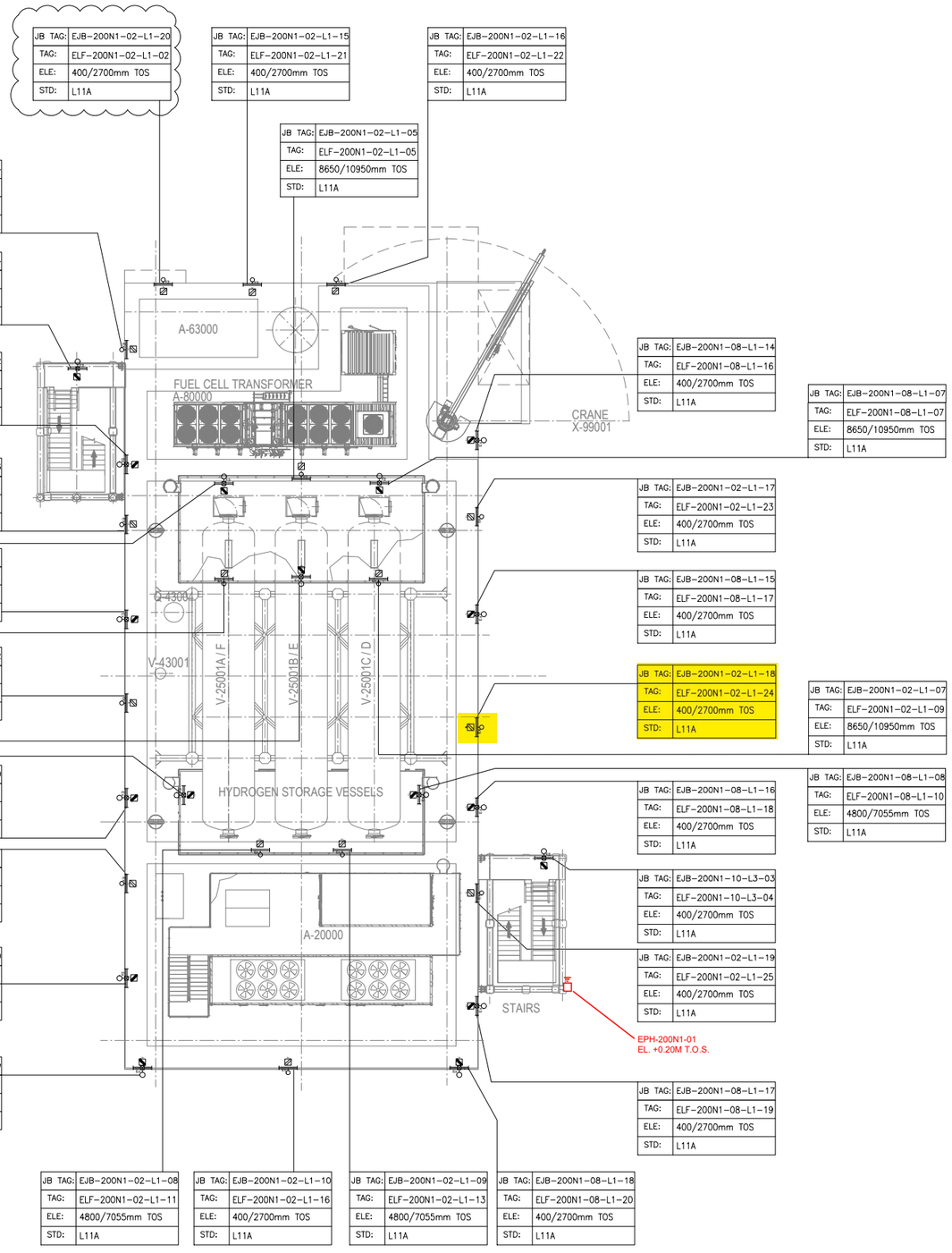
Remarks: Initial inspection should be detailed and carried out before equipment is brought into service as per IEC 60079-17

Please mark only one box as appropriate	
●	**Passed - Complete**
	Failed

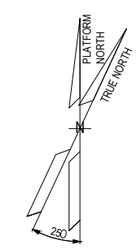
Page 3/3	Performed by	☐ WITNESS ☐ REVIEW	☐ WITNESS ☐ REVIEW
Company	ICS IMPIANTI	RM(ROSETTI MARINO)	
Name	Francesco Zucca	Luca Mussi	
Date	2024-12-28	2025-01-07	
Signature	PROVERLIS Digitaly signed by Francesco Zucca 2024-12-28T07:34:30.665Z	PROVERLIS Digitaly signed by Luca Mussi 2025-01-07T09:49:34.523Z	

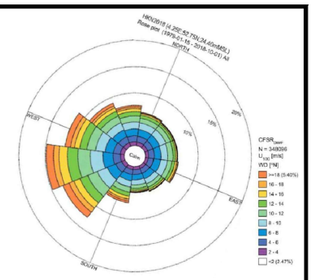
DRAWING NO. 123A90-DDL-EL-DL-20118

REV. 01



PLAN ON UPPER DECK
EL+30.310 T.O.S.





NOTES

1. ALL DIMENSIONS AND ELEVATIONS ARE GIVEN IN mm UNLESS OTHERWISE NOTED.
2. ELEVATIONS REFER TO T.O.S.
3. ELEVATION OF THE LAMPS ARE REFFERED TO THE BOTTOM OF THE LAMP.
4. FOR THE ELEVATION OF JB, REFER TO THE TYPICAL INSTALLATION.

LEGEND

- EMERGENCY LIGHTING JB
- 60W LED EMERGENCY LUMINARIES
- 60W LED EMERGENCY LUMINARIES FIXTURE POLE MOUNTED
- NORMAL LIGHTING JB
- 45W LED NORMAL LUMINARIES
- 45W LED NORMAL LUMINARIES FIXTURE POLE MOUNTED
- WELDING SOCKET WITH INTEGRATED JB
- SMALL POWER SOCKET WITH INTEGRATED JB
- TWILIGHT RELAY SENSOR

JB TAG:	JB-TAG
TAG:	TAG
ELE:	ELEVATION
STD:	STANDARD

VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DL-20118**

REV.:	DATE:	SIGNATURE:
1_B	22/10/24	G.Randi

ROSETTI MARINO SpA

REFERENCE DOCUMENTS

123A90-DDL-PP-DL-70070	PLOT PLAN - LOWER & UPPER DECK
123A90-DDL-EL-DL-20100	ELECTRICAL EQUIPMENT LAYOUT - TOP DECK
123A90-DDL-EL-DD-20091	ELECTRICAL TYPICAL INSTALLATION DETAILS - LIGHTING SYSTEM
123A90-DDL-EL-DD-20092	ELECTRICAL TYPICAL INSTALLATION DETAILS - POWER SYSTEM & CABLE INSTALLATION
123A90-DDL-EL-RE-20153	LIGHTING CALCULATION STUDY REPORT

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	02/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	28/05/24	ASR	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND | ROSETTI MARINO

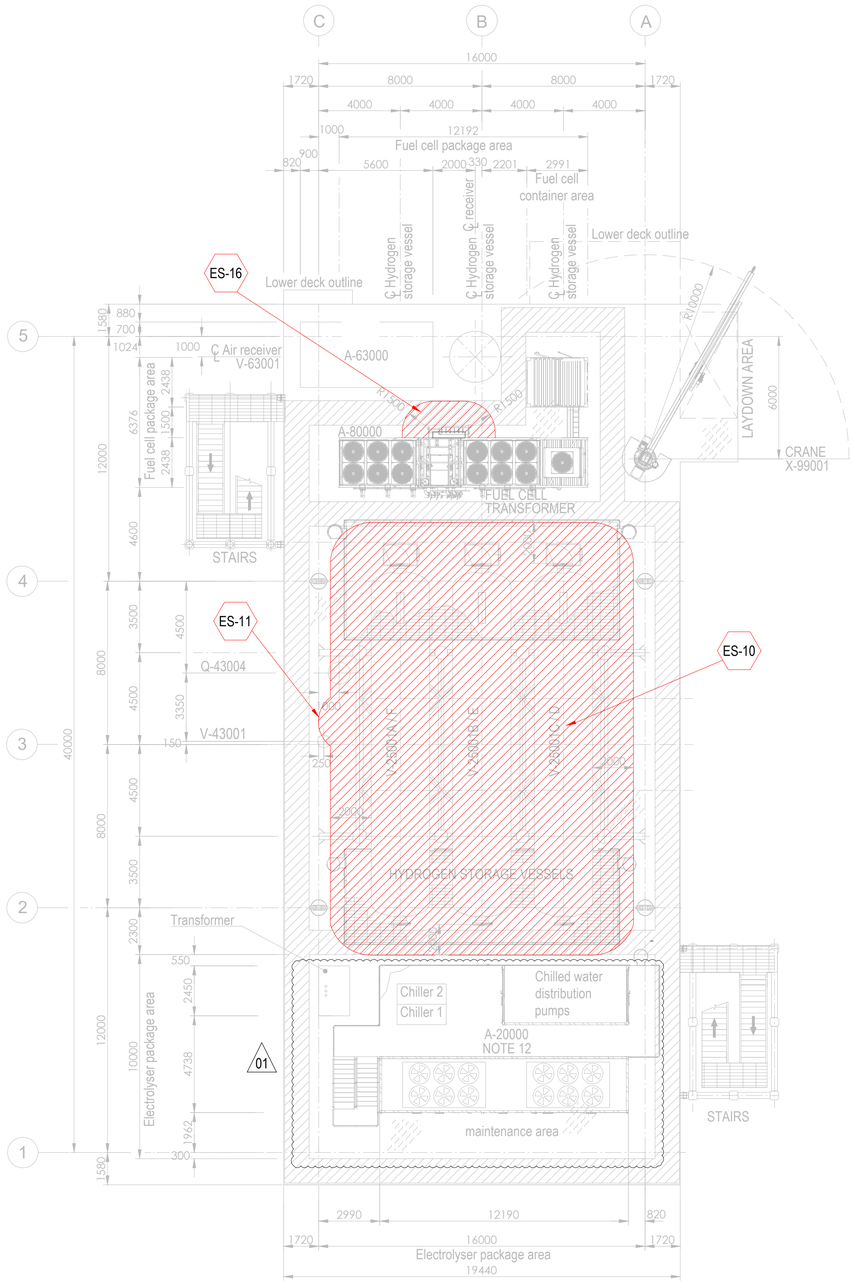
TITLE :
BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET LAYOUT – TOP DECK

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK			SCALE 1:150
DRAWN ASR	CHECKED FMA/AMA	APPROVED FPA/DLO	DATE 01/08/24
A1	DRAWING NO. 123A90-DDL-EL-DL-20118	SHEET 1of2	REV. 01

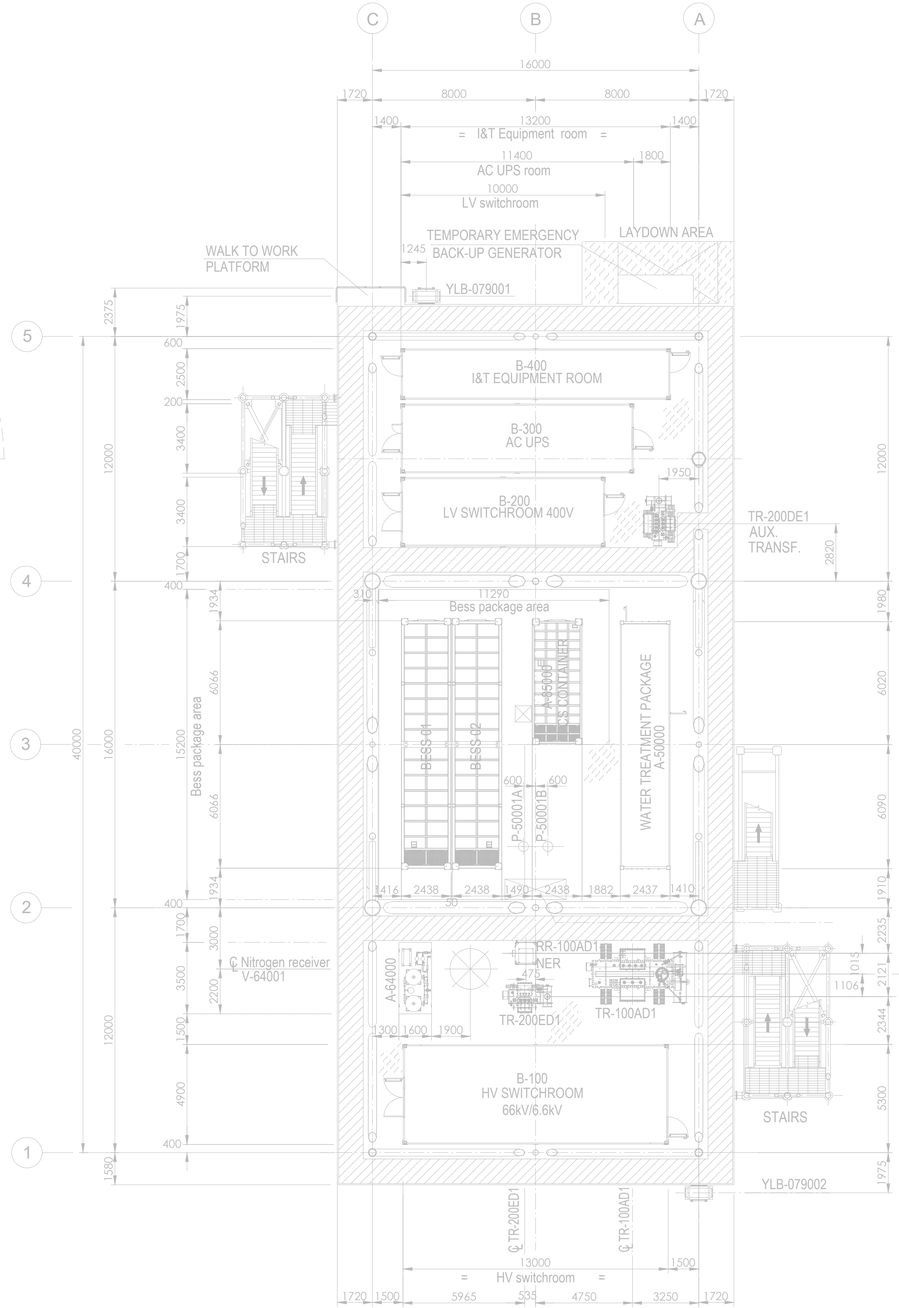
File Name : 123A90-DDL-EL-DL-20118

DRAWING NO. 123A90-DDL-SAF-DL-30022

REV. 01



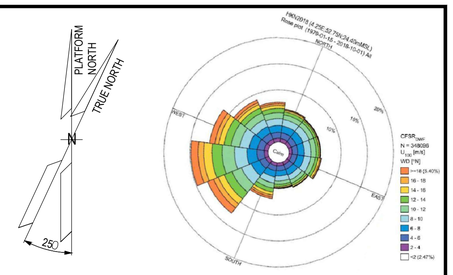
PLAN ON UPPER DECK
EL+30.310 T.O.S.



PLAN ON LOWER DECK
EL+23.310 T.O.S.

Tag No.	Equipment Tag	Description	Material	Ventilation Type
01	P-50001 A/B	SEA WATER LIFT PUMPS	SEA WATER	NATURAL (OPEN AREA)
02	Q-43004	HYDROGEN VENT	HYDROGEN	NATURAL (OPEN AREA)
03	V-43001	HYDROGEN VENT KO DRUM	HYDROGEN	NATURAL (OPEN AREA)
04	V-25001 (A/B/C/D/E/F)	HYDROGEN STORAGE VESSELS	HYDROGEN	NATURAL (OPEN AREA)
05	V-63001	AIR RECEIVER	INSTRUMENT AIR	NATURAL (OPEN AREA)
06	A-20000	ELECTROLYSER PACKAGE		
07	A-63000	INSTRUMENT AIR PACKAGE		
08	A-80000	FUEL CELL PACKAGE		
09	A-85000	BESS PACKAGE		
10	YLB-079001/2	LIFE RAFTS		
11	A-50000	WATER TREATMENT PACKAGE		

Tag No.	Equipment Tag	Description	Material	Ventilation Type
12	A-64000	NITROGEN SYSTEM		
13	B-100	HV SWITCHROOM 66kV/6.6kV		
14	B-200	LV SWITCHROOM 400V		
15	B-300	AC UPS EQUIPMENT ROOM		
16	B-400	I&T EQUIPMENT ROOM		
17	TR-100AD1	TRANSFORMER MAIN 66kV/6.6kV		
18	RR-100AD1-NER	NEUTRAL EARTHING RESISTOR		
19	TR-200DE1	TRANSFORMER AUX. 6.6kV/0.4kV		
20	TR-200ED1	SOLAR TRANSFORMER PV FARM EQUIPMENT		
21	X-99001	CRANE		
22	V-64001	NITROGEN RECEIVER		



1. ALL DIMENSIONS IN mm U.N.O
2. ALL ELEVATIONS IN METERS.
3. PLATFORM NORTH DIRECTION IS N 25°W.
4. VENT TOP SHALL BE REACHEABLE FOR MAINTENANCE PURPOSE.
5. THE BESS IS CONSIDERED SAFE AREA EXCEPT EXTRACTORES FROM BATTERIES , CURRENTLY NOT SHOWN IN DRAWINGS, SINCE INFORMATION FROM VENDOR IS NOT YET AVAILABLE.[ES17]
6. THE LOCATION OF EMISSION SOURCES ON THE LAYOUT ARE ONLY INDICATIVE. EMISSION SOURCES CONSIDERED ARE PRESENT WITHIN THE EXTENSION OF HAZARDOUS CLASSIFIED AREAS SHOWN ON THE LAYOUT. THIS IS BECAUSE VALVES AND FLANGES,WHICH ARE CONSIDERED POTENTIAL SOURCES OF RELEASE POINTS FOR FLAMMABLE GAS ARE NOT SHOWN ON CURRENT LAYOUT PROVIDED. THE SAME APPLIES TO THE EMISSION SOURCES FOR CPI'S ITEM.
7. IDENTIFIED EMISSION SOURCES DETAIL

EMISSION SOURCE No.	IDENTIFIED AREAS
ES10	HYDROGEN STORAGE VESSLES
ES11	HYDROGEN VENT KO DRUM
ES16	FUEL CELL

01

ZONE 0 | ZONE 1 | ZONE 2 | ES EMISSION SOURCES

01

01

123A90-DDL-PP-DS-70071	PLOT PLAN - BELOW LOWER DECK
123A90-DDL-PP-DS-70072	PLOT PLAN - ELEVATION LOOKING NORTH & EAST

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	27/08/24	MMA	CCA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	08/02/24	MMA	CCA	DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND

ROSETTI MARINO

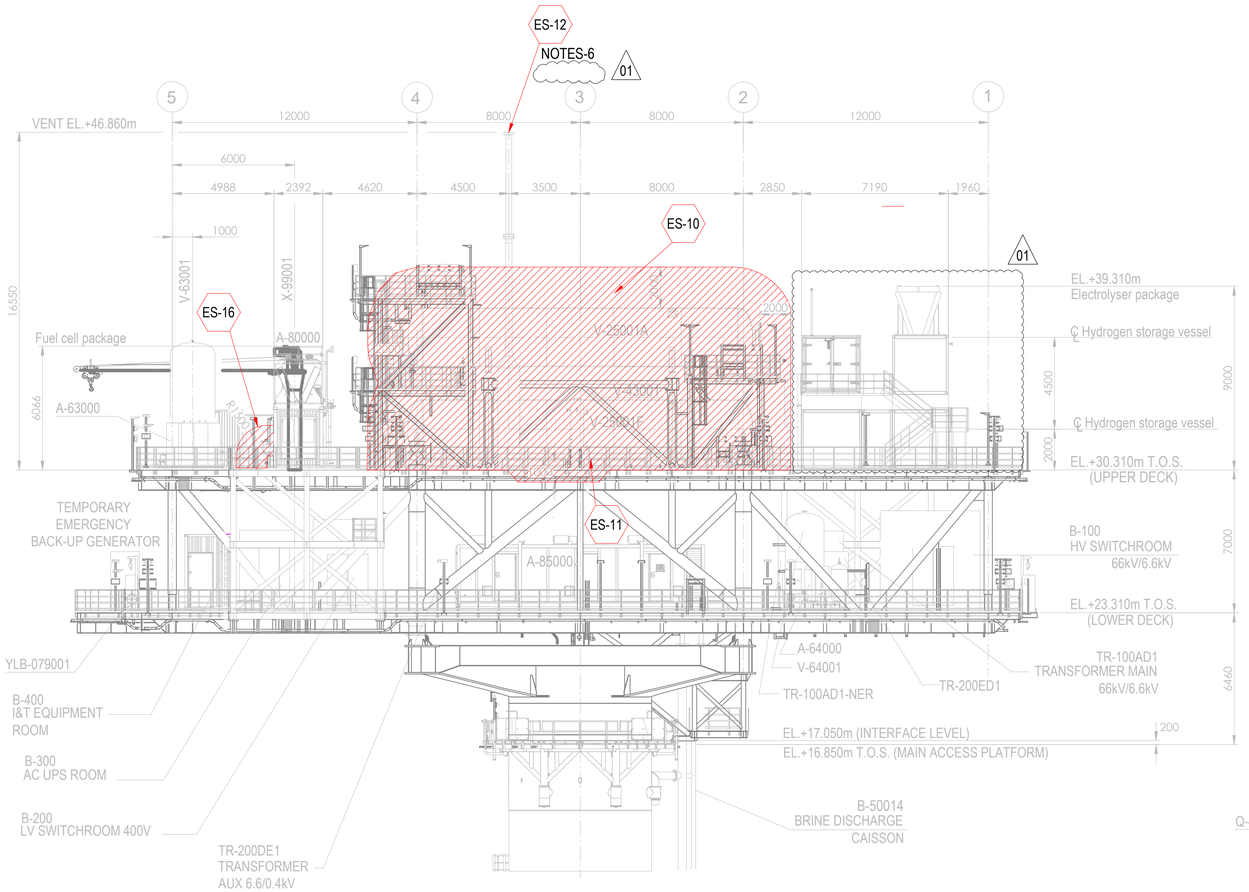
TITLE : BASE LOAD POWER HUB (BLPH)
HAZARDOUS AREA CLASSIFICATION
LOWER & UPPER DECK

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK		SCALE 1:150
DRAWN M. MAGNI	CHECKED C. CARACCIOLO	APPROVED D. LO STERZO	DATE 03/07/24
A1	DRAWING NO. 123A90-DDL-SAF-DL-30022	SHEET 001	REV. 01

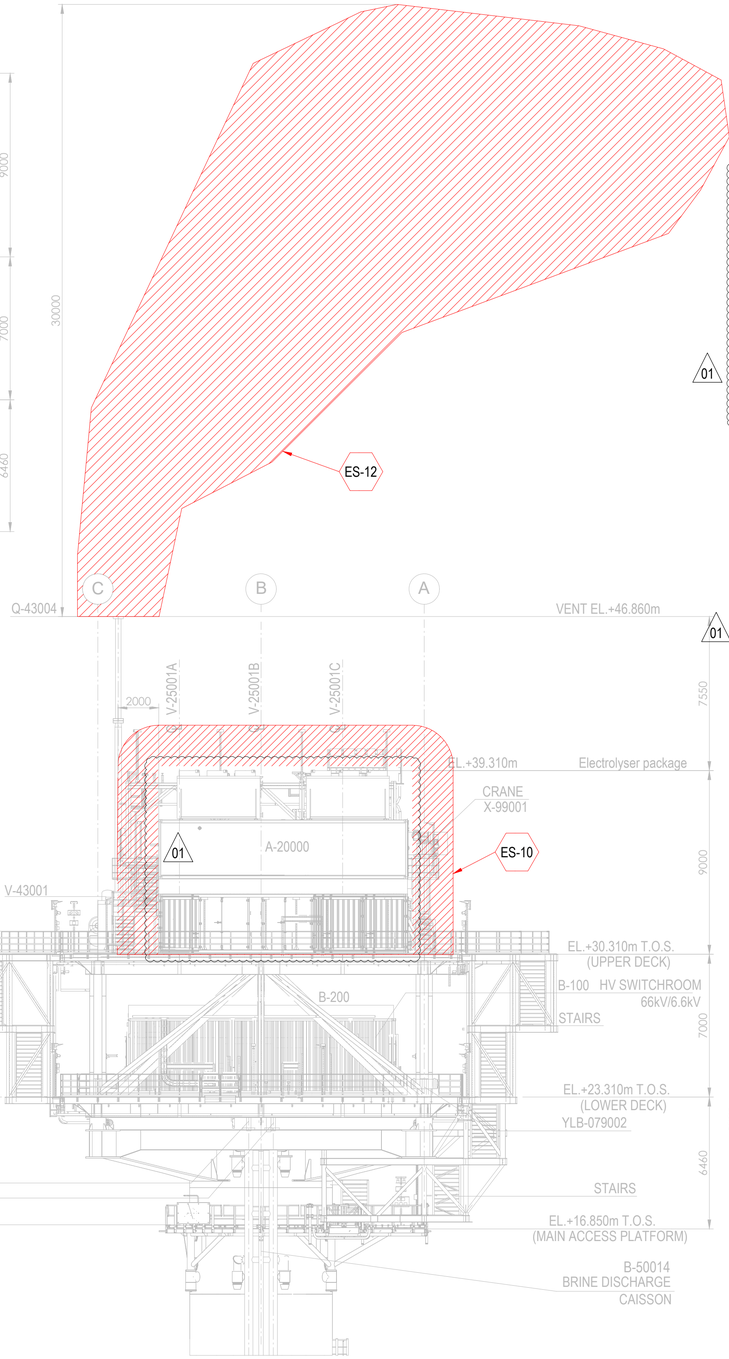
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DRAWING NO. 123A90-DDL-SAF-DL-30024

REV. 01



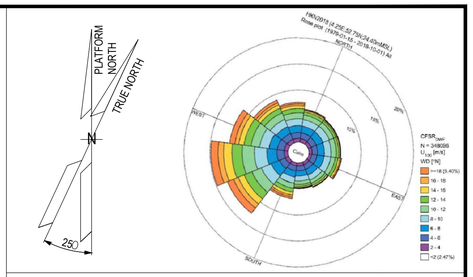
ELEVATION LOOKING EAST



ELEVATION LOOKING NORTH

01

Tag No.	Equipment Tag	Description	Material	Ventilation Type
01	P-50001 A/B	SEA WATER LIFT PUMPS	SEA WATER	NATURAL (OPEN AREA)
02	Q-43004	HYDROGEN VENT	HYDROGEN	NATURAL (OPEN AREA)
03	V-43001	HYDROGEN VENT KO DRUM	HYDROGEN	NATURAL (OPEN AREA)
04	V-25001 (A/B/C/D/E/F)	HYDROGEN STORAGE VESSELS	HYDROGEN	NATURAL (OPEN AREA)
05	V-63001	INSTRUMENT AIR RECEIVER	INSTRUMENT AIR	NATURAL (OPEN AREA)
06	A-20000	ELECTROLYSER PACKAGE		
07	A-63000	INSTRUMENT AIR PACKAGE		
08	A-80000	FUEL CELL PACKAGE		
09	A-85000	BESS PACKAGE		
10	YLB-079001/2	LIFE RAFTS		
11	B-100	HV SWITCHROOM 66kV/6.6kV		
12	B-200	LV SWITCHROOM 400V		
13	B-300	AC UPS EQUIPMENT ROOM		
14	B-400	I&T EQUIPMENT ROOM		
15	TR-100AD1	TRANSFORMER MAIN 66kV/6.6kV		
16	TR-100AD1-NER	NEUTRAL EARTHING RESISTOR		
17	TR-200DE1	TRANSFORMER AUX. 6.6kV/0.4kV		
18	TR-200ED1	SOLAR TRANSFORMER PV FARM EQUIPMENT		
19	X-99001	CRANE		
20	V-64001	NITROGEN RECEIVER		



NOTES

1. ALL DIMENSIONS IN mm U.N.O
2. ALL ELEVATIONS IN METERS.
3. PLATFORM NORTH DIRECTION IS N 25°W.
4. VENT TOP SHALL BE REACHEABLE FOR MAINTENANCE PURPOSE.
5. THE BESS IS CONSIDERED SAFE AREA EXCEPT EXTRACTORES FROM BATTERIES , CURRENTLY NOT SHOWN IN DRAWINGS, SINCE INFORMATION FROM VENDOR IS NOT YET AVAILABLE.[ES17]
6. (ES12) IS SHOWN ONLY ON ELEVATION LOOKING NORTH ON THIS LAYOUT
7. THE LOCATION OF EMISSION SOURCES ON THE LAYOUT ARE ONLY INDICATIVE. EMISSION SOURCES CONSIDERED ARE PRESENT WITHIN THE EXTENSION OF HAZARDOUS CLASSIFIED AREAS SHOWN ON THE LAYOUT. THIS IS BECAUSE VALVES AND FLANGES,WHICH ARE CONSIDERED POTENTIAL SOURCES OF RELEASE POINTS FOR FLAMMABLE GAS ARE NOT SHOWN ON CURRENT LAYOUT PROVIDED. THE SAME APPLIES TO THE EMISSION SOURCES FOR CPI'S ITEM.
8. IDENTIFIED EMISSION SOURCES DETAIL

EMISSION SOURCE No.	IDENTIFIED AREAS
ES10	HYDROGEN STORAGE VESSLES
ES11	HYDROGEN VENT KO DRUM
ES12	HYDROGEN VENT
ES16	FUEL CELL

01

LEGEND

ZONE 0 | ZONE 1 | ZONE 2 | ES EMISSION SOURCES

01

REFERENCE DOCUMENTS

123A90-DDL-PP-DS-70070	PLOT PLAN - LOWER & UPPER DECK
123A90-DDL-PP-DS-70071	PLOT PLAN - BELOW LOWER DECK

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	27/08/24	MMA	CCA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	08/02/24	MMA	CCA	DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND | ROSETTI MARINO

TITLE :
BASE LOAD POWER HUB (BLPH)
HAZARDOUS AREA CLASSIFICATION
ELEVATION LOOKING NORTH & EAST

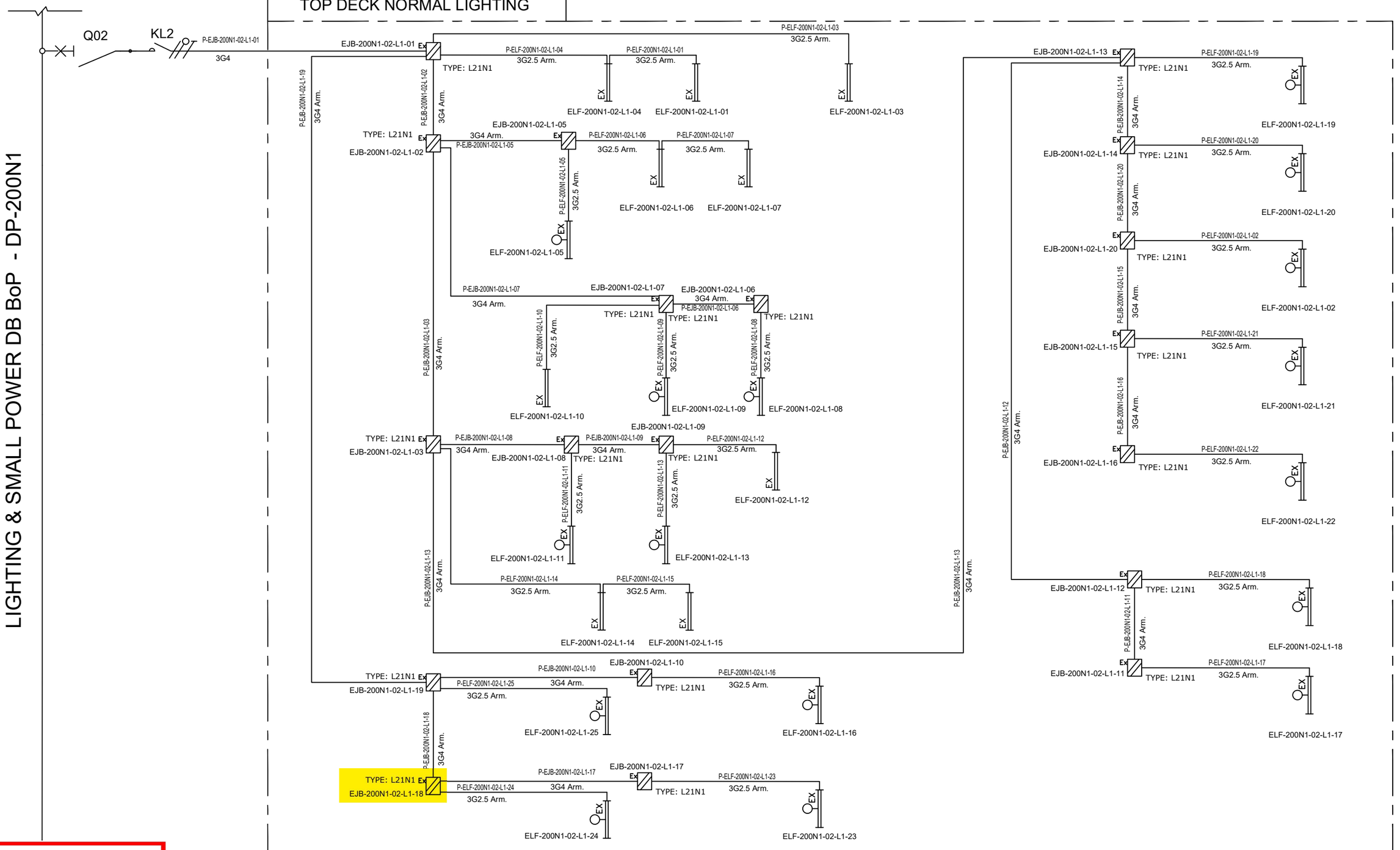
CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK			SCALE 1:150
DRAWN M. MAGNI	CHECKED C. CARACCIOLO	APPROVED D. LO STERZO	DATE 03/07/24

A1	DRAWING NO. 123A90-DDL-SAF-DL-30024	SHEET 001	REV. 01

File Name : 123A90-DDL-SAF-DL-30024 Rev.01

LIGHTING & SMALL POWER DB BoP - DP-200N1

TOP DECK NORMAL LIGHTING



VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DG-20125**

REV.:	DATE:	SIGNATURE:
2_C	20/12/24	V.Ramponi

ROSETTI MARINO SpA

CROSSWIND

ROSETTI MARINO

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	08/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	01/07/24	ASR	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

TITLE : BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET CIRCUIT DIAGRAM
TOP DECK–NORMAL LIGHTING

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE : NTS

A3

DRAWING NO. 123A90–DDL–EL–DG–20125

SHEET 010

REV. 01

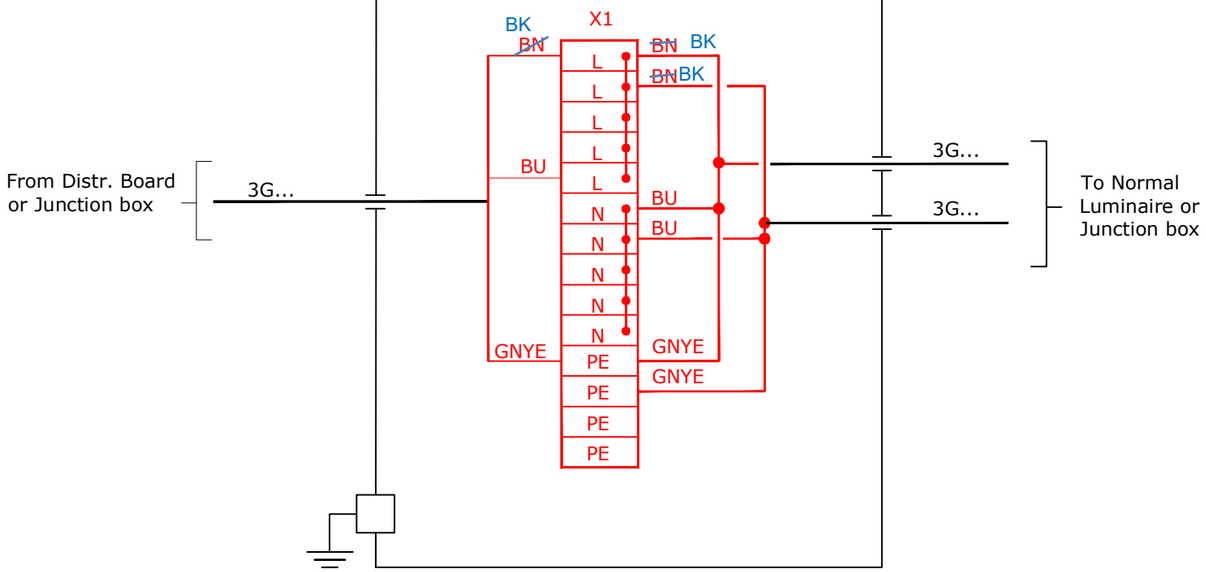
F.to UNI A3: 420mmx297mm

File Name : 123A90–DDL–EL–DG–20125

TYPE : L21N1 & L21N2

ITEM: NORMAL LIGHTING JUNCTION BOX

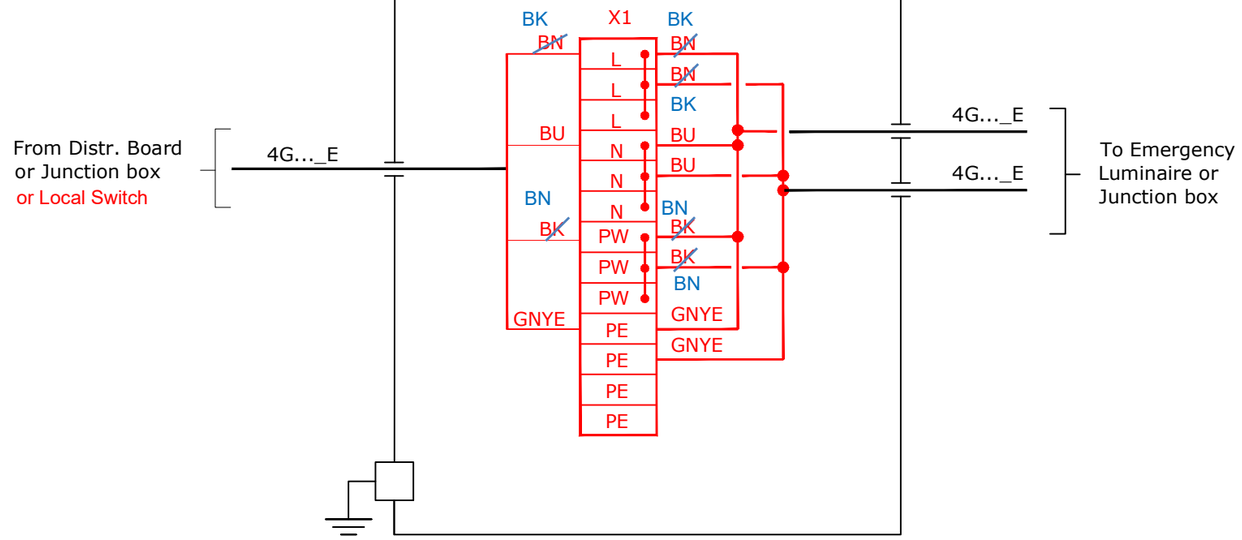
TAG : Typical



TYPE : L21E1 & L21E2

ITEM: EMERGENCY LIGHTING JUNCTION BOX

TAG : Typical



VALID FOR CONSTRUCTION

FDL DWG: **123A90-FDL-EL-DG-20125**

REV.:	DATE:	SIGNATURE:
2_C	20/12/24	V.Ramponi

ROSETTI MARINO SpA

CROSSWIND

ROSETTI MARINO

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	08/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)

TITLE : BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET CIRCUIT DIAGRAM
TYPICAL JB INTERCONNECTING DIAGRAM

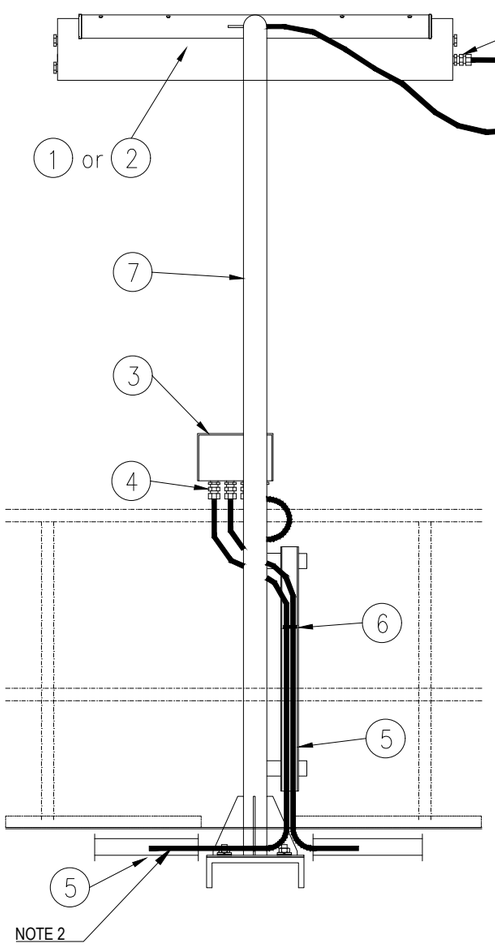
CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK | SCALE : NTS

A3	DRAWING NO.	SHEET	REV.
	123A90-DDL-EL-DG-20125	016	01

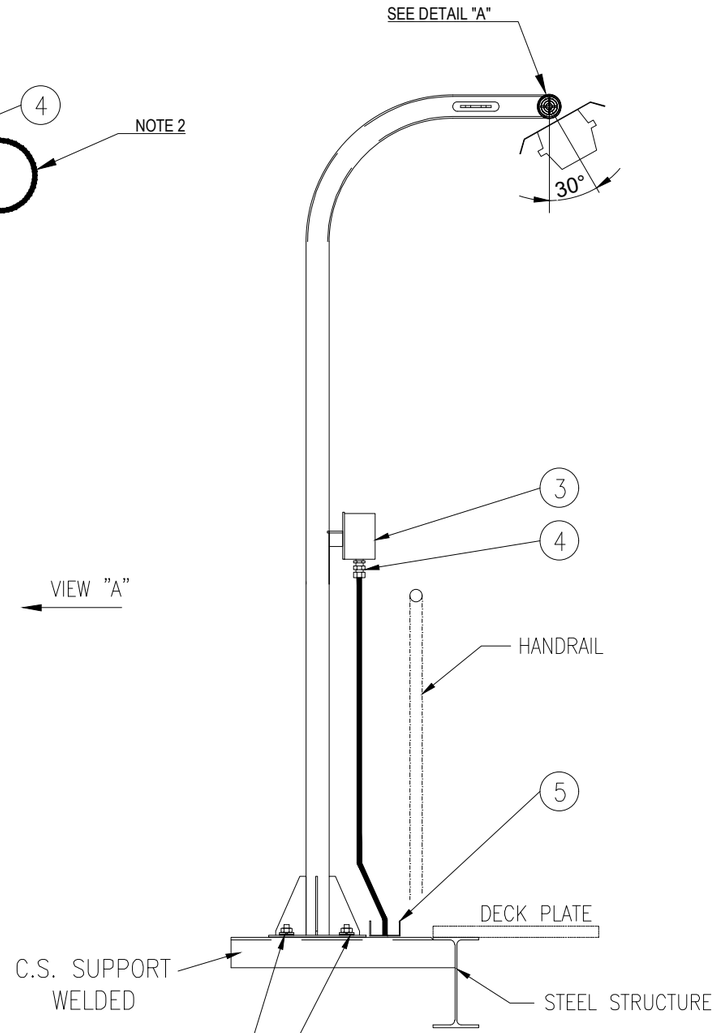
F.to UNI A3: 420mmx297mm

File Name : 123A90-DDL-EL-DG-20125

L11A

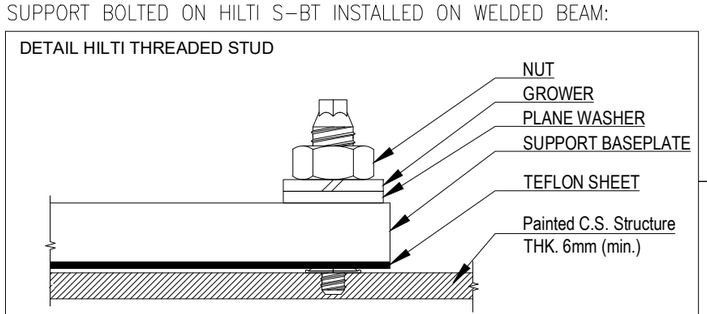


VIEW "A"

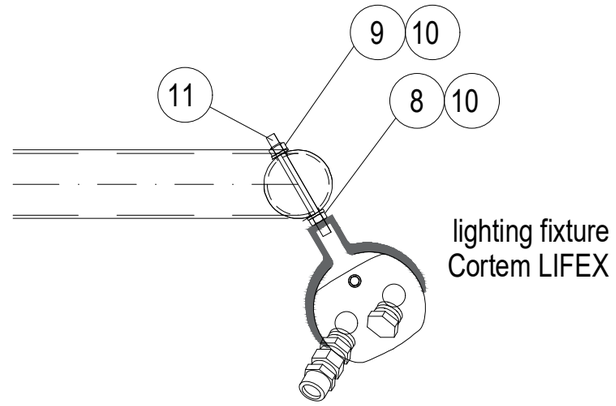


VIEW "A"

SUPPORT BOLTED ON HILTI S-BT INSTALLED ON WELDED BEAM:



POS.	DESCRIPTION	MATERIAL	SIZE	Q.TY	NOTE
1	42W LED LUMINARIES	ALUMINIUM ALLOY		1	
2	45W LED LUMINARIES C/W BATTERY	ALUMINIUM ALLOY		1	
3	JUNCTION BOX (Ex)	GRP		1	NOTE 1
4	CABLE GLAND ~~C/W EARTH TAG,~~ WASHERS, LOCKNUT AND WEATHERPROOF WASHERS	BRASS NICKEL PLATED		AS REQ.	
5	CABLE TRAY	AISI 316L			
6	STAINLESS STEEL NYLON COATED CABLE TIE	SS NYLON COATED			
7	POLE SUPPORT FOR LAMP	AISI 316L	2"		
8	NUT	AISI 316L	M8		
9	SELF.LOCKING NUT	AISI 316L	M8		
10	LARGE PLANE WASHER (24mm DIAM.)	AISI 316L	M8		
11	THREADED ROD M8x100	AISI 316L	M8		



DETAIL "A"

VALID FOR CONSTRUCTION

REV.:	DATE:	SIGNATURE:
2_B	12/12/24	C.Pilato

ROSETTI MARINO SpA

NOTES:

1) FOR LAMPS IN HAZARDOUS AREA, USE ARMOURED CABLE, DOUBLE SEAL CABLE GLAND AND EX JUNCTION BOX.

2) ALWAYS ENSURE CABLE LENGTH IS >3m

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	30/09/24	GRA	AMA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	04/07/24	NLK	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	21/11/23	SPS	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

02

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL TYPICAL INSTALLATION DETAILS-LIGHTING SYSTEM
LIGHTING FIXTURE MOUNTED ON POLE

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE : NTS

A3

DRAWING NO. 123A90-DDL-EL-DD-20091

SHEET 014

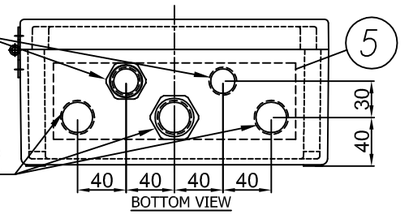
REV. 02

F.to UNI A3: 420mmx297mm

File Name : 123A90-DDL-EL-DD-20091 REV.02.DWG

(10)(4) N°2 PASSING HOLES Ø20.2
C/W N°1 BNK PLUG M20 +
N°1 DUSTPROOF PVC PLUG

(3)(3) N°3 PASSING HOLES Ø25.2
C/W N°1 BNK PLUG M25 +
N°2 DUSTPROOF PVC PLUG



BOTTOM VIEW

(8) I2400722-B015I00029809

TECHNOR ITALSMEA
A COMPANY OF MARECHAL ELECTRIC
Via Italia 33 - 20060 Cassano (MI) ITALY

CE 0080 Ex II 2G II 2D
FIDI 21ATEX 0090X
IECEx FIDI 21.0015X
Year of construction:

MADE IN ITALY

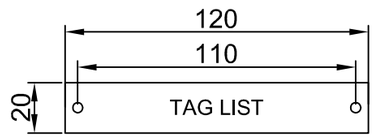
TYPE: AQ-252612P
230VAC 50Hz 20A
Max Dis. P. 6W

Ex eb IIC T6 Gb
Ex tb IIIC T85°C Db
IP66
T.amb. -20/+40°C
Serial Nr.

WARNINGS : DO NOT OPEN WHEN ENERGIZED

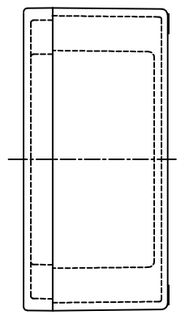
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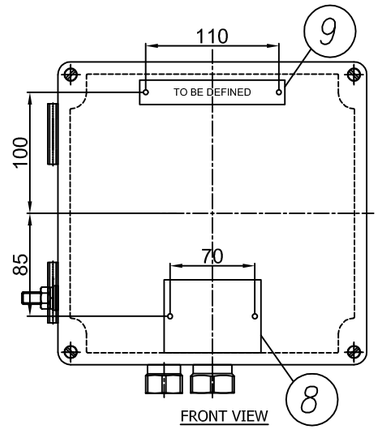
(9) PLATE DETAIL



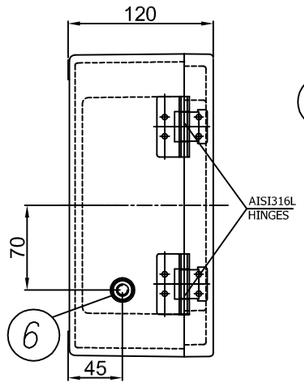
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BACKGROUND: WHITE
LETTERS: BLACK

(7) Terminals numbered: NOTE 1

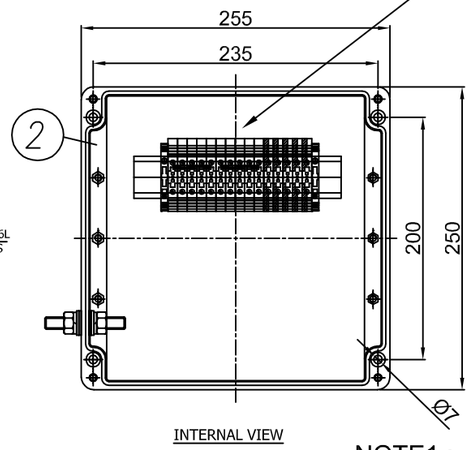

RIGHT VIEW



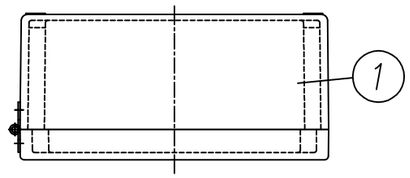
FRONT VIEW



LEFT VIEW



INTERNAL VIEW



TOP VIEW

NOTE1 :
- JB for Normal Lighting have terminals bridge: L-L-L-L-L, N-N-N-N-N, PE-PE-PE-PE-PE - JB for Emergency Lighting have terminals bridge: L-L-L, N-N-N, PW-PW-PW, PE-PE-PE-PE-PE

ITEM	DESCRIPTION	Pcs Q.TY	NOTE/MAT.	CODE	MANUFACTURER
11	DUSTPROOF PVC PLUG Ø25	2	–	.	TECHNOR ITALSMEA
10	DUSTPROOF PVC PLUG Ø20	1	–	.	TECHNOR ITALSMEA
9	LAMINATED PLASTIC TAG 120X20	1	–	.	TECHNOR ITALSMEA
8	AISI316L CERTIFICATE PLATE 80X60	1	–	.	TECHNOR ITALSMEA
7	BEIGE TERMINAL BLOCK SIZE 6 SQMM EARTH TERMINAL BLOCK SIZE 6 SQMM	10 5	WDU–6 WPE–6	.	WEIDMULLER
6	AISI316L INT/EXT EARTH BOLT M10	1	BTP–10	.	TECHNOR ITALSMEA
5	BRASS CONTINUITY PLATE THK. 0.8 MM	1	–	.	TECHNOR ITALSMEA
4	NICKEL PLATED BRASS PLUG M20	1	T20	.	TECHNOR ITALSMEA
3	NICKEL PLATED BRASS PLUG M25	1	T25	.	TECHNOR ITALSMEA
2	INTERNAL MOUNTING PLATE	1	PS–2526	.	TECHNOR ITALSMEA
1	GRP ENCLOSURE	1	AQ–252612P	.	TECHNOR ITALSMEA

-UNPAINTED (BLACK NATURAL)
Q.TY 92, ITEM 20: 2JBXXGPEE, ELEJB02

Explosion Proof
Electrical Equipment
Materiali Elettrici Antideflagranti
TECHNOR ITALSMEA
A COMPANY OF MARECHAL ELECTRIC

CROSSWIND

ROSETTI MARINO

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
05	20/12/24	FB	OB	OB	ACCEPTED FOR CONSTRUCTION (AFC)
04	26/11/24	FB	OB	OB	ACCEPTED FOR CONSTRUCTION (AFC)
03	25/10/24	FB	OB	OB	ACCEPTED FOR CONSTRUCTION (AFC)
02	12/09/24	FB	OB	OB	ACCEPTED FOR CONSTRUCTION (AFC)
01	03/09/24	FB	OB	OB	ACCEPTED FOR CONSTRUCTION (AFC)
00	30/07/24	FB	OB	OB	ISSUE FOR REVIEW (IFR)

TITLE : BASE LOAD POWER HUB (BLPH)

Junction Box for Normal & Emergency Lighting

CONTRACT NO./TITLE CW–I–WP4–2023–05/HOLLANDSE KUST NOORD WIND PARK | SCALE : NTS

A3 | DRAWING NO. 1724001481–EL–DA–00003 | SHEET 004 | REV. 05

F.to UNI A3: 420mmx297mm

File Name : 1724001481–EL–DA–00003 Rev. 01

ENCLOSURE N°	TAG LIST	NORMAL LIGHTING	EMERGENCY LIGHTING
1	EJB-200N1-03-L2-04	X	
2	EJB-200N1-03-L2-03	X	
3	EJB-200N1-03-L2-01	X	
4	EJB-200N1-03-L2-02	X	
5	EJB-200N1-03-L2-12	X	
6	EJB-200N1-03-L2-11	X	
7	EJB-200N1-03-L2-10	X	
8	EJB-200N1-03-L2-09	X	
9	EJB-200N1-03-L2-08	X	
10	EJB-200N1-03-L2-07	X	
11	EJB-200N1-03-L2-06	X	
12	EJB-200N1-03-L2-05	X	
13	EJB-200N1-03-L2-14	X	
14	EJB-200N1-03-L2-13		X
15	EJB-200N1-09-L2-17		X
16	EJB-200N1-09-L2-01		X
17	EJB-200N1-09-L2-04		X
18	SPARE (TO BE PROVIDED BLANK)		X
19	EJB-200N1-09-L2-02		X
20	EJB-200N1-09-L2-15		X
21	EJB-200N1-09-L2-14		X
22	EJB-200N1-09-L2-13		X
23	EJB-200N1-09-L2-12		X
24	EJB-200N1-09-L2-11		X
25	EJB-200N1-09-L2-10		X
26	EJB-200N1-09-L2-09		X
27	EJB-200N1-09-L2-08		X
28	EJB-200N1-09-L2-07		X
29	EJB-200N1-09-L2-06		X
30	EJB-200N1-09-L2-05		X
31	EJB-200N1-09-L2-16	X	
32	EJB-200N1-04-L3-01	X	
33	EJB-200N1-04-L3-02	X	
34	EJB-200N1-10-L3-05		X
35	EJB-200N1-10-L3-06		X
36	EJB-200N1-10-L3-07		X
37	EJB-200N1-10-L3-08		X
38	EJB-200N1-10-L3-09		X
39	EJB-200N1-10-L3-02		X
40	EJB-200N1-10-L3-01		X
41	EJB-200N1-10-L3-03		X
42	EJB-200N1-10-L3-04		X
43	EJB-200N1-02-L1-03	X	
44	EJB-200N1-02-L1-02	X	
45	EJB-200N1-02-L1-01	X	
46	SPARE (TO BE PROVIDED BLANK)	X	
47	EJB-200N1-02-L1-10	X	
48	EJB-200N1-02-L1-19	X	
49	EJB-200N1-02-L1-18	X	

ENCLOSURE N°	TAG LIST	NORMAL LIGHTING	EMERGENCY LIGHTING
50	EJB-200N1-02-L1-17	X	
51	EJB-200N1-02-L1-16	X	
52	EJB-200N1-02-L1-15	X	
53	EJB-200N1-02-L1-14	X	
54	EJB-200N1-02-L1-13	X	
55	EJB-200N1-02-L1-12	X	
56	EJB-200N1-02-L1-11	X	
57	EJB-200N1-02-L1-06	X	
58	EJB-200N1-02-L1-05	X	
59	EJB-200N1-02-L1-07	X	
60	EJB-200N1-02-L1-08	X	
61	EJB-200N1-02-L1-09	X	
62	EJB-200N1-08-L1-03		X
63	SPARE (TO BE PROVIDED BLANK)		X
64	EJB-200N1-08-L1-01		X
65	EJB-200N1-08-L1-04		X
66	EJB-200N1-08-L1-19		X
67	EJB-200N1-08-L1-18		X
68	EJB-200N1-08-L1-17		X
69	EJB-200N1-08-L1-16		X
70	EJB-200N1-08-L1-15		X
71	EJB-200N1-08-L1-14		X
72	EJB-200N1-02-L1-20	X	
73	EJB-200N1-08-L1-12		X
74	EJB-200N1-08-L1-11		X
75	EJB-200N1-08-L1-10		X
76	EJB-200N1-08-L1-20		X
77	EJB-200N1-08-L1-05		X
78	EJB-200N1-08-L1-06		X
79	EJB-200N1-08-L1-07		X
80	EJB-200N1-08-L1-09		X
81	EJB-200N1-08-L1-08		X
82	EJB-200F2-01	X	
83	EJB-200F2-02	X	
84	SPARE (TO BE PROVIDED BLANK)	X	
85	SPARE (TO BE PROVIDED BLANK)	X	
86	SPARE (TO BE PROVIDED BLANK)	X	
87	SPARE (TO BE PROVIDED BLANK)	X	
88	SPARE (TO BE PROVIDED BLANK)	X	
89	SPARE (TO BE PROVIDED BLANK)		X
90	SPARE (TO BE PROVIDED BLANK)		X
91	SPARE (TO BE PROVIDED BLANK)		X
92	SPARE (TO BE PROVIDED BLANK)		X

Q.TY 92, ITEM 20: 2JBXXGPEE, ELEJB02

Explosion Proof
Electrical Equipment
Materiali Elettrici Antideflagranti

TECHNOR ITALSMEA
A COMPANY OF MARECHAL ELECTRIC

CROSSWIND

ROSETTI MARINO

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
05	20/12/24	FB	OB	OB	ACCEPTED FOR CONSTRUCTION (AFC)
04	26/11/24	FB	OB	OB	ACCEPTED FOR CONSTRUCTION (AFC)
03	25/10/24	FB	OB	OB	ACCEPTED FOR CONSTRUCTION (AFC)
02	12/09/24	FB	OB	OB	ACCEPTED FOR CONSTRUCTION (AFC)
01	03/09/24	FB	OB	OB	ACCEPTED FOR CONSTRUCTION (AFC)
00	30/07/24	FB	OB	OB	ISSUE FOR REVIEW (IFR)

TITLE : BASE LOAD POWER HUB (BLPH)

Junction Box for Normal & Emergency Lighting–Tag List

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE : NTS

A3

DRAWING NO. 1724001481-EL-DA-00003

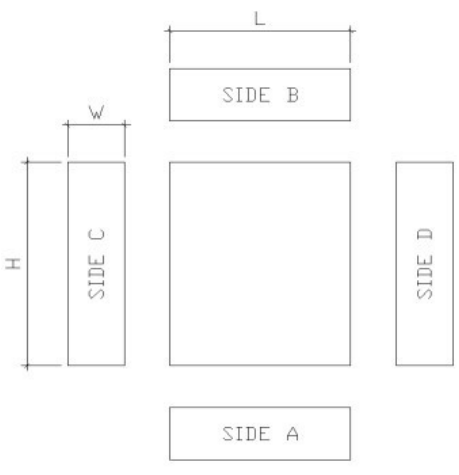
SHEET 005

REV. 05

F.to UNI A3: 420mmx297mm

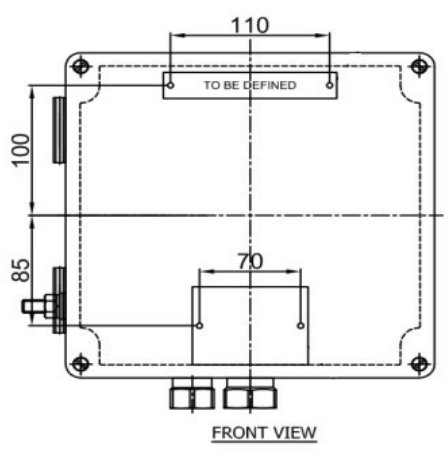
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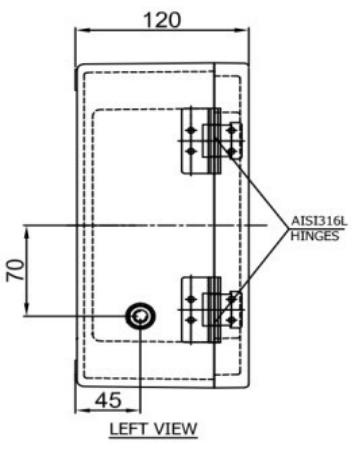
Row	Data Sheet for Control Stations, Junction Boxes and Sockets				Rev.
1	Junction Box for Normal & Emergency Lighting (Exdb)				
2	Item	Required	Manufacturer Proposal	Comments	
3	Model Number	by Vendor	AQ-252612P		01
4	Serial Number	by Vendor	B011041010004		01
5	Quantity	43+5(spare)		(39+9 spare)	01
6	Appkication	Lighting pole JB/Lighting JB			00
7	**Installation area**				
8	Indoor/Outdoor	Outdoor			00
9	Safe Area/Hazardous Area	Hazardous area			00
10	Zone 1/Zone 2	Zone-1			00
11	Temp. Class	Zone 1 Gas Group IIC (or) IIB + H2, T1	Ex eb IIC, T6 Gb		01
12	**Electrical input data**				
13	Voltage	230 V ac	230 V ac		01
14	Number of Phases	1ph + N + PE			00
15	**Material**				
16	Body	GRP	GRP		01
17	Execution	Ex eb	Ex eb		00
18	Protection Degree	IP56	IP 66		01
19	**Accessories**				
20	Hinged Cover	Required	AISI316L Hinges		01
21	Gasket	Required			00
22	Removable Gland Plates	Required	Brass Continuity plate 0.8mm thick		01
23	Internal Mounting Plate	Thickness 3mm threaded		connected to Internal ground bar	00
24	Internal Ground Bar	Required		connected to earth stud	00
25	Earth Stud	Required			00
26	Drainage Valve	Required			00
27	Pad lockable Cover	Required			00
28	Identification Label	Trafolite/ Stainless Steel	Laminated Plastic	for all label	01
29	**Side 'A'**				
30	Hubs Qty.	5	5		01
31	Size	No.3 M25, No.2 M20	No.3 Ø 25.2 mm, No.2 Ø 20.2 mm		01
32	Thread	ISO-M			00
33	Plug	No. 1 M20, No.1 M25	No. 1 Ø 20.2 mm, No.1 Ø 25.2 mm	nickel-plated brass	01
34	**Side 'B'**				
35	Hubs Qty.	Not Required			00
36	Size	NA			00
37	Thread	NA			00
38	**Side 'C'**				
39	Hubs Qty.	Not Required			00
40	Size	NA			00
41	Thread	NA			00
42	**Side 'D'**				
43	Hubs Qty.	Not Required			00
44	Size	NA			00
45	Thread	NA			00
46	**Terminals**				
47	Size [mm^2]	Suitable for 6 Sq.mm & 2.5 Sq.mm Cable	M25 & M20	suitable with wire-end ferrules DIN 46228	01
48	Qty.	n°5 for Ph // n°5 for N // n°5 for PE	n°5 for Ph // n°5 for N // n°5 for PE	Ex - jumpered	01
49	**Bonding Cable (yellow/Green)**				
50	Size [mm^2]	by vendor		6 mm^2	01
51	Qty.	Min. 0.15m			00
52	**Dimension**				
53	Height 'H' [mm]	by vendor	120 mm		01
54	Width 'W' [mm]	by vendor	250 mm		01
55	Length 'L' [mm]	by vendor	255 mm		01
56	Weight [Kg]	by vendor	2.65 Kg		01
57	JB Code (*)	Remarks			
58					



NOTES:

(*) Filled by Vendor





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Tag Number	Tag Description	Location	P.O.	Vendor	Manufacturer	Serial Number	Model Type Catalogue Number	Installation Zone	ATEX Certificate Number	Reference Document	ATEX Certification Marking	Notes / Comments	Skid / Package	Electrical Equip.	Barrier Calculation Ref.	Special Conditions of Safe Use Applicable	3D Location
CB-200F4B	AC UPS F&G - Battery Isolator-B	CONTAINER B-300 (LOWER DECK)	1724000372	3W Power	Cortem Spa		EJBC	Zone 1	EPT 20 ATEX 4075X	1724000372-EL-DG-00011	II 2GDEx db IIC T6 Gb Ex tb IIIC T 85°C Db	-	N/A	True	N/A	False	
EAT-200N1-01	Trace Heating - Remote Ambient Thermostat	LOWER DECK	1724001647	nVent	nVent	1244-022663	ETS-05-A2-E-A	Zone 1	Baseefa 13ATEX0137	1724001647-EL-DD-00004	II 2(1)G Ex eb ia mb [ia Ga] IIC T5 Gb - 40ºC ≤ Ta ≤ +60ºC II 2D Ex tb IIIC T100ºC Db	-	N/A	True	N/A	False	
EHT-1001-A	Self-regulating heat cable	LOWER DECK	1724001647	nVent	nVent	469145-000	3BTV2-CT	Zone 1	SGS20ATEX0048X	1724001647-EL-DD-00004	II 2 GD Ex 60079-30-1 eb IIC T6 Gb	-	N/A	True	N/A	True	
EHT-1002-A	Self-regulating heat cable	LOWER DECK	1724001647	nVent	nVent	469145-000	3BTV2-CT	Zone 1	SGS20ATEX0048X	1724001647-EL-DD-00004	II 2 GD Ex 60079-30-1 eb IIC T6 Gb	-	N/A	True	N/A	True	
EHT-1003-A	Self-regulating heat cable	LOWER DECK	1724001647	nVent	nVent	469145-000	3BTV2-CT	Zone 1	SGS20ATEX0048X	1724001647-EL-DD-00004	II 2 GD Ex 60079-30-1 eb IIC T6 Gb	-	N/A	True	N/A	True	
EHT-1004-A	Self-regulating heat cable	UPPER DECK	1724001647	nVent	nVent	469145-000	3BTV2-CT	Zone 1	SGS20ATEX0048X	1724001647-EL-DD-00004	II 2 GD Ex 60079-30-1 eb IIC T6 Gb	-	N/A	True	N/A	True	
EHT-1004-B	Self-regulating heat cable	UPPER DECK	1724001647	nVent	nVent	469145-000	3BTV2-CT	Zone 1	SGS20ATEX0048X	1724001647-EL-DD-00004	II 2 GD Ex 60079-30-1 eb IIC T6 Gb	-	N/A	True	N/A	True	
EHT-1005-A	Self-regulating heat cable	UPPER DECK	1724001647	nVent	nVent	469145-000	3BTV2-CT	Zone 1	SGS20ATEX0048X	1724001647-EL-DD-00004	II 2 GD Ex 60079-30-1 eb IIC T6 Gb	-	N/A	True	N/A	True	
EHT-1006-A	Self-regulating heat cable	UPPER DECK	1724001647	nVent	nVent	469145-000	3BTV2-CT	Zone 1	SGS20ATEX0048X	1724001647-EL-DD-00004	II 2 GD Ex 60079-30-1 eb IIC T6 Gb	-	N/A	True	N/A	True	
EHT-1007-A	Self-regulating heat cable	LOWER DECK	1724001647	nVent	nVent	469145-000	3BTV2-CT	Zone 1	SGS20ATEX0048X	1724001647-EL-DD-00004	II 2 GD Ex 60079-30-1 eb IIC T6 Gb	-	N/A	True	N/A	True	
EHT-2002-A	Self-regulating heat cable	UPPER DECK	1724001647	nVent	nVent	469145-000	3BTV2-CT	Zone 1	SGS20ATEX0048X	1724001647-EL-DD-00004	II 2 GD Ex 60079-30-1 eb IIC T6 Gb	-	N/A	True	N/A	True	
EJB-200F2-01	Top Obstruction Lights Junction Box	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990082	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	HAZARDOUS-AREA_8 HAZARDOUS-AREA_3
EJB-200F2-02	Intermediate obstruction lights junction box	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990083	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	HAZARDOUS-AREA_4
EJB-200N1-02-L1-01	Normal Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990045	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-02-L1-02	Normal Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990044	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-02-L1-03	Normal Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990043	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	HAZARDOUS-AREA_3
EJB-200N1-02-L1-05	Normal Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990058	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-02-L1-06	Normal Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990057	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-02-L1-07	Normal Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990059	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-02-L1-08	Normal Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990060	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-02-L1-09	Normal Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990061	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-02-L1-10	Normal Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990047	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-02-L1-11	Normal Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990056	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-02-L1-12	Normal Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990055	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-02-L1-13	Normal Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990054	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-02-L1-14	Normal Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990053	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-02-L1-15	Normal Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990052	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-02-L1-16	Normal Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990051	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-02-L1-17	Normal Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990050	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-02-L1-18	Normal Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990049	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-02-L1-19	Normal Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990048	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-02-L1-20	Normal Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990072	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-03-L2-01	Normal Lighting JB	LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990003	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-03-L2-02	Normal Lighting JB	LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990004	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-03-L2-03	Normal Lighting JB	LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990002	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-03-L2-04	Normal Lighting JB	LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990001	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-03-L2-05	Normal Lighting JB	LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990012	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-03-L2-06	Normal Lighting JB	LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990011	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-03-L2-07	Normal Lighting JB	LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990010	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-03-L2-08	Normal Lighting JB	LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990009	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-03-L2-09	Normal Lighting JB	LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990008	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-03-L2-10	Normal Lighting JB	LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990007	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-03-L2-11	Normal Lighting JB	LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990006	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-03-L2-12	Normal Lighting JB	LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990005	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-03-L2-13	Normal Lighting JB	LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990014	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-03-L2-14	Normal Lighting JB	LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990013	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-04-L3-01	Stair Normal Lighting JB	LOWER DECK STAIRS	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990032	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-04-L3-02	Stair Normal Lighting JB	LOWER DECK STAIRS	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990033	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-08-L1-01	Emergency Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990064	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-08-L1-03	Emergency Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990062	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	HAZARDOUS-AREA_3
EJB-200N1-08-L1-04	Emergency Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990065	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-08-L1-05	Emergency Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990077	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-08-L1-06	Emergency Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990078	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	

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[1] # EU – TYPE EXAMINATION CERTIFICATE

[2] Equipment or Protective Systems Intended for use in Potentially Explosive Atmospheres Directive 2014/34/EU.

[3] EU-Type Examination Certificate Number: **FIDI 21 ATEX 0090X** Issue: **1**

[4] Product: **Junction boxes, local control stations and local control panels**

Type: **AQ-***P / AQ-***AL / AR-***P / AR-***AL**
AQ-*P-HT / AQ-***AL-HT / AR-***P-HT / AR-***AL-HT**
SB-* / ST-***
EFE-* / EFXE-*** AL / EFXE-***SB / EFXE-***ST**
EFE-*-HT / EFXE-***AL-HT**

[5] Manufacturer: **Technor Italsmea S.p.A.**

[6] Address: **Via Italia 33, 20060 Gessate (MI), Italy**

[7] This product and any acceptable variation thereto is specified in the schedule to this certificate and documents therein referred to.

[8] FIDITAS Ltd., Notified Body number 2829 in accordance with Article 17 of Directive 2014/34/EU of the European Parliament and of the Council, dated 26 February 2014, certifies that this product has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of products intended for use in potentially explosive atmospheres given in Annex II of the Directive.

The examination and test results are recorded in confidential Report No: **FIDI 21 CR 075**

[9] Compliance with the Essential Health and Safety Requirements has been assured by compliance with:

EN IEC 60079-0:2018	**EN 60079-1:2014**	**EN IEC 60079-7:2015 / A1:2018**
EN 60079-11:2012	**EN 60079-18:2015/A1:2017**	**EN 60079-31:2014**

except in respect of those requirements listed at item 18 of the Schedule.

[10] If the sign 'X' is placed after the certificate number, it indicates that the product is subject to Specific Conditions of Use specified in the schedule to this certificate.

[11] This EU-Type Examination Certificate relates only to the design, examination and test of the specified product in accordance with Annex III. Further requirements of the Directive apply to the manufacturing process and supply of this products. These are not covered by this certificate.

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[12] The marking of the product shall include the following:



II 1 G	**Ex ia IIC/IIB T6...T4 Ga**(2) or
II 2(1) G or **II 2(2) G**	**Ex db eb ia/ib mb [**(3)**] IIC/IIB T6...T4 Gb**(1) or
II 2 G	**Ex eb IIC/IIB T6...T4 Gb**(1) or
II 2 D	**Ex tb IIIC T85°C...T135°C Db**

(1) Others type of protection additional to 'eb' depending to the components actually mounted.

(2) In case of enclosures containing 'eb' terminals and/or 'ia Ga' already certified components (with compatible marking) only.

(3) Associated equipment protection depending on the components actually mounted (see lists): e.g. [ia/ib/ia Ga/ia IIIC Da] and/or [ia IIIC Da] or [ia/ib/ia Ga/ia IIIC Da] and/or [ia/ib/ia Ga] [ia IIIC Da]

Our ref.: 21.CRT.400

Date: 23. 12.2021.

Fiditas d.o.o. ZAGREB

FIDITAS Ltd.
Certification department
Approved:

Marino Kelava, M.E.Eng.

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[13] **SCHEDULE**

[14] **EU - TYPE EXAMINATION CERTIFICATE No.:** **FIDI 21 ATEX 0090X**

[15] **Description of product**

Junction boxes, local control stations and local control panels are made of 'eb' and 'tb' enclosures in stainless steel, aluminium alloy or glass fiber reinforced polyester resin, of various dimensions, which shall house 'eb' and/or 'ia/ib' terminals and/or Ex components or Ex equipment made in different type of Ex protection. All Ex terminals, Ex components and Ex equipment are covered by their own ATEX certificates.

The terminals and components are be used according to data available in related component certificates, in relevant temperature range, voltage and current limitations. The terminals must be fitted in accordance with EN IEC 60079-0 and EN IEC 60079-7 with regards to creepage and clearance distances, and according to related safety instructions.

The cover is fixed to the body with screw, between body and cover a gasket guarantee the protection degree IP66 (IP66/67 depending on models). The cover of stainless-steel enclosure can be also fixed the body with looking devices, between body and cover a gasket guarantee the protection degree IP66. The IP degree of junction boxes, local control stations and local control panels depend on the components actually mounted. The walls and the bottom of the boxes can be drilled and taped with maximum size and maximum number of holes as specified in the manufacturer documents.

The cable glands or plugs, with separate ATEX certificate, made in type of protection 'eb' and/or 'tb' with appropriate IP protection are mounted according to related manufacturer's installation instructions. Each enclosure is provided with internal earthing certified terminal or earthing screw or bolt. Metal enclosures are provided by external earthing screw or bolt. Metal and polyester enclosures can be provided by passing through earthing terminals.

All enclosures can be provided by:
- Externally installed accessories as specified in manufacturer documents,
- Drain breath device type ECR3, included in this certificate,
- Internal/external earthing plate.

Model identification

Junction boxes

A(1)-(2) (3) (4) (5) (6)	(1) –	**Q**: Square size **R**: Rectangular size
	(2) (3) (4)	dimension, in cm
	(5)	Material **P**: Glass fiber reinforced polyester resin **AL**: Aluminium Alloy
	(6)	None: up to internal temperature of 105°C **HT**: up to internal temperature of 130°C
SB- (2) (3) (4)	(2) (3) (4)	dimension, in cm
ST- (2) (3) (4)	(2) (3) (4)	dimension, in cm

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Panel boards

EFE- (2) (3) (4) (6)	(2) (3) (4)	dimension, in cm
	(6)	None: up to internal temperature of 105°C **HT**: up to internal temperature of 130°C
EFXE- (2) (3) (4) (5) (6)	(2) (3) (4)	dimension, in cm
		Material
	(5)	**SB** or **ST**: stainless steel **AL**: Aluminium Alloy
	(6)	None: up to internal temperature of 105°C **HT**: up to internal temperature of 130°C

Technical data:

Electrical data:	According to Ex component to actually installed
Ambient temperature:	-50°C ÷ +95°C Other possible ranges are with: - min temperature: -50°C to -20 °C - max temperature of +40 °C to +95 °C
Mechanical protection:	IP66/IP67 depending on models IP66 without swing handle element IP55 with swing handle element

Temperature class and/or maximum surface temperature of any junction box or control panel depend on ambient temperature and internal power dissipation. The values that must be observed are given in relevant tables in this certificate.

For commercial reasons model name listed in the tables below can be modified as follows: first (2) and second (3) pair of digits can be reversed.

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Model sizes

Polyester High Temperature		Aluminium High Temperature	
AQ-080806P-HT	EFE-080806-HT	AQ-080806AL-HT	EFXE-080806AL-HT
AQ-080808P-HT	EFE-080808-HT	AR-081306AL-HT	EFXE-081306AL-HT
AR-081106P-HT	EFE-081106-HT	AR-081806AL-HT	EFXE-081806AL-HT
AR-081108P-HT	EFE-081108-HT	AR-082505AL-HT	EFXE-082505AL-HT
AR-081606P-HT	EFE-081606-HT	AQ-101008AL-HT	EFXE-101008AL-HT
AR-081608P-HT	EFE-081608-HT	AR-101608AL-HT	EFXE-101608AL-HT
AR-081906P-HT	EFE-081906-HT	AR-102008AL-HT	EFXE-102008AL-HT
AR-081908P-HT	EFE-081908-HT	AQ-121208AL-HT	EFXE-121208AL-HT
AR-082306P-HT	EFE-082306-HT	AQ-121209AL-HT	EFXE-121209AL-HT
AR-082308P-HT	EFE-082308-HT	AR-122208AL-HT	EFXE-122208AL-HT
AQ-121209P-HT	EFE-121209-HT	AR-122209AL-HT	EFXE-122209AL-HT
AR-122209P-HT	EFE-122209-HT	AR-123608AL-HT	EFXE-123608AL-HT
AQ-161609P-HT	EFE-161609-HT	AQ-141409AL-HT	EFXE-141409AL-HT
AR-162609P-HT	EFE-162609-HT	AR-142009AL-HT	EFXE-142009AL-HT
AR-163609P-HT	EFE-163609-HT	AQ-161609AL-HT	EFXE-161609AL-HT
AR-165609P-HT	EFE-165609-HT	AR-162609AL-HT	EFXE-162609AL-HT
AQ-202017P-HT	EFE-202017-HT	AR-163609AL-HT	EFXE-163609AL-HT
AR-203017P-HT	EFE-203017-HT	AR-165609AL-HT	EFXE-165609AL-HT
AQ-252612P-HT	EFE-252612-HT	AQ-181810AL-HT	EFXE-181810AL-HT
AQ-252616P-HT	EFE-252616-HT	AR-182810AL-HT	EFXE-182810AL-HT
AR-254012P-HT	EFE-254012-HT	AR-102311AL-HT	EFXE-102311AL-HT
AR-254016P-HT	EFE-254016-HT	AR-202311AL-HT	EFXE-202311AL-HT
AR-256012P-HT	EFE-256012-HT	AR-202318AL-HT	EFXE-202318AL-HT
AR-304020P-HT	EFE-304020-HT	AR-232811AL-HT	EFXE-232811AL-HT
AQ-363609P-HT	EFE-363609-HT	AR-233311AL-HT	EFXE-233311AL-HT
AR-406025P-HT	EFE-406025-HT	AR-233318AL-HT	EFXE-233318AL-HT
AQ-414012P-HT	EFE-414012-HT	AR-234011AL-HT	EFXE-234011AL-HT
AQ-414020P-HT	EFE-414020-HT	AR-234023AL-HT	EFXE-234023AL-HT
		AR-236011AL-HT	EFXE-236011AL-HT
		AR-314011AL-HT	EFXE-314011AL-HT
		AR-314014AL-HT	EFXE-314014AL-HT
		AR-314018AL-HT	EFXE-314018AL-HT
		AR-314023AL-HT	EFXE-314023AL-HT
		AR-316011AL-HT	EFXE-316011AL-HT
		AR-316018AL-HT	EFXE-316018AL-HT
		AQ-606020AL-HT	EFXE-606020AL-HT

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Polyester		Aluminium		Stainless steel	
AQ-080806P	EFE-080806	AQ-080806AL	EFXE-080806AL	SB-101210	EFXE-101210SB
AQ-080808P	EFE-080808	AR-081306AL	EFXE-081306AL	SB-151510	EFXE-151510SB
AR-081106P	EFE-081106	AR-081806AL	EFXE-081806AL	SB-142013	EFXE-142013SB
AR-081606P	EFE-081606	AR-081808AL	EFXE-081808AL	SB-202010	EFXE-202010SB
AR-081906P	EFE-081906	AR-082505AL	EFXE-082505AL	SB-202016	EFXE-202016SB
AQ-121209P	EFE-121209	AR-082508AL	EFXE-082508AL	SB-202713	EFXE-202713SB
AR-122209P	EFE-122209	AQ-101008AL	EFXE-101008AL	SB-272713	EFXE-272713SB
AQ-161609P	EFE-161609	AR-101508AL	EFXE-101508AL	SB-203016	EFXE-203016SB
AR-162609P	EFE-162609	AR-101608AL	EFXE-101608AL	SB-273513	EFXE-273513SB
AR-163609P	EFE-163609	AR-102008AL	EFXE-102008AL	SB-282816	EFXE-282816SB
AQ-252612P	EFE-252612	AQ-121208AL	EFXE-121208AL	SB-204016	EFXE-204016SB
AQ-252616P	EFE-252616	AR-122209AL	EFXE-122209AL	SB-353516	EFXE-353516SB
AR-254012P	EFE-254012	AQ-141409AL	EFXE-141409AL	SB-282827	EFXE-282827SB
AR-254016P	EFE-254016	AR-142009AL	EFXE-142009AL	SB-355016	EFXE-355016SB
AR-256012P	EFE-256012	AQ-161609AL	EFXE-161609AL	SB-383816	EFXE-383816SB
AQ-414012P	EFE-414012	AR-162410AL	EFXE-162410AL	SB-384516	EFXE-384516SB
		AR-162609AL	EFXE-162609AL	SB-385716	EFXE-385716SB
		AQ-181810AL	EFXE-181810AL	SB-505016	EFXE-505016SB
		AR-182810AL	EFXE-182810AL	SB-383827	EFXE-383827SB
		AR-202311AL	EFXE-202311AL	SB-575716	EFXE-575716SB
		AR-202318AL	EFXE-202318AL	SB-577620	EFXE-577620SB
		AR-232811AL	EFXE-232811AL	SB-575730	EFXE-575730SB
		AR-233312AL	EFXE-233312AL	SB-769520	EFXE-769520SB
		AR-233318AL	EFXE-233318AL	SB-1258040	EFXE-1258040SB

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Enclosure types (Stainless steel)	
ST-101210	EFXE-101210ST
ST-151510	EFXE-151510ST
ST-142013	EFXE-142013ST
ST-202010	EFXE-202010ST
ST-202016	EFXE-202016ST
ST-202713	EFXE-202713ST
ST-272713	EFXE-272713ST
ST-203016	EFXE-203016ST
ST-273513	EFXE-273513ST
ST-282816	EFXE-282816ST
ST-204016	EFXE-204016ST
ST-353516	EFXE-353516ST
ST-282827	EFXE-282827ST
ST-355016	EFXE-355016ST
ST-383816	EFXE-383816ST
ST-384516	EFXE-384516ST
ST-385716	EFXE-385716ST
ST-505016	EFXE-505016ST
ST-383827	EFXE-383827ST
ST-575716	EFXE-575716ST
ST-577620	EFXE-577620ST
ST-575730	EFXE-575730ST
ST-769520	EFXE-769520ST
ST-1258040	EFXE-1258040ST

Note 2 For stainless steel enclosures: dimensions (2) and (3) can be decreased or increased up to 20%, dimensions (4) can be increased up to 500 mm. Model name changes consequently.

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Power dissipation – HT glass fiber reinforced polyester resin enclosures

Enclosure types (polyester)		Maximum power dissipation (W) – Tamb. up to **40**°C							
		INTERNAL TEMP.60°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)	INTERNAL TEMP.127°C (T4/T135°C)
AQ-080806P-HT	EFE-080806-HT	3,5	5,2	7,0	7,8	9,6	10,4	11,3	15,2
AQ-080808P-HT	EFE-080808-HT	4,6	6,8	9,1	10,2	12,5	13,7	14,8	19,8
AR-081106P-HT	EFE-081106-HT	4,3	6,4	8,5	9,6	11,8	12,8	13,9	18,6
AR-081108P-HT	EFE-081108-HT	5,6	8,4	11,2	12,6	15,3	16,7	18,1	24,2
AR-081606P-HT	EFE-081606-HT	5,8	8,7	11,6	13,0	15,9	17,4	18,8	25.2
AR-081608P-HT	EFE-081608-HT	6,8	10,2	13,7	15,4	18,8	20,5	22,2	29,7
AR-081906P-HT	EFE-081906-HT	6,4	9,6	12,8	14,4	17,6	19,2	20,8	27,8
AR-081908P-HT	EFE-081908-HT	7,5	11,3	15,1	17,0	20,7	22,6	24,5	32,7
AR-082306P-HT	EFE-082306-HT	7,2	10,8	14,4	16,2	19,8	21,6	23,4	31,3
AR-082308P-HT	EFE-082308-HT	8,5	12,7	16,9	19,0	23,3	25,4	27,5	36,7
AQ-121209P-HT	EFE-121209-HT	8,0	12,0	15,9	17,9	21,9	23,9	25,9	34,7
AR-122209P-HT	EFE-122209-HT	10,8	16,2	21,6	24,3	29,7	32,4	35,1	47,0
AQ-161609P-HT	EFE-161609-HT	10,4	15,6	20,8	23,4	28,6	31,2	33,8	45,2
AR-162609P-HT	EFE-162609-HT	13,4	20,1	26,8	30,2	36,9	40,2	43,6	58,3
AR-163609P-HT	EFE-163609-HT	16,2	24,3	32,4	36,5	44,6	48,6	52,7	70,5
AR-165609P-HT	EFE-165609-HT	21,4	32,0	42,7	48,1	58,7	64,1	69,4	92,9
AQ-202017P-HT	EFE-202017-HT	18,0	26,9	35,9	40,4	49,4	53,9	58,4	78,1
AR-203017P-HT	EFE-203017-HT	20,9	31,3	41,7	47,0	57,4	62,6	67,8	90,8
AQ-252612P-HT	EFE-252612-HT	18,8	28,2	37,6	42,4	51,8	56,5	61,2	81,9
AQ-252616P-HT	EFE-252616-HT	20,8	31,1	41,5	46,7	57,1	62,3	67,5	90,3
AR-254012P-HT	EFE-254012-HT	22,8	34,2	45,7	51,4	62,8	68,5	74,2	99,3
AR-254016P-HT	EFE-254016-HT	26,2	39,3	52,4	58,9	72,0	78,6	85,1	113,9
AR-256012P-HT	EFE-256012-HT	29,0	43,6	58,1	65,3	79,9	87,1	94,4	126,3
AR-304020P-HT	EFE-304020-HT	32,3	48,5	64,7	72,7	88,9	97,0	105,1	140,7
AQ-363609P-HT	EFE-363609-HT	23,0	34,6	46,1	51,8	63,4	69,1	74,9	100,2
AR-406025P-HT	EFE-406025-HT	50,3	75,5	100,7	113,3	138,4	151,0	163,6	218,9
AQ-414012P-HT	EFE-414012-HT	29,1	43,7	58,2	65,5	80,1	87,3	94,6	126,6
AQ-414020P-HT	EFE-414020-HT	36,6	55,0	73,3	82,4	100,8	109,9	119,1	159,4

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Enclosure types (polyester)		Maximum power dissipation (W) – Tamb. up to **50**°C							
		INTERNAL TEMP.60°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)	INTERNAL TEMP.127°C (T4/T135°C)
AQ-080806P-HT	EFE-080806-HT	1,7	3,5	5,2	6,1	7,8	8,7	9,6	13,4
AQ-080808P-HT	EFE-080808-HT	2,3	4,6	6,8	8,0	10,2	11,4	12,5	17,5
AR-081106P-HT	EFE-081106-HT	2,1	4,3	6,4	7,5	9,6	10,7	11,8	16,5
AR-081108P-HT	EFE-081108-HT	2,8	5,6	8,4	9,8	12,6	13,9	15,3	21.5
AR-081606P-HT	EFE-081606-HT	2,9	5,8	8,7	10,1	13,0	14,5	15,9	22,3
AR-081608P-HT	EFE-081608-HT	3,4	6,8	10,2	11,9	15,4	17,1	18,8	26,3
AR-081906P-HT	EFE-081906-HT	3,2	6,4	9,6	11,2	14,4	16,0	17,6	24,6
AR-081908P-HT	EFE-081908-HT	3,8	7,5	11,3	13,2	17,0	18,8	20,7	29,0
AR-082306P-HT	EFE-082306-HT	3,6	7,2	10,8	12,6	16,2	18,0	19,8	27,7
AR-082308P-HT	EFE-082308-HT	4,2	8,5	12,7	14,8	19,0	21,1	23,3	32,5
AQ-121209P-HT	EFE-121209-HT	4,0	8,0	12,0	14,0	17,9	19,9	21,9	30,7
AR-122209P-HT	EFE-122209-HT	5,4	10,8	16,2	18,9	24,3	27,0	29,7	41,6
AQ-161609P-HT	EFE-161609-HT	5,2	10,4	15,6	18,2	23,4	26,0	28,6	40,0
AR-162609P-HT	EFE-162609-HT	6,7	13,4	20,1	23,5	30,2	33,5	36,9	51,6
AR-163609P-HT	EFE-163609-HT	8,1	16,2	24,3	28,4	36,5	40,5	44,6	62,3
AR-165609P-HT	EFE-165609-HT	10,7	21,4	32,0	37,4	48,1	53,4	58,7	82,2
AQ-202017P-HT	EFE-202017-HT	9,0	18,0	26,9	31,4	40,4	44,9	49,4	69,1
AR-203017P-HT	EFE-203017-HT	10,4	20,9	31,3	36,5	47,0	52,2	57,4	80,4
AQ-252612P-HT	EFE-252612-HT	9,4	18,8	28,2	32,9	42,4	47,1	51,8	72,5
AQ-252616P-HT	EFE-252616-HT	10,4	20,8	31,1	36,3	46,7	51,9	57,1	79,9
AR-254012P-HT	EFE-254012-HT	11,4	22,8	34,2	39,9	51,4	57,1	62,8	87,9
AR-254016P-HT	EFE-254016-HT	13,1	26,2	39,3	45,8	58,9	65,5	72,0	100,8
AR-256012P-HT	EFE-256012-HT	14,5	29,0	43,6	50,8	65,3	72,6	79,9	111,8
AR-304020P-HT	EFE-304020-HT	16,2	32,3	48,5	56,6	72,7	80,8	88,9	124,4
AQ-363609P-HT	EFE-363609-HT	11,5	23,0	34,6	40,3	51,8	57,6	63,4	88,7
AR-406025P-HT	EFE-406025-HT	25,2	50,3	75,5	88,1	113,3	125,8	138,4	193,8
AQ-414012P-HT	EFE-414012-HT	14,6	29,1	43,7	51,0	65,5	72,8	80,1	112,1
AQ-414020P-HT	EFE-414020-HT	18,3	36,6	55,0	64,1	82,4	91,6	100,8	141,1

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Enclosure types (polyester)		Maximum power dissipation (W) – Tamb. up to **55**°C							
		INTERNAL TEMP.65°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)	INTERNAL TEMP.127°C (T4/T135°C)
AQ-080806P-HT	EFE-080806-HT	1,7	2,6	4,4	5,2	7,0	7,8	8,7	12,5
AQ-080808P-HT	EFE-080808-HT	2,3	3,4	5,7	6,8	9,1	10,2	11,4	16,2
AR-081106P-HT	EFE-081106-HT	2,1	3,2	5,3	6,4	8,5	9,6	10,7	15,2
AR-081108P-HT	EFE-081108-HT	2,8	4,2	7,0	8,4	11,2	12,6	13,9	19,8
AR-081606P-HT	EFE-081606-HT	2,9	4,3	7,2	8,7	11,6	13,0	14,5	20,6
AR-081608P-HT	EFE-081608-HT	3,4	5,1	8,5	10,2	13,7	15,4	17,1	24,3
AR-081906P-HT	EFE-081906-HT	3,2	4,8	8,0	9,6	12,8	14,4	16,0	22,8
AR-081908P-HT	EFE-081908-HT	3,8	5,7	9,4	11,3	15,1	17,0	18,8	26,8
AR-082306P-HT	EFE-082306-HT	3,6	5,4	9,0	10,8	14,4	16,2	18,0	25,6
AR-082308P-HT	EFE-082308-HT	4,2	6,3	10,6	12,7	16,9	19,0	21,1	30,0
AQ-121209P-HT	EFE-121209-HT	4,0	6,0	10,0	12,0	15,9	17,9	19,9	28,3
AR-122209P-HT	EFE-122209-HT	5,4	8,1	13,5	16,2	21,6	24,3	27,0	38,3
AQ-161609P-HT	EFE-161609-HT	5,2	7,8	13,0	15,6	20,8	23,4	26,0	36,9
AR-162609P-HT	EFE-162609-HT	6,7	10,1	16,8	20,1	26,8	30,2	33,5	47,6
AR-163609P-HT	EFE-163609-HT	8,1	12,2	20,3	24,3	32,4	36,5	40,5	57,5
AR-165609P-HT	EFE-165609-HT	10,7	16,0	26,7	32,0	42,7	48,1	53,4	75,8
AQ-202017P-HT	EFE-202017-HT	9,0	13,5	22,4	26,9	35,9	40,4	44,9	63,7
AR-203017P-HT	EFE-203017-HT	10,4	15,7	26,1	31,3	41,7	47,0	52,2	74,0
AQ-252612P-HT	EFE-252612-HT	9,4	14,1	23,5	28,2	37,6	42,4	47,1	66,8
AQ-252616P-HT	EFE-252616-HT	10,4	15,6	26,0	31,1	41,5	46,7	51,9	73,7
AR-254012P-HT	EFE-254012-HT	11,4	17,1	28,5	34,2	45,7	51,4	57,1	81,0
AR-254016P-HT	EFE-254016-HT	13,1	19,6	32,7	39,3	52,4	58,9	65,5	92,9
AR-256012P-HT	EFE-256012-HT	14,5	21,8	36,3	43,6	58,1	65,3	72,6	103,0
AR-304020P-HT	EFE-304020-HT	16,2	24,2	40,4	48,5	64,7	72,7	80,8	114,7
AQ-363609P-HT	EFE-363609-HT	11,5	17,3	28,8	34,6	46,1	51,8	57,6	81,8
AR-406025P-HT	EFE-406025-HT	25,2	37,8	62,9	75,5	100,7	113,3	125,8	178,6
AQ-414012P-HT	EFE-414012-HT	14,6	21,8	36,4	43,7	58,2	65,5	72,8	103,0
AQ-414020P-HT	EFE-414020-HT	18,3	27,5	45,8	55,0	73,3	82,4	91,6	130,0

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Enclosure types (polyester)		Maximum power dissipation (W) – Tamb. up to **60**°C						
		INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)	INTERNAL TEMP.127°C (T4/T135°C)
AQ-080806P-HT	EFE-080806-HT	1,7	3,5	4,4	6,1	7,0	7,8	11,7
AQ-080808P-HT	EFE-080808-HT	2,3	4,6	5,7	8,0	9,1	10,2	15,2
AR-081106P-HT	EFE-081106-HT	2,1	4,3	5,3	7,5	8,5	9,6	14,3
AR-081108P-HT	EFE-081108-HT	2,8	5,6	7,0	9,8	11,2	12,6	18,7
AR-081606P-HT	EFE-081606-HT	2,9	5,8	7,2	10,1	11,6	13,0	19,4
AR-081608P-HT	EFE-081608-HT	3,4	6,8	8,5	11,9	13,7	15,4	22,9
AR-081906P-HT	EFE-081906-HT	3,2	6,4	8,0	11,2	12,8	14,4	21,4
AR-081908P-HT	EFE-081908-HT	3,8	7,5	9,4	13,2	15,1	17,0	25,3
AR-082306P-HT	EFE-082306-HT	3,6	7,2	9,0	12,6	14,4	16,2	24,1
AR-082308P-HT	EFE-082308-HT	4,2	8,5	10,6	14,8	16,9	19,0	28,3
AQ-121209P-HT	EFE-121209-HT	4,0	8,0	10,0	14,0	15,9	17,9	26,7
AR-122209P-HT	EFE-122209-HT	5,4	10,8	13,5	18,9	21,6	24,3	36,2
AQ-161609P-HT	EFE-161609-HT	5,2	10,4	13,0	18,2	20,8	23,4	34,8
AR-162609P-HT	EFE-162609-HT	6,7	13,4	16,8	23,5	26,8	30,2	44,9
AR-163609P-HT	EFE-163609-HT	8,1	16,2	20,3	28,4	32,4	36,5	54,2
AR-165609P-HT	EFE-165609-HT	10,7	21,4	26,7	37,4	42,7	48,1	71,5
AQ-202017P-HT	EFE-202017-HT	9,0	18,0	22,4	31,4	35,9	40,4	60,1
AR-203017P-HT	EFE-203017-HT	10,4	20,9	26,1	36,5	41,7	47,0	69,9
AQ-252612P-HT	EFE-252612-HT	9,4	18,8	23,5	32,9	37,6	42,4	63,0
AQ-252616P-HT	EFE-252616-HT	10,4	20,8	26,0	36,3	41,5	46,7	69,5
AR-254012P-HT	EFE-254012-HT	11,4	22,8	28,5	39,9	45,7	51,4	76,5
AR-254016P-HT	EFE-254016-HT	13,1	26,2	32,7	45,8	52,4	58,9	87,7
AR-256012P-HT	EFE-256012-HT	14,5	29,0	36,3	50,8	58,1	65,3	97,2
AR-304020P-HT	EFE-304020-HT	16,2	32,3	40,4	56,6	64,7	72,7	108,3
AQ-363609P-HT	EFE-363609-HT	11,5	23,0	28,8	40,3	46,1	51,8	77,1
AR-406025P-HT	EFE-406025-HT	25,2	50,3	62,9	88,1	100,7	113,3	168,7
AQ-414012P-HT	EFE-414012-HT	14,6	29,1	36,4	51,0	58,2	65,5	97,5
AQ-414020P-HT	EFE-414020-HT	18,3	36,6	45,8	64,1	73,3	82,4	122,7

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Enclosure types (polyester)		Maximum power dissipation (W) Tamb. up to **95**°C		
		INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)	INTERNAL TEMP.127°C (T4/T135°C)
AQ-080806P-HT	EFE-080806-HT	0,9	1,7	5,6
AQ-080808P-HT	EFE-080808-HT	1,1	2,3	7,3
AR-081106P-HT	EFE-081106-HT	1,1	2,1	6,5
AR-081108P-HT	EFE-081108-HT	1,4	2,8	9,0
AR-081606P-HT	EFE-081606-HT	1,4	2,9	9,2
AR-081608P-HT	EFE-081608-HT	1,7	3,4	10,9
AR-081906P-HT	EFE-081906-HT	1,6	3,2	10,2
AR-081908P-HT	EFE-081908-HT	1,9	3,8	12,1
AR-082306P-HT	EFE-082306-HT	1,8	3,6	11,5
AR-082308P-HT	EFE-082308-HT	2,1	4,2	13,5
AQ-121209P-HT	EFE-121209-HT	2,0	4,0	12,8
AR-122209P-HT	EFE-122209-HT	2,7	5,4	17,3
AQ-161609P-HT	EFE-161609-HT	2,6	5,2	16,6
AR-162609P-HT	EFE-162609-HT	3,4	6,7	21,5
AR-163609P-HT	EFE-163609-HT	4,1	8,1	26,0
AR-165609P-HT	EFE-165609-HT	5,3	10,7	34,2
AQ-202017P-HT	EFE-202017-HT	4,5	9,0	28,7
AR-203017P-HT	EFE-203017-HT	5,2	10,4	33,4
AQ-252612P-HT	EFE-252612-HT	4,7	9,4	30,1
AQ-252616P-HT	EFE-252616-HT	5,2	10,4	33,2
AR-254012P-HT	EFE-254012-HT	5,7	11,4	36,5
AR-254016P-HT	EFE-254016-HT	6,5	13,1	41,9
AR-256012P-HT	EFE-256012-HT	7,3	14,5	46,4
AR-304020P-HT	EFE-304020-HT	8,1	16,2	51,8
AQ-363609P-HT	EFE-363609-HT	5,8	11,5	36,8
AR-406025P-HT	EFE-406025-HT	12,6	25,2	80,6
AQ-414012P-HT	EFE-414012-HT	7,3	14,6	46,6
AQ-414020P-HT	EFE-414020-HT	9,2	18,3	58,6

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Power dissipation – HT aluminum alloy enclosures

Enclosure types (aluminium)		Maximum power dissipation (W) – Tamb. up to **40**°C							
		INTERNAL TEMP.60°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)	INTERNAL TEMP.130°C (T4/T135°C)
AQ-080806AL-HT	EFXE-080806AL-HT	5,2	7,8	10,4	11,7	14,3	15,6	16,9	23,4
AR-081306AL-HT	EFXE-081306AL-HT	7,0	10,6	14,1	15,9	19,4	21,2	23,0	31,8
AR-081806AL-HT	EFXE-081806AL-HT	8,9	13,3	17,8	20,0	24,5	26,7	28,9	40,0
AR-082505AL-HT	EFXE-082505AL-HT	10,9	16,4	21,9	24,7	30,1	32,9	35,6	49,4
AQ-101008AL-HT	EFXE-101008AL-HT	8,7	13,0	17,4	19,6	23,9	26,1	28,3	39,2
AR-101608AL-HT	EFXE-101608AL-HT	11,5	17,3	23,1	26,0	31,8	34,7	37,6	52,0
AR-102008AL-HT	EFXE-102008AL-HT	13,4	20,1	26,8	30,2	36,9	40,3	43,6	60,4
AQ-121208AL-HT	EFXE-121208AL-HT	10,8	16,2	21,6	24,3	29,7	32,4	35,1	48,6
AQ-121209AL-HT	EFXE-121209AL-HT	11,6	17,5	23,3	26,2	32,1	35,0	37,9	52,5
AR-122208AL-HT	EFXE-122208AL-HT	15,6	23,5	31,3	35,3	43,1	47,0	50,9	70,6
AR-122209AL-HT	EFXE-122209AL-HT	16,8	25,3	33,7	37,9	46,3	50,6	54,8	75,9
AR-123608AL-HT	EFXE-123608AL-HT	22,3	33,5	44,7	50,3	61,5	67,1	72,7	100,7
AQ-141409AL-HT	EFXE-141409AL-HT	13,7	20,6	27,5	31,0	37,9	41,3	44,8	62,0
AR-142009AL-HT	EFXE-142009AL-HT	17,1	25,7	34,2	38,5	47,1	51,4	55,7	77,1
AQ-161609AL-HT	EFXE-161609AL-HT	16,1	24,1	32,2	36,2	44,2	48,3	52,3	72,4
AR-162609AL-HT	EFXE-162609AL-HT	21,9	32,8	43,8	49,3	60,2	65,7	71,2	98,6
AR-163609AL-HT	EFXE-163609AL-HT	27,5	41,3	55,1	62,0	75,7	82,6	89,5	124,0
AR-165609AL-HT	EFXE-165609AL-HT	38,4	57,7	76,9	86,6	105,8	115,4	125,0	173,2
AQ-181810AL-HT	EFXE-181810AL-HT	19,7	29,6	39,5	44,4	54,3	59,2	64,2	88,8
AR-182810AL-HT	EFXE-182810AL-HT	26,1	39,1	52,2	58,7	71,8	78,3	84,8	117,5
AR-102311AL-HT	EFXE-102311AL-HT	18,2	27,3	36,5	41,0	50,1	54,7	59,3	82,1
AR-202311AL-HT	EFXE-202311AL-HT	26,1	39,1	52,2	58,7	71,7	78,3	84,8	117,4
AR-202318AL-HT	EFXE-202318AL-HT	35,9	53,9	71,8	80,8	98,8	107,8	116,8	161,7
AR-232811AL-HT	EFXE-232811AL-HT	31,6	47,5	63,3	71,3	87,1	95,0	103,0	142,6
AR-233311AL-HT	EFXE-233311AL-HT	35,3	52,9	70,6	79,4	97,0	105,9	114,7	158,8
AR-233318AL-HT	EFXE-233318AL-HT	47,5	71,3	95,1	107,0	130,8	142,7	154,6	214,1
AR-234011AL-HT	EFXE-234011AL-HT	40,2	60,4	80,5	90,6	110,7	120,8	130,9	181,2
AR-234023AL-HT	EFXE-234023AL-HT	62,2	93,3	124,5	140,0	171,2	186,7	202,3	280,1
AR-236011AL-HT	EFXE-236011AL-HT	54,1	81,2	108,3	121,9	148,9	162,5	176,0	243,8
AR-314011AL-HT	EFXE-314011AL-HT	48,6	72,9	97,2	109,3	133,6	145,8	157,9	218,7
AR-314014AL-HT	EFXE-314014AL-HT	54,9	82,4	109,9	123,7	151,2	164,9	178,7	247,4
AR-314018AL-HT	EFXE-314018AL-HT	63,8	95,7	127,6	143,5	175,4	191,4	207,3	287,1
AR-314023AL-HT	EFXE-314023AL-HT	73,5	110,3	147,1	165,5	202,3	220,7	239,1	331,0
AR-316011AL-HT	EFXE-316011AL-HT	64,0	96,0	128,1	144,1	176,1	192,1	208,1	288,2
AR-316018AL-HT	EFXE-316018AL-HT	82,7	124,1	165,5	186,2	227,6	248,3	268,9	372,4
AQ-606020AL-HT	EFXE-606020AL-HT	129,1	193,7	258,3	290,5	355,1	387,4	419,7	581,1

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Enclosure types (aluminium)		Maximum power dissipation (W) – Tamb. up to **50**°C							
		INTERNAL TEMP.60°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)	INTERNAL TEMP.130°C (T4/T135°C)
AQ-080806AL-HT	EFXE-080806AL-HT	2,6	5,2	7,8	9,1	11,7	13,0	14,3	20,8
AR-081306AL-HT	EFXE-081306AL-HT	3,5	7,0	10,6	12,3	15,9	17,7	19,4	28,3
AR-081806AL-HT	EFXE-081806AL-HT	4,4	8,9	13,3	15,5	20,0	22,2	24,5	35,6
AR-082505AL-HT	EFXE-082505AL-HT	5,4	10,9	16,4	19,2	24,7	27,4	30,1	43,9
AQ-101008AL-HT	EFXE-101008AL-HT	4,3	8,7	13,0	15,2	19,6	21,7	23,9	34,8
AR-101608AL-HT	EFXE-101608AL-HT	5,7	11,5	17,3	20,2	26,0	28,9	31,8	46,2
AR-102008AL-HT	EFXE-102008AL-HT	6,7	13,4	20,1	23,5	30,2	33,5	36,9	53,7
AQ-121208AL-HT	EFXE-121208AL-HT	5,4	10,8	16,2	18,9	24,3	27,0	29,7	43,2
AQ-121209AL-HT	EFXE-121209AL-HT	5,8	11,6	17,5	20,4	26,2	29,2	32,1	46,7
AR-122208AL-HT	EFXE-122208AL-HT	7,8	15,6	23,5	27,4	35,3	39,2	43,1	62,7
AR-122209AL-HT	EFXE-122209AL-HT	8,4	16,8	25,3	29,5	37,9	42,1	46,3	67,4
AR-123608AL-HT	EFXE-123608AL-HT	11,1	22,3	33,5	39,1	50,3	55,9	61,5	89,5
AQ-141409AL-HT	EFXE-141409AL-HT	6,8	13,7	20,6	24,1	31,0	34,4	37,9	55,1
AR-142009AL-HT	EFXE-142009AL-HT	8,5	17,1	25,7	30,0	38,5	42,8	47,1	68,5
AQ-161609AL-HT	EFXE-161609AL-HT	8,0	16,1	24,1	28,1	36,2	40,2	44,2	64,4
AR-162609AL-HT	EFXE-162609AL-HT	10,9	21,9	32,8	38,3	49,3	54,8	60,2	87,6
AR-163609AL-HT	EFXE-163609AL-HT	13,7	27,5	41,3	48,2	62,0	68,9	75,7	110,2
AR-165609AL-HT	EFXE-165609AL-HT	19,2	38,4	57,7	67,3	86,6	96,2	105,8	153,9
AQ-181810AL-HT	EFXE-181810AL-HT	9,8	19,7	29,6	34,5	44,4	49,3	54,3	79,0
AR-182810AL-HT	EFXE-182810AL-HT	13,0	26,1	39,1	45,7	58,7	65,2	71,8	104,4
AR-102311AL-HT	EFXE-102311AL-HT	9,1	18,2	27,3	31,9	41,0	45,6	50,1	73,0
AR-202311AL-HT	EFXE-202311AL-HT	13,0	26,1	39,1	45,6	58,7	65,2	71,7	104,4
AR-202318AL-HT	EFXE-202318AL-HT	17,9	35,9	53,9	62,8	80,8	89,8	98,8	143,7
AR-232811AL-HT	EFXE-232811AL-HT	15,8	31,6	47,5	55,4	71,3	79,2	87,1	126,7
AR-233311AL-HT	EFXE-233311AL-HT	17,6	35,3	52,9	61,7	79,4	88,2	97,0	141,2
AR-233318AL-HT	EFXE-233318AL-HT	23,7	47,5	71,3	83,2	107,0	118,9	130,8	190,3
AR-234011AL-HT	EFXE-234011AL-HT	20,1	40,2	60,4	70,5	90,6	100,7	110,7	161,1
AR-234023AL-HT	EFXE-234023AL-HT	31,1	62,2	93,3	108,9	140,0	155,6	171,2	249,0
AR-236011AL-HT	EFXE-236011AL-HT	27,0	54,1	81,2	94,8	121,9	135,4	148,9	216,7
AR-314011AL-HT	EFXE-314011AL-HT	24,3	48,6	72,9	85,0	109,3	121,5	133,6	194,4
AR-314014AL-HT	EFXE-314014AL-HT	27,4	54,9	82,4	96,2	123,7	137,4	151,2	219,9
AR-314018AL-HT	EFXE-314018AL-HT	31,9	63,8	95,7	111,6	143,5	159,5	175,4	255,2
AR-314023AL-HT	EFXE-314023AL-HT	36,7	73,5	110,3	128,7	165,5	183,9	202,3	294,2
AR-316011AL-HT	EFXE-316011AL-HT	32,0	64,0	96,0	112,0	144,1	160,1	176,1	256,2
AR-316018AL-HT	EFXE-316018AL-HT	41,3	82,7	124,1	144,8	186,2	206,9	227,6	331,0
AQ-606020AL-HT	EFXE-606020AL-HT	64,5	129,1	193,7	226,0	290,5	322,8	355,1	516,6

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Enclosure types (aluminium)		Maximum power dissipation (W) – Tamb. up to **55**°C							
		INTERNAL TEMP.65°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)	INTERNAL TEMP.130°C (T4/T135°C)
AQ-080806AL-HT	EFXE-080806AL-HT	2,6	3,9	6,5	7,8	10,4	11,7	13,0	19,5
AR-081306AL-HT	EFXE-081306AL-HT	3,5	5,3	8,8	10,6	14,1	15,9	17,7	26,5
AR-081806AL-HT	EFXE-081806AL-HT	4,4	6,6	11,1	13,3	17,8	20,0	22,2	33,4
AR-082505AL-HT	EFXE-082505AL-HT	5,4	8,2	13,7	16,4	21,9	24,7	27,4	41,1
AQ-101008AL-HT	EFXE-101008AL-HT	4,3	6,5	10,8	13,0	17,4	19,6	21,7	32,6
AR-101608AL-HT	EFXE-101608AL-HT	5,7	8,6	14,4	17,3	23,1	26,0	28,9	43,3
AR-102008AL-HT	EFXE-102008AL-HT	6,7	10,0	16,7	20,1	26,8	30,2	33,5	50,3
AQ-121208AL-HT	EFXE-121208AL-HT	5,4	8,1	13,5	16,2	21,6	24,3	27,0	40,5
AQ-121209AL-HT	EFXE-121209AL-HT	5,8	8,7	14,6	17,5	23,3	26,2	29,2	43,8
AR-122208AL-HT	EFXE-122208AL-HT	7,8	11,7	19,6	23,5	31,3	35,3	39,2	58,8
AR-122209AL-HT	EFXE-122209AL-HT	8,4	12,6	21,0	25,3	33,7	37,9	42,1	63,2
AR-123608AL-HT	EFXE-123608AL-HT	11,1	16,7	27,9	33,5	44,7	50,3	55,9	83,9
AQ-141409AL-HT	EFXE-141409AL-HT	6,8	10,3	17,2	20,6	27,5	31,0	34,4	51,7
AR-142009AL-HT	EFXE-142009AL-HT	8,5	12,8	21,4	25,7	34,2	38,5	42,8	64,3
AQ-161609AL-HT	EFXE-161609AL-HT	8,0	12,0	20,1	24,1	32,2	36,2	40,2	60,4
AR-162609AL-HT	EFXE-162609AL-HT	10,9	16,4	27,4	32,8	43,8	49,3	54,8	82,2
AR-163609AL-HT	EFXE-163609AL-HT	13,7	20,6	34,4	41,3	55,1	62,0	68,9	103,3
AR-165609AL-HT	EFXE-165609AL-HT	19,2	28,8	48,1	57,7	76,9	86,6	96,2	144,3
AQ-181810AL-HT	EFXE-181810AL-HT	9,8	14,8	24,6	29,6	39,5	44,4	49,3	74,0
AR-182810AL-HT	EFXE-182810AL-HT	13,0	19,5	32,6	39,1	52,2	58,7	65,2	97,9
AR-102311AL-HT	EFXE-102311AL-HT	9,1	13,6	22,8	27,3	36,5	41,0	45,6	68,4
AR-202311AL-HT	EFXE-202311AL-HT	13,0	19,5	32,6	39,1	52,2	58,7	65,2	97,9
AR-202318AL-HT	EFXE-202318AL-HT	17,9	26,9	44,9	53,9	71,8	80,8	89,8	134,7
AR-232811AL-HT	EFXE-232811AL-HT	15,8	23,7	39,6	47,5	63,3	71,3	79,2	118,8
AR-233311AL-HT	EFXE-233311AL-HT	17,6	26,4	44,1	52,9	70,6	79,4	88,2	132,3
AR-233318AL-HT	EFXE-233318AL-HT	23,7	35,6	59,4	71,3	95,1	107,0	118,9	178,4
AR-234011AL-HT	EFXE-234011AL-HT	20,1	30,2	50,3	60,4	80,5	90,6	100,7	151,0
AR-234023AL-HT	EFXE-234023AL-HT	31,1	46,6	77,8	93,3	124,5	140,0	155,6	233,4
AR-236011AL-HT	EFXE-236011AL-HT	27,0	40,6	67,7	81,2	108,3	121,9	135,4	203,1
AR-314011AL-HT	EFXE-314011AL-HT	24,3	36,4	60,7	72,9	97,2	109,3	121,5	182,3
AR-314014AL-HT	EFXE-314014AL-HT	27,4	41,2	68,7	82,4	109,9	123,7	137,4	206,2
AR-314018AL-HT	EFXE-314018AL-HT	31,9	47,8	79,7	95,7	127,6	143,5	159,5	239,2
AR-314023AL-HT	EFXE-314023AL-HT	36,7	55,1	91,9	110,3	147,1	165,5	183,9	275,8
AR-316011AL-HT	EFXE-316011AL-HT	32,0	48,0	80,0	96,0	128,1	144,1	160,1	240,1
AR-316018AL-HT	EFXE-316018AL-HT	41,3	62,0	103,4	124,1	165,5	186,2	206,9	310,3
AQ-606020AL-HT	EFXE-606020AL-HT	64,5	96,8	161,4	193,7	258,3	290,5	322,8	484,3

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Enclosure types (aluminium)		Maximum power dissipation (W) – Tamb. up to **60**°C						
		INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)	INTERNAL TEMP.130°C (T4/T135°C)
AQ-080806AL-HT	EFXE-080806AL-HT	2,6	5,2	6,5	9,1	10,4	11,7	18,2
AR-081306AL-HT	EFXE-081306AL-HT	3,5	7,0	8,8	12,3	14,1	15,9	24,7
AR-081806AL-HT	EFXE-081806AL-HT	4,4	8,9	11,1	15,5	17,8	20,0	31,1
AR-082505AL-HT	EFXE-082505AL-HT	5,4	10,9	13,7	19,2	21,9	24,7	38,4
AQ-101008AL-HT	EFXE-101008AL-HT	4,3	8,7	10,8	15,2	17,4	19,6	30,4
AR-101608AL-HT	EFXE-101608AL-HT	5,7	11,5	14,4	20,2	23,1	26,0	40,5
AR-102008AL-HT	EFXE-102008AL-HT	6,7	13,4	16,7	23,5	26,8	30,2	47,0
AQ-121208AL-HT	EFXE-121208AL-HT	5,4	10,8	13,5	18,9	21,6	24,3	37,8
AQ-121209AL-HT	EFXE-121209AL-HT	5,8	11,6	14,6	20,4	23,3	26,2	40,8
AR-122208AL-HT	EFXE-122208AL-HT	7,8	15,6	19,6	27,4	31,3	35,3	54,9
AR-122209AL-HT	EFXE-122209AL-HT	8,4	16,8	21,0	29,5	33,7	37,9	59,0
AR-123608AL-HT	EFXE-123608AL-HT	11,1	22,3	27,9	39,1	44,7	50,3	78,3
AQ-141409AL-HT	EFXE-141409AL-HT	6,8	13,7	17,2	24,1	27,5	31,0	48,2
AR-142009AL-HT	EFXE-142009AL-HT	8,5	17,1	21,4	30,0	34,2	38,5	60,0
AQ-161609AL-HT	EFXE-161609AL-HT	8,0	16,1	20,1	28,1	32,2	36,2	56,3
AR-162609AL-HT	EFXE-162609AL-HT	10,9	21,9	27,4	38,3	43,8	49,3	76,7
AR-163609AL-HT	EFXE-163609AL-HT	13,7	27,5	34,4	48,2	55,1	62,0	96,4
AR-165609AL-HT	EFXE-165609AL-HT	19,2	38,4	48,1	67,3	76,9	86,6	134,7
AQ-181810AL-HT	EFXE-181810AL-HT	9,8	19,7	24,6	34,5	39,5	44,4	69,1
AR-182810AL-HT	EFXE-182810AL-HT	13,0	26,1	32,6	45,7	52,2	58,7	91,4
AR-102311AL-HT	EFXE-102311AL-HT	9,1	18,2	22,8	31,9	36,5	41,0	63,8
AR-202311AL-HT	EFXE-202311AL-HT	13,0	26,1	32,6	45,6	52,2	58,7	91,3
AR-202318AL-HT	EFXE-202318AL-HT	17,9	35,9	44,9	62,8	71,8	80,8	125,7
AR-232811AL-HT	EFXE-232811AL-HT	15,8	31,6	39,6	55,4	63,3	71,3	110,9
AR-233311AL-HT	EFXE-233311AL-HT	17,6	35,3	44,1	61,7	70,6	79,4	123,5
AR-233318AL-HT	EFXE-233318AL-HT	23,7	47,5	59,4	83,2	95,1	107,0	166,5
AR-234011AL-HT	EFXE-234011AL-HT	20,1	40,2	50,3	70,5	80,5	90,6	141,0
AR-234023AL-HT	EFXE-234023AL-HT	31,1	62,2	77,8	108,9	124,5	140,0	217,9
AR-236011AL-HT	EFXE-236011AL-HT	27,0	54,1	67,7	94,8	108,3	121,9	189,6
AR-314011AL-HT	EFXE-314011AL-HT	24,3	48,6	60,7	85,0	97,2	109,3	170,1
AR-314014AL-HT	EFXE-314014AL-HT	27,4	54,9	68,7	96,2	109,9	123,7	192,4
AR-314018AL-HT	EFXE-314018AL-HT	31,9	63,8	79,7	111,6	127,6	143,5	223,3
AR-314023AL-HT	EFXE-314023AL-HT	36,7	73,5	91,9	128,7	147,1	165,5	257,4
AR-316011AL-HT	EFXE-316011AL-HT	32,0	64,0	80,0	112,0	128,1	144,1	224,1
AR-316018AL-HT	EFXE-316018AL-HT	41,3	82,7	103,4	144,8	165,5	186,2	289,6
AQ-606020AL-HT	EFXE-606020AL-HT	64,5	129,1	161,4	226,0	258,3	290,5	452,0

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Enclosure types (aluminium)		Maximum power dissipation (W) Tamb. up to **95**°C		
		INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)	INTERNAL TEMP.130°C (T4/T135°C)
AQ-080806AL-HT	EFXE-080806AL-HT	1,3	2,6	9,1
AR-081306AL-HT	EFXE-081306AL-HT	1,7	3,5	12,3
AR-081806AL-HT	EFXE-081806AL-HT	2,2	4,4	15,5
AR-082505AL-HT	EFXE-082505AL-HT	2,7	5,4	19,2
AQ-101008AL-HT	EFXE-101008AL-HT	2,1	4,3	15,2
AR-101608AL-HT	EFXE-101608AL-HT	2,8	5,7	20,2
AR-102008AL-HT	EFXE-102008AL-HT	3,3	6,7	23,5
AQ-121208AL-HT	EFXE-121208AL-HT	2,7	5,4	18,9
AQ-121209AL-HT	EFXE-121209AL-HT	2,9	5,8	20,4
AR-122208AL-HT	EFXE-122208AL-HT	3,9	7,8	27,4
AR-122209AL-HT	EFXE-122209AL-HT	4,2	8,4	29,5
AR-123608AL-HT	EFXE-123608AL-HT	5,5	11,1	39,1
AQ-141409AL-HT	EFXE-141409AL-HT	3,4	6,8	24,1
AR-142009AL-HT	EFXE-142009AL-HT	4,2	8,5	30,0
AQ-161609AL-HT	EFXE-161609AL-HT	4,0	8,0	28,1
AR-162609AL-HT	EFXE-162609AL-HT	5,4	10,9	38,3
AR-163609AL-HT	EFXE-163609AL-HT	6,8	13,7	48,2
AR-165609AL-HT	EFXE-165609AL-HT	9,6	19,2	67,3
AQ-181810AL-HT	EFXE-181810AL-HT	4,9	9,8	34,5
AR-182810AL-HT	EFXE-182810AL-HT	6,5	13,0	45,7
AR-102311AL-HT	EFXE-102311AL-HT	4,5	9,1	31,9
AR-202311AL-HT	EFXE-202311AL-HT	6,5	13,0	45,6
AR-202318AL-HT	EFXE-202318AL-HT	8,9	17,9	62,8
AR-232811AL-HT	EFXE-232811AL-HT	7,9	15,8	55,4
AR-233311AL-HT	EFXE-233311AL-HT	8,8	17,6	61,7
AR-233318AL-HT	EFXE-233318AL-HT	11,8	23,7	83,2
AR-234011AL-HT	EFXE-234011AL-HT	10,0	20,1	70,5
AR-234023AL-HT	EFXE-234023AL-HT	15,5	31,1	108,9
AR-236011AL-HT	EFXE-236011AL-HT	13,5	27,0	94,8
AR-314011AL-HT	EFXE-314011AL-HT	12,1	24,3	85,0
AR-314014AL-HT	EFXE-314014AL-HT	13,7	27,4	96,2
AR-314018AL-HT	EFXE-314018AL-HT	15,9	31,9	111,6
AR-314023AL-HT	EFXE-314023AL-HT	18,3	36,7	128,7
AR-316011AL-HT	EFXE-316011AL-HT	16,0	32,0	112,0
AR-316018AL-HT	EFXE-316018AL-HT	20,6	41,3	144,8
AQ-606020AL-HT	EFXE-606020AL-HT	32,2	64,5	226,0

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Power dissipation – Glass fiber reinforced polyester resin enclosures

Enclosure types (polyester)		Maximum power dissipation (W) – Tamb. up to **40**°C						
		INTERNAL TEMP.60°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
AQ-080806P	EFE-080806	3,4	5,2	6,9	7,8	9,5	10,4	11,3
AQ-080808P	EFE-080808	4,5	6,8	9,1	10,2	12,5	13,6	14,7
AR-081106P	EFE-081106	4,2	6,4	8,5	9,6	11,7	12,8	13,8
AR-081606P	EFE-081606	5,7	8,6	11,5	13,0	15,9	17,3	18,8
AR-081906P	EFE-081906	6,4	9,6	12,8	14,4	17,6	19,2	20,8
AQ-121209P	EFE-121209	7,9	11,9	15,9	17,9	21,9	23,9	25,9
AR-122209P	EFE-122209	10,8	16,2	21,6	24,3	29,7	32,4	35,1
AQ-161609P	EFE-161609	10,3	15,5	20,7	23,3	28,5	31,1	33,7
AR-162609P	EFE-162609	13,4	20,1	26,8	30,1	36,8	40,2	43,5
AR-163609P	EFE-163609	16,2	24,3	32,4	36,4	44,5	48,6	52,6
AQ-252612P	EFE-252612	18,8	28,2	37,6	42,3	51,7	56,4	61,1
AQ-252616P	EFE-252616	21,7	32,6	43,5	49,0	59,9	65,3	70,8
AR-254012P	EFE-254012	23,9	35,9	47,9	53,9	65,9	71,8	77,8
AR-254016P	EFE-254016	27,4	41,2	54,9	61,8	75,6	82,4	89,3
AR-256012P	EFE-256012	29,0	43,5	58,0	65,3	79,8	87,1	94,3
AQ-414012P	EFE-414012	29,1	43,6	58,2	65,5	80,0	87,3	94,6
AQ-414016P	EFE-414016	32,9	49,4	65,9	74,1	90,6	98,8	107,0

Enclosure types (polyester)		Maximum power dissipation (W) – Tamb. up to **50**°C						
		INTERNAL TEMP.60°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
AQ-080806P	EFE-080806	1,7	3,4	5,2	6,0	7,8	8,7	9,5
AQ-080808P	EFE-080808	2,2	4,5	6,8	7,9	10,2	11,3	12,5
AR-081106P	EFE-081106	2,1	4,2	6,4	7,4	9,6	10,6	11,7
AR-081606P	EFE-081606	2,8	5,7	8,6	10,1	13,0	14,4	15,9
AR-081906P	EFE-081906	3,2	6,4	9,6	11,2	14,4	16,0	17,6
AQ-121209P	EFE-121209	3,9	7,9	11,9	13,9	17,9	19,9	21,9
AR-122209P	EFE-122209	5,4	10,8	16,2	18,9	24,3	27,0	29,7
AQ-161609P	EFE-161609	5,1	10,3	15,5	18,1	23,3	25,9	28,5
AR-162609P	EFE-162609	6,7	13,4	20,1	23,4	30,1	33,5	36,8
AR-163609P	EFE-163609	8,1	16,2	24,3	28,3	36,4	40,5	44,5
AQ-252612P	EFE-252612	9,4	18,8	28,2	32,9	42,3	47,0	51,7
AQ-252616P	EFE-252616	10,8	21,7	32,6	38,1	49,0	54,4	59,9
AR-254012P	EFE-254012	11,9	23,9	35,9	41,9	53,9	59,9	65,9
AR-254016P	EFE-254016	13,7	27,4	41,2	48,1	61,8	68,7	75,6
AR-256012P	EFE-256012	14,5	29,0	43,5	50,8	65,3	72,6	79,8
AQ-414012P	EFE-414012	14,5	29,1	43,6	50,9	65,5	72,7	80,0
AQ-414016P	EFE-414016	16,4	32,9	49,4	57,6	74,1	82,3	90,6

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Enclosure types (polyester)		Maximum power dissipation (W) – Tamb. up to **55**°C						
		INTERNAL TEMP.65°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
AQ-080806P	EFE-080806	1,7	2,6	4,3	5,2	6,9	7,8	8,7
AQ-080808P	EFE-080808	2,2	3,4	5,6	6,8	9,1	10,2	11,3
AR-081106P	EFE-081106	2,1	3,2	5,3	6,4	8,5	9,6	10,6
AR-081606P	EFE-081606	2,8	4,3	7,2	8,6	11,5	13,0	14,4
AR-081906P	EFE-081906	3,2	4,8	8,0	9,6	12,8	14,4	16,0
AQ-121209P	EFE-121209	3,9	5,9	9,9	11,9	15,9	17,9	19,9
AR-122209P	EFE-122209	5,4	8,1	13,5	16,2	21,6	24,3	27,0
AQ-161609P	EFE-161609	5,1	7,7	12,9	15,5	20,7	23,3	25,9
AR-162609P	EFE-162609	6,7	10,0	16,7	20,1	26,8	30,1	33,5
AR-163609P	EFE-163609	8,1	12,1	20,2	24,3	32,4	36,4	40,5
AQ-252612P	EFE-252612	9,4	14,1	23,5	28,2	37,6	42,3	47,0
AQ-252616P	EFE-252616	10,8	16,3	27,2	32,6	43,5	49,0	54,4
AR-254012P	EFE-254012	11,9	17,9	29,9	35,9	47,9	53,9	59,9
AR-254016P	EFE-254016	13,7	20,6	34,3	41,2	54,9	61,8	68,7
AR-256012P	EFE-256012	14,5	21,7	36,3	43,5	58,0	65,3	72,6
AQ-414012P	EFE-414012	14,5	21,8	36,3	43,6	58,2	65,5	72,7
AQ-414016P	EFE-414016	16,4	24,7	41,1	49,4	65,9	74,1	82,3

Enclosure types (polyester)		Maximum power dissipation (W) – Tamb. up to **60**°C					
		INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
AQ-080806P	EFE-080806	1,7	3,4	4,3	6,0	6,9	7,8
AQ-080808P	EFE-080808	2,2	4,5	5,6	7,9	9,1	10,2
AR-081106P	EFE-081106	2,1	4,2	5,3	7,4	8,5	9,6
AR-081606P	EFE-081606	2,8	5,7	7,2	10,1	11,5	13,0
AR-081906P	EFE-081906	3,2	6,4	8,0	11,2	12,8	14,4
AQ-121209P	EFE-121209	3,9	7,9	9,9	13,9	15,9	17,9
AR-122209P	EFE-122209	5,4	10,8	13,5	18,9	21,6	24,3
AQ-161609P	EFE-161609	5,1	10,3	12,9	18,1	20,7	23,3
AR-162609P	EFE-162609	6,7	13,4	16,7	23,4	26,8	30,1
AR-163609P	EFE-163609	8,1	16,2	20,2	28,3	32,4	36,4
AQ-252612P	EFE-252612	9,4	18,8	23,5	32,9	37,6	42,3
AQ-252616P	EFE-252616	10,8	21,7	27,2	38,1	43,5	49,0
AR-254012P	EFE-254012	11,9	23,9	29,9	41,9	47,9	53,9
AR-254016P	EFE-254016	13,7	27,4	34,3	48,1	54,9	61,8
AR-256012P	EFE-256012	14,5	29,0	36,3	50,8	58,0	65,3
AQ-414012P	EFE-414012	14,5	29,1	36,3	50,9	58,2	65,5
AQ-414016P	EFE-414016	16,4	32,9	41,1	57,6	65,9	74,1

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Enclosure types (polyester)		Maximum power dissipation (W) – Tamb. up to **95**°C	
		INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
AQ-080806P	EFE-080806	0,8	1,7
AQ-080808P	EFE-080808	1,1	2,2
AR-081106P	EFE-081106	1,0	2,1
AR-081606P	EFE-081606	1,4	2,8
AR-081906P	EFE-081906	1,6	3,2
AQ-121209P	EFE-121209	1,9	3,9
AR-122209P	EFE-122209	2,7	5,4
AQ-161609P	EFE-161609	2,5	5,1
AR-162609P	EFE-162609	3,3	6,7
AR-163609P	EFE-163609	4,0	8,1
AQ-252612P	EFE-252612	4,7	9,4
AQ-252616P	EFE-252616	5,4	10,8
AR-254012P	EFE-254012	5,9	11,9
AR-254016P	EFE-254016	6,8	13,7
AR-256012P	EFE-256012	7,2	14,5
AQ-414012P	EFE-414012	7,2	14,5
AQ-414016P	EFE-414016	8,2	16,4

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Power dissipation – Aluminum alloy enclosures

Enclosure types (aluminium)		Maximum power dissipation (W) – Tamb. up to **40**°C						
		INTERNAL TEMP.60°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
AQ-080806AL	EFXE-080806AL	5,2	7,8	10,4	11,7	14,3	15,6	16,9
AR-081306AL	EFXE-081306AL	7,0	10,6	14,1	15,9	19,4	21,2	23,0
AR-081806AL	EFXE-081806AL	8,9	13,3	17,8	20,0	24,5	26,7	28,9
AR-081808AL	EFXE-081808AL	11,0	16,5	22,1	24,8	30,4	33,1	35,9
AR-082505AL	EFXE-082505AL	10,7	16,1	21,4	24,1	29,5	32,2	34,8
AR-082508AL	EFXE-082508AL	14,2	21,4	28,5	32,1	39,2	42,8	46,4
AQ-101008AL	EFXE-101008AL	8,7	13,0	17,4	19,6	23,9	26,1	28,3
AR-101508AL	EFXE-101508AL	11,1	16,6	22,2	24,9	30,5	33,3	36,0
AR-101608AL	EFXE-101608AL	11,5	17,3	23,1	26,0	31,8	34,7	37,6
AR-102008AL	EFXE-102008AL	13,4	20,1	26,8	30,2	36,9	40,3	43,6
AQ-121208AL	EFXE-121208AL	10,8	16,2	21,6	24,3	29,7	32,4	35,1
AR-122209AL	EFXE-122209AL	16,8	25,3	33,7	37,9	46,3	50,6	54,8
AQ-141409AL	EFXE-141409AL	13,7	20,6	27,5	31,0	37,9	41,3	44,8
AR-142009AL	EFXE-142009AL	17,1	25,7	34,2	38,5	47,1	51,4	55,7
AQ-161609AL	EFXE-161609AL	17,2	25,8	34,4	38,7	47,3	51,6	55,9
AR-162410AL	EFXE-162410AL	22,1	33,1	44,2	49,7	60,8	66,3	71,8
AR-162609AL	EFXE-162609AL	21,9	32,8	43,8	49,3	60,2	65,7	71,2
AQ-181810AL	EFXE-181810AL	19,7	29,6	39,5	44,4	54,3	59,2	64,2
AR-182810AL	EFXE-182810AL	26,1	39,1	52,2	58,7	71,8	78,3	84,8
AR-202311AL	EFXE-202311AL	25,8	38,7	51,6	58,0	71,0	77,4	83,9
AR-202318AL	EFXE-202318AL	35,5	53,3	71,1	80,0	97,8	106,7	115,6
AR-232811AL	EFXE-232811AL	31,6	47,5	63,3	71,3	87,1	95,0	103,0
AR-233312AL	EFXE-233312AL	37,0	55,6	74,1	83,4	101,9	111,2	120,5
AR-233318AL	EFXE-233318AL	47,5	71,3	95,1	107,0	130,8	142,7	154,6

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Enclosure types (aluminium)		Maximum power dissipation (W) – Tamb. up to **50**°C						
		INTERNAL TEMP.60°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
AQ-080806AL	EFXE-080806AL	2,6	5,2	7,8	9,1	11,7	13,0	14,3
AR-081306AL	EFXE-081306AL	3,5	7,0	10,6	12,3	15,9	17,7	19,4
AR-081806AL	EFXE-081806AL	4,4	8,9	13,3	15,5	20,0	22,2	24,5
AR-081808AL	EFXE-081808AL	5,5	11,0	16,5	19,3	24,8	27,6	30,4
AR-082505AL	EFXE-082505AL	5,3	10,7	16,1	18,7	24,1	26,8	29,5
AR-082508AL	EFXE-082508AL	7,1	14,2	21,4	24,9	32,1	35,7	39,2
AQ-101008AL	EFXE-101008AL	4,3	8,7	13,0	15,2	19,6	21,7	23,9
AR-101508AL	EFXE-101508AL	5,5	11,1	16,6	19,4	24,9	27,7	30,5
AR-101608AL	EFXE-101608AL	5,7	11,5	17,3	20,2	26,0	28,9	31,8
AR-102008AL	EFXE-102008AL	6,7	13,4	20,1	23,5	30,2	33,5	36,9
AQ-121208AL	EFXE-121208AL	5,4	10,8	16,2	18,9	24,3	27,0	29,7
AR-122209AL	EFXE-122209AL	8,4	16,8	25,3	29,5	37,9	42,1	46,3
AQ-141409AL	EFXE-141409AL	6,8	13,7	20,6	24,1	31,0	34,4	37,9
AR-142009AL	EFXE-142009AL	8,5	17,1	25,7	30,0	38,5	42,8	47,1
AQ-161609AL	EFXE-161609AL	8,6	17,2	25,8	30,1	38,7	43,0	47,3
AR-162410AL	EFXE-162410AL	11,0	22,1	33,1	38,7	49,7	55,3	60,8
AR-162609AL	EFXE-162609AL	10,9	21,9	32,8	38,3	49,3	54,8	60,2
AQ-181810AL	EFXE-181810AL	9,8	19,7	29,6	34,5	44,4	49,3	54,3
AR-182810AL	EFXE-182810AL	13,0	26,1	39,1	45,7	58,7	65,2	71,8
AR-202311AL	EFXE-202311AL	12,9	25,8	38,7	45,1	58,0	64,5	71,0
AR-202318AL	EFXE-202318AL	17,7	35,5	53,3	62,2	80,0	88,9	97,8
AR-232811AL	EFXE-232811AL	15,8	31,6	47,5	55,4	71,3	79,2	87,1
AR-233312AL	EFXE-233312AL	18,5	37,0	55,6	64,8	83,4	92,7	101,9
AR-233318AL	EFXE-233318AL	23,7	47,5	71,3	83,2	107,0	118,9	130,8

Enclosure types (aluminium)		Maximum power dissipation (W) – Tamb. up to **55**°C						
		INTERNAL TEMP.65°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
AQ-080806AL	EFXE-080806AL	2,6	3,9	6,5	7,8	10,4	11,7	13,0
AR-081306AL	EFXE-081306AL	3,5	5,3	8,8	10,6	14,1	15,9	17,7
AR-081806AL	EFXE-081806AL	4,4	6,6	11,1	13,3	17,8	20,0	22,2
AR-081808AL	EFXE-081808AL	5,5	8,2	13,8	16,5	22,1	24,8	27,6
AR-082505AL	EFXE-082505AL	5,3	8,0	13,4	16,1	21,4	24,1	26,8
AR-082508AL	EFXE-082508AL	7,1	10,7	17,8	21,4	28,5	32,1	35,7
AQ-101008AL	EFXE-101008AL	4,3	6,5	10,8	13,0	17,4	19,6	21,7
AR-101508AL	EFXE-101508AL	5,5	8,3	13,8	16,6	22,2	24,9	27,7
AR-101608AL	EFXE-101608AL	5,7	8,6	14,4	17,3	23,1	26,0	28,9
AR-102008AL	EFXE-102008AL	6,7	10,0	16,7	20,1	26,8	30,2	33,5
AQ-121208AL	EFXE-121208AL	5,4	8,1	13,5	16,2	21,6	24,3	27,0
AR-122209AL	EFXE-122209AL	8,4	12,6	21,0	25,3	33,7	37,9	42,1
AQ-141409AL	EFXE-141409AL	6,8	10,3	17,2	20,6	27,5	31,0	34,4
AR-142009AL	EFXE-142009AL	8,5	12,8	21,4	25,7	34,2	38,5	42,8
AQ-161609AL	EFXE-161609AL	8,6	12,9	21,5	25,8	34,4	38,7	43,0
AR-162410AL	EFXE-162410AL	11,0	16,5	27,6	33,1	44,2	49,7	55,3
AR-162609AL	EFXE-162609AL	10,9	16,4	27,4	32,8	43,8	49,3	54,8
AQ-181810AL	EFXE-181810AL	9,8	14,8	24,6	29,6	39,5	44,4	49,3
AR-182810AL	EFXE-182810AL	13,0	19,5	32,6	39,1	52,2	58,7	65,2
AR-202311AL	EFXE-202311AL	12,9	19,3	32,2	38,7	51,6	58,0	64,5
AR-202318AL	EFXE-202318AL	17,7	26,6	44,4	53,3	71,1	80,0	88,9
AR-232811AL	EFXE-232811AL	15,8	23,7	39,6	47,5	63,3	71,3	79,2
AR-233312AL	EFXE-233312AL	18,5	27,8	46,3	55,6	74,1	83,4	92,7
AR-233318AL	EFXE-233318AL	23,7	35,6	59,4	71,3	95,1	107,0	118,9

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Enclosure types (aluminium)		Maximum power dissipation (W) – Tamb. up to **60**°C					
		INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
AQ-080806AL	EFXE-080806AL	2,6	5,2	6,5	9,1	10,4	11,7
AR-081306AL	EFXE-081306AL	3,5	7,0	8,8	12,3	14,1	15,9
AR-081806AL	EFXE-081806AL	4,4	8,9	11,1	15,5	17,8	20,0
AR-081808AL	EFXE-081808AL	5,5	11,0	13,8	19,3	22,1	24,8
AR-082505AL	EFXE-082505AL	5,3	10,7	13,4	18,7	21,4	24,1
AR-082508AL	EFXE-082508AL	7,1	14,2	17,8	24,9	28,5	32,1
AQ-101008AL	EFXE-101008AL	4,3	8,7	10,8	15,2	17,4	19,6
AR-101508AL	EFXE-101508AL	5,5	11,1	13,8	19,4	22,2	24,9
AR-101608AL	EFXE-101608AL	5,7	11,5	14,4	20,2	23,1	26,0
AR-102008AL	EFXE-102008AL	6,7	13,4	16,7	23,5	26,8	30,2
AQ-121208AL	EFXE-121208AL	5,4	10,8	13,5	18,9	21,6	24,3
AR-122209AL	EFXE-122209AL	8,4	16,8	21,0	29,5	33,7	37,9
AQ-141409AL	EFXE-141409AL	6,8	13,7	17,2	24,1	27,5	31,0
AR-142009AL	EFXE-142009AL	8,5	17,1	21,4	30,0	34,2	38,5
AQ-161609AL	EFXE-161609AL	8,6	17,2	21,5	30,1	34,4	38,7
AR-162410AL	EFXE-162410AL	11,0	22,1	27,6	38,7	44,2	49,7
AR-162609AL	EFXE-162609AL	10,9	21,9	27,4	38,3	43,8	49,3
AQ-181810AL	EFXE-181810AL	9,8	19,7	24,6	34,5	39,5	44,4
AR-182810AL	EFXE-182810AL	13,0	26,1	32,6	45,7	52,2	58,7
AR-202311AL	EFXE-202311AL	12,9	25,8	32,2	45,1	51,6	58,0
AR-202318AL	EFXE-202318AL	17,7	35,5	44,4	62,2	71,1	80,0
AR-232811AL	EFXE-232811AL	15,8	31,6	39,6	55,4	63,3	71,3
AR-233312AL	EFXE-233312AL	18,5	37,0	46,3	64,8	74,1	83,4
AR-233318AL	EFXE-233318AL	23,7	47,5	59,4	83,2	95,1	107,0

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Enclosure types (aluminium)		Maximum power dissipation (W) – Tamb. up to **95**°C	
		INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
AQ-080806AL	EFXE-080806AL	1,3	2,6
AR-081306AL	EFXE-081306AL	1,7	3,5
AR-081806AL	EFXE-081806AL	2,2	4,4
AR-081808AL	EFXE-081808AL	2,7	5,5
AR-082505AL	EFXE-082505AL	2,6	5,3
AR-082508AL	EFXE-082508AL	3,5	7,1
AQ-101008AL	EFXE-101008AL	2,1	4,3
AR-101508AL	EFXE-101508AL	2,7	5,5
AR-101608AL	EFXE-101608AL	2,8	5,7
AR-102008AL	EFXE-102008AL	3,3	6,7
AQ-121208AL	EFXE-121208AL	2,7	5,4
AR-122209AL	EFXE-122209AL	4,2	8,4
AQ-141409AL	EFXE-141409AL	3,4	6,8
AR-142009AL	EFXE-142009AL	4,2	8,5
AQ-161609AL	EFXE-161609AL	4,3	8,6
AR-162410AL	EFXE-162410AL	5,5	11,0
AR-162609AL	EFXE-162609AL	5,4	10,9
AQ-181810AL	EFXE-181810AL	4,9	9,8
AR-182810AL	EFXE-182810AL	6,5	13,0
AR-202311AL	EFXE-202311AL	6,4	12,9
AR-202318AL	EFXE-202318AL	8,8	17,7
AR-232811AL	EFXE-232811AL	7,9	15,8
AR-233312AL	EFXE-233312AL	9,2	18,5
AR-233318AL	EFXE-233318AL	11,8	23,7

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Power dissipation – Stainless steel enclosures SB series

Enclosure types (stainless steel)		Maximum power dissipation (W) – Tamb. up to **40**°C						
		INTERNAL TEMP.60°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
SB-101210	EFXE-101210SB	5,5	8,3	11,1	12,5	15,3	16,7	18,1
SB-151510	EFXE-151510SB	8,0	12,0	16,0	18,0	22,0	24,0	26,1
SB-142013	EFXE-142013SB	10,4	15,7	20,9	23,5	28,8	31,4	34,0
SB-202010	EFXE-202010SB	10,7	16,1	21,4	24,1	29,5	32,2	34,8
SB-202016	EFXE-202016SB	13,9	20,8	27,8	31,3	38,3	41,7	45,2
SB-202713	EFXE-202713SB	14,4	21,6	28,9	32,5	39,7	43,3	46,9
SB-272713	EFXE-272713SB	16,7	25,1	33,5	37,7	46,0	50,2	54,4
SB-203016	EFXE-203016SB	17,1	25,7	34,3	38,6	47,2	51,4	55,7
SB-273513	EFXE-273513SB	19,2	28,9	38,5	43,3	53,0	57,8	62,6
SB-282816	EFXE-282816SB	19,3	29,0	38,7	43,6	53,3	58,1	63,0
SB-204016	EFXE-204016SB	20,2	30,3	40,4	45,5	55,6	60,6	65,7
SB-353516	EFXE-353516SB	24,4	36,6	48,8	54,9	67,1	73,2	79,3
SB-282827	EFXE-282827SB	26,2	39,3	52,5	59,0	72,2	78,7	85,3
SB-355016	EFXE-355016SB	29,7	44,5	59,4	66,8	81,7	89,1	96,6
SB-383816	EFXE-383816SB	26,6	39,9	53,2	59,8	73,1	79,8	86,5
SB-384516	EFXE-384516SB	29,1	43,7	58,3	65,6	80,2	87,5	94,8
SB-385716	EFXE-385716SB	33,4	50,1	66,8	75,2	91,9	100,3	108,7
SB-505016	EFXE-505016SB	35,8	53,8	71,7	80,7	98,6	107,6	116,6
SB-383827	EFXE-383827SB	35,1	52,7	70,2	79,0	96,6	105,4	114,2
SB-575716	EFXE-575716SB	41,5	62,3	83,1	93,5	114,3	124,7	135,1
SB-577620	EFXE-577620SB	53,9	80,9	107,9	121,3	148,3	161,8	175,3
SB-575730	EFXE-575730SB	55,8	83,7	111,6	125,6	153,5	167,5	181,4
SB-769520	EFXE-769520SB	72,2	108,3	144,4	162,4	198,5	216,6	234,6
SB-1258040	EFXE-1258040SB	72,2	108,3	144,4	162,4	198,5	216,6	234,6

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Enclosure types (Stainless steel)		Maximum power dissipation (W) – Tamb. up to **50**°C						
		INTERNAL TEMP.60°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
SB-101210	EFXE-101210SB	2,7	5,5	8,3	9,7	12,5	13,9	15,3
SB-151510	EFXE-151510SB	4,0	8,0	12,0	14,0	18,0	20,0	22,0
SB-142013	EFXE-142013SB	5,2	10,4	15,7	18,3	23,5	26,2	28,8
SB-202010	EFXE-202010SB	5,3	10,7	16,1	18,7	24,1	26,8	29,5
SB-202016	EFXE-202016SB	6,9	13,9	20,8	24,3	31,3	34,8	38,3
SB-202713	EFXE-202713SB	7,2	14,4	21,6	25,2	32,5	36,1	39,7
SB-272713	EFXE-272713SB	8,3	16,7	25,1	29,3	37,7	41,8	46,0
SB-203016	EFXE-203016SB	8,5	17,1	25,7	30,0	38,6	42,9	47,2
SB-273513	EFXE-273513SB	9,6	19,2	28,9	33,7	43,3	48,2	53,0
SB-282816	EFXE-282816SB	9,6	19,3	29,0	33,9	43,6	48,4	53,3
SB-204016	EFXE-204016SB	10,1	20,2	30,3	35,4	45,5	50,5	55,6
SB-353516	EFXE-353516SB	12,2	24,4	36,6	42,7	54,9	61,0	67,1
SB-282827	EFXE-282827SB	13,1	26,2	39,3	45,9	59,0	65,6	72,2
SB-355016	EFXE-355016SB	14,8	29,7	44,5	52,0	66,8	74,3	81,7
SB-383816	EFXE-383816SB	13,3	26,6	39,9	46,5	59,8	66,5	73,1
SB-384516	EFXE-384516SB	14,5	29,1	43,7	51,0	65,6	72,9	80,2
SB-385716	EFXE-385716SB	16,7	33,4	50,1	58,5	75,2	83,6	91,9
SB-505016	EFXE-505016SB	17,9	35,8	53,8	62,7	80,7	89,7	98,6
SB-383827	EFXE-383827SB	17,5	35,1	52,7	61,4	79,0	87,8	96,6
SB-575716	EFXE-575716SB	20,7	41,5	62,3	72,7	93,5	103,9	114,3
SB-577620	EFXE-577620SB	26,9	53,9	80,9	94,4	121,3	134,8	148,3
SB-575730	EFXE-575730SB	27,9	55,8	83,7	97,7	125,6	139,5	153,5
SB-769520	EFXE-769520SB	36,1	72,2	108,3	126,3	162,4	180,5	198,5
SB-1258040	EFXE-1258040SB	36,1	72,2	108,3	126,3	162,4	180,5	198,5

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Enclosure types (Stainless steel)		Maximum power dissipation (W) – Tamb. up to **55**°C						
		INTERNAL TEMP.65°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
SB-101210	EFXE-101210SB	2,7	4,1	6,9	8,3	11,1	12,5	13,9
SB-151510	EFXE-151510SB	4,0	6,0	10,0	12,0	16,0	18,0	20,0
SB-142013	EFXE-142013SB	5,2	7,8	13,1	15,7	20,9	23,5	26,2
SB-202010	EFXE-202010SB	5,3	8,0	13,4	16,1	21,4	24,1	26,8
SB-202016	EFXE-202016SB	6,9	10,4	17,4	20,8	27,8	31,3	34,8
SB-202713	EFXE-202713SB	7,2	10,8	18,0	21,6	28,9	32,5	36,1
SB-272713	EFXE-272713SB	8,3	12,5	20,9	25,1	33,5	37,7	41,8
SB-203016	EFXE-203016SB	8,5	12,8	21,4	25,7	34,3	38,6	42,9
SB-273513	EFXE-273513SB	9,6	14,4	24,1	28,9	38,5	43,3	48,2
SB-282816	EFXE-282816SB	9,6	14,5	24,2	29,0	38,7	43,6	48,4
SB-204016	EFXE-204016SB	10,1	15,1	25,2	30,3	40,4	45,5	50,5
SB-353516	EFXE-353516SB	12,2	18,3	30,5	36,6	48,8	54,9	61,0
SB-282827	EFXE-282827SB	13,1	19,6	32,8	39,3	52,5	59,0	65,6
SB-355016	EFXE-355016SB	14,8	22,2	37,1	44,5	59,4	66,8	74,3
SB-383816	EFXE-383816SB	13,3	19,9	33,2	39,9	53,2	59,8	66,5
SB-384516	EFXE-384516SB	14,5	21,8	36,4	43,7	58,3	65,6	72,9
SB-385716	EFXE-385716SB	16,7	25,0	41,8	50,1	66,8	75,2	83,6
SB-505016	EFXE-505016SB	17,9	26,9	44,8	53,8	71,7	80,7	89,7
SB-383827	EFXE-383827SB	17,5	26,3	43,9	52,7	70,2	79,0	87,8
SB-575716	EFXE-575716SB	20,7	31,1	51,9	62,3	83,1	93,5	103,9
SB-577620	EFXE-577620SB	26,9	40,4	67,4	80,9	107,9	121,3	134,8
SB-575730	EFXE-575730SB	27,9	41,8	69,7	83,7	111,6	125,6	139,5
SB-769520	EFXE-769520SB	36,1	54,1	90,2	108,3	144,4	162,4	180,5
SB-1258040	EFXE-1258040SB	36,1	54,1	90,2	108,3	144,4	162,4	180,5

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Enclosure types (Stainless steel)		Maximum power dissipation (W) – Tamb. up to **60**°C					
		INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
SB-101210	EFXE-101210SB	2,7	5,5	6,9	9,7	11,1	12,5
SB-151510	EFXE-151510SB	4,0	8,0	10,0	14,0	16,0	18,0
SB-142013	EFXE-142013SB	5,2	10,4	13,1	18,3	20,9	23,5
SB-202010	EFXE-202010SB	5,3	10,7	13,4	18,7	21,4	24,1
SB-202016	EFXE-202016SB	6,9	13,9	17,4	24,3	27,8	31,3
SB-202713	EFXE-202713SB	7,2	14,4	18,0	25,2	28,9	32,5
SB-272713	EFXE-272713SB	8,3	16,7	20,9	29,3	33,5	37,7
SB-203016	EFXE-203016SB	8,5	17,1	21,4	30,0	34,3	38,6
SB-273513	EFXE-273513SB	9,6	19,2	24,1	33,7	38,5	43,3
SB-282816	EFXE-282816SB	9,6	19,3	24,2	33,9	38,7	43,6
SB-204016	EFXE-204016SB	10,1	20,2	25,2	35,4	40,4	45,5
SB-353516	EFXE-353516SB	12,2	24,4	30,5	42,7	48,8	54,9
SB-282827	EFXE-282827SB	13,1	26,2	32,8	45,9	52,5	59,0
SB-355016	EFXE-355016SB	14,8	29,7	37,1	52,0	59,4	66,8
SB-383816	EFXE-383816SB	13,3	26,6	33,2	46,5	53,2	59,8
SB-384516	EFXE-384516SB	14,5	29,1	36,4	51,0	58,3	65,6
SB-385716	EFXE-385716SB	16,7	33,4	41,8	58,5	66,8	75,2
SB-505016	EFXE-505016SB	17,9	35,8	44,8	62,7	71,7	80,7
SB-383827	EFXE-383827SB	17,5	35,1	43,9	61,4	70,2	79,0
SB-575716	EFXE-575716SB	20,7	41,5	51,9	72,7	83,1	93,5
SB-577620	EFXE-577620SB	26,9	53,9	67,4	94,4	107,9	121,3
SB-575730	EFXE-575730SB	27,9	55,8	69,7	97,7	111,6	125,6
SB-769520	EFXE-769520SB	36,1	72,2	90,2	126,3	144,4	162,4
SB-1258040	EFXE-1258040SB	36,1	72,2	90,2	126,3	144,4	162,4

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Enclosure types (Stainless steel)		Maximum power dissipation (W) – Tamb. up to **95**°C	
		INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
SB-101210	EFXE-101210SB	1,3	2,7
SB-151510	EFXE-151510SB	2,0	4,0
SB-142013	EFXE-142013SB	2,6	5,2
SB-202010	EFXE-202010SB	2,6	5,3
SB-202016	EFXE-202016SB	3,4	6,9
SB-202713	EFXE-202713SB	3,6	7,2
SB-272713	EFXE-272713SB	4,1	8,3
SB-203016	EFXE-203016SB	4,2	8,5
SB-273513	EFXE-273513SB	4,8	9,6
SB-282816	EFXE-282816SB	4,8	9,6
SB-204016	EFXE-204016SB	5,0	10,1
SB-353516	EFXE-353516SB	6,1	12,2
SB-282827	EFXE-282827SB	6,5	13,1
SB-355016	EFXE-355016SB	7,4	14,8
SB-383816	EFXE-383816SB	6,6	13,3
SB-384516	EFXE-384516SB	7,2	14,5
SB-385716	EFXE-385716SB	8,3	16,7
SB-505016	EFXE-505016SB	8,9	17,9
SB-383827	EFXE-383827SB	8,7	17,5
SB-575716	EFXE-575716SB	10,3	20,7
SB-577620	EFXE-577620SB	13,4	26,9
SB-575730	EFXE-575730SB	13,9	27,9
SB-769520	EFXE-769520SB	18,0	36,1
SB-1258040	EFXE-1258040SB	18,0	36,1

Power dissipation – Stainless steel enclosures ST series

Enclosure types (Stainless steel)		Maximum power dissipation (W) – Tamb. up to **40**°C						
		INTERNAL TEMP.60°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
ST-101210	EFXE-101210ST	5,5	8,3	11,1	12,5	15,3	16,7	18,1
ST-151510	EFXE-151510ST	8,0	12,0	16,0	18,0	22,0	24,0	26,1
ST-142013	EFXE-142013ST	10,4	15,7	20,9	23,5	28,8	31,4	34,0
ST-202010	EFXE-202010ST	10,7	16,1	21,4	24,1	29,5	32,2	34,8
ST-202016	EFXE-202016ST	13,9	20,8	27,8	31,3	38,3	41,7	45,2
ST-202713	EFXE-202713ST	14,4	21,6	28,9	32,5	39,7	43,3	46,9
ST-272713	EFXE-272713ST	16,7	25,1	33,5	37,7	46,0	50,2	54,4
ST-203016	EFXE-203016ST	17,1	25,7	34,3	38,6	47,2	51,4	55,7
ST-273513	EFXE-273513ST	19,2	28,9	38,5	43,3	53,0	57,8	62,6
ST-282816	EFXE-282816ST	19,3	29,0	38,7	43,6	53,3	58,1	63,0
ST-204016	EFXE-204016ST	20,2	30,3	40,4	45,5	55,6	60,6	65,7
ST-353516	EFXE-353516ST	24,4	36,6	48,8	54,9	67,1	73,2	79,3
ST-282827	EFXE-282827ST	26,2	39,3	52,5	59,0	72,2	78,7	85,3
ST-355016	EFXE-355016ST	29,7	44,5	59,4	66,8	81,7	89,1	96,6
ST-383816	EFXE-383816ST	26,6	39,9	53,2	59,8	73,1	79,8	86,5
ST-384516	EFXE-384516ST	29,1	43,7	58,3	65,6	80,2	87,5	94,8
ST-385716	EFXE-385716ST	33,4	50,1	66,8	75,2	91,9	100,3	108,7
ST-505016	EFXE-505016ST	35,8	53,8	71,7	80,7	98,6	107,6	116,6
ST-383827	EFXE-383827ST	35,1	52,7	70,2	79,0	96,6	105,4	114,2
ST-575716	EFXE-575716ST	41,5	62,3	83,1	93,5	114,3	124,7	135,1
ST-577620	EFXE-577620ST	53,9	80,9	107,9	121,3	148,3	161,8	175,3
ST-575730	EFXE-575730ST	55,8	83,7	111,6	125,6	153,5	167,5	181,4
ST-769520	EFXE-769520ST	72,2	108,3	144,4	162,4	198,5	216,6	234,6
ST-1258040	EFXE-1258040ST	72,2	108,3	144,4	162,4	198,5	216,6	234,6

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Enclosure types (Stainless steel)		Maximum power dissipation (W) – Tamb. up to **50**°C						
		INTERNAL TEMP.60°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
ST-101210	EFXE-101210ST	2,7	5,5	8,3	9,7	12,5	13,9	15,3
ST-151510	EFXE-151510ST	4,0	8,0	12,0	14,0	18,0	20,0	22,0
ST-142013	EFXE-142013ST	5,2	10,4	15,7	18,3	23,5	26,2	28,8
ST-202010	EFXE-202010ST	5,3	10,7	16,1	18,7	24,1	26,8	29,5
ST-202016	EFXE-202016ST	6,9	13,9	20,8	24,3	31,3	34,8	38,3
ST-202713	EFXE-202713ST	7,2	14,4	21,6	25,2	32,5	36,1	39,7
ST-272713	EFXE-272713ST	8,3	16,7	25,1	29,3	37,7	41,8	46,0
ST-203016	EFXE-203016ST	8,5	17,1	25,7	30,0	38,6	42,9	47,2
ST-273513	EFXE-273513ST	9,6	19,2	28,9	33,7	43,3	48,2	53,0
ST-282816	EFXE-282816ST	9,6	19,3	29,0	33,9	43,6	48,4	53,3
ST-204016	EFXE-204016ST	10,1	20,2	30,3	35,4	45,5	50,5	55,6
ST-353516	EFXE-353516ST	12,2	24,4	36,6	42,7	54,9	61,0	67,1
ST-282827	EFXE-282827ST	13,1	26,2	39,3	45,9	59,0	65,6	72,2
ST-355016	EFXE-355016ST	14,8	29,7	44,5	52,0	66,8	74,3	81,7
ST-383816	EFXE-383816ST	13,3	26,6	39,9	46,5	59,8	66,5	73,1
ST-384516	EFXE-384516ST	14,5	29,1	43,7	51,0	65,6	72,9	80,2
ST-385716	EFXE-385716ST	16,7	33,4	50,1	58,5	75,2	83,6	91,9
ST-505016	EFXE-505016ST	17,9	35,8	53,8	62,7	80,7	89,7	98,6
ST-383827	EFXE-383827ST	17,5	35,1	52,7	61,4	79,0	87,8	96,6
ST-575716	EFXE-575716ST	20,7	41,5	62,3	72,7	93,5	103,9	114,3
ST-577620	EFXE-577620ST	26,9	53,9	80,9	94,4	121,3	134,8	148,3
ST-575730	EFXE-575730ST	27,9	55,8	83,7	97,7	125,6	139,5	153,5
ST-769520	EFXE-769520ST	36,1	72,2	108,3	126,3	162,4	180,5	198,5
ST-1258040	EFXE-1258040ST	36,1	72,2	108,3	126,3	162,4	180,5	198,5

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Enclosure types (Stainless steel)		Maximum power dissipation (W) – Tamb. up to **55**°C						
		INTERNAL TEMP.65°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
ST-101210	EFXE-101210ST	2,7	4,1	6,9	8,3	11,1	12,5	13,9
ST-151510	EFXE-151510ST	4,0	6,0	10,0	12,0	16,0	18,0	20,0
ST-142013	EFXE-142013ST	5,2	7,8	13,1	15,7	20,9	23,5	26,2
ST-202010	EFXE-202010ST	5,3	8,0	13,4	16,1	21,4	24,1	26,8
ST-202016	EFXE-202016ST	6,9	10,4	17,4	20,8	27,8	31,3	34,8
ST-202713	EFXE-202713ST	7,2	10,8	18,0	21,6	28,9	32,5	36,1
ST-272713	EFXE-272713ST	8,3	12,5	20,9	25,1	33,5	37,7	41,8
ST-203016	EFXE-203016ST	8,5	12,8	21,4	25,7	34,3	38,6	42,9
ST-273513	EFXE-273513ST	9,6	14,4	24,1	28,9	38,5	43,3	48,2
ST-282816	EFXE-282816ST	9,6	14,5	24,2	29,0	38,7	43,6	48,4
ST-204016	EFXE-204016ST	10,1	15,1	25,2	30,3	40,4	45,5	50,5
ST-353516	EFXE-353516ST	12,2	18,3	30,5	36,6	48,8	54,9	61,0
ST-282827	EFXE-282827ST	13,1	19,6	32,8	39,3	52,5	59,0	65,6
ST-355016	EFXE-355016ST	14,8	22,2	37,1	44,5	59,4	66,8	74,3
ST-383816	EFXE-383816ST	13,3	19,9	33,2	39,9	53,2	59,8	66,5
ST-384516	EFXE-384516ST	14,5	21,8	36,4	43,7	58,3	65,6	72,9
ST-385716	EFXE-385716ST	16,7	25,0	41,8	50,1	66,8	75,2	83,6
ST-505016	EFXE-505016ST	17,9	26,9	44,8	53,8	71,7	80,7	89,7
ST-383827	EFXE-383827ST	17,5	26,3	43,9	52,7	70,2	79,0	87,8
ST-575716	EFXE-575716ST	20,7	31,1	51,9	62,3	83,1	93,5	103,9
ST-577620	EFXE-577620ST	26,9	40,4	67,4	80,9	107,9	121,3	134,8
ST-575730	EFXE-575730ST	27,9	41,8	69,7	83,7	111,6	125,6	139,5
ST-769520	EFXE-769520ST	36,1	54,1	90,2	108,3	144,4	162,4	180,5
ST-1258040	EFXE-1258040ST	36,1	54,1	90,2	108,3	144,4	162,4	180,5

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Enclosure types (Stainless steel)		Maximum power dissipation (W) – Tamb. up to **60**°C					
		INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
ST-101210	EFXE-101210ST	2,7	5,5	6,9	9,7	11,1	12,5
ST-151510	EFXE-151510ST	4,0	8,0	10,0	14,0	16,0	18,0
ST-142013	EFXE-142013ST	5,2	10,4	13,1	18,3	20,9	23,5
ST-202010	EFXE-202010ST	5,3	10,7	13,4	18,7	21,4	24,1
ST-202016	EFXE-202016ST	6,9	13,9	17,4	24,3	27,8	31,3
ST-202713	EFXE-202713ST	7,2	14,4	18,0	25,2	28,9	32,5
ST-272713	EFXE-272713ST	8,3	16,7	20,9	29,3	33,5	37,7
ST-203016	EFXE-203016ST	8,5	17,1	21,4	30,0	34,3	38,6
ST-273513	EFXE-273513ST	9,6	19,2	24,1	33,7	38,5	43,3
ST-282816	EFXE-282816ST	9,6	19,3	24,2	33,9	38,7	43,6
ST-204016	EFXE-204016ST	10,1	20,2	25,2	35,4	40,4	45,5
ST-353516	EFXE-353516ST	12,2	24,4	30,5	42,7	48,8	54,9
ST-282827	EFXE-282827ST	13,1	26,2	32,8	45,9	52,5	59,0
ST-355016	EFXE-355016ST	14,8	29,7	37,1	52,0	59,4	66,8
ST-383816	EFXE-383816ST	13,3	26,6	33,2	46,5	53,2	59,8
ST-384516	EFXE-384516ST	14,5	29,1	36,4	51,0	58,3	65,6
ST-385716	EFXE-385716ST	16,7	33,4	41,8	58,5	66,8	75,2
ST-505016	EFXE-505016ST	17,9	35,8	44,8	62,7	71,7	80,7
ST-383827	EFXE-383827ST	17,5	35,1	43,9	61,4	70,2	79,0
ST-575716	EFXE-575716ST	20,7	41,5	51,9	72,7	83,1	93,5
ST-577620	EFXE-577620ST	26,9	53,9	67,4	94,4	107,9	121,3
ST-575730	EFXE-575730ST	27,9	55,8	69,7	97,7	111,6	125,6
ST-769520	EFXE-769520ST	36,1	72,2	90,2	126,3	144,4	162,4
ST-1258040	EFXE-1258040ST	36,1	72,2	90,2	126,3	144,4	162,4

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Enclosure types (Stainless steel)		Maximum power dissipation (W) – Tamb. up to **95**°C	
		INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
ST-101210	EFXE-101210ST	1,3	2,7
ST-151510	EFXE-151510ST	2,0	4,0
ST-142013	EFXE-142013ST	2,6	5,2
ST-202010	EFXE-202010ST	2,6	5,3
ST-202016	EFXE-202016ST	3,4	6,9
ST-202713	EFXE-202713ST	3,6	7,2
ST-272713	EFXE-272713ST	4,1	8,3
ST-203016	EFXE-203016ST	4,2	8,5
ST-273513	EFXE-273513ST	4,8	9,6
ST-282816	EFXE-282816ST	4,8	9,6
ST-204016	EFXE-204016ST	5,0	10,1
ST-353516	EFXE-353516ST	6,1	12,2
ST-282827	EFXE-282827ST	6,5	13,1
ST-355016	EFXE-355016ST	7,4	14,8
ST-383816	EFXE-383816ST	6,6	13,3
ST-384516	EFXE-384516ST	7,2	14,5
ST-385716	EFXE-385716ST	8,3	16,7
ST-505016	EFXE-505016ST	8,9	17,9
ST-383827	EFXE-383827ST	8,7	17,5
ST-575716	EFXE-575716ST	10,3	20,7
ST-577620	EFXE-577620ST	13,4	26,9
ST-575730	EFXE-575730ST	13,9	27,9
ST-769520	EFXE-769520ST	18,0	36,1
ST-1258040	EFXE-1258040ST	18,0	36,1

Maximum Power Dissipation calculation

The values specified in the tables as per clause 2.1.1 may be modified within the maximum admitted Tamb and maximum admitted internal temperature as follows.

$$Pdiss\ (W) = \frac{Tmax - Tamb}{Rth}$$

$Rth = A \times (\text{enclosure surface in } mm^2 \text{ except enclosure bottom})^B$

Legend:
Rth – Thermal resistance [K/W].
Tmax – Maximum allowed temperature inside enclosure.
Tamb – Ambient temperature of enclosure
A and B - coefficients determined for each series o enclosure. Exact values are given in manufacturer's documentation.

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[16] Confidential Report No. FIDI 21 CR 075

[16.1] Routine testing

Junction boxes, local control stations and local control panels fitted with wiring, shall be subject to a routine dielectric strength test according to the clause 7.1 of IEC 60079-7.

[17] Specific Conditions of Use

- Enclosures marked with warning label: "WARNING – POTENTIAL ELECTROSTATIC CHARGING HAZARD – SEE INSTRUCTIONS" must be cleaned only by damp cloth or antistatic products.
- Apparatus equipped with drain / venting valve Technor Italsmea model ECR3:
  - the valve cannot be open when an explosive dust atmosphere is present.
  - The valve can be open when an explosive gas atmosphere is present: when open, the equipment reaches the protection degree IP44.
  - When the valve is left in open position, it should be protected from light exposure.
- On the intrinsic safety terminals, the user must only connect devices with compatible intrinsic safety parameters according to EN 60079-14.

[18] Essential Health and Safety Requirements

Covered by the conformity with harmonized standards listed under item 9.

[19] Drawings and Documents

Title:	Drawing No.:	Rev. level:	Date:
Technical note	TN2111	0	17.11.2021
Instruction for use	TN2111 Annex A	0	08.11.2021
Apparatus list	TN2111 Annex B	0	17.11.2021
Drawings:			
Cable entries, plug, adaptors coupling systems	AC2111, sheet 1	0	10.11.2021
Example of operator arrangements for AQ-AR-EFE	AC2111, sheet 2	0	10.11.2021
Example of operator arrangements for SB-ST-EFEXE	AC2111, sheet 3	0	10.11.2021
Example terminals and earth bus bar	AC2111, sheet 4	0	10.11.2021
Drain / breath device type ECR3	AC2111, sheet 5	0	10.11.2021
Marking label SB..., ST..., AQ..., AR...	AC2111, sheet 6	0	10.11.2021
Marking label SB..., ST..., AQ..., AR...	AC2111, sheet 7	0	10.11.2021

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[1] **SUPPLEMENTARY EU – TYPE EXAMINATION CERTIFICATE**

[2] Equipment or Protective Systems Intended for use in Potentially Explosive Atmospheres Directive 2014/34/EU.

[3] Supplementary EU-Type Examination Certificate Number: **FIDI 21 ATEX 0090X/1**

[4] Product: **Junction boxes, local control stations and local control panels**

Type: **AQ-***P / AQ-***AL / AR-***P / AR-***AL**
AQ-*P-HT / AQ-***AL-HT / AR-***P-HT / AR-***AL-HT**
SB-* / ST-***
EFE-* / EFXE-*** AL/ EFXE-***SB / EFXE-***ST**
EFE-*-HT / EFXE-***AL-HT**

[5] Manufacturer: **Technor Italsmea S.p.A.**

[6] Address: **Via Italia 33, 20060 Gessate (MI), Italy**

[7] This supplementary certificate extends EU – Type Examination Certificate to apply to product designed and constructed in accordance with the specification set out in the Schedule of the said certificate but having any variations specified in the Schedule to this certificate and the documents therein referred to.

[8] FIDITAS Ltd., Notified Body number 2829 in accordance with Article 17 of Directive 2014/34/EU of the European Parliament and of the Council, dated 26 February 2014, certifies that this product has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of products intended for use in potentially explosive atmospheres given in Annex II of the Directive.

[9] The examination and test results are recorded in confidential Report No: **FIDI 23 CR 019**

[10] The marking of the product shall include the following:

II 1 G	**Ex ia IIC/IIB T6...T4 Ga**(2) or
II 2(1) G or **II 2(2) G**	**Ex db eb ia/ib mb [**(3)**] IIC/IIB T6...T4 Gb**(1) or
II 2 G	**Ex eb IIC/IIB T6...T4 Gb**(1) or
II 2 D	**Ex tb IIIC T85°C...T135°C Db**

(1) Others type of protection additional to 'eb' depending to the components actually mounted.

(2) In case of enclosures containing 'eb' terminals and/or 'ia Ga' already certified components (with compatible marking) only.

(3) Associated equipment protection depending on the components actually mounted (see lists): e.g. [ia/ib/ia Ga/ia IIIC Da] and/or [ia IIIC Da] or [ia/ib/ia Ga/ia IIIC Da] and/or [ia/ib/ia Ga] [ia IIIC Da]

FIDITAS Ltd.
Certification department
Approved:

Marino Kelava, M.E.Eng.

Our ref.: 23.CRT.071

Date: 19.04.2023

Fiditas d.o.o. ZAGREB

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[11] **SCHEDULE**

[12] **SUPPLEMENTARY EU - TYPE EXAMINATION CERTIFICATE No.: FIDI 21 ATEX 0090X /1**

[13] Description of the variation to the Product

New Ex products added:

- Surge voltage protection unit type: PLUGTRAB PT2 or PT4 – PHOENIX CONTACT; II 1G> Ex ia IIC T4...T6 Ga; KEMA 00 ATEX 1099X;
- SITRANS TH230/420, type: 7NG0317, 0310; 0410 TR320/TR420 7NG0327; 7NG0320; TYPE 7NG0420; Siemens AG; II 1G Ex ia IIC T6...T4 Ga; II 2(1)G Ex ib [ia Ga] IIC T6...T4 Gb; DEKRA 17 ATEX 0116X
- Enhanced Model 644 Temperature Transmitter, ROSEMOUNT INCORPORATED, II 1G Ex ia IIC T6...T4 Ga; DEKRA 21ATEX0003X,
- Temperature Transmitter type: 5434D; 5431D; 6431D; 5435D; 5437D; 5437D; 5437B; 6437D, II 1G Ex ia IIC T6...T4 Ga; II 2(1)G Ex ib [ia Ga] IIC T6...T4 Gb; DEKRA 16 ATEX 0047X,
- Controls Units and / or Junction Boxes Type: GUB..., TECHNOR ITALSMEA; II 2G Ex db (*) IIC T(*) Gb; INERIS 22 ATEX 0008X
- Cable Transit Device type: CF 8 Ex, CF 32 Ex, CF 16 Ex, C RS T...Ex, RS..B Ex, SF...Ex, SFX...B Ex, B...B Ex, R...B Ex and RO...B; ROXTEC INTERNATIONAL AB, II 2G Ex e IIC Gb, II 2D Ex tb IIC Db; NEMKO 12 ATEX 1278X
- Cable Transit Device type: HD 16 Ex, HD 24 Ex, HD 32 Ex and HDLC Ex, ROXTEC INTERNATIONAL AB, II 2G Ex eb IIC Gb, II 2D Ex tb IIIC Db, PRESAFE 15 ATEX 6419X
- Control stations and junction boxes type: CP..., TECHNOR ITALSMEA, II 2G Ex db IIC T6 or T5 or T4 Gb or II 2(1)G Ex db [ia Ga] IIC T6 Gb(***) or II 2(2)G Ex db [ib] IIC T6 Gb (***); INERIS 03 ATEX 0009X
- Industrial plug and socket type: DXN1, MARECHAL ELECTRIC, II 2G Ex db eb IIC T5 or T6; II 2D Ex tb IIIC T90°C/T70°C; LCIE 99 ATEX6027X
- Industrial plug and socket type: DXN3, MARECHAL ELECTRIC; II 2G Ex db eb IIC T5 or T6; II 2D Ex tb IIIC T90°C/T70°C; LCIE 05 ATEX 6149X
- Industrial plug and socket type: DXN6, MARECHAL ELECTRIC, II 2G Ex db eb IIC T5 or T6; II 2D Ex tb IIIC T90°C/T70°C; LCIE 05 ATEX 6150X
- Industrial plug and socket type: PXN12C, MARECHAL ELECTRIC, II 2G Ex eb IIC T*; II 2G Ex ia or ib IIC T*; II 2D Ex tb IIIC T* Db; LCIE 07 ATEX 6070X
- Industrial plug and socket type: DXN25C, MARECHAL ELECTRIC; II 2G Ex eb IIC T*; II 2G Ex ia or ib IIC T6; II2D Ex tb IIIC T*; LCIE 09ATEX3050X
- Industrial plug and socket type: DXN37C, MARECHAL ELECTRIC; II 2G Ex eb IIC T*; II 2G Ex ia or ib IIC T6; II2D Ex tb IIIC T*; LCIE 07ATEX6071X
- Industrial plug and socket type: SPeX, MARECHAL ELECTRIC, II 2G Ex eb IIC T*; II2D Ex tb IIIC T* Db; LCIE 07ATEX6073X
- Industrial plug and socket type: DXA1, MARECHAL ELECTRIC, II 2G Ex db eb IIC T* Gb; II 2D Ex tb IIC T*°C Db; LCIE 15ATEX 3033X
- Industrial plug and socket type: PNCX, MARECHAL ELECTRIC, II 2G Ex IIC T6 Gb; II 2D Ex tb IIIC T72°C Db; LCIE 16ATEX3001X
- Terminal type: WDU 240, WEIDMULLER, II 2G Ex eb IIC Gb; KEMA 01 ATEX 2186U.

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[14] Confidential Report No. FIDI 23 CR 019

[14.1] Routine testing

No change to specified in the initial certificate.

[15] Specific Conditions of Use

Addditional to those specified the initial certificate:

- Manufacturer must obey relevant specific condition of use of Ex equipment and/or schedule of limitation of Ex components installed in/on the product and forward to the end user if relevant for the installation and use.

[16] Essential Health and Safety Requirements

Compliance with the Essential Health and Safety Requirements is not affected by this variation.

[17] Drawings and Documents

Title:	Drawing No.:	Rev. level:	Date:
Technical note	TN2111	1	20.01.2023
Instruction for use	TN2111 Annex A	1	20.01.2023
Apparatus list	TN2111 Annex B	1	20.01.2023

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IECEx Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION
IEC Certification System for Explosive Atmospheres

for rules and details of the IECEx Scheme visit www.iecex.com

Certificate No.:	**IECEx FIDI 21.0015X**	Page 1 of 4	Certificate history: Issue 0 (2022-02-18)
Status:	**Current**	Issue No: 1	
Date of Issue:	2023-05-04		

Applicant: **Technor Italsmea S.p.A.**
Via Italia 33
20060 Gessate (MI)
Italy

Equipment: **Junction boxes, local control stations and local control panels**

Optional accessory: Model reference: AQ-***P / AQ-***AL / AR-***P / AR-***AL / AQ-***P-HT / AQ-***AL-HT / AR-***P-HT / AR-***AL-HT / SB-*** / ST-*** / EFE-*** / EFXE-*** AL/ EFXE-***SB / EFXE-***ST / EFE-***-HT / EFXE-***AL-HT

Type of Protection: **Flameproof enclosure 'db'; Intrinsic safety 'ia/ib'; Increased safety 'eb'; Encapsulation 'mb', Protection by enclosure 'tb'**

Marking: **Ex ia IIC/IIB T6...T4 Ga**(2) or

Ex db eb ia/ib mb [(3)] IIC/IIB T6...T4 Gb(1) or

Ex eb IIC/IIB T6...T4 Gb(1) or

Ex tb IIIC T85°C...T135°C Db

(1) Others type of protection additional to Ex e/eb depending to the components actually mounted.

(2) In case of enclosures containing Ex e/Ex eb terminals and/or Ex ia Ga already certified components (with compatible marking) only.

(3) Associated equipment protection depending on the components actually mounted (see lists): e.g. [ia/ib/ia Ga/ia IIIC Da] and/or [ia IIIC Da] or [ia/ib/ia Ga/ia IIIC Da] and/or [ia/ib/ia Ga] [ia IIIC Da]

Approved for issue on behalf of the IECEx Certification Body: **Marino Kelava**

Position: **Certification Signatory**

Signature:
(for printed version)

Date:
(for printed version)

1. This certificate and schedule may only be reproduced in full.
2. This certificate is not transferable and remains the property of the issuing body.
3. The Status and authenticity of this certificate may be verified by visiting www.iecex.com or use of this QR Code.

Certificate issued by:

Fiditas Ltd
Slavka Tomerlina 44
HR-10361 Zagreb-Sesvete
Croatia

Fiditas
explosion safety solutions

IECEx Certificate of Conformity

Certificate No.: **IECEx FIDI 21.0015X**

Date of issue: 2023-05-04 Issue No: 1

Manufacturer: **Technor Italsmea S.p.A.**
Via Italia 33
20060 Gessate (MI)
Italy

Manufacturing locations:

This certificate is issued as verification that a sample(s), representative of production, was assessed and tested and found to comply with the IEC Standard list below and that the manufacturer's quality system, relating to the Ex products covered by this certificate, was assessed and found to comply with the IECEx Quality system requirements.This certificate is granted subject to the conditions as set out in IECEx Scheme Rules, IECEx 02 and Operational Documents as amended

STANDARDS :
The equipment and any acceptable variations to it specified in the schedule of this certificate and the identified documents, was found to comply with the following standards

IEC 60079-0:2017 Explosive atmospheres - Part 0: Equipment - General requirements
Edition:7.0

IEC 60079-1:2014-06 Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"
Edition:7.0

IEC 60079-11:2011 Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"
Edition:6.0

IEC 60079-18:2017 Explosive atmospheres - Part 18: Protection by encapsulation "m"
Edition:4.1

IEC 60079-31:2013 Explosive atmospheres - Part 31: Equipment dust ignition protection by enclosure "t"
Edition:2

IEC 60079-7:2017 Explosive atmospheres - Part 7: Equipment protection by increased safety "e"
Edition:5.1

This Certificate **does not** indicate compliance with safety and performance requirements other than those expressly included in the Standards listed above.

TEST & ASSESSMENT REPORTS:
A sample(s) of the equipment listed has successfully met the examination and test requirements as recorded in:

Test Reports:

HR/FIDI/ExTR21.0016/00 HR/FIDI/ExTR21.0016/01

Quality Assessment Report:

FR/INE/QAR08.0002/15

IECEx Certificate of Conformity

EQUIPMENT:
Equipment and systems covered by this Certificate are as follows:

Junction boxes, local control stations and local control panels series AQ-…..; AR-…..; SB…..; EFE-…..; EFXE-….. use certified enclosures of various sizes, manufactured by Technor Italsmea S.p.A., type: AQ-.... ; AR-....; SB-...; ST- …, certificate IECEx FIDI 21.0012U.

Enclosures coded …-HT are made in glass fiber reinforced polyester resin or in aluminum, and covered by IECEx component certificates: IECEx PTB 08.0003U, enclosure type: 26.****** and IECEx PTB 08.0003U, enclosure type: 25.******.

Enclosures may be equipped with certified Ex equipment or Ex components and Ex terminals listed in manufacturer's documentation. Certified Ex equipment or Ex components and Ex terminals must be used according to data available in related component or equipment certificates, in particular relevant temperature range, voltage and current limitations. The cable glands or plugs, with separate IECEx certificate, made in type of protection ‘eb’ and/or ‘tb’ with appropriate IP protection are mounted according to related manufacturer’s installation instructions. Each enclosure is provided with internal earthing certified terminal or earthing screw or bolt. Metal enclosures are provided by external earthing screw or bolt. Metal and polyester enclosures can be provided by passing through earthing terminals.

All enclosures can be provided by:
- Externally installed accessories as specified in manufacturer documents,
- Drain breath device type ECR3, included in this certificate,
- Internal/external earthing plate.

For other description see Annex.

SPECIFIC CONDITIONS OF USE: YES as shown below:

- Enclosures marked with warning label: “WARNING – POTENTIAL ELECTROSTATIC CHARGING HAZARD – SEE INSTRUCTIONS” must be cleaned only by damp cloth or antistatic products.
- Apparatus equipped with drain / venting valve Technor Italsmea model ECR3:
  - the valve cannot be open when an explosive dust atmosphere is present.
  - The valve can be open when an explosive gas atmosphere is present: when open, the equipment reaches the protection degree IP44.
  - When the valve is left in open position, it should be protected from light exposure.
- On the intrinsic safety terminals, the user must only connect devices with compatible intrinsic safety parameters according to IEC 60079-14.

IECEx Certificate of Conformity

DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)
New IECEx certified Ex products added in the Apparatus list according to list given in HR/FIDI/ ExTR 21.0016/01.

Annex:

IECEx FIDI 21.0015X Technor Equipment Annex1 issue1.pdf

Technical description (continued from original certificate)

Model identification

Junction boxes

A(1)-(2) (3) (4) (5) (6)	(1) –	**Q**: Square size **R**: Rectangular size
	(2) (3) (4)	dimension, in cm
	(5)	Material **P**: Glass fiber reinforced polyester resin **AL**: Aluminium Alloy
	(6)	None: up to internal temperature of 105°C **HT**: up to internal temperature of 130°C
SB- (2) (3) (4)	(2) (3) (4)	dimension, in cm
ST- (2) (3) (4)	(2) (3) (4)	dimension, in cm

Panel boards

EFE- (2) (3) (4) (6)	(2) (3) (4)	dimension, in cm
	(6)	None: up to internal temperature of 105°C **HT**: up to internal temperature of 130°C
EFXE- (2) (3) (4) (5) (6)	(2) (3) (4)	dimension, in cm
	(5)	Material **SB** or **ST**: stainless steel **AL**: Aluminium Alloy
	(6)	None: up to internal temperature of 105°C **HT**: up to internal temperature of 130°C

Technical data:

Electrical data:	According to Ex component to actually installed
Ambient temperature:	-50°C to +95°C Other possible ranges are with: - min temperature: -50°C to -20 °C - max temperature of +40 °C to +95 °C
Mechanical protection:	IP55, IP66 or IP67 depending on model

Temperature class and/or maximum surface temperature of any junction box or control panel depend on ambient temperature and internal power dissipation. The values that must be observed are given in relevant tables in this certificate.

For commercial reasons model name listed in the tables below can be modified as follows: first (2) and second (3) pair of digits can be reversed.

Models sizes

Polyester High Temperature		Aluminium High Temperature	
AQ-080806P-HT	EFE-080806-HT	AQ-080806AL-HT	EFXE-080806AL-HT
AQ-080808P-HT	EFE-080808-HT	AR-081306AL-HT	EFXE-081306AL-HT
AR-081106P-HT	EFE-081106-HT	AR-081806AL-HT	EFXE-081806AL-HT
AR-081108P-HT	EFE-081108-HT	AR-082505AL-HT	EFXE-082505AL-HT
AR-081606P-HT	EFE-081606-HT	AQ-101008AL-HT	EFXE-101008AL-HT
AR-081608P-HT	EFE-081608-HT	AR-101608AL-HT	EFXE-101608AL-HT
AR-081906P-HT	EFE-081906-HT	AR-102008AL-HT	EFXE-102008AL-HT
AR-081908P-HT	EFE-081908-HT	AQ-121208AL-HT	EFXE-121208AL-HT
AR-082306P-HT	EFE-082306-HT	AQ-121209AL-HT	EFXE-121209AL-HT
AR-082308P-HT	EFE-082308-HT	AR-122208AL-HT	EFXE-122208AL-HT
AQ-121209P-HT	EFE-121209-HT	AR-122209AL-HT	EFXE-122209AL-HT
AR-122209P-HT	EFE-122209-HT	AR-123608AL-HT	EFXE-123608AL-HT
AQ-161609P-HT	EFE-161609-HT	AQ-141409AL-HT	EFXE-141409AL-HT
AR-162609P-HT	EFE-162609-HT	AR-142009AL-HT	EFXE-142009AL-HT
AR-163609P-HT	EFE-163609-HT	AQ-161609AL-HT	EFXE-161609AL-HT
AR-165609P-HT	EFE-165609-HT	AR-162609AL-HT	EFXE-162609AL-HT
AQ-202017P-HT	EFE-202017-HT	AR-163609AL-HT	EFXE-163609AL-HT
AR-203017P-HT	EFE-203017-HT	AR-165609AL-HT	EFXE-165609AL-HT
AQ-252612P-HT	EFE-252612-HT	AQ-181810AL-HT	EFXE-181810AL-HT
AQ-252616P-HT	EFE-252616-HT	AR-182810AL-HT	EFXE-182810AL-HT
AR-254012P-HT	EFE-254012-HT	AR-102311AL-HT	EFXE-102311AL-HT
AR-254016P-HT	EFE-254016-HT	AR-202311AL-HT	EFXE-202311AL-HT
AR-256012P-HT	EFE-256012-HT	AR-202318AL-HT	EFXE-202318AL-HT
AR-304020P-HT	EFE-304020-HT	AR-232811AL-HT	EFXE-232811AL-HT
AQ-363609P-HT	EFE-363609-HT	AR-233311AL-HT	EFXE-233311AL-HT
AR-406025P-HT	EFE-406025-HT	AR-233318AL-HT	EFXE-233318AL-HT
AQ-414012P-HT	EFE-414012-HT	AR-234011AL-HT	EFXE-234011AL-HT
AQ-414020P-HT	EFE-414020-HT	AR-234023AL-HT	EFXE-234023AL-HT
		AR-236011AL-HT	EFXE-236011AL-HT
		AR-314011AL-HT	EFXE-314011AL-HT
		AR-314014AL-HT	EFXE-314014AL-HT
		AR-314018AL-HT	EFXE-314018AL-HT
		AR-314023AL-HT	EFXE-314023AL-HT
		AR-316011AL-HT	EFXE-316011AL-HT
		AR-316018AL-HT	EFXE-316018AL-HT
		AQ-606020AL-HT	EFXE-606020AL-HT

Polyester		Aluminium		Stainless steel	
AQ-080806P	EFE-080806	AQ-080806AL	EFXE-080806AL	SB-101210	EFXE-101210SB
AQ-080808P	EFE-080808	AR-081306AL	EFXE-081306AL	SB-151510	EFXE-151510SB
AR-081106P	EFE-081106	AR-081806AL	EFXE-081806AL	SB-142013	EFXE-142013SB
AR-081606P	EFE-081606	AR-081808AL	EFXE-081808AL	SB-202010	EFXE-202010SB
AR-081906P	EFE-081906	AR-082505AL	EFXE-082505AL	SB-202016	EFXE-202016SB
AQ-121209P	EFE-121209	AR-082508AL	EFXE-082508AL	SB-202713	EFXE-202713SB
AR-122209P	EFE-122209	AQ-101008AL	EFXE-101008AL	SB-272713	EFXE-272713SB
AQ-161609P	EFE-161609	AR-101508AL	EFXE-101508AL	SB-203016	EFXE-203016SB
AR-162609P	EFE-162609	AR-101608AL	EFXE-101608AL	SB-273513	EFXE-273513SB
AR-163609P	EFE-163609	AR-102008AL	EFXE-102008AL	SB-282816	EFXE-282816SB
AQ-252612P	EFE-252612	AQ-121208AL	EFXE-121208AL	SB-204016	EFXE-204016SB
AQ-252616P	EFE-252616	AR-122209AL	EFXE-122209AL	SB-353516	EFXE-353516SB
AR-254012P	EFE-254012	AQ-141409AL	EFXE-141409AL	SB-282827	EFXE-282827SB
AR-254016P	EFE-254016	AR-142009AL	EFXE-142009AL	SB-355016	EFXE-355016SB
AR-256012P	EFE-256012	AQ-161609AL	EFXE-161609AL	SB-383816	EFXE-383816SB
AQ-414012P	EFE-414012	AR-162410AL	EFXE-162410AL	SB-384516	EFXE-384516SB
		AR-162609AL	EFXE-162609AL	SB-385716	EFXE-385716SB
		AQ-181810AL	EFXE-181810AL	SB-505016	EFXE-505016SB
		AR-182810AL	EFXE-182810AL	SB-383827	EFXE-383827SB
		AR-202311AL	EFXE-202311AL	SB-575716	EFXE-575716SB
		AR-202318AL	EFXE-202318AL	SB-577620	EFXE-577620SB
		AR-232811AL	EFXE-232811AL	SB-575730	EFXE-575730SB
		AR-233312AL	EFXE-233312AL	SB-769520	EFXE-769520SB
		AR-233318AL	EFXE-233318AL	SB-1258040	EFXE-1258040SB

Enclosure types (Stainless steel)	
ST-101210	EFXE-101210ST
ST-151510	EFXE-151510ST
ST-142013	EFXE-142013ST
ST-202010	EFXE-202010ST
ST-202016	EFXE-202016ST
ST-202713	EFXE-202713ST
ST-272713	EFXE-272713ST
ST-203016	EFXE-203016ST
ST-273513	EFXE-273513ST
ST-282816	EFXE-282816ST
ST-204016	EFXE-204016ST
ST-353516	EFXE-353516ST
ST-282827	EFXE-282827ST
ST-355016	EFXE-355016ST
ST-383816	EFXE-383816ST
ST-384516	EFXE-384516ST
ST-385716	EFXE-385716ST
ST-505016	EFXE-505016ST
ST-383827	EFXE-383827ST
ST-575716	EFXE-575716ST
ST-577620	EFXE-577620ST
ST-575730	EFXE-575730ST
ST-769520	EFXE-769520ST
ST-1258040	EFXE-1258040ST

Note 2 For stainless steel enclosures: dimensions (2) and (3) can be decreased or increased up to 20%, dimensions (4) can be increased up to 500 mm. Model name changes consequently.

Power dissipation – HT glass fiber reinforced polyester resin enclosures

Enclosure types (polyester)		Maximum power dissipation (W) – Tamb. up to **40**°C							
		INTERNAL TEMP.60°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)	INTERNAL TEMP.127°C (T4/T135°C)
AQ-080806P-HT	EFE-080806-HT	3,5	5,2	7,0	7,8	9,6	10,4	11,3	15,2
AQ-080808P-HT	EFE-080808-HT	4,6	6,8	9,1	10,2	12,5	13,7	14,8	19,8
AR-081106P-HT	EFE-081106-HT	4,3	6,4	8,5	9,6	11,8	12,8	13,9	18,6
AR-081108P-HT	EFE-081108-HT	5,6	8,4	11,2	12,6	15,3	16,7	18,1	24,2
AR-081606P-HT	EFE-081606-HT	5,8	8,7	11,6	13,0	15,9	17,4	18,8	25.2
AR-081608P-HT	EFE-081608-HT	6,8	10,2	13,7	15,4	18,8	20,5	22,2	29,7
AR-081906P-HT	EFE-081906-HT	6,4	9,6	12,8	14,4	17,6	19,2	20,8	27,8
AR-081908P-HT	EFE-081908-HT	7,5	11,3	15,1	17,0	20,7	22,6	24,5	32,7
AR-082306P-HT	EFE-082306-HT	7,2	10,8	14,4	16,2	19,8	21,6	23,4	31,3
AR-082308P-HT	EFE-082308-HT	8,5	12,7	16,9	19,0	23,3	25,4	27,5	36,7
AQ-121209P-HT	EFE-121209-HT	8,0	12,0	15,9	17,9	21,9	23,9	25,9	34,7
AR-122209P-HT	EFE-122209-HT	10,8	16,2	21,6	24,3	29,7	32,4	35,1	47,0
AQ-161609P-HT	EFE-161609-HT	10,4	15,6	20,8	23,4	28,6	31,2	33,8	45,2
AR-162609P-HT	EFE-162609-HT	13,4	20,1	26,8	30,2	36,9	40,2	43,6	58,3
AR-163609P-HT	EFE-163609-HT	16,2	24,3	32,4	36,5	44,6	48,6	52,7	70,5
AR-165609P-HT	EFE-165609-HT	21,4	32,0	42,7	48,1	58,7	64,1	69,4	92,9
AQ-202017P-HT	EFE-202017-HT	18,0	26,9	35,9	40,4	49,4	53,9	58,4	78,1
AR-203017P-HT	EFE-203017-HT	20,9	31,3	41,7	47,0	57,4	62,6	67,8	90,8
AQ-252612P-HT	EFE-252612-HT	18,8	28,2	37,6	42,4	51,8	56,5	61,2	81,9
AQ-252616P-HT	EFE-252616-HT	20,8	31,1	41,5	46,7	57,1	62,3	67,5	90,3
AR-254012P-HT	EFE-254012-HT	22,8	34,2	45,7	51,4	62,8	68,5	74,2	99,3
AR-254016P-HT	EFE-254016-HT	26,2	39,3	52,4	58,9	72,0	78,6	85,1	113,9
AR-256012P-HT	EFE-256012-HT	29,0	43,6	58,1	65,3	79,9	87,1	94,4	126,3
AR-304020P-HT	EFE-304020-HT	32,3	48,5	64,7	72,7	88,9	97,0	105,1	140,7
AQ-363609P-HT	EFE-363609-HT	23,0	34,6	46,1	51,8	63,4	69,1	74,9	100,2
AR-406025P-HT	EFE-406025-HT	50,3	75,5	100,7	113,3	138,4	151,0	163,6	218,9
AQ-414012P-HT	EFE-414012-HT	29,1	43,7	58,2	65,5	80,1	87,3	94,6	126,6
AQ-414020P-HT	EFE-414020-HT	36,6	55,0	73,3	82,4	100,8	109,9	119,1	159,4

Enclosure types (polyester)		Maximum power dissipation (W) – Tamb. up to **50**°C							
		INTERNAL TEMP.60°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)	INTERNAL TEMP.127°C (T4/T135°C)
AQ-080806P-HT	EFE-080806-HT	1,7	3,5	5,2	6,1	7,8	8,7	9,6	13,4
AQ-080808P-HT	EFE-080808-HT	2,3	4,6	6,8	8,0	10,2	11,4	12,5	17,5
AR-081106P-HT	EFE-081106-HT	2,1	4,3	6,4	7,5	9,6	10,7	11,8	16,5
AR-081108P-HT	EFE-081108-HT	2,8	5,6	8,4	9,8	12,6	13,9	15,3	21.5
AR-081606P-HT	EFE-081606-HT	2,9	5,8	8,7	10,1	13,0	14,5	15,9	22,3
AR-081608P-HT	EFE-081608-HT	3,4	6,8	10,2	11,9	15,4	17,1	18,8	26,3
AR-081906P-HT	EFE-081906-HT	3,2	6,4	9,6	11,2	14,4	16,0	17,6	24,6
AR-081908P-HT	EFE-081908-HT	3,8	7,5	11,3	13,2	17,0	18,8	20,7	29,0
AR-082306P-HT	EFE-082306-HT	3,6	7,2	10,8	12,6	16,2	18,0	19,8	27,7
AR-082308P-HT	EFE-082308-HT	4,2	8,5	12,7	14,8	19,0	21,1	23,3	32,5
AQ-121209P-HT	EFE-121209-HT	4,0	8,0	12,0	14,0	17,9	19,9	21,9	30,7
AR-122209P-HT	EFE-122209-HT	5,4	10,8	16,2	18,9	24,3	27,0	29,7	41,6
AQ-161609P-HT	EFE-161609-HT	5,2	10,4	15,6	18,2	23,4	26,0	28,6	40,0
AR-162609P-HT	EFE-162609-HT	6,7	13,4	20,1	23,5	30,2	33,5	36,9	51,6
AR-163609P-HT	EFE-163609-HT	8,1	16,2	24,3	28,4	36,5	40,5	44,6	62,3
AR-165609P-HT	EFE-165609-HT	10,7	21,4	32,0	37,4	48,1	53,4	58,7	82,2
AQ-202017P-HT	EFE-202017-HT	9,0	18,0	26,9	31,4	40,4	44,9	49,4	69,1
AR-203017P-HT	EFE-203017-HT	10,4	20,9	31,3	36,5	47,0	52,2	57,4	80,4
AQ-252612P-HT	EFE-252612-HT	9,4	18,8	28,2	32,9	42,4	47,1	51,8	72,5
AQ-252616P-HT	EFE-252616-HT	10,4	20,8	31,1	36,3	46,7	51,9	57,1	79,9
AR-254012P-HT	EFE-254012-HT	11,4	22,8	34,2	39,9	51,4	57,1	62,8	87,9
AR-254016P-HT	EFE-254016-HT	13,1	26,2	39,3	45,8	58,9	65,5	72,0	100,8
AR-256012P-HT	EFE-256012-HT	14,5	29,0	43,6	50,8	65,3	72,6	79,9	111,8
AR-304020P-HT	EFE-304020-HT	16,2	32,3	48,5	56,6	72,7	80,8	88,9	124,4
AQ-363609P-HT	EFE-363609-HT	11,5	23,0	34,6	40,3	51,8	57,6	63,4	88,7
AR-406025P-HT	EFE-406025-HT	25,2	50,3	75,5	88,1	113,3	125,8	138,4	193,8
AQ-414012P-HT	EFE-414012-HT	14,6	29,1	43,7	51,0	65,5	72,8	80,1	112,1
AQ-414020P-HT	EFE-414020-HT	18,3	36,6	55,0	64,1	82,4	91,6	100,8	141,1

Enclosure types (polyester)		Maximum power dissipation (W) – Tamb. up to **55**°C							
		INTERNAL TEMP.65°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)	INTERNAL TEMP.127°C (T4/T135°C)
AQ-080806P-HT	EFE-080806-HT	1,7	2,6	4,4	5,2	7,0	7,8	8,7	12,5
AQ-080808P-HT	EFE-080808-HT	2,3	3,4	5,7	6,8	9,1	10,2	11,4	16,2
AR-081106P-HT	EFE-081106-HT	2,1	3,2	5,3	6,4	8,5	9,6	10,7	15,2
AR-081108P-HT	EFE-081108-HT	2,8	4,2	7,0	8,4	11,2	12,6	13,9	19,8
AR-081606P-HT	EFE-081606-HT	2,9	4,3	7,2	8,7	11,6	13,0	14,5	20,6
AR-081608P-HT	EFE-081608-HT	3,4	5,1	8,5	10,2	13,7	15,4	17,1	24,3
AR-081906P-HT	EFE-081906-HT	3,2	4,8	8,0	9,6	12,8	14,4	16,0	22,8
AR-081908P-HT	EFE-081908-HT	3,8	5,7	9,4	11,3	15,1	17,0	18,8	26,8
AR-082306P-HT	EFE-082306-HT	3,6	5,4	9,0	10,8	14,4	16,2	18,0	25,6
AR-082308P-HT	EFE-082308-HT	4,2	6,3	10,6	12,7	16,9	19,0	21,1	30,0
AQ-121209P-HT	EFE-121209-HT	4,0	6,0	10,0	12,0	15,9	17,9	19,9	28,3
AR-122209P-HT	EFE-122209-HT	5,4	8,1	13,5	16,2	21,6	24,3	27,0	38,3
AQ-161609P-HT	EFE-161609-HT	5,2	7,8	13,0	15,6	20,8	23,4	26,0	36,9
AR-162609P-HT	EFE-162609-HT	6,7	10,1	16,8	20,1	26,8	30,2	33,5	47,6
AR-163609P-HT	EFE-163609-HT	8,1	12,2	20,3	24,3	32,4	36,5	40,5	57,5
AR-165609P-HT	EFE-165609-HT	10,7	16,0	26,7	32,0	42,7	48,1	53,4	75,8
AQ-202017P-HT	EFE-202017-HT	9,0	13,5	22,4	26,9	35,9	40,4	44,9	63,7
AR-203017P-HT	EFE-203017-HT	10,4	15,7	26,1	31,3	41,7	47,0	52,2	74,0
AQ-252612P-HT	EFE-252612-HT	9,4	14,1	23,5	28,2	37,6	42,4	47,1	66,8
AQ-252616P-HT	EFE-252616-HT	10,4	15,6	26,0	31,1	41,5	46,7	51,9	73,7
AR-254012P-HT	EFE-254012-HT	11,4	17,1	28,5	34,2	45,7	51,4	57,1	81,0
AR-254016P-HT	EFE-254016-HT	13,1	19,6	32,7	39,3	52,4	58,9	65,5	92,9
AR-256012P-HT	EFE-256012-HT	14,5	21,8	36,3	43,6	58,1	65,3	72,6	103,0
AR-304020P-HT	EFE-304020-HT	16,2	24,2	40,4	48,5	64,7	72,7	80,8	114,7
AQ-363609P-HT	EFE-363609-HT	11,5	17,3	28,8	34,6	46,1	51,8	57,6	81,8
AR-406025P-HT	EFE-406025-HT	25,2	37,8	62,9	75,5	100,7	113,3	125,8	178,6
AQ-414012P-HT	EFE-414012-HT	14,6	21,8	36,4	43,7	58,2	65,5	72,8	103,0
AQ-414020P-HT	EFE-414020-HT	18,3	27,5	45,8	55,0	73,3	82,4	91,6	130,0

Enclosure types (polyester)		Maximum power dissipation (W) – Tamb. up to **60**°C						
		INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)	INTERNAL TEMP.127°C (T4/T135°C)
AQ-080806P-HT	EFE-080806-HT	1,7	3,5	4,4	6,1	7,0	7,8	11,7
AQ-080808P-HT	EFE-080808-HT	2,3	4,6	5,7	8,0	9,1	10,2	15,2
AR-081106P-HT	EFE-081106-HT	2,1	4,3	5,3	7,5	8,5	9,6	14,3
AR-081108P-HT	EFE-081108-HT	2,8	5,6	7,0	9,8	11,2	12,6	18,7
AR-081606P-HT	EFE-081606-HT	2,9	5,8	7,2	10,1	11,6	13,0	19,4
AR-081608P-HT	EFE-081608-HT	3,4	6,8	8,5	11,9	13,7	15,4	22,9
AR-081906P-HT	EFE-081906-HT	3,2	6,4	8,0	11,2	12,8	14,4	21,4
AR-081908P-HT	EFE-081908-HT	3,8	7,5	9,4	13,2	15,1	17,0	25,3
AR-082306P-HT	EFE-082306-HT	3,6	7,2	9,0	12,6	14,4	16,2	24,1
AR-082308P-HT	EFE-082308-HT	4,2	8,5	10,6	14,8	16,9	19,0	28,3
AQ-121209P-HT	EFE-121209-HT	4,0	8,0	10,0	14,0	15,9	17,9	26,7
AR-122209P-HT	EFE-122209-HT	5,4	10,8	13,5	18,9	21,6	24,3	36,2
AQ-161609P-HT	EFE-161609-HT	5,2	10,4	13,0	18,2	20,8	23,4	34,8
AR-162609P-HT	EFE-162609-HT	6,7	13,4	16,8	23,5	26,8	30,2	44,9
AR-163609P-HT	EFE-163609-HT	8,1	16,2	20,3	28,4	32,4	36,5	54,2
AR-165609P-HT	EFE-165609-HT	10,7	21,4	26,7	37,4	42,7	48,1	71,5
AQ-202017P-HT	EFE-202017-HT	9,0	18,0	22,4	31,4	35,9	40,4	60,1
AR-203017P-HT	EFE-203017-HT	10,4	20,9	26,1	36,5	41,7	47,0	69,9
AQ-252612P-HT	EFE-252612-HT	9,4	18,8	23,5	32,9	37,6	42,4	63,0
AQ-252616P-HT	EFE-252616-HT	10,4	20,8	26,0	36,3	41,5	46,7	69,5
AR-254012P-HT	EFE-254012-HT	11,4	22,8	28,5	39,9	45,7	51,4	76,5
AR-254016P-HT	EFE-254016-HT	13,1	26,2	32,7	45,8	52,4	58,9	87,7
AR-256012P-HT	EFE-256012-HT	14,5	29,0	36,3	50,8	58,1	65,3	97,2
AR-304020P-HT	EFE-304020-HT	16,2	32,3	40,4	56,6	64,7	72,7	108,3
AQ-363609P-HT	EFE-363609-HT	11,5	23,0	28,8	40,3	46,1	51,8	77,1
AR-406025P-HT	EFE-406025-HT	25,2	50,3	62,9	88,1	100,7	113,3	168,7
AQ-414012P-HT	EFE-414012-HT	14,6	29,1	36,4	51,0	58,2	65,5	97,5
AQ-414020P-HT	EFE-414020-HT	18,3	36,6	45,8	64,1	73,3	82,4	122,7

Enclosure types (polyester)		Maximum power dissipation (W) Tamb. up to **95**°C		
		INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)	INTERNAL TEMP.127°C (T4/T135°C)
AQ-080806P-HT	EFE-080806-HT	0,9	1,7	5,6
AQ-080808P-HT	EFE-080808-HT	1,1	2,3	7,3
AR-081106P-HT	EFE-081106-HT	1,1	2,1	6,5
AR-081108P-HT	EFE-081108-HT	1,4	2,8	9,0
AR-081606P-HT	EFE-081606-HT	1,4	2,9	9,2
AR-081608P-HT	EFE-081608-HT	1,7	3,4	10,9
AR-081906P-HT	EFE-081906-HT	1,6	3,2	10,2
AR-081908P-HT	EFE-081908-HT	1,9	3,8	12,1
AR-082306P-HT	EFE-082306-HT	1,8	3,6	11,5
AR-082308P-HT	EFE-082308-HT	2,1	4,2	13,5
AQ-121209P-HT	EFE-121209-HT	2,0	4,0	12,8
AR-122209P-HT	EFE-122209-HT	2,7	5,4	17,3
AQ-161609P-HT	EFE-161609-HT	2,6	5,2	16,6
AR-162609P-HT	EFE-162609-HT	3,4	6,7	21,5
AR-163609P-HT	EFE-163609-HT	4,1	8,1	26,0
AR-165609P-HT	EFE-165609-HT	5,3	10,7	34,2
AQ-202017P-HT	EFE-202017-HT	4,5	9,0	28,7
AR-203017P-HT	EFE-203017-HT	5,2	10,4	33,4
AQ-252612P-HT	EFE-252612-HT	4,7	9,4	30,1
AQ-252616P-HT	EFE-252616-HT	5,2	10,4	33,2
AR-254012P-HT	EFE-254012-HT	5,7	11,4	36,5
AR-254016P-HT	EFE-254016-HT	6,5	13,1	41,9
AR-256012P-HT	EFE-256012-HT	7,3	14,5	46,4
AR-304020P-HT	EFE-304020-HT	8,1	16,2	51,8
AQ-363609P-HT	EFE-363609-HT	5,8	11,5	36,8
AR-406025P-HT	EFE-406025-HT	12,6	25,2	80,6
AQ-414012P-HT	EFE-414012-HT	7,3	14,6	46,6
AQ-414020P-HT	EFE-414020-HT	9,2	18,3	58,6

Power dissipation – HT aluminium alloy enclosures

Enclosure types (aluminium)		Maximum power dissipation (W) – Tamb. up to **40**°C							
		INTERNAL TEMP.60°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)	INTERNAL TEMP.130°C (T4/T135°C)
AQ-080806AL-HT	EFXE-080806AL-HT	5,2	7,8	10,4	11,7	14,3	15,6	16,9	23,4
AR-081306AL-HT	EFXE-081306AL-HT	7,0	10,6	14,1	15,9	19,4	21,2	23,0	31,8
AR-081806AL-HT	EFXE-081806AL-HT	8,9	13,3	17,8	20,0	24,5	26,7	28,9	40,0
AR-082505AL-HT	EFXE-082505AL-HT	10,9	16,4	21,9	24,7	30,1	32,9	35,6	49,4
AQ-101008AL-HT	EFXE-101008AL-HT	8,7	13,0	17,4	19,6	23,9	26,1	28,3	39,2
AR-101608AL-HT	EFXE-101608AL-HT	11,5	17,3	23,1	26,0	31,8	34,7	37,6	52,0
AR-102008AL-HT	EFXE-102008AL-HT	13,4	20,1	26,8	30,2	36,9	40,3	43,6	60,4
AQ-121208AL-HT	EFXE-121208AL-HT	10,8	16,2	21,6	24,3	29,7	32,4	35,1	48,6
AQ-121209AL-HT	EFXE-121209AL-HT	11,6	17,5	23,3	26,2	32,1	35,0	37,9	52,5
AR-122208AL-HT	EFXE-122208AL-HT	15,6	23,5	31,3	35,3	43,1	47,0	50,9	70,6
AR-122209AL-HT	EFXE-122209AL-HT	16,8	25,3	33,7	37,9	46,3	50,6	54,8	75,9
AR-123608AL-HT	EFXE-123608AL-HT	22,3	33,5	44,7	50,3	61,5	67,1	72,7	100,7
AQ-141409AL-HT	EFXE-141409AL-HT	13,7	20,6	27,5	31,0	37,9	41,3	44,8	62,0
AR-142009AL-HT	EFXE-142009AL-HT	17,1	25,7	34,2	38,5	47,1	51,4	55,7	77,1
AQ-161609AL-HT	EFXE-161609AL-HT	16,1	24,1	32,2	36,2	44,2	48,3	52,3	72,4
AR-162609AL-HT	EFXE-162609AL-HT	21,9	32,8	43,8	49,3	60,2	65,7	71,2	98,6
AR-163609AL-HT	EFXE-163609AL-HT	27,5	41,3	55,1	62,0	75,7	82,6	89,5	124,0
AR-165609AL-HT	EFXE-165609AL-HT	38,4	57,7	76,9	86,6	105,8	115,4	125,0	173,2
AQ-181810AL-HT	EFXE-181810AL-HT	19,7	29,6	39,5	44,4	54,3	59,2	64,2	88,8
AR-182810AL-HT	EFXE-182810AL-HT	26,1	39,1	52,2	58,7	71,8	78,3	84,8	117,5
AR-102311AL-HT	EFXE-102311AL-HT	18,2	27,3	36,5	41,0	50,1	54,7	59,3	82,1
AR-202311AL-HT	EFXE-202311AL-HT	26,1	39,1	52,2	58,7	71,7	78,3	84,8	117,4
AR-202318AL-HT	EFXE-202318AL-HT	35,9	53,9	71,8	80,8	98,8	107,8	116,8	161,7
AR-232811AL-HT	EFXE-232811AL-HT	31,6	47,5	63,3	71,3	87,1	95,0	103,0	142,6
AR-233311AL-HT	EFXE-233311AL-HT	35,3	52,9	70,6	79,4	97,0	105,9	114,7	158,8
AR-233318AL-HT	EFXE-233318AL-HT	47,5	71,3	95,1	107,0	130,8	142,7	154,6	214,1
AR-234011AL-HT	EFXE-234011AL-HT	40,2	60,4	80,5	90,6	110,7	120,8	130,9	181,2
AR-234023AL-HT	EFXE-234023AL-HT	62,2	93,3	124,5	140,0	171,2	186,7	202,3	280,1
AR-236011AL-HT	EFXE-236011AL-HT	54,1	81,2	108,3	121,9	148,9	162,5	176,0	243,8
AR-314011AL-HT	EFXE-314011AL-HT	48,6	72,9	97,2	109,3	133,6	145,8	157,9	218,7
AR-314014AL-HT	EFXE-314014AL-HT	54,9	82,4	109,9	123,7	151,2	164,9	178,7	247,4
AR-314018AL-HT	EFXE-314018AL-HT	63,8	95,7	127,6	143,5	175,4	191,4	207,3	287,1
AR-314023AL-HT	EFXE-314023AL-HT	73,5	110,3	147,1	165,5	202,3	220,7	239,1	331,0
AR-316011AL-HT	EFXE-316011AL-HT	64,0	96,0	128,1	144,1	176,1	192,1	208,1	288,2
AR-316018AL-HT	EFXE-316018AL-HT	82,7	124,1	165,5	186,2	227,6	248,3	268,9	372,4
AQ-606020AL-HT	EFXE-606020AL-HT	129,1	193,7	258,3	290,5	355,1	387,4	419,7	581,1

Enclosure types (aluminium)		Maximum power dissipation (W) – Tamb. up to **50**°C							
		INTERNAL TEMP.60°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)	INTERNAL TEMP.130°C (T4/T135°C)
AQ-080806AL-HT	EFXE-080806AL-HT	2,6	5,2	7,8	9,1	11,7	13,0	14,3	20,8
AR-081306AL-HT	EFXE-081306AL-HT	3,5	7,0	10,6	12,3	15,9	17,7	19,4	28,3
AR-081806AL-HT	EFXE-081806AL-HT	4,4	8,9	13,3	15,5	20,0	22,2	24,5	35,6
AR-082505AL-HT	EFXE-082505AL-HT	5,4	10,9	16,4	19,2	24,7	27,4	30,1	43,9
AQ-101008AL-HT	EFXE-101008AL-HT	4,3	8,7	13,0	15,2	19,6	21,7	23,9	34,8
AR-101608AL-HT	EFXE-101608AL-HT	5,7	11,5	17,3	20,2	26,0	28,9	31,8	46,2
AR-102008AL-HT	EFXE-102008AL-HT	6,7	13,4	20,1	23,5	30,2	33,5	36,9	53,7
AQ-121208AL-HT	EFXE-121208AL-HT	5,4	10,8	16,2	18,9	24,3	27,0	29,7	43,2
AQ-121209AL-HT	EFXE-121209AL-HT	5,8	11,6	17,5	20,4	26,2	29,2	32,1	46,7
AR-122208AL-HT	EFXE-122208AL-HT	7,8	15,6	23,5	27,4	35,3	39,2	43,1	62,7
AR-122209AL-HT	EFXE-122209AL-HT	8,4	16,8	25,3	29,5	37,9	42,1	46,3	67,4
AR-123608AL-HT	EFXE-123608AL-HT	11,1	22,3	33,5	39,1	50,3	55,9	61,5	89,5
AQ-141409AL-HT	EFXE-141409AL-HT	6,8	13,7	20,6	24,1	31,0	34,4	37,9	55,1
AR-142009AL-HT	EFXE-142009AL-HT	8,5	17,1	25,7	30,0	38,5	42,8	47,1	68,5
AQ-161609AL-HT	EFXE-161609AL-HT	8,0	16,1	24,1	28,1	36,2	40,2	44,2	64,4
AR-162609AL-HT	EFXE-162609AL-HT	10,9	21,9	32,8	38,3	49,3	54,8	60,2	87,6
AR-163609AL-HT	EFXE-163609AL-HT	13,7	27,5	41,3	48,2	62,0	68,9	75,7	110,2
AR-165609AL-HT	EFXE-165609AL-HT	19,2	38,4	57,7	67,3	86,6	96,2	105,8	153,9
AQ-181810AL-HT	EFXE-181810AL-HT	9,8	19,7	29,6	34,5	44,4	49,3	54,3	79,0
AR-182810AL-HT	EFXE-182810AL-HT	13,0	26,1	39,1	45,7	58,7	65,2	71,8	104,4
AR-102311AL-HT	EFXE-102311AL-HT	9,1	18,2	27,3	31,9	41,0	45,6	50,1	73,0
AR-202311AL-HT	EFXE-202311AL-HT	13,0	26,1	39,1	45,6	58,7	65,2	71,7	104,4
AR-202318AL-HT	EFXE-202318AL-HT	17,9	35,9	53,9	62,8	80,8	89,8	98,8	143,7
AR-232811AL-HT	EFXE-232811AL-HT	15,8	31,6	47,5	55,4	71,3	79,2	87,1	126,7
AR-233311AL-HT	EFXE-233311AL-HT	17,6	35,3	52,9	61,7	79,4	88,2	97,0	141,2
AR-233318AL-HT	EFXE-233318AL-HT	23,7	47,5	71,3	83,2	107,0	118,9	130,8	190,3
AR-234011AL-HT	EFXE-234011AL-HT	20,1	40,2	60,4	70,5	90,6	100,7	110,7	161,1
AR-234023AL-HT	EFXE-234023AL-HT	31,1	62,2	93,3	108,9	140,0	155,6	171,2	249,0
AR-236011AL-HT	EFXE-236011AL-HT	27,0	54,1	81,2	94,8	121,9	135,4	148,9	216,7
AR-314011AL-HT	EFXE-314011AL-HT	24,3	48,6	72,9	85,0	109,3	121,5	133,6	194,4
AR-314014AL-HT	EFXE-314014AL-HT	27,4	54,9	82,4	96,2	123,7	137,4	151,2	219,9
AR-314018AL-HT	EFXE-314018AL-HT	31,9	63,8	95,7	111,6	143,5	159,5	175,4	255,2
AR-314023AL-HT	EFXE-314023AL-HT	36,7	73,5	110,3	128,7	165,5	183,9	202,3	294,2
AR-316011AL-HT	EFXE-316011AL-HT	32,0	64,0	96,0	112,0	144,1	160,1	176,1	256,2
AR-316018AL-HT	EFXE-316018AL-HT	41,3	82,7	124,1	144,8	186,2	206,9	227,6	331,0
AQ-606020AL-HT	EFXE-606020AL-HT	64,5	129,1	193,7	226,0	290,5	322,8	355,1	516,6

Enclosure types (aluminium)		Maximum power dissipation (W) – Tamb. up to **55**°C							
		INTERNAL TEMP.65°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)	INTERNAL TEMP.130°C (T4/T135°C)
AQ-080806AL-HT	EFXE-080806AL-HT	2,6	3,9	6,5	7,8	10,4	11,7	13,0	19,5
AR-081306AL-HT	EFXE-081306AL-HT	3,5	5,3	8,8	10,6	14,1	15,9	17,7	26,5
AR-081806AL-HT	EFXE-081806AL-HT	4,4	6,6	11,1	13,3	17,8	20,0	22,2	33,4
AR-082505AL-HT	EFXE-082505AL-HT	5,4	8,2	13,7	16,4	21,9	24,7	27,4	41,1
AQ-101008AL-HT	EFXE-101008AL-HT	4,3	6,5	10,8	13,0	17,4	19,6	21,7	32,6
AR-101608AL-HT	EFXE-101608AL-HT	5,7	8,6	14,4	17,3	23,1	26,0	28,9	43,3
AR-102008AL-HT	EFXE-102008AL-HT	6,7	10,0	16,7	20,1	26,8	30,2	33,5	50,3
AQ-121208AL-HT	EFXE-121208AL-HT	5,4	8,1	13,5	16,2	21,6	24,3	27,0	40,5
AQ-121209AL-HT	EFXE-121209AL-HT	5,8	8,7	14,6	17,5	23,3	26,2	29,2	43,8
AR-122208AL-HT	EFXE-122208AL-HT	7,8	11,7	19,6	23,5	31,3	35,3	39,2	58,8
AR-122209AL-HT	EFXE-122209AL-HT	8,4	12,6	21,0	25,3	33,7	37,9	42,1	63,2
AR-123608AL-HT	EFXE-123608AL-HT	11,1	16,7	27,9	33,5	44,7	50,3	55,9	83,9
AQ-141409AL-HT	EFXE-141409AL-HT	6,8	10,3	17,2	20,6	27,5	31,0	34,4	51,7
AR-142009AL-HT	EFXE-142009AL-HT	8,5	12,8	21,4	25,7	34,2	38,5	42,8	64,3
AQ-161609AL-HT	EFXE-161609AL-HT	8,0	12,0	20,1	24,1	32,2	36,2	40,2	60,4
AR-162609AL-HT	EFXE-162609AL-HT	10,9	16,4	27,4	32,8	43,8	49,3	54,8	82,2
AR-163609AL-HT	EFXE-163609AL-HT	13,7	20,6	34,4	41,3	55,1	62,0	68,9	103,3
AR-165609AL-HT	EFXE-165609AL-HT	19,2	28,8	48,1	57,7	76,9	86,6	96,2	144,3
AQ-181810AL-HT	EFXE-181810AL-HT	9,8	14,8	24,6	29,6	39,5	44,4	49,3	74,0
AR-182810AL-HT	EFXE-182810AL-HT	13,0	19,5	32,6	39,1	52,2	58,7	65,2	97,9
AR-102311AL-HT	EFXE-102311AL-HT	9,1	13,6	22,8	27,3	36,5	41,0	45,6	68,4
AR-202311AL-HT	EFXE-202311AL-HT	13,0	19,5	32,6	39,1	52,2	58,7	65,2	97,9
AR-202318AL-HT	EFXE-202318AL-HT	17,9	26,9	44,9	53,9	71,8	80,8	89,8	134,7
AR-232811AL-HT	EFXE-232811AL-HT	15,8	23,7	39,6	47,5	63,3	71,3	79,2	118,8
AR-233311AL-HT	EFXE-233311AL-HT	17,6	26,4	44,1	52,9	70,6	79,4	88,2	132,3
AR-233318AL-HT	EFXE-233318AL-HT	23,7	35,6	59,4	71,3	95,1	107,0	118,9	178,4
AR-234011AL-HT	EFXE-234011AL-HT	20,1	30,2	50,3	60,4	80,5	90,6	100,7	151,0
AR-234023AL-HT	EFXE-234023AL-HT	31,1	46,6	77,8	93,3	124,5	140,0	155,6	233,4
AR-236011AL-HT	EFXE-236011AL-HT	27,0	40,6	67,7	81,2	108,3	121,9	135,4	203,1
AR-314011AL-HT	EFXE-314011AL-HT	24,3	36,4	60,7	72,9	97,2	109,3	121,5	182,3
AR-314014AL-HT	EFXE-314014AL-HT	27,4	41,2	68,7	82,4	109,9	123,7	137,4	206,2
AR-314018AL-HT	EFXE-314018AL-HT	31,9	47,8	79,7	95,7	127,6	143,5	159,5	239,2
AR-314023AL-HT	EFXE-314023AL-HT	36,7	55,1	91,9	110,3	147,1	165,5	183,9	275,8
AR-316011AL-HT	EFXE-316011AL-HT	32,0	48,0	80,0	96,0	128,1	144,1	160,1	240,1
AR-316018AL-HT	EFXE-316018AL-HT	41,3	62,0	103,4	124,1	165,5	186,2	206,9	310,3
AQ-606020AL-HT	EFXE-606020AL-HT	64,5	96,8	161,4	193,7	258,3	290,5	322,8	484,3

Enclosure types (aluminium)		Maximum power dissipation (W) – Tamb. up to **60**°C						
		INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)	INTERNAL TEMP.130°C (T4/T135°C)
AQ-080806AL-HT	EFXE-080806AL-HT	2,6	5,2	6,5	9,1	10,4	11,7	18,2
AR-081306AL-HT	EFXE-081306AL-HT	3,5	7,0	8,8	12,3	14,1	15,9	24,7
AR-081806AL-HT	EFXE-081806AL-HT	4,4	8,9	11,1	15,5	17,8	20,0	31,1
AR-082505AL-HT	EFXE-082505AL-HT	5,4	10,9	13,7	19,2	21,9	24,7	38,4
AQ-101008AL-HT	EFXE-101008AL-HT	4,3	8,7	10,8	15,2	17,4	19,6	30,4
AR-101608AL-HT	EFXE-101608AL-HT	5,7	11,5	14,4	20,2	23,1	26,0	40,5
AR-102008AL-HT	EFXE-102008AL-HT	6,7	13,4	16,7	23,5	26,8	30,2	47,0
AQ-121208AL-HT	EFXE-121208AL-HT	5,4	10,8	13,5	18,9	21,6	24,3	37,8
AQ-121209AL-HT	EFXE-121209AL-HT	5,8	11,6	14,6	20,4	23,3	26,2	40,8
AR-122208AL-HT	EFXE-122208AL-HT	7,8	15,6	19,6	27,4	31,3	35,3	54,9
AR-122209AL-HT	EFXE-122209AL-HT	8,4	16,8	21,0	29,5	33,7	37,9	59,0
AR-123608AL-HT	EFXE-123608AL-HT	11,1	22,3	27,9	39,1	44,7	50,3	78,3
AQ-141409AL-HT	EFXE-141409AL-HT	6,8	13,7	17,2	24,1	27,5	31,0	48,2
AR-142009AL-HT	EFXE-142009AL-HT	8,5	17,1	21,4	30,0	34,2	38,5	60,0
AQ-161609AL-HT	EFXE-161609AL-HT	8,0	16,1	20,1	28,1	32,2	36,2	56,3
AR-162609AL-HT	EFXE-162609AL-HT	10,9	21,9	27,4	38,3	43,8	49,3	76,7
AR-163609AL-HT	EFXE-163609AL-HT	13,7	27,5	34,4	48,2	55,1	62,0	96,4
AR-165609AL-HT	EFXE-165609AL-HT	19,2	38,4	48,1	67,3	76,9	86,6	134,7
AQ-181810AL-HT	EFXE-181810AL-HT	9,8	19,7	24,6	34,5	39,5	44,4	69,1
AR-182810AL-HT	EFXE-182810AL-HT	13,0	26,1	32,6	45,7	52,2	58,7	91,4
AR-102311AL-HT	EFXE-102311AL-HT	9,1	18,2	22,8	31,9	36,5	41,0	63,8
AR-202311AL-HT	EFXE-202311AL-HT	13,0	26,1	32,6	45,6	52,2	58,7	91,3
AR-202318AL-HT	EFXE-202318AL-HT	17,9	35,9	44,9	62,8	71,8	80,8	125,7
AR-232811AL-HT	EFXE-232811AL-HT	15,8	31,6	39,6	55,4	63,3	71,3	110,9
AR-233311AL-HT	EFXE-233311AL-HT	17,6	35,3	44,1	61,7	70,6	79,4	123,5
AR-233318AL-HT	EFXE-233318AL-HT	23,7	47,5	59,4	83,2	95,1	107,0	166,5
AR-234011AL-HT	EFXE-234011AL-HT	20,1	40,2	50,3	70,5	80,5	90,6	141,0
AR-234023AL-HT	EFXE-234023AL-HT	31,1	62,2	77,8	108,9	124,5	140,0	217,9
AR-236011AL-HT	EFXE-236011AL-HT	27,0	54,1	67,7	94,8	108,3	121,9	189,6
AR-314011AL-HT	EFXE-314011AL-HT	24,3	48,6	60,7	85,0	97,2	109,3	170,1
AR-314014AL-HT	EFXE-314014AL-HT	27,4	54,9	68,7	96,2	109,9	123,7	192,4
AR-314018AL-HT	EFXE-314018AL-HT	31,9	63,8	79,7	111,6	127,6	143,5	223,3
AR-314023AL-HT	EFXE-314023AL-HT	36,7	73,5	91,9	128,7	147,1	165,5	257,4
AR-316011AL-HT	EFXE-316011AL-HT	32,0	64,0	80,0	112,0	128,1	144,1	224,1
AR-316018AL-HT	EFXE-316018AL-HT	41,3	82,7	103,4	144,8	165,5	186,2	289,6
AQ-606020AL-HT	EFXE-606020AL-HT	64,5	129,1	161,4	226,0	258,3	290,5	452,0

Enclosure types (aluminium)		Maximum power dissipation (W) Tamb. up to **95**°C		
		INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)	INTERNAL TEMP.130°C (T4/T135°C)
AQ-080806AL-HT	EFXE-080806AL-HT	1,3	2,6	9,1
AR-081306AL-HT	EFXE-081306AL-HT	1,7	3,5	12,3
AR-081806AL-HT	EFXE-081806AL-HT	2,2	4,4	15,5
AR-082505AL-HT	EFXE-082505AL-HT	2,7	5,4	19,2
AQ-101008AL-HT	EFXE-101008AL-HT	2,1	4,3	15,2
AR-101608AL-HT	EFXE-101608AL-HT	2,8	5,7	20,2
AR-102008AL-HT	EFXE-102008AL-HT	3,3	6,7	23,5
AQ-121208AL-HT	EFXE-121208AL-HT	2,7	5,4	18,9
AQ-121209AL-HT	EFXE-121209AL-HT	2,9	5,8	20,4
AR-122208AL-HT	EFXE-122208AL-HT	3,9	7,8	27,4
AR-122209AL-HT	EFXE-122209AL-HT	4,2	8,4	29,5
AR-123608AL-HT	EFXE-123608AL-HT	5,5	11,1	39,1
AQ-141409AL-HT	EFXE-141409AL-HT	3,4	6,8	24,1
AR-142009AL-HT	EFXE-142009AL-HT	4,2	8,5	30,0
AQ-161609AL-HT	EFXE-161609AL-HT	4,0	8,0	28,1
AR-162609AL-HT	EFXE-162609AL-HT	5,4	10,9	38,3
AR-163609AL-HT	EFXE-163609AL-HT	6,8	13,7	48,2
AR-165609AL-HT	EFXE-165609AL-HT	9,6	19,2	67,3
AQ-181810AL-HT	EFXE-181810AL-HT	4,9	9,8	34,5
AR-182810AL-HT	EFXE-182810AL-HT	6,5	13,0	45,7
AR-102311AL-HT	EFXE-102311AL-HT	4,5	9,1	31,9
AR-202311AL-HT	EFXE-202311AL-HT	6,5	13,0	45,6
AR-202318AL-HT	EFXE-202318AL-HT	8,9	17,9	62,8
AR-232811AL-HT	EFXE-232811AL-HT	7,9	15,8	55,4
AR-233311AL-HT	EFXE-233311AL-HT	8,8	17,6	61,7
AR-233318AL-HT	EFXE-233318AL-HT	11,8	23,7	83,2
AR-234011AL-HT	EFXE-234011AL-HT	10,0	20,1	70,5
AR-234023AL-HT	EFXE-234023AL-HT	15,5	31,1	108,9
AR-236011AL-HT	EFXE-236011AL-HT	13,5	27,0	94,8
AR-314011AL-HT	EFXE-314011AL-HT	12,1	24,3	85,0
AR-314014AL-HT	EFXE-314014AL-HT	13,7	27,4	96,2
AR-314018AL-HT	EFXE-314018AL-HT	15,9	31,9	111,6
AR-314023AL-HT	EFXE-314023AL-HT	18,3	36,7	128,7
AR-316011AL-HT	EFXE-316011AL-HT	16,0	32,0	112,0
AR-316018AL-HT	EFXE-316018AL-HT	20,6	41,3	144,8
AQ-606020AL-HT	EFXE-606020AL-HT	32,2	64,5	226,0

Power dissipation – Glass fiber reinforced polyester resin enclosures

Enclosure types (polyester)		Maximum power dissipation (W) – Tamb. up to **40**°C						
		INTERNAL TEMP.60°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
AQ-080806P	EFE-080806	3,4	5,2	6,9	7,8	9,5	10,4	11,3
AQ-080808P	EFE-080808	4,5	6,8	9,1	10,2	12,5	13,6	14,7
AR-081106P	EFE-081106	4,2	6,4	8,5	9,6	11,7	12,8	13,8
AR-081606P	EFE-081606	5,7	8,6	11,5	13,0	15,9	17,3	18,8
AR-081906P	EFE-081906	6,4	9,6	12,8	14,4	17,6	19,2	20,8
AQ-121209P	EFE-121209	7,9	11,9	15,9	17,9	21,9	23,9	25,9
AR-122209P	EFE-122209	10,8	16,2	21,6	24,3	29,7	32,4	35,1
AQ-161609P	EFE-161609	10,3	15,5	20,7	23,3	28,5	31,1	33,7
AR-162609P	EFE-162609	13,4	20,1	26,8	30,1	36,8	40,2	43,5
AR-163609P	EFE-163609	16,2	24,3	32,4	36,4	44,5	48,6	52,6
AQ-252612P	EFE-252612	18,8	28,2	37,6	42,3	51,7	56,4	61,1
AQ-252616P	EFE-252616	21,7	32,6	43,5	49,0	59,9	65,3	70,8
AR-254012P	EFE-254012	23,9	35,9	47,9	53,9	65,9	71,8	77,8
AR-254016P	EFE-254016	27,4	41,2	54,9	61,8	75,6	82,4	89,3
AR-256012P	EFE-256012	29,0	43,5	58,0	65,3	79,8	87,1	94,3
AQ-414012P	EFE-414012	29,1	43,6	58,2	65,5	80,0	87,3	94,6
AQ-414016P	EFE-414016	32,9	49,4	65,9	74,1	90,6	98,8	107,0

Enclosure types (polyester)		Maximum power dissipation (W) – Tamb. up to **50**°C						
		INTERNAL TEMP.60°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
AQ-080806P	EFE-080806	1,7	3,4	5,2	6,0	7,8	8,7	9,5
AQ-080808P	EFE-080808	2,2	4,5	6,8	7,9	10,2	11,3	12,5
AR-081106P	EFE-081106	2,1	4,2	6,4	7,4	9,6	10,6	11,7
AR-081606P	EFE-081606	2,8	5,7	8,6	10,1	13,0	14,4	15,9
AR-081906P	EFE-081906	3,2	6,4	9,6	11,2	14,4	16,0	17,6
AQ-121209P	EFE-121209	3,9	7,9	11,9	13,9	17,9	19,9	21,9
AR-122209P	EFE-122209	5,4	10,8	16,2	18,9	24,3	27,0	29,7
AQ-161609P	EFE-161609	5,1	10,3	15,5	18,1	23,3	25,9	28,5
AR-162609P	EFE-162609	6,7	13,4	20,1	23,4	30,1	33,5	36,8
AR-163609P	EFE-163609	8,1	16,2	24,3	28,3	36,4	40,5	44,5
AQ-252612P	EFE-252612	9,4	18,8	28,2	32,9	42,3	47,0	51,7
AQ-252616P	EFE-252616	10,8	21,7	32,6	38,1	49,0	54,4	59,9
AR-254012P	EFE-254012	11,9	23,9	35,9	41,9	53,9	59,9	65,9
AR-254016P	EFE-254016	13,7	27,4	41,2	48,1	61,8	68,7	75,6
AR-256012P	EFE-256012	14,5	29,0	43,5	50,8	65,3	72,6	79,8
AQ-414012P	EFE-414012	14,5	29,1	43,6	50,9	65,5	72,7	80,0
AQ-414016P	EFE-414016	16,4	32,9	49,4	57,6	74,1	82,3	90,6

Enclosure types (polyester)		Maximum power dissipation (W) – Tamb. up to **55**°C						
		INTERNAL TEMP.65°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
AQ-080806P	EFE-080806	1,7	2,6	4,3	5,2	6,9	7,8	8,7
AQ-080808P	EFE-080808	2,2	3,4	5,6	6,8	9,1	10,2	11,3
AR-081106P	EFE-081106	2,1	3,2	5,3	6,4	8,5	9,6	10,6
AR-081606P	EFE-081606	2,8	4,3	7,2	8,6	11,5	13,0	14,4
AR-081906P	EFE-081906	3,2	4,8	8,0	9,6	12,8	14,4	16,0
AQ-121209P	EFE-121209	3,9	5,9	9,9	11,9	15,9	17,9	19,9
AR-122209P	EFE-122209	5,4	8,1	13,5	16,2	21,6	24,3	27,0
AQ-161609P	EFE-161609	5,1	7,7	12,9	15,5	20,7	23,3	25,9
AR-162609P	EFE-162609	6,7	10,0	16,7	20,1	26,8	30,1	33,5
AR-163609P	EFE-163609	8,1	12,1	20,2	24,3	32,4	36,4	40,5
AQ-252612P	EFE-252612	9,4	14,1	23,5	28,2	37,6	42,3	47,0
AQ-252616P	EFE-252616	10,8	16,3	27,2	32,6	43,5	49,0	54,4
AR-254012P	EFE-254012	11,9	17,9	29,9	35,9	47,9	53,9	59,9
AR-254016P	EFE-254016	13,7	20,6	34,3	41,2	54,9	61,8	68,7
AR-256012P	EFE-256012	14,5	21,7	36,3	43,5	58,0	65,3	72,6
AQ-414012P	EFE-414012	14,5	21,8	36,3	43,6	58,2	65,5	72,7
AQ-414016P	EFE-414016	16,4	24,7	41,1	49,4	65,9	74,1	82,3

Enclosure types (polyester)		Maximum power dissipation (W) – Tamb. up to **60**°C					
		INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
AQ-080806P	EFE-080806	1,7	3,4	4,3	6,0	6,9	7,8
AQ-080808P	EFE-080808	2,2	4,5	5,6	7,9	9,1	10,2
AR-081106P	EFE-081106	2,1	4,2	5,3	7,4	8,5	9,6
AR-081606P	EFE-081606	2,8	5,7	7,2	10,1	11,5	13,0
AR-081906P	EFE-081906	3,2	6,4	8,0	11,2	12,8	14,4
AQ-121209P	EFE-121209	3,9	7,9	9,9	13,9	15,9	17,9
AR-122209P	EFE-122209	5,4	10,8	13,5	18,9	21,6	24,3
AQ-161609P	EFE-161609	5,1	10,3	12,9	18,1	20,7	23,3
AR-162609P	EFE-162609	6,7	13,4	16,7	23,4	26,8	30,1
AR-163609P	EFE-163609	8,1	16,2	20,2	28,3	32,4	36,4
AQ-252612P	EFE-252612	9,4	18,8	23,5	32,9	37,6	42,3
AQ-252616P	EFE-252616	10,8	21,7	27,2	38,1	43,5	49,0
AR-254012P	EFE-254012	11,9	23,9	29,9	41,9	47,9	53,9
AR-254016P	EFE-254016	13,7	27,4	34,3	48,1	54,9	61,8
AR-256012P	EFE-256012	14,5	29,0	36,3	50,8	58,0	65,3
AQ-414012P	EFE-414012	14,5	29,1	36,3	50,9	58,2	65,5
AQ-414016P	EFE-414016	16,4	32,9	41,1	57,6	65,9	74,1

Enclosure types (polyester)		Maximum power dissipation (W) – Tamb. up to **95**°C	
		INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
AQ-080806P	EFE-080806	0,8	1,7
AQ-080808P	EFE-080808	1,1	2,2
AR-081106P	EFE-081106	1,0	2,1
AR-081606P	EFE-081606	1,4	2,8
AR-081906P	EFE-081906	1,6	3,2
AQ-121209P	EFE-121209	1,9	3,9
AR-122209P	EFE-122209	2,7	5,4
AQ-161609P	EFE-161609	2,5	5,1
AR-162609P	EFE-162609	3,3	6,7
AR-163609P	EFE-163609	4,0	8,1
AQ-252612P	EFE-252612	4,7	9,4
AQ-252616P	EFE-252616	5,4	10,8
AR-254012P	EFE-254012	5,9	11,9
AR-254016P	EFE-254016	6,8	13,7
AR-256012P	EFE-256012	7,2	14,5
AQ-414012P	EFE-414012	7,2	14,5
AQ-414016P	EFE-414016	8,2	16,4

Power dissipation – Aluminium alloy enclosures

Enclosure types (aluminium)		Maximum power dissipation (W) – Tamb. up to **40**°C						
		INTERNAL TEMP.60°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
AQ-080806AL	EFXE-080806AL	5,2	7,8	10,4	11,7	14,3	15,6	16,9
AR-081306AL	EFXE-081306AL	7,0	10,6	14,1	15,9	19,4	21,2	23,0
AR-081806AL	EFXE-081806AL	8,9	13,3	17,8	20,0	24,5	26,7	28,9
AR-081808AL	EFXE-081808AL	11,0	16,5	22,1	24,8	30,4	33,1	35,9
AR-082505AL	EFXE-082505AL	10,7	16,1	21,4	24,1	29,5	32,2	34,8
AR-082508AL	EFXE-082508AL	14,2	21,4	28,5	32,1	39,2	42,8	46,4
AQ-101008AL	EFXE-101008AL	8,7	13,0	17,4	19,6	23,9	26,1	28,3
AR-101508AL	EFXE-101508AL	11,1	16,6	22,2	24,9	30,5	33,3	36,0
AR-101608AL	EFXE-101608AL	11,5	17,3	23,1	26,0	31,8	34,7	37,6
AR-102008AL	EFXE-102008AL	13,4	20,1	26,8	30,2	36,9	40,3	43,6
AQ-121208AL	EFXE-121208AL	10,8	16,2	21,6	24,3	29,7	32,4	35,1
AR-122209AL	EFXE-122209AL	16,8	25,3	33,7	37,9	46,3	50,6	54,8
AQ-141409AL	EFXE-141409AL	13,7	20,6	27,5	31,0	37,9	41,3	44,8
AR-142009AL	EFXE-142009AL	17,1	25,7	34,2	38,5	47,1	51,4	55,7
AQ-161609AL	EFXE-161609AL	17,2	25,8	34,4	38,7	47,3	51,6	55,9
AR-162410AL	EFXE-162410AL	22,1	33,1	44,2	49,7	60,8	66,3	71,8
AR-162609AL	EFXE-162609AL	21,9	32,8	43,8	49,3	60,2	65,7	71,2
AQ-181810AL	EFXE-181810AL	19,7	29,6	39,5	44,4	54,3	59,2	64,2
AR-182810AL	EFXE-182810AL	26,1	39,1	52,2	58,7	71,8	78,3	84,8
AR-202311AL	EFXE-202311AL	25,8	38,7	51,6	58,0	71,0	77,4	83,9
AR-202318AL	EFXE-202318AL	35,5	53,3	71,1	80,0	97,8	106,7	115,6
AR-232811AL	EFXE-232811AL	31,6	47,5	63,3	71,3	87,1	95,0	103,0
AR-233312AL	EFXE-233312AL	37,0	55,6	74,1	83,4	101,9	111,2	120,5
AR-233318AL	EFXE-233318AL	47,5	71,3	95,1	107,0	130,8	142,7	154,6

Enclosure types (aluminium)		Maximum power dissipation (W) – Tamb. up to **50**°C						
		INTERNAL TEMP.60°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
AQ-080806AL	EFXE-080806AL	2,6	5,2	7,8	9,1	11,7	13,0	14,3
AR-081306AL	EFXE-081306AL	3,5	7,0	10,6	12,3	15,9	17,7	19,4
AR-081806AL	EFXE-081806AL	4,4	8,9	13,3	15,5	20,0	22,2	24,5
AR-081808AL	EFXE-081808AL	5,5	11,0	16,5	19,3	24,8	27,6	30,4
AR-082505AL	EFXE-082505AL	5,3	10,7	16,1	18,7	24,1	26,8	29,5
AR-082508AL	EFXE-082508AL	7,1	14,2	21,4	24,9	32,1	35,7	39,2
AQ-101008AL	EFXE-101008AL	4,3	8,7	13,0	15,2	19,6	21,7	23,9
AR-101508AL	EFXE-101508AL	5,5	11,1	16,6	19,4	24,9	27,7	30,5
AR-101608AL	EFXE-101608AL	5,7	11,5	17,3	20,2	26,0	28,9	31,8
AR-102008AL	EFXE-102008AL	6,7	13,4	20,1	23,5	30,2	33,5	36,9
AQ-121208AL	EFXE-121208AL	5,4	10,8	16,2	18,9	24,3	27,0	29,7
AR-122209AL	EFXE-122209AL	8,4	16,8	25,3	29,5	37,9	42,1	46,3
AQ-141409AL	EFXE-141409AL	6,8	13,7	20,6	24,1	31,0	34,4	37,9
AR-142009AL	EFXE-142009AL	8,5	17,1	25,7	30,0	38,5	42,8	47,1
AQ-161609AL	EFXE-161609AL	8,6	17,2	25,8	30,1	38,7	43,0	47,3
AR-162410AL	EFXE-162410AL	11,0	22,1	33,1	38,7	49,7	55,3	60,8
AR-162609AL	EFXE-162609AL	10,9	21,9	32,8	38,3	49,3	54,8	60,2
AQ-181810AL	EFXE-181810AL	9,8	19,7	29,6	34,5	44,4	49,3	54,3
AR-182810AL	EFXE-182810AL	13,0	26,1	39,1	45,7	58,7	65,2	71,8
AR-202311AL	EFXE-202311AL	12,9	25,8	38,7	45,1	58,0	64,5	71,0
AR-202318AL	EFXE-202318AL	17,7	35,5	53,3	62,2	80,0	88,9	97,8
AR-232811AL	EFXE-232811AL	15,8	31,6	47,5	55,4	71,3	79,2	87,1
AR-233312AL	EFXE-233312AL	18,5	37,0	55,6	64,8	83,4	92,7	101,9
AR-233318AL	EFXE-233318AL	23,7	47,5	71,3	83,2	107,0	118,9	130,8

Enclosure types (aluminium)		Maximum power dissipation (W) – Tamb. up to **55**°C						
		INTERNAL TEMP.65°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
AQ-080806AL	EFXE-080806AL	2,6	3,9	6,5	7,8	10,4	11,7	13,0
AR-081306AL	EFXE-081306AL	3,5	5,3	8,8	10,6	14,1	15,9	17,7
AR-081806AL	EFXE-081806AL	4,4	6,6	11,1	13,3	17,8	20,0	22,2
AR-081808AL	EFXE-081808AL	5,5	8,2	13,8	16,5	22,1	24,8	27,6
AR-082505AL	EFXE-082505AL	5,3	8,0	13,4	16,1	21,4	24,1	26,8
AR-082508AL	EFXE-082508AL	7,1	10,7	17,8	21,4	28,5	32,1	35,7
AQ-101008AL	EFXE-101008AL	4,3	6,5	10,8	13,0	17,4	19,6	21,7
AR-101508AL	EFXE-101508AL	5,5	8,3	13,8	16,6	22,2	24,9	27,7
AR-101608AL	EFXE-101608AL	5,7	8,6	14,4	17,3	23,1	26,0	28,9
AR-102008AL	EFXE-102008AL	6,7	10,0	16,7	20,1	26,8	30,2	33,5
AQ-121208AL	EFXE-121208AL	5,4	8,1	13,5	16,2	21,6	24,3	27,0
AR-122209AL	EFXE-122209AL	8,4	12,6	21,0	25,3	33,7	37,9	42,1
AQ-141409AL	EFXE-141409AL	6,8	10,3	17,2	20,6	27,5	31,0	34,4
AR-142009AL	EFXE-142009AL	8,5	12,8	21,4	25,7	34,2	38,5	42,8
AQ-161609AL	EFXE-161609AL	8,6	12,9	21,5	25,8	34,4	38,7	43,0
AR-162410AL	EFXE-162410AL	11,0	16,5	27,6	33,1	44,2	49,7	55,3
AR-162609AL	EFXE-162609AL	10,9	16,4	27,4	32,8	43,8	49,3	54,8
AQ-181810AL	EFXE-181810AL	9,8	14,8	24,6	29,6	39,5	44,4	49,3
AR-182810AL	EFXE-182810AL	13,0	19,5	32,6	39,1	52,2	58,7	65,2
AR-202311AL	EFXE-202311AL	12,9	19,3	32,2	38,7	51,6	58,0	64,5
AR-202318AL	EFXE-202318AL	17,7	26,6	44,4	53,3	71,1	80,0	88,9
AR-232811AL	EFXE-232811AL	15,8	23,7	39,6	47,5	63,3	71,3	79,2
AR-233312AL	EFXE-233312AL	18,5	27,8	46,3	55,6	74,1	83,4	92,7
AR-233318AL	EFXE-233318AL	23,7	35,6	59,4	71,3	95,1	107,0	118,9

Enclosure types (aluminium)		Maximum power dissipation (W) – Tamb. up to **60**°C					
		INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
AQ-080806AL	EFXE-080806AL	2,6	5,2	6,5	9,1	10,4	11,7
AR-081306AL	EFXE-081306AL	3,5	7,0	8,8	12,3	14,1	15,9
AR-081806AL	EFXE-081806AL	4,4	8,9	11,1	15,5	17,8	20,0
AR-081808AL	EFXE-081808AL	5,5	11,0	13,8	19,3	22,1	24,8
AR-082505AL	EFXE-082505AL	5,3	10,7	13,4	18,7	21,4	24,1
AR-082508AL	EFXE-082508AL	7,1	14,2	17,8	24,9	28,5	32,1
AQ-101008AL	EFXE-101008AL	4,3	8,7	10,8	15,2	17,4	19,6
AR-101508AL	EFXE-101508AL	5,5	11,1	13,8	19,4	22,2	24,9
AR-101608AL	EFXE-101608AL	5,7	11,5	14,4	20,2	23,1	26,0
AR-102008AL	EFXE-102008AL	6,7	13,4	16,7	23,5	26,8	30,2
AQ-121208AL	EFXE-121208AL	5,4	10,8	13,5	18,9	21,6	24,3
AR-122209AL	EFXE-122209AL	8,4	16,8	21,0	29,5	33,7	37,9
AQ-141409AL	EFXE-141409AL	6,8	13,7	17,2	24,1	27,5	31,0
AR-142009AL	EFXE-142009AL	8,5	17,1	21,4	30,0	34,2	38,5
AQ-161609AL	EFXE-161609AL	8,6	17,2	21,5	30,1	34,4	38,7
AR-162410AL	EFXE-162410AL	11,0	22,1	27,6	38,7	44,2	49,7
AR-162609AL	EFXE-162609AL	10,9	21,9	27,4	38,3	43,8	49,3
AQ-181810AL	EFXE-181810AL	9,8	19,7	24,6	34,5	39,5	44,4
AR-182810AL	EFXE-182810AL	13,0	26,1	32,6	45,7	52,2	58,7
AR-202311AL	EFXE-202311AL	12,9	25,8	32,2	45,1	51,6	58,0
AR-202318AL	EFXE-202318AL	17,7	35,5	44,4	62,2	71,1	80,0
AR-232811AL	EFXE-232811AL	15,8	31,6	39,6	55,4	63,3	71,3
AR-233312AL	EFXE-233312AL	18,5	37,0	46,3	64,8	74,1	83,4
AR-233318AL	EFXE-233318AL	23,7	47,5	59,4	83,2	95,1	107,0

Enclosure types (aluminium)		Maximum power dissipation (W) – Tamb. up to **95**°C	
		INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
AQ-080806AL	EFXE-080806AL	1,3	2,6
AR-081306AL	EFXE-081306AL	1,7	3,5
AR-081806AL	EFXE-081806AL	2,2	4,4
AR-081808AL	EFXE-081808AL	2,7	5,5
AR-082505AL	EFXE-082505AL	2,6	5,3
AR-082508AL	EFXE-082508AL	3,5	7,1
AQ-101008AL	EFXE-101008AL	2,1	4,3
AR-101508AL	EFXE-101508AL	2,7	5,5
AR-101608AL	EFXE-101608AL	2,8	5,7
AR-102008AL	EFXE-102008AL	3,3	6,7
AQ-121208AL	EFXE-121208AL	2,7	5,4
AR-122209AL	EFXE-122209AL	4,2	8,4
AQ-141409AL	EFXE-141409AL	3,4	6,8
AR-142009AL	EFXE-142009AL	4,2	8,5
AQ-161609AL	EFXE-161609AL	4,3	8,6
AR-162410AL	EFXE-162410AL	5,5	11,0
AR-162609AL	EFXE-162609AL	5,4	10,9
AQ-181810AL	EFXE-181810AL	4,9	9,8
AR-182810AL	EFXE-182810AL	6,5	13,0
AR-202311AL	EFXE-202311AL	6,4	12,9
AR-202318AL	EFXE-202318AL	8,8	17,7
AR-232811AL	EFXE-232811AL	7,9	15,8
AR-233312AL	EFXE-233312AL	9,2	18,5
AR-233318AL	EFXE-233318AL	11,8	23,7

Power dissipation – Stainless steel enclosures SB series

Enclosure types (stainless steel)		Maximum power dissipation (W) – Tamb. up to **40**°C						
		INTERNAL TEMP.60°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
SB-101210	EFXE-101210SB	5,5	8,3	11,1	12,5	15,3	16,7	18,1
SB-151510	EFXE-151510SB	8,0	12,0	16,0	18,0	22,0	24,0	26,1
SB-142013	EFXE-142013SB	10,4	15,7	20,9	23,5	28,8	31,4	34,0
SB-202010	EFXE-202010SB	10,7	16,1	21,4	24,1	29,5	32,2	34,8
SB-202016	EFXE-202016SB	13,9	20,8	27,8	31,3	38,3	41,7	45,2
SB-202713	EFXE-202713SB	14,4	21,6	28,9	32,5	39,7	43,3	46,9
SB-272713	EFXE-272713SB	16,7	25,1	33,5	37,7	46,0	50,2	54,4
SB-203016	EFXE-203016SB	17,1	25,7	34,3	38,6	47,2	51,4	55,7
SB-273513	EFXE-273513SB	19,2	28,9	38,5	43,3	53,0	57,8	62,6
SB-282816	EFXE-282816SB	19,3	29,0	38,7	43,6	53,3	58,1	63,0
SB-204016	EFXE-204016SB	20,2	30,3	40,4	45,5	55,6	60,6	65,7
SB-353516	EFXE-353516SB	24,4	36,6	48,8	54,9	67,1	73,2	79,3
SB-282827	EFXE-282827SB	26,2	39,3	52,5	59,0	72,2	78,7	85,3
SB-355016	EFXE-355016SB	29,7	44,5	59,4	66,8	81,7	89,1	96,6
SB-383816	EFXE-383816SB	26,6	39,9	53,2	59,8	73,1	79,8	86,5
SB-384516	EFXE-384516SB	29,1	43,7	58,3	65,6	80,2	87,5	94,8
SB-385716	EFXE-385716SB	33,4	50,1	66,8	75,2	91,9	100,3	108,7
SB-505016	EFXE-505016SB	35,8	53,8	71,7	80,7	98,6	107,6	116,6
SB-383827	EFXE-383827SB	35,1	52,7	70,2	79,0	96,6	105,4	114,2
SB-575716	EFXE-575716SB	41,5	62,3	83,1	93,5	114,3	124,7	135,1
SB-577620	EFXE-577620SB	53,9	80,9	107,9	121,3	148,3	161,8	175,3
SB-575730	EFXE-575730SB	55,8	83,7	111,6	125,6	153,5	167,5	181,4
SB-769520	EFXE-769520SB	72,2	108,3	144,4	162,4	198,5	216,6	234,6
SB-1258040	EFXE-1258040SB	72,2	108,3	144,4	162,4	198,5	216,6	234,6

Enclosure types (Stainless steel)		Maximum power dissipation (W) – Tamb. up to **50**°C						
		INTERNAL TEMP.60°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
SB-101210	EFXE-101210SB	2,7	5,5	8,3	9,7	12,5	13,9	15,3
SB-151510	EFXE-151510SB	4,0	8,0	12,0	14,0	18,0	20,0	22,0
SB-142013	EFXE-142013SB	5,2	10,4	15,7	18,3	23,5	26,2	28,8
SB-202010	EFXE-202010SB	5,3	10,7	16,1	18,7	24,1	26,8	29,5
SB-202016	EFXE-202016SB	6,9	13,9	20,8	24,3	31,3	34,8	38,3
SB-202713	EFXE-202713SB	7,2	14,4	21,6	25,2	32,5	36,1	39,7
SB-272713	EFXE-272713SB	8,3	16,7	25,1	29,3	37,7	41,8	46,0
SB-203016	EFXE-203016SB	8,5	17,1	25,7	30,0	38,6	42,9	47,2
SB-273513	EFXE-273513SB	9,6	19,2	28,9	33,7	43,3	48,2	53,0
SB-282816	EFXE-282816SB	9,6	19,3	29,0	33,9	43,6	48,4	53,3
SB-204016	EFXE-204016SB	10,1	20,2	30,3	35,4	45,5	50,5	55,6
SB-353516	EFXE-353516SB	12,2	24,4	36,6	42,7	54,9	61,0	67,1
SB-282827	EFXE-282827SB	13,1	26,2	39,3	45,9	59,0	65,6	72,2
SB-355016	EFXE-355016SB	14,8	29,7	44,5	52,0	66,8	74,3	81,7
SB-383816	EFXE-383816SB	13,3	26,6	39,9	46,5	59,8	66,5	73,1
SB-384516	EFXE-384516SB	14,5	29,1	43,7	51,0	65,6	72,9	80,2
SB-385716	EFXE-385716SB	16,7	33,4	50,1	58,5	75,2	83,6	91,9
SB-505016	EFXE-505016SB	17,9	35,8	53,8	62,7	80,7	89,7	98,6
SB-383827	EFXE-383827SB	17,5	35,1	52,7	61,4	79,0	87,8	96,6
SB-575716	EFXE-575716SB	20,7	41,5	62,3	72,7	93,5	103,9	114,3
SB-577620	EFXE-577620SB	26,9	53,9	80,9	94,4	121,3	134,8	148,3
SB-575730	EFXE-575730SB	27,9	55,8	83,7	97,7	125,6	139,5	153,5
SB-769520	EFXE-769520SB	36,1	72,2	108,3	126,3	162,4	180,5	198,5
SB-1258040	EFXE-1258040SB	36,1	72,2	108,3	126,3	162,4	180,5	198,5

Enclosure types (Stainless steel)		Maximum power dissipation (W) – Tamb. up to **55**°C						
		INTERNAL TEMP.65°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
SB-101210	EFXE-101210SB	2,7	4,1	6,9	8,3	11,1	12,5	13,9
SB-151510	EFXE-151510SB	4,0	6,0	10,0	12,0	16,0	18,0	20,0
SB-142013	EFXE-142013SB	5,2	7,8	13,1	15,7	20,9	23,5	26,2
SB-202010	EFXE-202010SB	5,3	8,0	13,4	16,1	21,4	24,1	26,8
SB-202016	EFXE-202016SB	6,9	10,4	17,4	20,8	27,8	31,3	34,8
SB-202713	EFXE-202713SB	7,2	10,8	18,0	21,6	28,9	32,5	36,1
SB-272713	EFXE-272713SB	8,3	12,5	20,9	25,1	33,5	37,7	41,8
SB-203016	EFXE-203016SB	8,5	12,8	21,4	25,7	34,3	38,6	42,9
SB-273513	EFXE-273513SB	9,6	14,4	24,1	28,9	38,5	43,3	48,2
SB-282816	EFXE-282816SB	9,6	14,5	24,2	29,0	38,7	43,6	48,4
SB-204016	EFXE-204016SB	10,1	15,1	25,2	30,3	40,4	45,5	50,5
SB-353516	EFXE-353516SB	12,2	18,3	30,5	36,6	48,8	54,9	61,0
SB-282827	EFXE-282827SB	13,1	19,6	32,8	39,3	52,5	59,0	65,6
SB-355016	EFXE-355016SB	14,8	22,2	37,1	44,5	59,4	66,8	74,3
SB-383816	EFXE-383816SB	13,3	19,9	33,2	39,9	53,2	59,8	66,5
SB-384516	EFXE-384516SB	14,5	21,8	36,4	43,7	58,3	65,6	72,9
SB-385716	EFXE-385716SB	16,7	25,0	41,8	50,1	66,8	75,2	83,6
SB-505016	EFXE-505016SB	17,9	26,9	44,8	53,8	71,7	80,7	89,7
SB-383827	EFXE-383827SB	17,5	26,3	43,9	52,7	70,2	79,0	87,8
SB-575716	EFXE-575716SB	20,7	31,1	51,9	62,3	83,1	93,5	103,9
SB-577620	EFXE-577620SB	26,9	40,4	67,4	80,9	107,9	121,3	134,8
SB-575730	EFXE-575730SB	27,9	41,8	69,7	83,7	111,6	125,6	139,5
SB-769520	EFXE-769520SB	36,1	54,1	90,2	108,3	144,4	162,4	180,5
SB-1258040	EFXE-1258040SB	36,1	54,1	90,2	108,3	144,4	162,4	180,5

Enclosure types (Stainless steel)		Maximum power dissipation (W) – Tamb. up to **60**°C					
		INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
SB-101210	EFXE-101210SB	2,7	5,5	6,9	9,7	11,1	12,5
SB-151510	EFXE-151510SB	4,0	8,0	10,0	14,0	16,0	18,0
SB-142013	EFXE-142013SB	5,2	10,4	13,1	18,3	20,9	23,5
SB-202010	EFXE-202010SB	5,3	10,7	13,4	18,7	21,4	24,1
SB-202016	EFXE-202016SB	6,9	13,9	17,4	24,3	27,8	31,3
SB-202713	EFXE-202713SB	7,2	14,4	18,0	25,2	28,9	32,5
SB-272713	EFXE-272713SB	8,3	16,7	20,9	29,3	33,5	37,7
SB-203016	EFXE-203016SB	8,5	17,1	21,4	30,0	34,3	38,6
SB-273513	EFXE-273513SB	9,6	19,2	24,1	33,7	38,5	43,3
SB-282816	EFXE-282816SB	9,6	19,3	24,2	33,9	38,7	43,6
SB-204016	EFXE-204016SB	10,1	20,2	25,2	35,4	40,4	45,5
SB-353516	EFXE-353516SB	12,2	24,4	30,5	42,7	48,8	54,9
SB-282827	EFXE-282827SB	13,1	26,2	32,8	45,9	52,5	59,0
SB-355016	EFXE-355016SB	14,8	29,7	37,1	52,0	59,4	66,8
SB-383816	EFXE-383816SB	13,3	26,6	33,2	46,5	53,2	59,8
SB-384516	EFXE-384516SB	14,5	29,1	36,4	51,0	58,3	65,6
SB-385716	EFXE-385716SB	16,7	33,4	41,8	58,5	66,8	75,2
SB-505016	EFXE-505016SB	17,9	35,8	44,8	62,7	71,7	80,7
SB-383827	EFXE-383827SB	17,5	35,1	43,9	61,4	70,2	79,0
SB-575716	EFXE-575716SB	20,7	41,5	51,9	72,7	83,1	93,5
SB-577620	EFXE-577620SB	26,9	53,9	67,4	94,4	107,9	121,3
SB-575730	EFXE-575730SB	27,9	55,8	69,7	97,7	111,6	125,6
SB-769520	EFXE-769520SB	36,1	72,2	90,2	126,3	144,4	162,4
SB-1258040	EFXE-1258040SB	36,1	72,2	90,2	126,3	144,4	162,4

Enclosure types (Stainless steel)		Maximum power dissipation (W) – Tamb. up to **95**°C	
		INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
SB-101210	EFXE-101210SB	1,3	2,7
SB-151510	EFXE-151510SB	2,0	4,0
SB-142013	EFXE-142013SB	2,6	5,2
SB-202010	EFXE-202010SB	2,6	5,3
SB-202016	EFXE-202016SB	3,4	6,9
SB-202713	EFXE-202713SB	3,6	7,2
SB-272713	EFXE-272713SB	4,1	8,3
SB-203016	EFXE-203016SB	4,2	8,5
SB-273513	EFXE-273513SB	4,8	9,6
SB-282816	EFXE-282816SB	4,8	9,6
SB-204016	EFXE-204016SB	5,0	10,1
SB-353516	EFXE-353516SB	6,1	12,2
SB-282827	EFXE-282827SB	6,5	13,1
SB-355016	EFXE-355016SB	7,4	14,8
SB-383816	EFXE-383816SB	6,6	13,3
SB-384516	EFXE-384516SB	7,2	14,5
SB-385716	EFXE-385716SB	8,3	16,7
SB-505016	EFXE-505016SB	8,9	17,9
SB-383827	EFXE-383827SB	8,7	17,5
SB-575716	EFXE-575716SB	10,3	20,7
SB-577620	EFXE-577620SB	13,4	26,9
SB-575730	EFXE-575730SB	13,9	27,9
SB-769520	EFXE-769520SB	18,0	36,1
SB-1258040	EFXE-1258040SB	18,0	36,1

Power dissipation – Stainless steel enclosures ST series

Enclosure types (Stainless steel)		Maximum power dissipation (W) – Tamb. up to **40**°C						
		INTERNAL TEMP.60°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
ST-101210	EFXE-101210ST	5,5	8,3	11,1	12,5	15,3	16,7	18,1
ST-151510	EFXE-151510ST	8,0	12,0	16,0	18,0	22,0	24,0	26,1
ST-142013	EFXE-142013ST	10,4	15,7	20,9	23,5	28,8	31,4	34,0
ST-202010	EFXE-202010ST	10,7	16,1	21,4	24,1	29,5	32,2	34,8
ST-202016	EFXE-202016ST	13,9	20,8	27,8	31,3	38,3	41,7	45,2
ST-202713	EFXE-202713ST	14,4	21,6	28,9	32,5	39,7	43,3	46,9
ST-272713	EFXE-272713ST	16,7	25,1	33,5	37,7	46,0	50,2	54,4
ST-203016	EFXE-203016ST	17,1	25,7	34,3	38,6	47,2	51,4	55,7
ST-273513	EFXE-273513ST	19,2	28,9	38,5	43,3	53,0	57,8	62,6
ST-282816	EFXE-282816ST	19,3	29,0	38,7	43,6	53,3	58,1	63,0
ST-204016	EFXE-204016ST	20,2	30,3	40,4	45,5	55,6	60,6	65,7
ST-353516	EFXE-353516ST	24,4	36,6	48,8	54,9	67,1	73,2	79,3
ST-282827	EFXE-282827ST	26,2	39,3	52,5	59,0	72,2	78,7	85,3
ST-355016	EFXE-355016ST	29,7	44,5	59,4	66,8	81,7	89,1	96,6
ST-383816	EFXE-383816ST	26,6	39,9	53,2	59,8	73,1	79,8	86,5
ST-384516	EFXE-384516ST	29,1	43,7	58,3	65,6	80,2	87,5	94,8
ST-385716	EFXE-385716ST	33,4	50,1	66,8	75,2	91,9	100,3	108,7
ST-505016	EFXE-505016ST	35,8	53,8	71,7	80,7	98,6	107,6	116,6
ST-383827	EFXE-383827ST	35,1	52,7	70,2	79,0	96,6	105,4	114,2
ST-575716	EFXE-575716ST	41,5	62,3	83,1	93,5	114,3	124,7	135,1
ST-577620	EFXE-577620ST	53,9	80,9	107,9	121,3	148,3	161,8	175,3
ST-575730	EFXE-575730ST	55,8	83,7	111,6	125,6	153,5	167,5	181,4
ST-769520	EFXE-769520ST	72,2	108,3	144,4	162,4	198,5	216,6	234,6
ST-1258040	EFXE-1258040ST	72,2	108,3	144,4	162,4	198,5	216,6	234,6

Enclosure types (Stainless steel)		Maximum power dissipation (W) – Tamb. up to **50**°C						
		INTERNAL TEMP.60°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
ST-101210	EFXE-101210ST	2,7	5,5	8,3	9,7	12,5	13,9	15,3
ST-151510	EFXE-151510ST	4,0	8,0	12,0	14,0	18,0	20,0	22,0
ST-142013	EFXE-142013ST	5,2	10,4	15,7	18,3	23,5	26,2	28,8
ST-202010	EFXE-202010ST	5,3	10,7	16,1	18,7	24,1	26,8	29,5
ST-202016	EFXE-202016ST	6,9	13,9	20,8	24,3	31,3	34,8	38,3
ST-202713	EFXE-202713ST	7,2	14,4	21,6	25,2	32,5	36,1	39,7
ST-272713	EFXE-272713ST	8,3	16,7	25,1	29,3	37,7	41,8	46,0
ST-203016	EFXE-203016ST	8,5	17,1	25,7	30,0	38,6	42,9	47,2
ST-273513	EFXE-273513ST	9,6	19,2	28,9	33,7	43,3	48,2	53,0
ST-282816	EFXE-282816ST	9,6	19,3	29,0	33,9	43,6	48,4	53,3
ST-204016	EFXE-204016ST	10,1	20,2	30,3	35,4	45,5	50,5	55,6
ST-353516	EFXE-353516ST	12,2	24,4	36,6	42,7	54,9	61,0	67,1
ST-282827	EFXE-282827ST	13,1	26,2	39,3	45,9	59,0	65,6	72,2
ST-355016	EFXE-355016ST	14,8	29,7	44,5	52,0	66,8	74,3	81,7
ST-383816	EFXE-383816ST	13,3	26,6	39,9	46,5	59,8	66,5	73,1
ST-384516	EFXE-384516ST	14,5	29,1	43,7	51,0	65,6	72,9	80,2
ST-385716	EFXE-385716ST	16,7	33,4	50,1	58,5	75,2	83,6	91,9
ST-505016	EFXE-505016ST	17,9	35,8	53,8	62,7	80,7	89,7	98,6
ST-383827	EFXE-383827ST	17,5	35,1	52,7	61,4	79,0	87,8	96,6
ST-575716	EFXE-575716ST	20,7	41,5	62,3	72,7	93,5	103,9	114,3
ST-577620	EFXE-577620ST	26,9	53,9	80,9	94,4	121,3	134,8	148,3
ST-575730	EFXE-575730ST	27,9	55,8	83,7	97,7	125,6	139,5	153,5
ST-769520	EFXE-769520ST	36,1	72,2	108,3	126,3	162,4	180,5	198,5
ST-1258040	EFXE-1258040ST	36,1	72,2	108,3	126,3	162,4	180,5	198,5

Enclosure types (Stainless steel)		Maximum power dissipation (W) – Tamb. up to **55**°C						
		INTERNAL TEMP.65°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
ST-101210	EFXE-101210ST	2,7	4,1	6,9	8,3	11,1	12,5	13,9
ST-151510	EFXE-151510ST	4,0	6,0	10,0	12,0	16,0	18,0	20,0
ST-142013	EFXE-142013ST	5,2	7,8	13,1	15,7	20,9	23,5	26,2
ST-202010	EFXE-202010ST	5,3	8,0	13,4	16,1	21,4	24,1	26,8
ST-202016	EFXE-202016ST	6,9	10,4	17,4	20,8	27,8	31,3	34,8
ST-202713	EFXE-202713ST	7,2	10,8	18,0	21,6	28,9	32,5	36,1
ST-272713	EFXE-272713ST	8,3	12,5	20,9	25,1	33,5	37,7	41,8
ST-203016	EFXE-203016ST	8,5	12,8	21,4	25,7	34,3	38,6	42,9
ST-273513	EFXE-273513ST	9,6	14,4	24,1	28,9	38,5	43,3	48,2
ST-282816	EFXE-282816ST	9,6	14,5	24,2	29,0	38,7	43,6	48,4
ST-204016	EFXE-204016ST	10,1	15,1	25,2	30,3	40,4	45,5	50,5
ST-353516	EFXE-353516ST	12,2	18,3	30,5	36,6	48,8	54,9	61,0
ST-282827	EFXE-282827ST	13,1	19,6	32,8	39,3	52,5	59,0	65,6
ST-355016	EFXE-355016ST	14,8	22,2	37,1	44,5	59,4	66,8	74,3
ST-383816	EFXE-383816ST	13,3	19,9	33,2	39,9	53,2	59,8	66,5
ST-384516	EFXE-384516ST	14,5	21,8	36,4	43,7	58,3	65,6	72,9
ST-385716	EFXE-385716ST	16,7	25,0	41,8	50,1	66,8	75,2	83,6
ST-505016	EFXE-505016ST	17,9	26,9	44,8	53,8	71,7	80,7	89,7
ST-383827	EFXE-383827ST	17,5	26,3	43,9	52,7	70,2	79,0	87,8
ST-575716	EFXE-575716ST	20,7	31,1	51,9	62,3	83,1	93,5	103,9
ST-577620	EFXE-577620ST	26,9	40,4	67,4	80,9	107,9	121,3	134,8
ST-575730	EFXE-575730ST	27,9	41,8	69,7	83,7	111,6	125,6	139,5
ST-769520	EFXE-769520ST	36,1	54,1	90,2	108,3	144,4	162,4	180,5
ST-1258040	EFXE-1258040ST	36,1	54,1	90,2	108,3	144,4	162,4	180,5

Enclosure types (Stainless steel)		Maximum power dissipation (W) – Tamb. up to **60**°C					
		INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
ST-101210	EFXE-101210ST	2,7	5,5	6,9	9,7	11,1	12,5
ST-151510	EFXE-151510ST	4,0	8,0	10,0	14,0	16,0	18,0
ST-142013	EFXE-142013ST	5,2	10,4	13,1	18,3	20,9	23,5
ST-202010	EFXE-202010ST	5,3	10,7	13,4	18,7	21,4	24,1
ST-202016	EFXE-202016ST	6,9	13,9	17,4	24,3	27,8	31,3
ST-202713	EFXE-202713ST	7,2	14,4	18,0	25,2	28,9	32,5
ST-272713	EFXE-272713ST	8,3	16,7	20,9	29,3	33,5	37,7
ST-203016	EFXE-203016ST	8,5	17,1	21,4	30,0	34,3	38,6
ST-273513	EFXE-273513ST	9,6	19,2	24,1	33,7	38,5	43,3
ST-282816	EFXE-282816ST	9,6	19,3	24,2	33,9	38,7	43,6
ST-204016	EFXE-204016ST	10,1	20,2	25,2	35,4	40,4	45,5
ST-353516	EFXE-353516ST	12,2	24,4	30,5	42,7	48,8	54,9
ST-282827	EFXE-282827ST	13,1	26,2	32,8	45,9	52,5	59,0
ST-355016	EFXE-355016ST	14,8	29,7	37,1	52,0	59,4	66,8
ST-383816	EFXE-383816ST	13,3	26,6	33,2	46,5	53,2	59,8
ST-384516	EFXE-384516ST	14,5	29,1	36,4	51,0	58,3	65,6
ST-385716	EFXE-385716ST	16,7	33,4	41,8	58,5	66,8	75,2
ST-505016	EFXE-505016ST	17,9	35,8	44,8	62,7	71,7	80,7
ST-383827	EFXE-383827ST	17,5	35,1	43,9	61,4	70,2	79,0
ST-575716	EFXE-575716ST	20,7	41,5	51,9	72,7	83,1	93,5
ST-577620	EFXE-577620ST	26,9	53,9	67,4	94,4	107,9	121,3
ST-575730	EFXE-575730ST	27,9	55,8	69,7	97,7	111,6	125,6
ST-769520	EFXE-769520ST	36,1	72,2	90,2	126,3	144,4	162,4
ST-1258040	EFXE-1258040ST	36,1	72,2	90,2	126,3	144,4	162,4

Enclosure types (Stainless steel)		Maximum power dissipation (W) – Tamb. up to **95**°C	
		INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
ST-101210	EFXE-101210ST	1,3	2,7
ST-151510	EFXE-151510ST	2,0	4,0
ST-142013	EFXE-142013ST	2,6	5,2
ST-202010	EFXE-202010ST	2,6	5,3
ST-202016	EFXE-202016ST	3,4	6,9
ST-202713	EFXE-202713ST	3,6	7,2
ST-272713	EFXE-272713ST	4,1	8,3
ST-203016	EFXE-203016ST	4,2	8,5
ST-273513	EFXE-273513ST	4,8	9,6
ST-282816	EFXE-282816ST	4,8	9,6
ST-204016	EFXE-204016ST	5,0	10,1
ST-353516	EFXE-353516ST	6,1	12,2
ST-282827	EFXE-282827ST	6,5	13,1
ST-355016	EFXE-355016ST	7,4	14,8
ST-383816	EFXE-383816ST	6,6	13,3
ST-384516	EFXE-384516ST	7,2	14,5
ST-385716	EFXE-385716ST	8,3	16,7
ST-505016	EFXE-505016ST	8,9	17,9
ST-383827	EFXE-383827ST	8,7	17,5
ST-575716	EFXE-575716ST	10,3	20,7
ST-577620	EFXE-577620ST	13,4	26,9
ST-575730	EFXE-575730ST	13,9	27,9
ST-769520	EFXE-769520ST	18,0	36,1
ST-1258040	EFXE-1258040ST	18,0	36,1

Maximum Power Dissipation calculation

The values specified in the tables as per clause 2.1.1 may be modified within the maximum admitted Tamb and maximum admitted internal temperature as follows.

$$Pdiss\ (W) = \frac{Tmax - Tamb}{Rth}$$

$Rth = A \times (\text{enclosure surface in } mm^2 \text{ except enclosure bottom})^B$

Legend:
Rth – Thermal resistance [K/W].
Tmax – Maximum allowed temperature inside enclosure.
Tamb – Ambient temperature of enclosure
A and B - coefficients determined for each series of enclosure. Exact values are given in manufacturer's documentation.

Warning labels:

WARNING – DO NOT OPEN WHEN ENERGIZED (*)
(*) Not mandatory for apparatus with protection type Ex ia Ga and Ex ib Gb.

WARNING – POTENTIAL ELECTROSTATIC CHARGING HAZARD – SEE INSTRUCTIONS

To be added when the enclosures or parts of them have a surface resistance more than 10^9 Ω or 10^{11} Ω according to IEC 60079-0 Clause 7.4.2 a), as applicable, and as per following cases:

- are equipped with transparent parts made of polycarbonate.
- for category II 2 G / EPL Gb Gas group IIC: are painted and the paint layer thickness is > 0.2mm.
- for category II 2 G / EPL Gb Gas group IIB: are painted and the paint layer thickness is > 2mm.
- for category II 2 D / EPL Db: are painted and the paint layer thickness is > 2mm.
- for category II 2 G / EPL Gb Gas group IIC: not conductive individual materials (labels), applied on painted enclosures, have exposed (chargeable area) > 2000mm^2 or, not conductive individual materials (labels), applied on unpainted (conductive earthed surface) enclosures, have exposed (chargeable area) > 8000mm^2.
- for category II 2 G /EPL Gb Gas group IIB: not conductive individual materials (labels), applied on painted enclosures, have exposed (chargeable area) > 10000mm^2 or, not conductive individual materials (labels), applied on unpainted (conductive earthed surface) enclosures, have exposed (chargeable area) > 40000mm^2.

OPEN THE VALVE ONLY WHEN THE APPARATUS IS DE-ENERGIZED AND ONLY WHEN AN EXPLOSIVE DUST ATMOSPHERE IS NOT PRESENT
To be added on Ex tb apparatus equipped with the drain / venting device ECR3.

Other warnings depend on the components actually mounted, according to the component manufacturer's documentation.

The tables below state the maximum power dissipation values (W) related to the internal temperature (Tint) and ambient temperature (Tamb).

ITEM	Tag	EJB-200N1-02-L1-19	: JB - NORMAL LIGHTING	Dwg	123A90-DDL-EL-DL-20118
	S/Sys	83-40	: Normal Lighting Upper Deck	Module	UD
TASK	code	C10001637	Location: Onshore Activities	User	Rosetti Marino Quality Control
FORM	Process	MC	Activity: CCK / Discipline: ATEX / Form: CJX01		Hazardous Area Equipment Detailed Inspection

Schedule Ref. #				**Area Code**					
Area Class Drawing	123A90-DDL-SAF-DL-30022			**Serial No.**		24P00297990036			
Manufacturer	Italsmea			**Model**		AQ-252612P			
Cert No.	FIDI 21ATEX 0090X IECEx FIDI 21.0015X			**Equipment Ambient Temp.**		-50 to + 40 °C			
Area Classification	hazardous	**Zone**	2	**Gas group**	IIC	**Temp class**	T1		
Equipment Protection Type	Ex eb	**EPL**	Gb	**Gas group**	IIC	**Temp class**	T6	**IP Rating**	IP66

Detailed Note:

1) Inspection shall only be performed by competent personnel

2) All fields are to be completed. Any non-applicable field shall state “NA”. Comments are required for ‘Failure’ column ONLY.

3) An Inspection Sheet should be completed for EACH individual item of Equipment.

	General Equipment	Detailed	OK/NA/PL	Comments
1	Equipment is appropriate to the EPL / Zone requirements of the area	x	OK	
2	Equipment group is correct	x	OK	
3	Equipment temperature class is correct	x	OK	
4	Degree of IP protection of equipment is appropriate for the level of protection	x	OK	
5	Equipment circuit identification is correct	x	NA	
6	Equipment circuit identification is available	x	NA	
7	Enclosure glass parts and glass-to-metal sealing gaskets and / or compounds are satisfactory	x	NA	
8	There is no damage or unauthorized modifications	x	OK	
9	There is no evidence of unauthorized modifications	x	OK	
10	Bolts, cable entry devices (direct and indirect) & blanking elements are of the correct type, are complete & tight		OK	
	Physical check	x	OK	
11	Threaded covers on enclosures are of the correct type, are tight and secured		NA	
	Physical check	x	NA	
12	Joint surfaces are clean and undamaged and gaskets, if any, are satisfactory and positioned correctly	x	OK	
13	Condition of enclosure gaskets is satisfactory	x	OK	
14	There is no evidence or ingress of water or dust in the enclosure in accordance with the IP rating	x	OK	
15	Electrical connections are tight	x	OK	
16	Bridging links do not reduce creepage / clearance and are allowed	x	NA	
17	Unused terminals are tightened	x	OK	
18	Encapsulated components are undamaged	x	NA	
19	Flameproof components are undamaged	x	NA	
20	Fluorescent lamps are not indicating EOL effects (only for Ex “e” – Ex “n” – Ex “t”)	x	NA	
21	HID lamps are not indicating EOL effects	x	NA	
22	Lamp type, rating, pin configuration and position are correct	x	NA	
23	Breathing and drainage devices are satisfactory	x	NA	
24	Type of cable is appropriate	x	OK	
25	There is no obvious damage to the cables	x	OK	
26	Cable glands are the correct type and installed correctly	x	OK	
27	Sealing of trunking, ducts, pipes and or conduits is satisfactory	x	NA	
28	Stopping boxes and cable boxes are corrected filled	x	OK	

ITEM	Tag	EJB-200N1-02-L1-19	: JB - NORMAL LIGHTING			Dwg	123A90-DDL-EL-DL-20118
	S/Sys	83-40	: Normal Lighting Upper Deck			Module	UD
TASK	code	C10001637		Location	Onshore Activities	User	Rosetti Marino Quality Control
FORM	Process	MC	Activity CCK	Discipline	ATEX	Form	CJX01 Hazardous Area Equipment Detailed Inspection

29	Integrity of conduit system and interface with mixed system maintained	x	NA	
30	Earthing connections, including any supplementary earthing bonding connections are satisfactory (for example connections are tight and conductors are of sufficient cross-section		PL	
	Physical check	x	OK	
31	Automated electric protective devices operate within permitted limits	x	NA	
32	Special conditions (if applicable) have been complied with.	x	NA	
33	All cable cores are uniquely labeled	x	OK	
34	Cable cores not in use are correctly terminated	x	OK	
35	Equipment is adequately protected against corrosion, weather, vibration and other adverse factors	x	OK	
36	No undue accumulation of dust and dirt	x	OK	
37	All equipment housings are clean and dry	x	OK	
38	All moving parts are free and have no mechanical damage	x	OK	
	Applicable for Installation of Heating Systems			
39	Temperature sensors function according to manufacturer's documents (only applicable for Ex-d e Ex-e)	x	NA	
40	Safety cut off devices function according to manufacturer's documents (only applicable for Ex-d e Ex-e)	x	NA	
41	The setting of the safety cut off is sealed (only applicable for Ex-d e Ex-e)	x	NA	
42	Reset of a heating system safety cut off possible with tool only(only applicable for Ex-d e Ex-e)	x	NA	
43	Auto-reset is not possible (only applicable for Ex-d e Ex-e)	x	NA	
44	Reset of a safety cut off under fault conditions is prevented (only applicable for Ex-d e Ex-e)	x	NA	
45	Safety cut off independent from control system (only applicable for Ex-d e Ex-e)	x	NA	
46	Level switch is installed and correctly set, if required (only applicable for Ex-d e Ex-e)	x	NA	
47	Flow switch is installed and correctly set, if required (only applicable for Ex-d e Ex-e)	x	NA	
	Extra Ex d checks			
48	Obstructions adjacent to flame proof flanged joints are in accordance with IEC 60079-14	x	NA	
49	Ex d conduits seals are fitted to all conduits and satisfactorily sealed	x	NA	
50	Cable glands are of the correct type and installed correctly	x	NA	
51	Adaptors, reducers, stop ends, etc. are all certified Ex d	x	NA	
52	Flame path are clean and undamaged	x	NA	
53	Flange gap dimensions are within tolerances	x	NA	
54	Motor fans have sufficient clearance to the enclosure and/or covers, cooling systems are undamaged, motor foundations have no indentations or cracks	x	NA	
55	The ventilation airflow is not impeded	x	NA	
56	Insulation resistance (IR) of the motor windings is satisfactory	x	NA	
57	Fault loop impedance (TN systems) or earthing resistance (IT systems) is satisfactory	x	NA	
58	Variable voltage/frequency installation complies with documentation	x	NA	
	Extra Ex e checks			
59	All Equipment is Ex e certified (including components within enclosure)	x	OK	
60	Power conductors are not bunched together causing possible hot spots	x	OK	
61	Motor fans have sufficient clearance to the enclosure and/or covers, cooling systems are undamaged, motor foundations have no indentations or cracks	x	NA	
62	Insulation resistance (IR) of the motor windings is satisfactory	x	NA	
63	Fault loop impedance (TN systems) or earthing resistance (IT systems) is satisfactory	x	NA	
64	The ventilation airflow is not impeded	x	NA	
65	Motor protection devices operate within the permitted tE or tA time limits.	x	NA	
66	Variable voltage/frequency installation complies with documentation	x	NA	

ITEM	Tag	EJB-200N1-02-L1-19	: JB - NORMAL LIGHTING		Dwg	123A90-DDL-EL-DL-20118	
	S/Sys	83-40	: Normal Lighting Upper Deck		Module	UD	
TASK	code	C10001637	Location	Onshore Activities	User	Rosetti Marino Quality Control	
FORM	Process	MC	Activity CCK	Discipline ATEX	Form	CJX01	Hazardous Area Equipment Detailed Inspection

Extra Ex n (nR, nL) checks				
67	All Terminals are Ex n certified (if required on certificate)	x	NA	
68	Hermetically sealed and enclosed break devices are undamaged	x	NA	
69	Restricted breathing properties satisfactory (conduct vacuum test)	x	NA	
70	Test port, if fitted, is functional (type “nR” only)	x	NA	
71	Breathing operation is satisfactory (type “nR” only)	x	NA	
72	Motor fans have sufficient clearance to the enclosure and/or covers, cooling systems are	x	NA	
73	The ventilation airflow is not impeded	x	NA	
74	Insulation resistance (IR) of the motor windings is satisfactory	x	NA	
75	Motor protection devices operate within the permitted tE or tA time limits.	x	NA	
76	Variable voltage/frequency installation complies with documentation	x	NA	
Extra Ex p checks				
77	Pressurization gas is correct type	x	NA	
78	Actual pressure is within maximum and minimum settings for equipment	x	NA	
79	Timers set as per certification documentation	x	NA	
80	Alarms and trip functions operate correctly as per certification documentation	x	NA	
81	Fault loop impedance (TN systems) or earthing resistance (IT systems) is satisfactory	x	NA	
82	Automatic electrical protective devices operate within permitted limits	x	NA	
83	Automatic electrical protective devices are set correctly	x	NA	
84	Protective gas inlet temperature is below maximum specified	x	NA	
85	Ducts, pipes and enclosures are in good condition	x	NA	
86	Protective gas is substantially free from contaminants	x	NA	
87	Protective gas pressure and/or flow is adequate	x	NA	
88	Pressure and/or flow indicators, alarms and interlocks function correctly	x	NA	
89	Conditions of spark and particle barriers of ducts for exhausting the gas in hazardous area are satisfactory	x	NA	
90	Specific conditions of use (if applicable) are complied with		NA	
Extra Ex i (Intrinsically Safe – IS) checks				
91	Equipment has adequate circuit identification for ‘IS’ Installation	x	NA	
92	Cables are installed in accordance with the documentation	x	NA	
93	Segregation is maintained between IS and non-IS Circuits	x	NA	
94	Cable screens are isolated at one end (field side)	x	NA	
95	Cable screens are earthed in accordance with the documentation	x	NA	
96	Safety barrier units, relays and other energy limiting devices are of the approved type, installed in	x	NA	
97	Equipment installed is the one specified in the documentation	x	NA	
98	Ambient temperature range of the apparatus is correct for the installation	x	NA	
99	Service temperature range of the apparatus is correct for the installation	x	NA	
100	Installation is clearly labelled	x	NA	
101	Printed circuit boards are clean and undamaged	x	NA	
102	The maximum voltage Um of the associated apparatus is not exceeded	x	NA	
103	Point-to-point connections are all correct	x	NA	
104	Earth continuity is satisfactory (e.g. connections are tight, conductors are of sufficient cross-section)	x	NA	
105	Earth connections maintain the integrity of the type of protection	x	NA	
106	Intrinsically safe circuit earthing is satisfactory	x	NA	
107	Insulation resistance is satisfactory	x	NA	
108	Short-circuit protection of the power supply is in accordance with the documentation	x	NA	

	BARRIER:	**Manufacturer:**	NA	**Model:**	NA		
		Authority:	NA	**Cert No:**	NA	**Type:**	NA

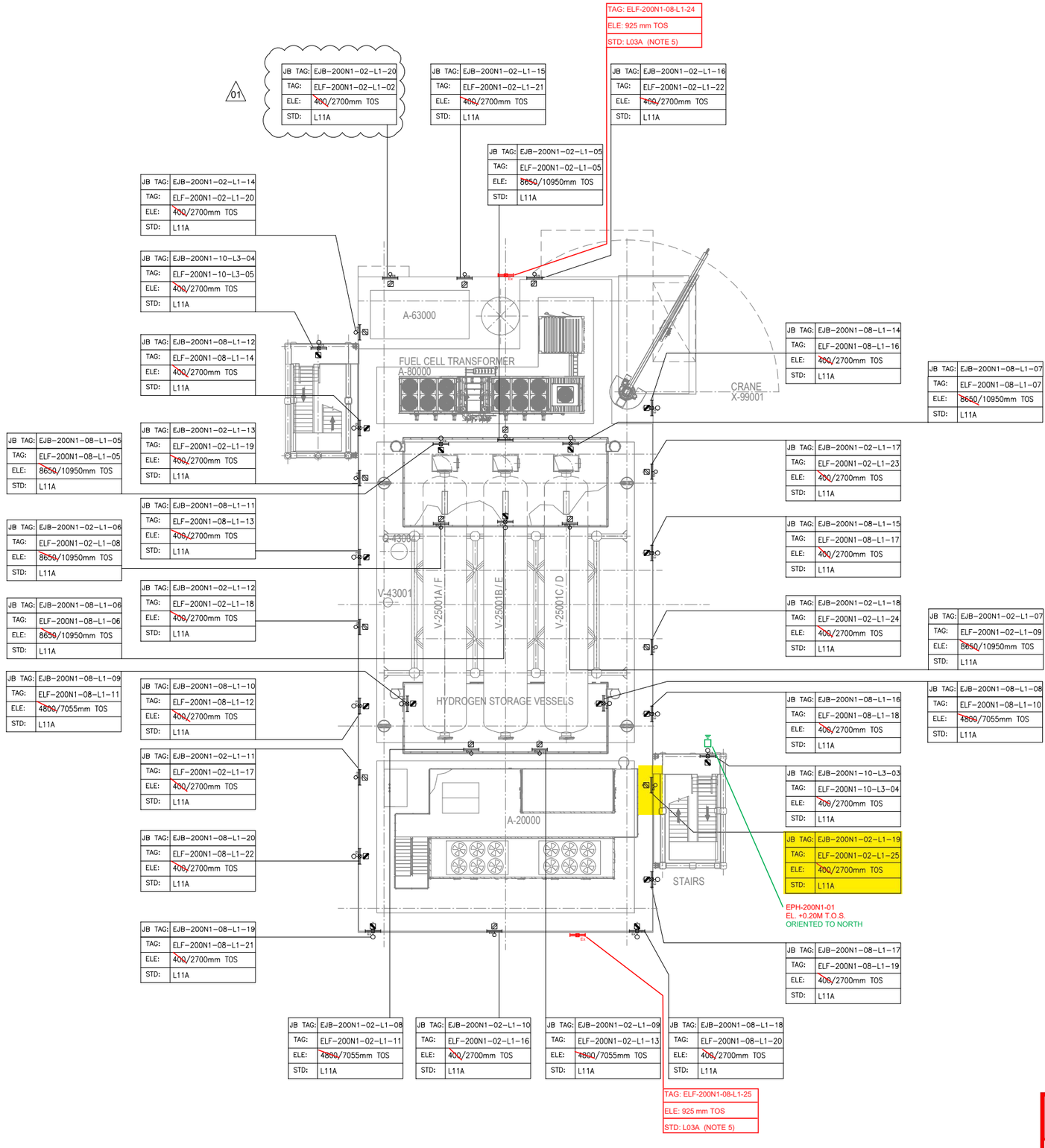
Remarks: Initial inspection should be detailed and carried out before equipment is brought into service as per IEC 60079-17

Please mark only one box as appropriate	
●	**Passed - Complete**
	Failed

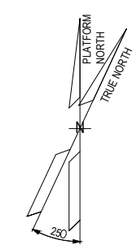
Page 3/3	Performed by	☐ WITNESS ☐ REVIEW	☐ WITNESS ☐ REVIEW
Company	ICS IMPIANTI	RM (ROSETTI MARINO)	
Name	Francesco Zucca	Giovanni Tangianu	
Date	2024-12-18	2025-01-09	
Signature	PROVERLIS Digitaly signed by Francesco Zucca 2024-12-18T15:44:57.684Z	PROVERLIS Digitaly signed by Giovanni Tangianu 2025-01-09T11:00:26.295Z	

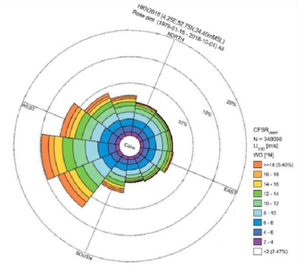
DRAWING NO. 123A90-DDL-EL-DL-20118

REV. 01



PLAN ON UPPER DECK
EL+30.310 T.O.S.





NOTES

1. ALL DIMENSIONS AND ELEVATIONS ARE GIVEN IN mm UNLESS OTHERWISE NOTED.
2. ELEVATIONS REFER TO T.O.S.
3. ELEVATION OF THE LAMPS ARE REFFERED TO THE BOTTOM OF THE LAMP.
4. FOR THE ELEVATION OF JB, REFER TO THE TYPICAL INSTALLATION.
5. FOR ELF-200N1-08-L1-24 AND ELF-200N1-08-L1-25 CONSTRUCTION DETAILS REFER TO DOC. 123A90-DDL-ST-DD-90076

LEGEND

- EMERGENCY LIGHTING JB
- 60W LED EMERGENCY LUMINARIES
- 60W LED EMERGENCY LUMINARIES FIXTURE POLE MOUNTED
- NORMAL LIGHTING JB
- 45W LED NORMAL LUMINARIES
- 45W LED NORMAL LUMINARIES FIXTURE POLE MOUNTED
- WELDING SOCKET WITH INTEGRATED JB
- SMALL POWER SOCKET WITH INTEGRATED JB
- TWILIGHT RELAY SENSOR

JB TAG:	JB-TAG
TAG:	TAG
ELE:	ELEVATION
STD:	STANDARD

REFERENCE DOCUMENTS

123A90-DDL-PP-DL-70070	PLOT PLAN - LOWER & UPPER DECK
123A90-DDL-EL-DL-20100	ELECTRICAL EQUIPMENT LAYOUT - TOP DECK
123A90-DDL-EL-DD-20091	ELECTRICAL TYPICAL INSTALLATION DETAILS - LIGHTING SYSTEM
123A90-DDL-EL-DD-20092	ELECTRICAL TYPICAL INSTALLATION DETAILS - POWER SYSTEM & CABLE INSTALLATION
123A90-DDL-EL-RE-20153	LIGHTING CALCULATION STUDY REPORT
123A90-DDL-ST-DD-90076	IDENTIFICATION PANELS ASSEMBLY AND DETAILS

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	02/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	28/05/24	ASR	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DL-20118**

REV.:	DATE:	SIGNATURE:
1_F	26/11/24	G.Randi

ROSETTI MARINO SpA

CROSSWIND

ROSETTI MARINO

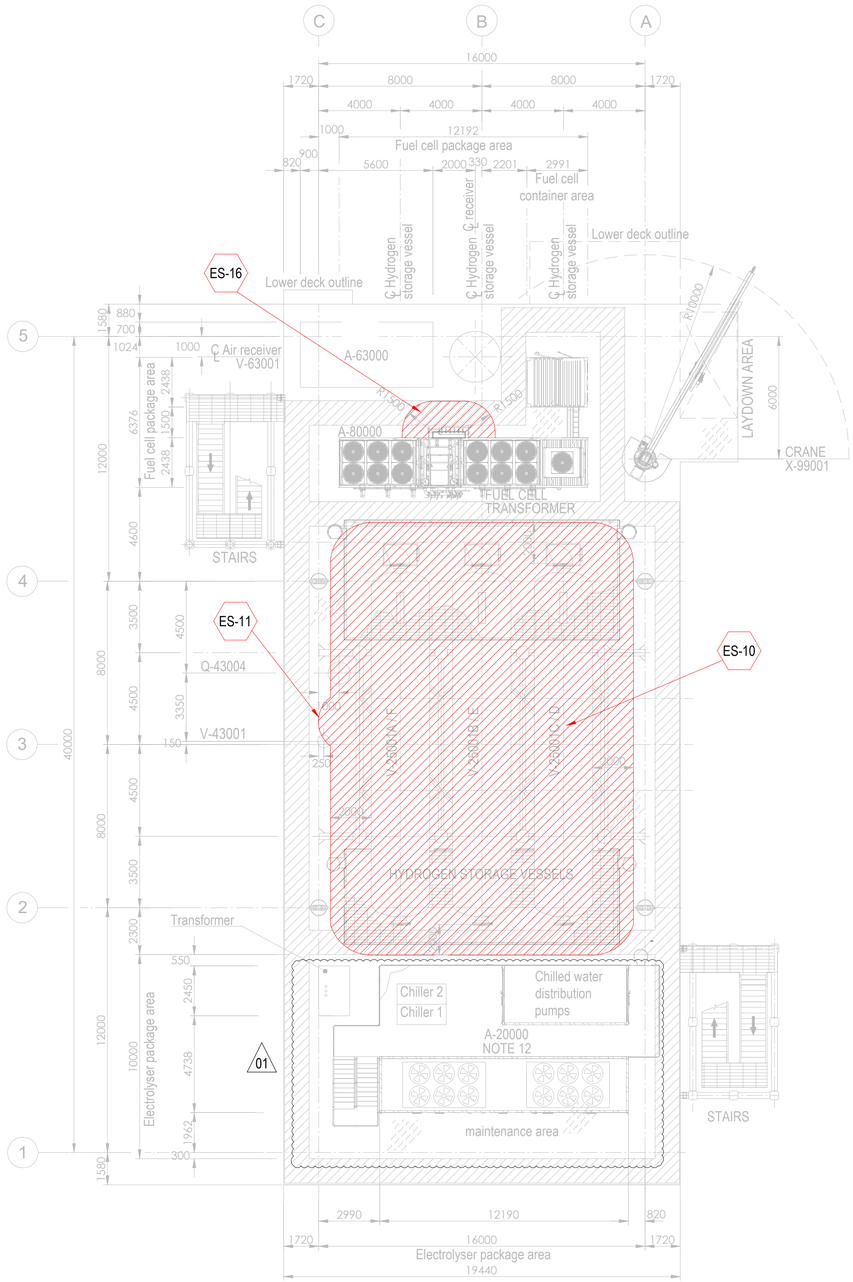
TITLE : BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET LAYOUT – TOP DECK

CONTRACT NO./TITLE	CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK	SCALE	1:150
DRAWN ASR	CHECKED FMA/AMA	APPROVED FPA/DLO	DATE 01/08/24
A1	DRAWING NO. 123A90-DDL-EL-DL-20118	SHEET 1of2	REV. 01

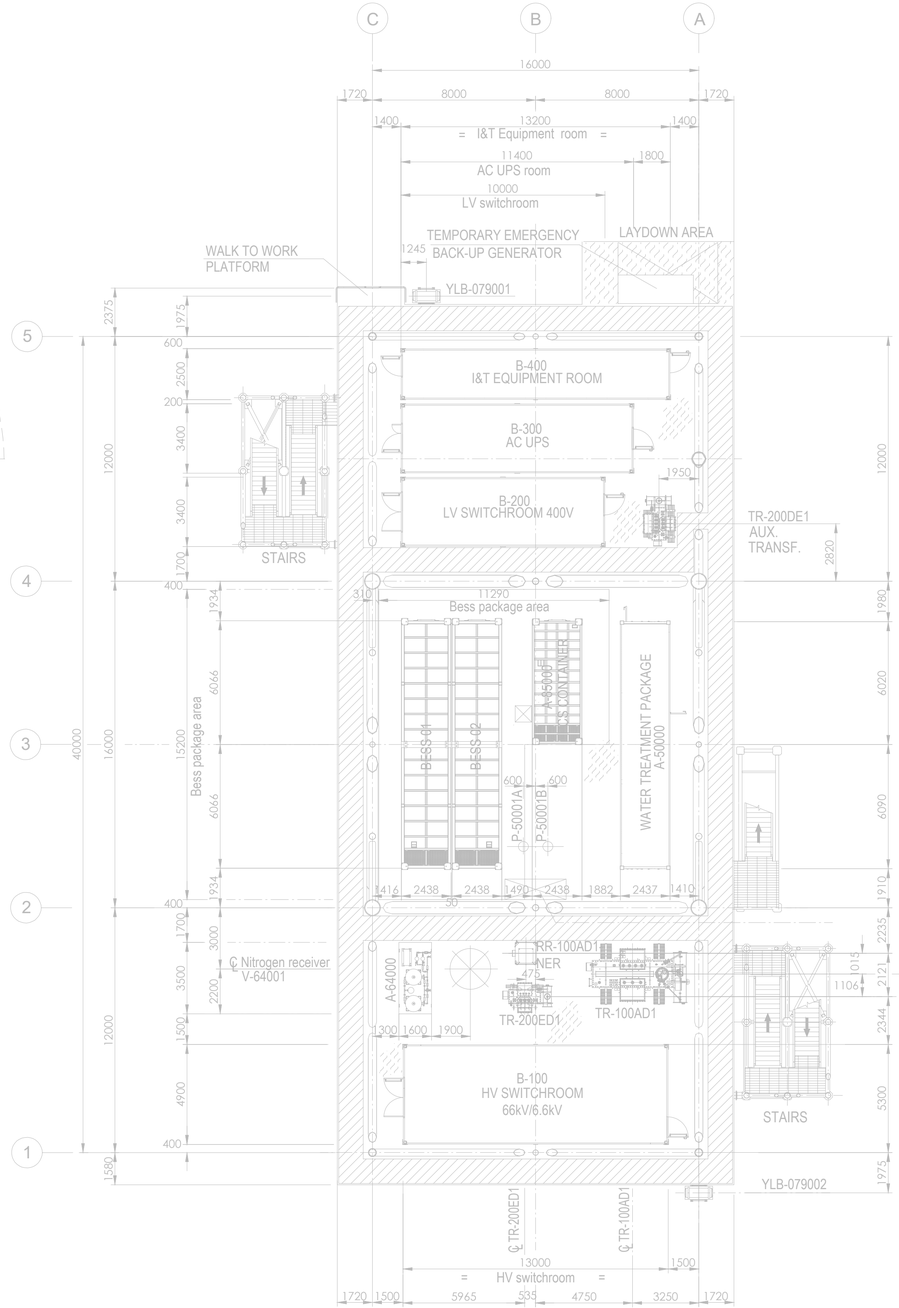
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DRAWING NO. 123A90-DDL-SAF-DL-30022

REV. 01



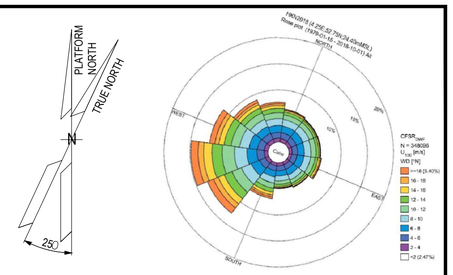
PLAN ON UPPER DECK
EL+30.310 T.O.S.



PLAN ON LOWER DECK
EL+23.310 T.O.S.

Tag No.	Equipment Tag	Description	Material	Ventilation Type
01	P-50001 A/B	SEA WATER LIFT PUMPS	SEA WATER	NATURAL (OPEN AREA)
02	Q-43004	HYDROGEN VENT	HYDROGEN	NATURAL (OPEN AREA)
03	V-43001	HYDROGEN VENT KO DRUM	HYDROGEN	NATURAL (OPEN AREA)
04	V-25001 (A/B/C/D/E/F)	HYDROGEN STORAGE VESSELS	HYDROGEN	NATURAL (OPEN AREA)
05	V-63001	AIR RECEIVER	INSTRUMENT AIR	NATURAL (OPEN AREA)
06	A-20000	ELECTROLYSER PACKAGE		
07	A-63000	INSTRUMENT AIR PACKAGE		
08	A-80000	FUEL CELL PACKAGE		
09	A-85000	BESS PACKAGE		
10	YLB-079001/2	LIFE RAFTS		
11	A-50000	WATER TREATMENT PACKAGE		

Tag No.	Equipment Tag	Description	Material	Ventilation Type
12	A-64000	NITROGEN SYSTEM		
13	B-100	HV SWITCHROOM 66kV/6.6kV		
14	B-200	LV SWITCHROOM 400V		
15	B-300	AC UPS EQUIPMENT ROOM		
16	B-400	I&T EQUIPMENT ROOM		
17	TR-100AD1	TRANSFORMER MAIN 66kV/6.6kV		
18	RR-100AD1-NER	NEUTRAL EARTHING RESISTOR		
19	TR-200DE1	TRANSFORMER AUX. 6.6kV/0.4kV		
20	TR-200ED1	SOLAR TRANSFORMER PV FARM EQUIPMENT		
21	X-99001	CRANE		
22	V-64001	NITROGEN RECEIVER		



1. ALL DIMENSIONS IN mm U.N.O
2. ALL ELEVATIONS IN METERS.
3. PLATFORM NORTH DIRECTION IS N 25°W.
4. VENT TOP SHALL BE REACHEABLE FOR MAINTENANCE PURPOSE.
5. THE BESS IS CONSIDERED SAFE AREA EXCEPT EXTRACTORES FROM BATTERIES , CURRENTLY NOT SHOWN IN DRAWINGS, SINCE INFORMATION FROM VENDOR IS NOT YET AVAILABLE.[ES17]
6. THE LOCATION OF EMISSION SOURCES ON THE LAYOUT ARE ONLY INDICATIVE. EMISSION SOURCES CONSIDERED ARE PRESENT WITHIN THE EXTENSION OF HAZARDOUS CLASSIFIED AREAS SHOWN ON THE LAYOUT. THIS IS BECAUSE VALVES AND FLANGES,WHICH ARE CONSIDERED POTENTIAL SOURCES OF RELEASE POINTS FOR FLAMMABLE GAS ARE NOT SHOWN ON CURRENT LAYOUT PROVIDED. THE SAME APPLIES TO THE EMISSION SOURCES FOR CPI'S ITEM.
7. IDENTIFIED EMISSION SOURCES DETAIL

EMISSION SOURCE No.	IDENTIFIED AREAS
ES10	HYDROGEN STORAGE VESSLES
ES11	HYDROGEN VENT KO DRUM
ES16	FUEL CELL

01

ZONE 0 | ZONE 1 | ZONE 2 | ES EMISSION SOURCES

01

01

123A90-DDL-PP-DS-70071	PLOT PLAN - BELOW LOWER DECK
123A90-DDL-PP-DS-70072	PLOT PLAN - ELEVATION LOOKING NORTH & EAST

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	27/08/24	MMA	CCA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	08/02/24	MMA	CCA	DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND

ROSETTI MARINO

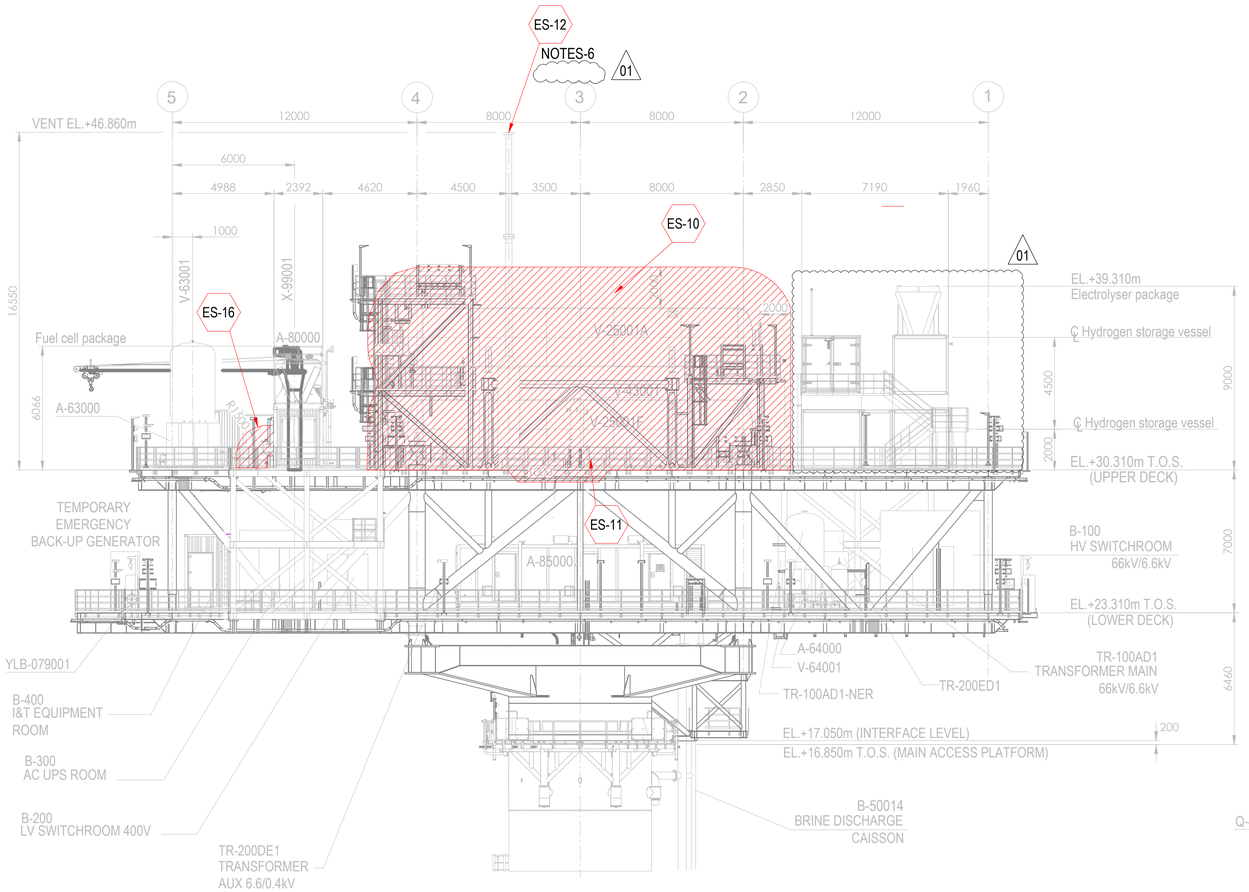
TITLE : BASE LOAD POWER HUB (BLPH)
HAZARDOUS AREA CLASSIFICATION
LOWER & UPPER DECK

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK		SCALE 1:150
DRAWN M. MAGNI	CHECKED C. CARACCIOLO	APPROVED D. LO STERZO	DATE 03/07/24
A1	DRAWING NO. 123A90-DDL-SAF-DL-30022	SHEET 001	REV. 01

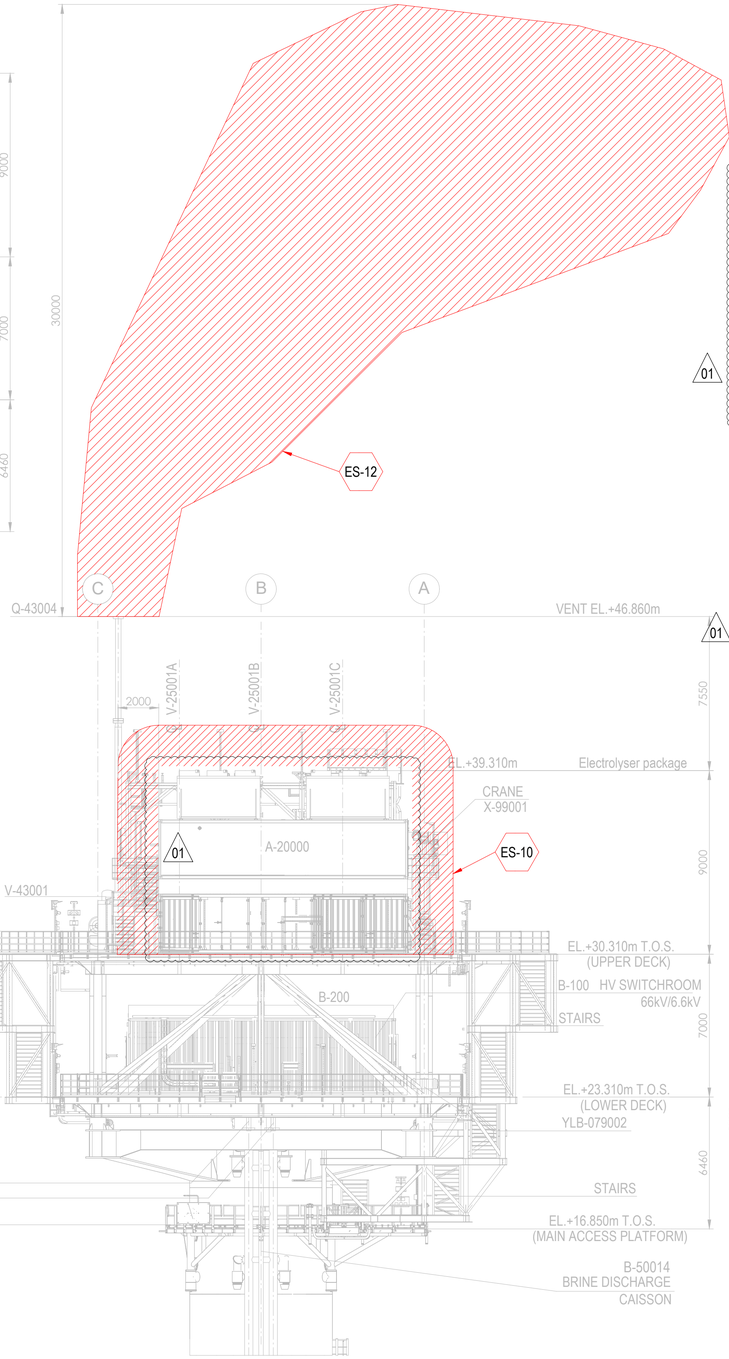
File Name : 123A90-DDL-SAF-DL-30022 Rev.01

DRAWING NO. 123A90-DDL-SAF-DL-30024

REV. 01



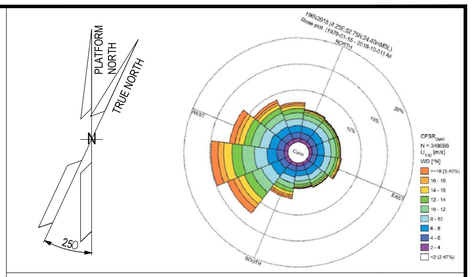
ELEVATION LOOKING EAST



ELEVATION LOOKING NORTH

01

Tag No.	Equipment Tag	Description	Material	Ventilation Type
01	P-50001 A/B	SEA WATER LIFT PUMPS	SEA WATER	NATURAL (OPEN AREA)
02	Q-43004	HYDROGEN VENT	HYDROGEN	NATURAL (OPEN AREA)
03	V-43001	HYDROGEN VENT KO DRUM	HYDROGEN	NATURAL (OPEN AREA)
04	V-25001 (A/B/C/D/E/F)	HYDROGEN STORAGE VESSELS	HYDROGEN	NATURAL (OPEN AREA)
05	V-63001	INSTRUMENT AIR RECEIVER	INSTRUMENT AIR	NATURAL (OPEN AREA)
06	A-20000	ELECTROLYSER PACKAGE		
07	A-63000	INSTRUMENT AIR PACKAGE		
08	A-80000	FUEL CELL PACKAGE		
09	A-85000	BESS PACKAGE		
10	YLB-079001/2	LIFE RAFTS		
11	B-100	HV SWITCHROOM 66kV/6.6kV		
12	B-200	LV SWITCHROOM 400V		
13	B-300	AC UPS EQUIPMENT ROOM		
14	B-400	I&T EQUIPMENT ROOM		
15	TR-100AD1	TRANSFORMER MAIN 66kV/6.6kV		
16	TR-100AD1-NER	NEUTRAL EARTHING RESISTOR		
17	TR-200DE1	TRANSFORMER AUX. 6.6kV/0.4kV		
18	TR-200ED1	SOLAR TRANSFORMER PV FARM EQUIPMENT		
19	X-99001	CRANE		
20	V-64001	NITROGEN RECEIVER		



NOTES

1. ALL DIMENSIONS IN mm U.N.O
2. ALL ELEVATIONS IN METERS.
3. PLATFORM NORTH DIRECTION IS N 25°W.
4. VENT TOP SHALL BE REACHEABLE FOR MAINTENANCE PURPOSE.
5. THE BESS IS CONSIDERED SAFE AREA EXCEPT EXTRACTORES FROM BATTERIES , CURRENTLY NOT SHOWN IN DRAWINGS, SINCE INFORMATION FROM VENDOR IS NOT YET AVAILABLE.[ES17]
6. (ES12) IS SHOWN ONLY ON ELEVATION LOOKING NORTH ON THIS LAYOUT
7. THE LOCATION OF EMISSION SOURCES ON THE LAYOUT ARE ONLY INDICATIVE. EMISSION SOURCES CONSIDERED ARE PRESENT WITHIN THE EXTENSION OF HAZARDOUS CLASSIFIED AREAS SHOWN ON THE LAYOUT. THIS IS BECAUSE VALVES AND FLANGES,WHICH ARE CONSIDERED POTENTIAL SOURCES OF RELEASE POINTS FOR FLAMMABLE GAS ARE NOT SHOWN ON CURRENT LAYOUT PROVIDED. THE SAME APPLIES TO THE EMISSION SOURCES FOR CPI'S ITEM.
8. IDENTIFIED EMISSION SOURCES DETAIL

EMISSION SOURCE No.	IDENTIFIED AREAS
ES10	HYDROGEN STORAGE VESSLES
ES11	HYDROGEN VENT KO DRUM
ES12	HYDROGEN VENT
ES16	FUEL CELL

01

LEGEND

ZONE 0 | ZONE 1 | ZONE 2 | ES EMISSION SOURCES

01

REFERENCE DOCUMENTS

123A90-DDL-PP-DS-70070	PLOT PLAN - LOWER & UPPER DECK
123A90-DDL-PP-DS-70071	PLOT PLAN - BELOW LOWER DECK

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	27/08/24	MMA	CCA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	08/02/24	MMA	CCA	DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND | ROSETTI MARINO

TITLE :
BASE LOAD POWER HUB (BLPH)
HAZARDOUS AREA CLASSIFICATION
ELEVATION LOOKING NORTH & EAST

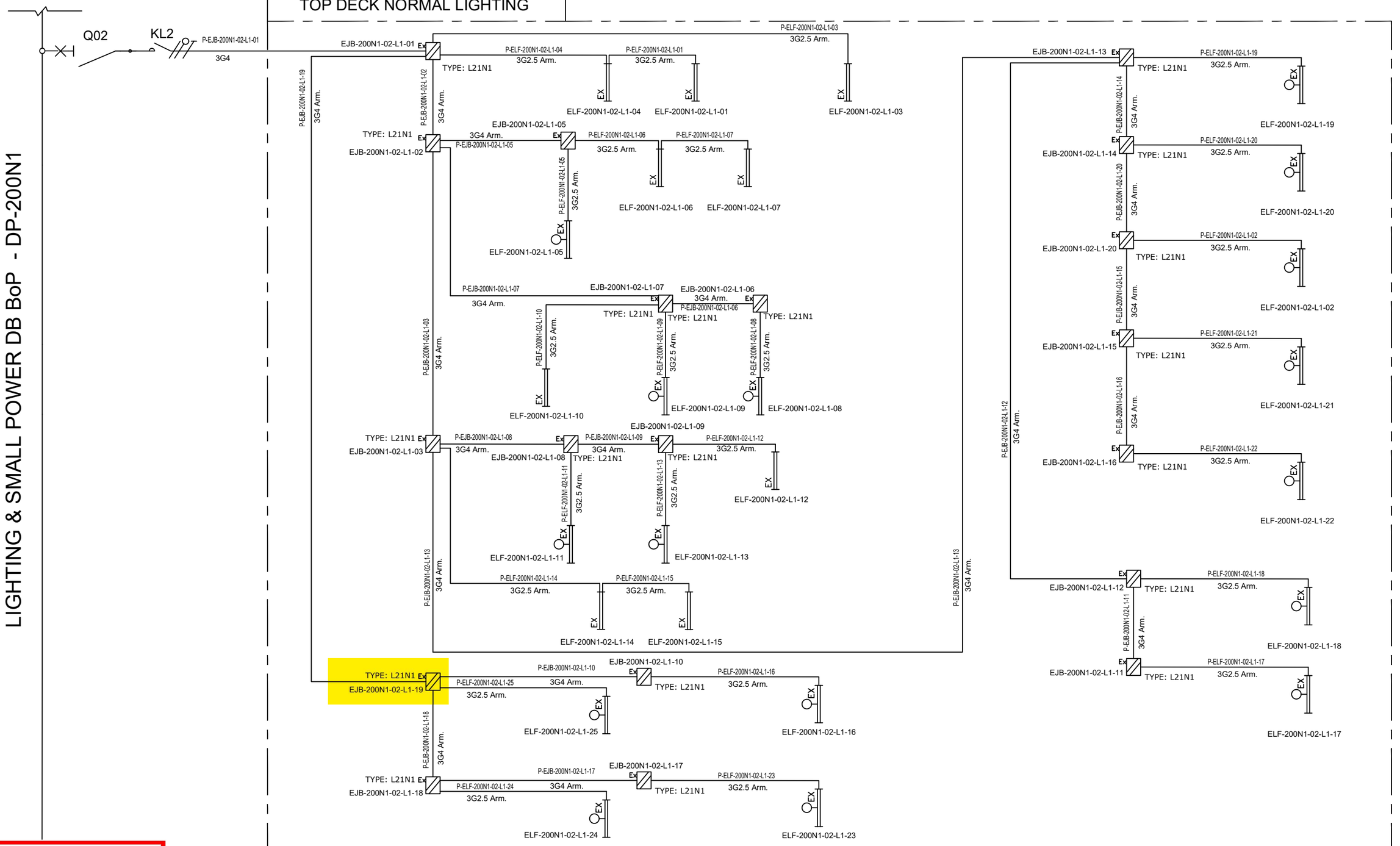
CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK			SCALE 1:150
DRAWN M. MAGNI	CHECKED C. CARACCIOLO	APPROVED D. LO STERZO	DATE 03/07/24

A1	DRAWING NO. 123A90-DDL-SAF-DL-30024	SHEET 001	REV. 01

File Name : 123A90-DDL-SAF-DL-30024 Rev.01

LIGHTING & SMALL POWER DB BoP - DP-200N1

TOP DECK NORMAL LIGHTING



VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DG-20125**

REV.:	DATE:	SIGNATURE:
2_C	20/12/24	V.Ramponi

ROSETTI MARINO SpA

CROSSWIND

ROSETTI MARINO

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	08/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	01/07/24	ASR	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

TITLE : BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET CIRCUIT DIAGRAM
TOP DECK–NORMAL LIGHTING

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE : NTS

A3

DRAWING NO. 123A90–DDL–EL–DG–20125

SHEET 010

REV. 01

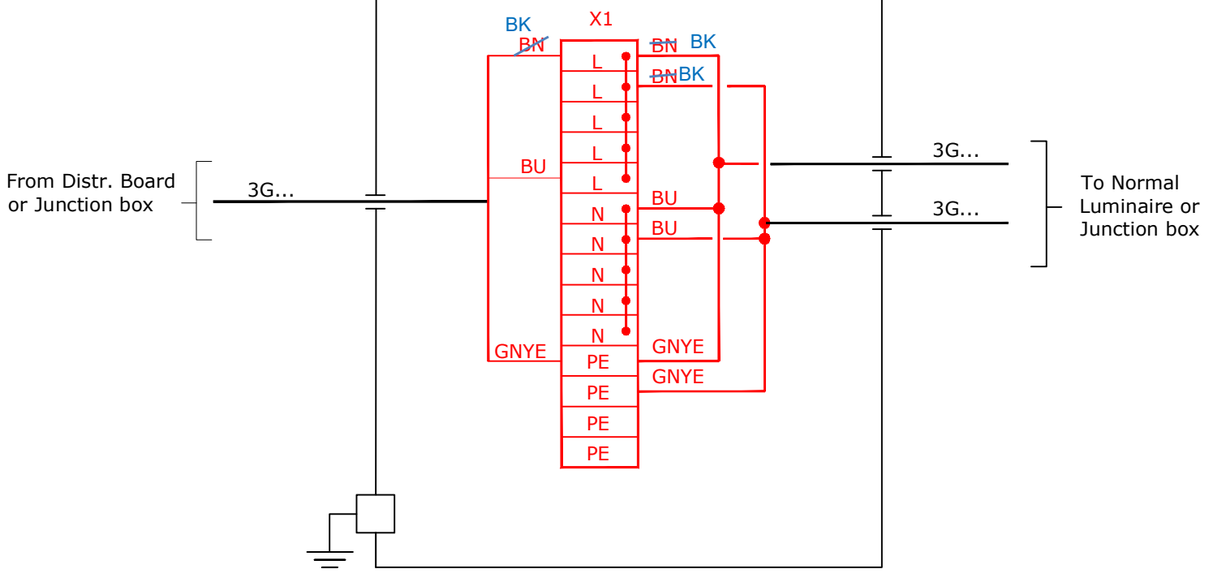
F.to UNI A3: 420mmx297mm

File Name : 123A90–DDL–EL–DG–20125

TYPE : L21N1 & L21N2

ITEM: NORMAL LIGHTING JUNCTION BOX

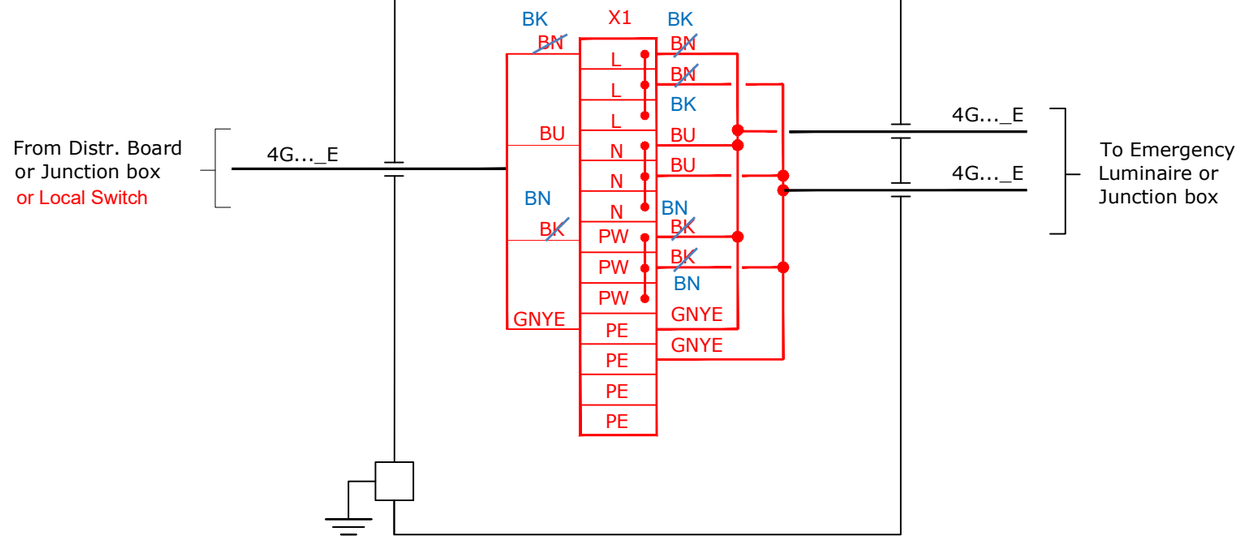
TAG : Typical



TYPE : L21E1 & L21E2

ITEM: EMERGENCY LIGHTING JUNCTION BOX

TAG : Typical



VALID FOR CONSTRUCTION

FDL DWG: **123A90-FDL-EL-DG-20125**

REV.:	DATE:	SIGNATURE:
2_C	20/12/24	V.Ramponi

ROSETTI MARINO SpA

CROSSWIND

ROSETTI MARINO

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	08/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)

TITLE : BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET CIRCUIT DIAGRAM
TYPICAL JB INTERCONNECTING DIAGRAM

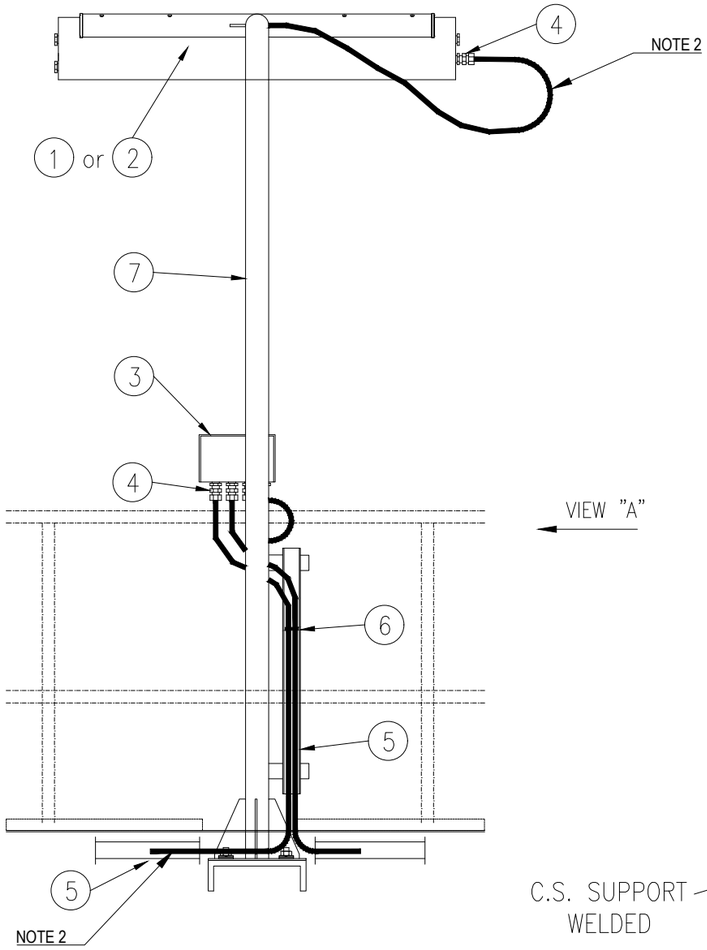
CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK | SCALE : NTS

A3	DRAWING NO.	SHEET	REV.
	123A90-DDL-EL-DG-20125	016	01

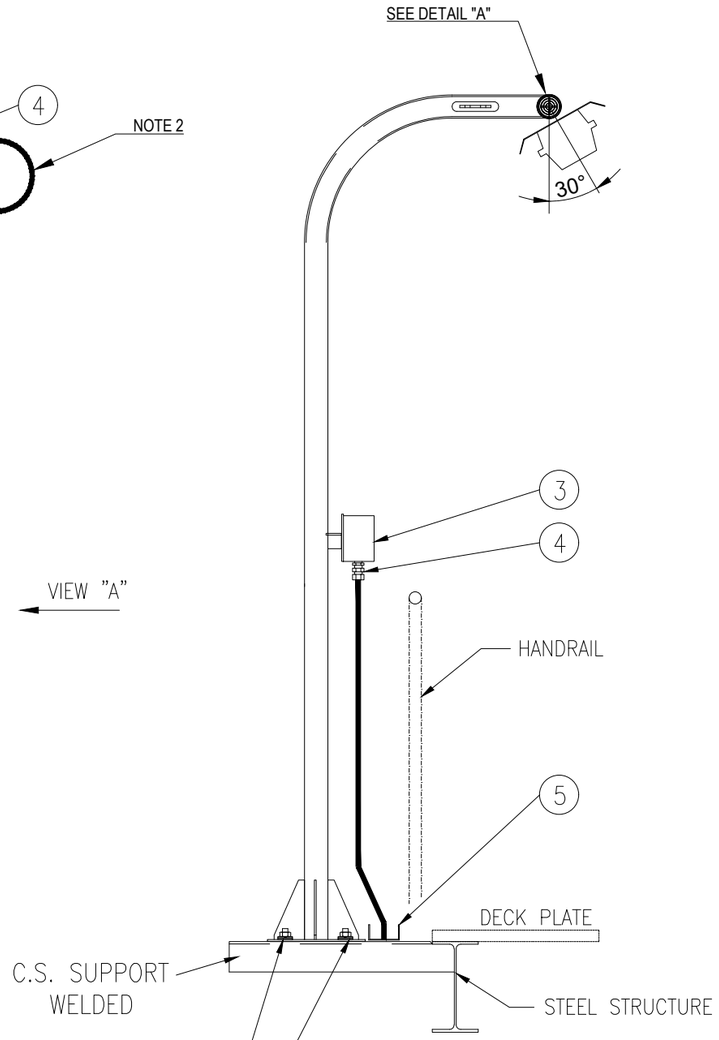
F.to UNI A3: 420mmx297mm

File Name : 123A90-DDL-EL-DG-20125

L11A

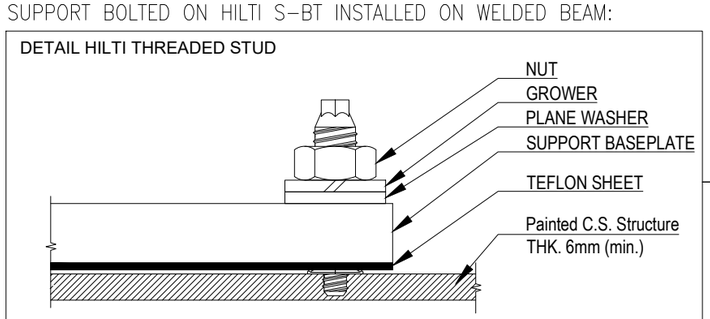


VIEW "A"

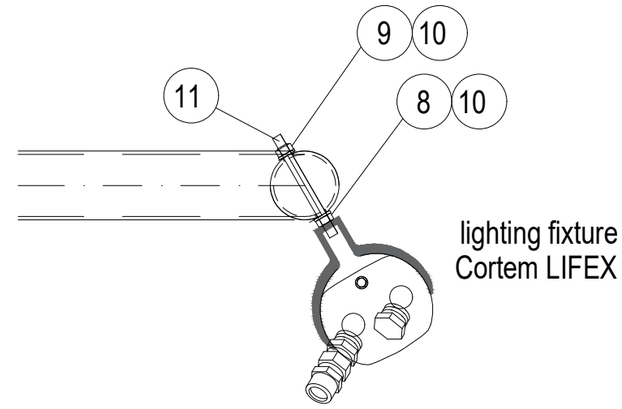


VIEW "A"

SUPPORT BOLTED ON HILTI S-BT INSTALLED ON WELDED BEAM:



POS.	DESCRIPTION	MATERIAL	SIZE	Q.TY	NOTE
1	42W LED LUMINARIES	ALUMINIUM ALLOY		1	
2	45W LED LUMINARIES C/W BATTERY	ALUMINIUM ALLOY		1	
3	JUNCTION BOX (Ex)	GRP		1	NOTE 1
4	CABLE GLAND C/W EARTH TAG, WASHERS, LOCKNUT AND WEATHERPROOF WASHERS	BRASS NICKEL PLATED		AS REQ.	
5	CABLE TRAY	AISI 316L			
6	STAINLESS STEEL NYLON COATED CABLE TIE	SS NYLON COATED			
7	POLE SUPPORT FOR LAMP	AISI 316L	2"		
8	NUT	AISI 316L	M8		
9	SELF.LOCKING NUT	AISI 316L	M8		
10	LARGE PLANE WASHER (24mm DIAM.)	AISI 316L	M8		
11	THREADED ROD M8x100	AISI 316L	M8		



DETAIL "A"

NOTES:

1) FOR LAMPS IN HAZARDOUS AREA, USE ARMOURED CABLE, DOUBLE SEAL CABLE GLAND AND EX JUNCTION BOX.

2) ALWAYS ENSURE CABLE LENGTH IS >3m

VALID FOR CONSTRUCTION

REV.:	DATE:	SIGNATURE:
2_B	12/12/24	C.Pilato

ROSETTI MARINO SpA

02

CROSSWIND

ROSETTI MARINO

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	30/09/24	GRA	AMA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	04/07/24	NLK	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	21/11/23	SPS	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL TYPICAL INSTALLATION DETAILS-LIGHTING SYSTEM
LIGHTING FIXTURE MOUNTED ON POLE

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK | SCALE : NTS

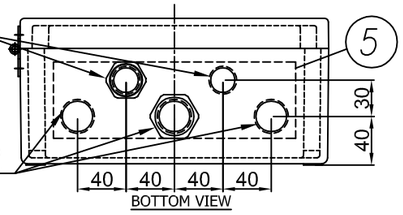
A3 | DRAWING NO. 123A90-DDL-EL-DD-20091 | SHEET 014 | REV. 02

F.to UNI A3: 420mmx297mm

File Name : 123A90-DDL-EL-DD-20091 REV.02.DWG

(10)(4) N°2 PASSING HOLES Ø20.2
C/W N°1 BNK PLUG M20 +
N°1 DUSTPROOF PVC PLUG

(3)(3) N°3 PASSING HOLES Ø25.2
C/W N°1 BNK PLUG M25 +
N°1 DUSTPROOF PVC PLUG



BOTTOM VIEW

(8) I2400722-B015I00029809

TECHNOR ITALSMEA
A COMPANY OF MARECHAL ELECTRIC
Via Italia 33 - 20060 Cassano (MI) ITALY

CE 0080 Ex II 2G II 2D
FIDI 21ATEX 0090X
IECEx FIDI 21.0015X
Year of construction:

MADE IN ITALY

TYPE: AQ-252612P
230VAC 50Hz 20A
Max Dis. P. 6W

Ex eb IIC T6 Gb
Ex tb IIIC T85°C Db
IP66
T.amb. -20/+40°C
Serial Nr.

WARNINGS : DO NOT OPEN WHEN ENERGIZED

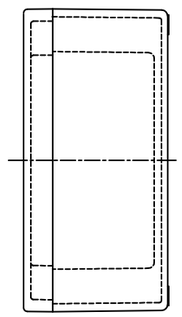
A002MAX

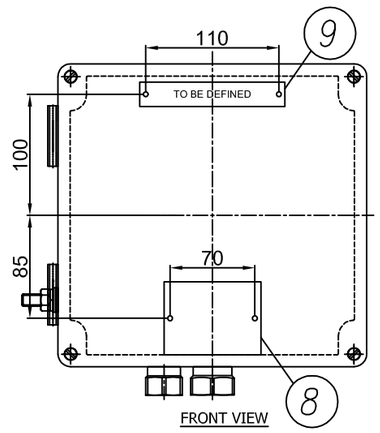
(9) PLATE DETAIL



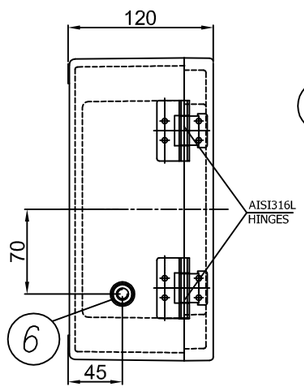
MATERIAL: LAMINATED PLASTIC
BACKGROUND: WHITE
LETTERS: BLACK

(7) JB for Normal Lighting have terminals bridge: L-L-L-L-L, N-N-N-N-N, PE-PE-PE-PE-PE - JB for Emergency Lighting have terminals bridge: L-L-L, N-N-N, PW-PW-PW, PE-PE-PE-PE-PE

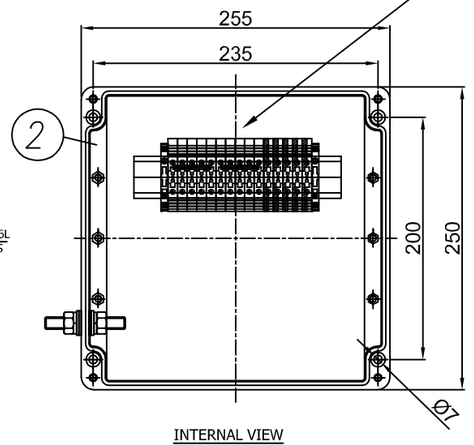

RIGHT VIEW



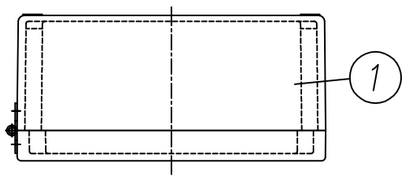
FRONT VIEW



LEFT VIEW



INTERNAL VIEW



TOP VIEW

ITEM	DESCRIPTION	Pcs Q.TY	NOTE/MAT.	CODE	MANUFACTURER
11	DUSTPROOF PVC PLUG Ø25	2	–	.	TECHNOR ITALSMEA
10	DUSTPROOF PVC PLUG Ø20	1	–	.	TECHNOR ITALSMEA
9	LAMINATED PLASTIC TAG 120X20	1	–	.	TECHNOR ITALSMEA
8	AISI316L CERTIFICATE PLATE 80X60	1	–	.	TECHNOR ITALSMEA
7	BEIGE TERMINAL BLOCK SIZE 6 SQMM EARTH TERMINAL BLOCK SIZE 6 SQMM	105	WDU–6 WPE–6	.	WEIDMULLER
6	AISI316L INT/EXT EARTH BOLT M10	1	BTP–10	.	TECHNOR ITALSMEA
5	BRASS CONTINUITY PLATE THK. 0.8 MM	1	–	.	TECHNOR ITALSMEA
4	NICKEL PLATED BRASS PLUG M20	1	T20	.	TECHNOR ITALSMEA
3	NICKEL PLATED BRASS PLUG M25	1	T25	.	TECHNOR ITALSMEA
2	INTERNAL MOUNTING PLATE	1	PS–2526	.	TECHNOR ITALSMEA
1	GRP ENCLOSURE	1	AQ–252612P	.	TECHNOR ITALSMEA

-UNPAINTED (BLACK NATURAL)
Q.TY 92, ITEM 20: 2JBXXGPEE, ELEJB02

Explosion Proof
Electrical Equipment
Materiali Elettrici Antideflagranti

TECHNOR ITALSMEA
A COMPANY OF MARECHAL ELECTRIC

CROSSWIND

ROSETTI MARINO

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
04	26/11/24	FB	OB	OB	ACCEPTED FOR CONSTRUCTION (AFC)
03	25/10/24	FB	OB	OB	ACCEPTED FOR CONSTRUCTION (AFC)
02	12/09/24	FB	OB	OB	ACCEPTED FOR CONSTRUCTION (AFC)
01	03/09/24	FB	OB	OB	ACCEPTED FOR CONSTRUCTION (AFC)
00	30/07/24	FB	OB	OB	ISSUE FOR REVIEW (IFR)

TITLE : BASE LOAD POWER HUB (BLPH)

Junction Box for Normal & Emergency Lighting

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE : NTS

A3

DRAWING NO. 1724001481-EL-DA-00003

SHEET 004

REV. 04

F.to UNI A3: 420mmx297mm

File Name : 1724001481-EL-DA-00003 Rev. 01

ENCLOSURE N°	TAG LIST	NORMAL LIGHTNING	EMERGENCY LIGHTNING
1	EJB-200N1-03-L2-04	X	
2	EJB-200N1-03-L2-03	X	
3	EJB-200N1-03-L2-01	X	
4	EJB-200N1-03-L2-02	X	
5	EJB-200N1-03-L2-12	X	
6	EJB-200N1-03-L2-11	X	
7	EJB-200N1-03-L2-10	X	
8	EJB-200N1-03-L2-09	X	
9	EJB-200N1-03-L2-08	X	
10	EJB-200N1-03-L2-07	X	
11	EJB-200N1-03-L2-06	X	
12	EJB-200N1-03-L2-05	X	
13	EJB-200N1-03-L2-14	X	
14	EJB-200N1-03-L2-13		X
15	EJB-200N1-09-L2-17		X
16	EJB-200N1-09-L2-01		X
17	EJB-200N1-09-L2-04		X
18	SPARE (TO BE PROVIDED BLANK)		X
19	EJB-200N1-09-L2-02		X
20	EJB-200N1-09-L2-15		X
21	EJB-200N1-09-L2-14		X
22	EJB-200N1-09-L2-13		X
23	EJB-200N1-09-L2-12		X
24	EJB-200N1-09-L2-11		X
25	EJB-200N1-09-L2-10		X
26	EJB-200N1-09-L2-09		X
27	EJB-200N1-09-L2-08		X
28	EJB-200N1-09-L2-07		X
29	EJB-200N1-09-L2-06		X
30	EJB-200N1-09-L2-05		X
31	EJB-200N1-09-L2-16	X	
32	EJB-200N1-04-L3-01	X	
33	EJB-200N1-04-L3-02	X	
34	EJB-200N1-10-L3-05		X
35	EJB-200N1-10-L3-06		X
36	EJB-200N1-10-L3-07		X
37	EJB-200N1-10-L3-08		X
38	EJB-200N1-10-L3-09		X
39	EJB-200N1-10-L3-02		X
40	EJB-200N1-10-L3-01		X
41	EJB-200N1-10-L3-03		X
42	EJB-200N1-10-L3-04		X
43	EJB-200N1-02-L1-03	X	
44	EJB-200N1-02-L1-02	X	
45	EJB-200N1-02-L1-01	X	
46	SPARE (TO BE PROVIDED BLANK)	X	
47	EJB-200N1-02-L1-10	X	
48	EJB-200N1-02-L1-19	X	
49	EJB-200N1-02-L1-18	X	

ENCLOSURE N°	TAG LIST	NORMAL LIGHTNING	EMERGENCY LIGHTNING
50	EJB-200N1-02-L1-17	X	
51	EJB-200N1-02-L1-16	X	
52	EJB-200N1-02-L1-15	X	
53	EJB-200N1-02-L1-14	X	
54	EJB-200N1-02-L1-13	X	
55	EJB-200N1-02-L1-12	X	
56	EJB-200N1-02-L1-11	X	
57	EJB-200N1-02-L1-06	X	
58	EJB-200N1-02-L1-05	X	
59	EJB-200N1-02-L1-07	X	
60	EJB-200N1-02-L1-08	X	
61	EJB-200N1-02-L1-09	X	
62	EJB-200N1-08-L1-03		X
63	SPARE (TO BE PROVIDED BLANK)		X
64	EJB-200N1-08-L1-01		X
65	EJB-200N1-08-L1-04		X
66	EJB-200N1-08-L1-19		X
67	EJB-200N1-08-L1-18		X
68	EJB-200N1-08-L1-17		X
69	EJB-200N1-08-L1-16		X
70	EJB-200N1-08-L1-15		X
71	EJB-200N1-08-L1-14		X
72	~~EJB-200N1-08-L1-13~~ EJB-200N1-02-L1-20	X	
73	EJB-200N1-08-L1-12		X
74	EJB-200N1-08-L1-11		X
75	EJB-200N1-08-L1-10		X
76	EJB-200N1-08-L1-20		X
77	EJB-200N1-08-L1-05		X
78	EJB-200N1-08-L1-06		X
79	EJB-200N1-08-L1-07		X
80	EJB-200N1-08-L1-09		X
81	EJB-200N1-08-L1-08		X
82	EJB-200F2-01	X	
83	EJB-200F2-02	X	
84	SPARE (TO BE PROVIDED BLANK)	X	
85	SPARE (TO BE PROVIDED BLANK)	X	
86	SPARE (TO BE PROVIDED BLANK)	X	
87	SPARE (TO BE PROVIDED BLANK)	X	
88	SPARE (TO BE PROVIDED BLANK)	X	
89	SPARE (TO BE PROVIDED BLANK)		X
90	SPARE (TO BE PROVIDED BLANK)		X
91	SPARE (TO BE PROVIDED BLANK)		X
92	SPARE (TO BE PROVIDED BLANK)		X

Q.TY 92, ITEM 20: 2JBXXGPEE, ELEJB02

Explosion Proof
Electrical Equipment
Materiali Elettrici Antideflagranti

TECHNOR ITALSMEA
A COMPANY OF MARECHAL ELECTRIC

CROSSWIND

ROSETTI MARINO

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
04	26/11/24	FB	OB	OB	ACCEPTED FOR CONSTRUCTION (AFC)
03	25/10/24	FB	OB	OB	ACCEPTED FOR CONSTRUCTION (AFC)
02	12/09/24	FB	OB	OB	ACCEPTED FOR CONSTRUCTION (AFC)
01	03/09/24	FB	OB	OB	ACCEPTED FOR CONSTRUCTION (AFC)
00	30/07/24	FB	OB	OB	ISSUE FOR REVIEW (IFR)

TITLE : BASE LOAD POWER HUB (BLPH)

Junction Box for Normal & Emergency Lighting–Tag List

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE : NTS

A3

DRAWING NO. 1724001481-EL-DA-00003

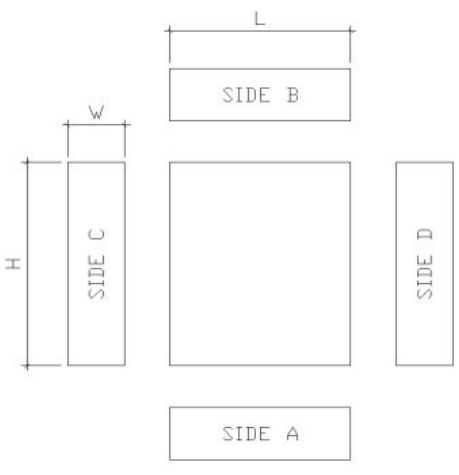
SHEET 005

REV. 04

F.to UNI A3: 420mmx297mm

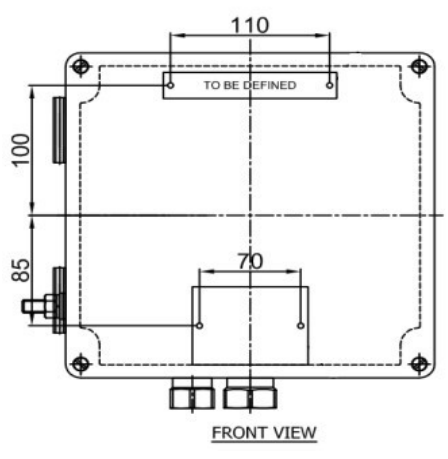
File Name : 1724001481-EL-DA-00003 Rev. 01

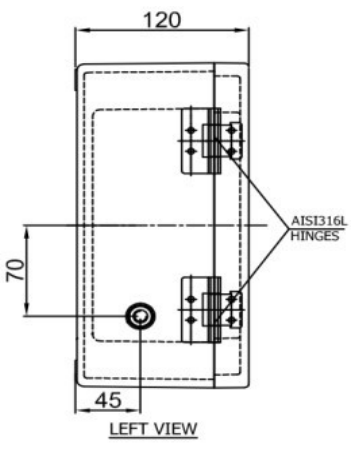
Row	Data Sheet for Control Stations, Junction Boxes and Sockets				Rev.
1	Junction Box for Normal & Emergency Lighting (Exdb)				
2	Item	Required	Manufacturer Proposal	Comments	
3	Model Number	by Vendor	AQ-252612P		01
4	Serial Number	by Vendor	B011041010004		01
5	Quantity	43+5(spare)		(39+9 spare)	01
6	Appkication	Lighting pole JB/Lighting JB			00
7	**Installation area**				
8	Indoor/Outdoor	Outdoor			00
9	Safe Area/Hazardous Area	Hazardous area			00
10	Zone 1/Zone 2	Zone-1			00
11	Temp. Class	Zone 1 Gas Group IIC (or) IIB + H2, T1	Ex eb IIC, T6 Gb		01
12	**Electrical input data**				
13	Voltage	230 V ac	230 V ac		01
14	Number of Phases	1ph + N + PE			00
15	**Material**				
16	Body	GRP	GRP		01
17	Execution	Ex eb	Ex eb		00
18	Protection Degree	IP56	IP 66		01
19	**Accessories**				
20	Hinged Cover	Required	AISI316L Hinges		01
21	Gasket	Required			00
22	Removable Gland Plates	Required	Brass Continuity plate 0.8mm thick		01
23	Internal Mounting Plate	Thickness 3mm threaded		connected to Internal ground bar	00
24	Internal Ground Bar	Required		connected to earth stud	00
25	Earth Stud	Required			00
26	Drainage Valve	Required			00
27	Pad lockable Cover	Required			00
28	Identification Label	Trafolite/ Stainless Steel	Laminated Plastic	for all label	01
29	**Side 'A'**				
30	Hubs Qty.	5	5		01
31	Size	No.3 M25, No.2 M20	No.3 Ø 25.2 mm, No.2 Ø 20.2 mm		01
32	Thread	ISO-M			00
33	Plug	No. 1 M20, No.1 M25	No. 1 Ø 20.2 mm, No.1 Ø 25.2 mm	nickel-plated brass	01
34	**Side 'B'**				
35	Hubs Qty.	Not Required			00
36	Size	NA			00
37	Thread	NA			00
38	**Side 'C'**				
39	Hubs Qty.	Not Required			00
40	Size	NA			00
41	Thread	NA			00
42	**Side 'D'**				
43	Hubs Qty.	Not Required			00
44	Size	NA			00
45	Thread	NA			00
46	**Terminals**				
47	Size [mm^2]	Suitable for 6 Sq.mm & 2.5 Sq.mm Cable	M25 & M20	suitable with wire-end ferrules DIN 46228	01
48	Qty.	n°5 for Ph // n°5 for N // n°5 for PE	n°5 for Ph // n°5 for N // n°5 for PE	Ex - jumpered	01
49	**Bonding Cable (yellow/Green)**				
50	Size [mm^2]	by vendor		6 mm^2	01
51	Qty.	Min. 0.15m			00
52	**Dimension**				
53	Height 'H' [mm]	by vendor	120 mm		01
54	Width 'W' [mm]	by vendor	250 mm		01
55	Length 'L' [mm]	by vendor	255 mm		01
56	Weight [Kg]	by vendor	2.65 Kg		01
57	JB Code (*)	Remarks			
58					



NOTES:

(*) Filled by Vendor





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Tag Number	Tag Description	Location	P.O.	Vendor	Manufacturer	Serial Number	Model Type Catalogue Number	Installation Zone	ATEX Certificate Number	Reference Document	ATEX Certification Marking	Notes / Comments	Skid / Package	Electrical Equip.	Barrier Calculation Ref.	Special Conditions of Safe Use Applicable	3D Location
CB-200F4B	AC UPS F&G - Battery Isolator-B	CONTAINER B-300 (LOWER DECK)	1724000372	3W Power	Cortem Spa		EJBC	Zone 1	EPT 20 ATEX 4075X	1724000372-EL-DG-00011	II 2GDEx db IIC T6 Gb Ex tb IIIC T 85°C Db	-	N/A	True	N/A	False	
EAT-200N1-01	Trace Heating - Remote Ambient Thermostat	LOWER DECK	1724001647	nVent	nVent	1244-022663	ETS-05-A2-E-A	Zone 1	Baseefa 13ATEX0137	1724001647-EL-DD-00004	II 2(1)G Ex eb ia mb [ia Ga] IIC T5 Gb - 40ºC ≤ Ta ≤ +60ºC II 2D Ex tb IIIC T100ºC Db	-	N/A	True	N/A	False	
EHT-1001-A	Self-regulating heat cable	LOWER DECK	1724001647	nVent	nVent	469145-000	3BTV2-CT	Zone 1	SGS20ATEX0048X	1724001647-EL-DD-00004	II 2 GD Ex 60079-30-1 eb IIC T6 Gb	-	N/A	True	N/A	True	
EHT-1002-A	Self-regulating heat cable	LOWER DECK	1724001647	nVent	nVent	469145-000	3BTV2-CT	Zone 1	SGS20ATEX0048X	1724001647-EL-DD-00004	II 2 GD Ex 60079-30-1 eb IIC T6 Gb	-	N/A	True	N/A	True	
EHT-1003-A	Self-regulating heat cable	LOWER DECK	1724001647	nVent	nVent	469145-000	3BTV2-CT	Zone 1	SGS20ATEX0048X	1724001647-EL-DD-00004	II 2 GD Ex 60079-30-1 eb IIC T6 Gb	-	N/A	True	N/A	True	
EHT-1004-A	Self-regulating heat cable	UPPER DECK	1724001647	nVent	nVent	469145-000	3BTV2-CT	Zone 1	SGS20ATEX0048X	1724001647-EL-DD-00004	II 2 GD Ex 60079-30-1 eb IIC T6 Gb	-	N/A	True	N/A	True	
EHT-1004-B	Self-regulating heat cable	UPPER DECK	1724001647	nVent	nVent	469145-000	3BTV2-CT	Zone 1	SGS20ATEX0048X	1724001647-EL-DD-00004	II 2 GD Ex 60079-30-1 eb IIC T6 Gb	-	N/A	True	N/A	True	
EHT-1005-A	Self-regulating heat cable	UPPER DECK	1724001647	nVent	nVent	469145-000	3BTV2-CT	Zone 1	SGS20ATEX0048X	1724001647-EL-DD-00004	II 2 GD Ex 60079-30-1 eb IIC T6 Gb	-	N/A	True	N/A	True	
EHT-1006-A	Self-regulating heat cable	UPPER DECK	1724001647	nVent	nVent	469145-000	3BTV2-CT	Zone 1	SGS20ATEX0048X	1724001647-EL-DD-00004	II 2 GD Ex 60079-30-1 eb IIC T6 Gb	-	N/A	True	N/A	True	
EHT-1007-A	Self-regulating heat cable	LOWER DECK	1724001647	nVent	nVent	469145-000	3BTV2-CT	Zone 1	SGS20ATEX0048X	1724001647-EL-DD-00004	II 2 GD Ex 60079-30-1 eb IIC T6 Gb	-	N/A	True	N/A	True	
EHT-2002-A	Self-regulating heat cable	UPPER DECK	1724001647	nVent	nVent	469145-000	3BTV2-CT	Zone 1	SGS20ATEX0048X	1724001647-EL-DD-00004	II 2 GD Ex 60079-30-1 eb IIC T6 Gb	-	N/A	True	N/A	True	
EJB-200F2-01	Top Obstruction Lights Junction Box	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990082	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	HAZARDOUS-AREA_8 HAZARDOUS-AREA_3
EJB-200F2-02	Intermediate obstruction lights junction box	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990083	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	HAZARDOUS-AREA_4
EJB-200N1-02-L1-01	Normal Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990045	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-02-L1-02	Normal Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990044	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-02-L1-03	Normal Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990043	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	HAZARDOUS-AREA_3
EJB-200N1-02-L1-05	Normal Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990058	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-02-L1-06	Normal Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990057	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-02-L1-07	Normal Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990059	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-02-L1-08	Normal Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990060	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-02-L1-09	Normal Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990061	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-02-L1-10	Normal Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990047	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-02-L1-11	Normal Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990056	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-02-L1-12	Normal Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990055	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-02-L1-13	Normal Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990054	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-02-L1-14	Normal Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990053	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-02-L1-15	Normal Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990052	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-02-L1-16	Normal Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990051	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-02-L1-17	Normal Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990050	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-02-L1-18	Normal Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990049	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-02-L1-19	Normal Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990048	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-02-L1-20	Normal Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990072	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-03-L2-01	Normal Lighting JB	LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990003	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-03-L2-02	Normal Lighting JB	LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990004	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-03-L2-03	Normal Lighting JB	LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990002	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-03-L2-04	Normal Lighting JB	LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990001	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-03-L2-05	Normal Lighting JB	LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990012	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-03-L2-06	Normal Lighting JB	LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990011	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-03-L2-07	Normal Lighting JB	LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990010	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-03-L2-08	Normal Lighting JB	LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990009	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-03-L2-09	Normal Lighting JB	LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990008	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-03-L2-10	Normal Lighting JB	LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990007	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-03-L2-11	Normal Lighting JB	LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990006	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-03-L2-12	Normal Lighting JB	LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990005	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-03-L2-13	Normal Lighting JB	LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990014	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-03-L2-14	Normal Lighting JB	LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990013	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-04-L3-01	Stair Normal Lighting JB	LOWER DECK STAIRS	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990032	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-04-L3-02	Stair Normal Lighting JB	LOWER DECK STAIRS	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990033	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-08-L1-01	Emergency Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990064	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-08-L1-03	Emergency Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990062	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	HAZARDOUS-AREA_3
EJB-200N1-08-L1-04	Emergency Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990065	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-08-L1-05	Emergency Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990077	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-08-L1-06	Emergency Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990078	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	

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[1] # EU – TYPE EXAMINATION CERTIFICATE

[2] Equipment or Protective Systems Intended for use in Potentially Explosive Atmospheres Directive 2014/34/EU.

[3] EU-Type Examination Certificate Number: **FIDI 21 ATEX 0090X** Issue: **1**

[4] Product: **Junction boxes, local control stations and local control panels**

Type: **AQ-***P / AQ-***AL / AR-***P / AR-***AL**
AQ-*P-HT / AQ-***AL-HT / AR-***P-HT / AR-***AL-HT**
SB-* / ST-***
EFE-* / EFXE-*** AL / EFXE-***SB / EFXE-***ST**
EFE-*-HT / EFXE-***AL-HT**

[5] Manufacturer: **Technor Italsmea S.p.A.**

[6] Address: **Via Italia 33, 20060 Gessate (MI), Italy**

[7] This product and any acceptable variation thereto is specified in the schedule to this certificate and documents therein referred to.

[8] FIDITAS Ltd., Notified Body number 2829 in accordance with Article 17 of Directive 2014/34/EU of the European Parliament and of the Council, dated 26 February 2014, certifies that this product has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of products intended for use in potentially explosive atmospheres given in Annex II of the Directive.

The examination and test results are recorded in confidential Report No: **FIDI 21 CR 075**

[9] Compliance with the Essential Health and Safety Requirements has been assured by compliance with:

EN IEC 60079-0:2018	**EN 60079-1:2014**	**EN IEC 60079-7:2015 / A1:2018**
EN 60079-11:2012	**EN 60079-18:2015/A1:2017**	**EN 60079-31:2014**

except in respect of those requirements listed at item 18 of the Schedule.

[10] If the sign 'X' is placed after the certificate number, it indicates that the product is subject to Specific Conditions of Use specified in the schedule to this certificate.

[11] This EU-Type Examination Certificate relates only to the design, examination and test of the specified product in accordance with Annex III. Further requirements of the Directive apply to the manufacturing process and supply of this products. These are not covered by this certificate.

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[12] The marking of the product shall include the following:



II 1 G	**Ex ia IIC/IIB T6...T4 Ga**(2) or
II 2(1) G or **II 2(2) G**	**Ex db eb ia/ib mb [**(3)**] IIC/IIB T6...T4 Gb**(1) or
II 2 G	**Ex eb IIC/IIB T6...T4 Gb**(1) or
II 2 D	**Ex tb IIIC T85°C...T135°C Db**

(1) Others type of protection additional to 'eb' depending to the components actually mounted.

(2) In case of enclosures containing 'eb' terminals and/or 'ia Ga' already certified components (with compatible marking) only.

(3) Associated equipment protection depending on the components actually mounted (see lists): e.g. [ia/ib/ia Ga/ia IIIC Da] and/or [ia IIIC Da] or [ia/ib/ia Ga/ia IIIC Da] and/or [ia/ib/ia Ga] [ia IIIC Da]

Our ref.: 21.CRT.400

Date: 23. 12.2021.

Fiditas d.o.o. ZAGREB

FIDITAS Ltd.
Certification department
Approved:

Marino Kelava, M.E.Eng.

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[13] **SCHEDULE**

[14] **EU - TYPE EXAMINATION CERTIFICATE No.:** **FIDI 21 ATEX 0090X**

[15] **Description of product**

Junction boxes, local control stations and local control panels are made of 'eb' and 'tb' enclosures in stainless steel, aluminium alloy or glass fiber reinforced polyester resin, of various dimensions, which shall house 'eb' and/or 'ia/ib' terminals and/or Ex components or Ex equipment made in different type of Ex protection. All Ex terminals, Ex components and Ex equipment are covered by their own ATEX certificates.

The terminals and components are be used according to data available in related component certificates, in relevant temperature range, voltage and current limitations. The terminals must be fitted in accordance with EN IEC 60079-0 and EN IEC 60079-7 with regards to creepage and clearance distances, and according to related safety instructions.

The cover is fixed to the body with screw, between body and cover a gasket guarantee the protection degree IP66 (IP66/67 depending on models). The cover of stainless-steel enclosure can be also fixed the body with looking devices, between body and cover a gasket guarantee the protection degree IP66. The IP degree of junction boxes, local control stations and local control panels depend on the components actually mounted. The walls and the bottom of the boxes can be drilled and taped with maximum size and maximum number of holes as specified in the manufacturer documents.

The cable glands or plugs, with separate ATEX certificate, made in type of protection 'eb' and/or 'tb' with appropriate IP protection are mounted according to related manufacturer's installation instructions. Each enclosure is provided with internal earthing certified terminal or earthing screw or bolt. Metal enclosures are provided by external earthing screw or bolt. Metal and polyester enclosures can be provided by passing through earthing terminals.

All enclosures can be provided by:
- Externally installed accessories as specified in manufacturer documents,
- Drain breath device type ECR3, included in this certificate,
- Internal/external earthing plate.

Model identification

Junction boxes

A(1)-(2) (3) (4) (5) (6)	(1) –	**Q**: Square size **R**: Rectangular size
	(2) (3) (4)	dimension, in cm
	(5)	Material **P**: Glass fiber reinforced polyester resin **AL**: Aluminium Alloy
	(6)	None: up to internal temperature of 105°C **HT**: up to internal temperature of 130°C
SB- (2) (3) (4)	(2) (3) (4)	dimension, in cm
ST- (2) (3) (4)	(2) (3) (4)	dimension, in cm

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Panel boards

EFE- (2) (3) (4) (6)	(2) (3) (4)	dimension, in cm
	(6)	None: up to internal temperature of 105°C **HT**: up to internal temperature of 130°C
EFXE- (2) (3) (4) (5) (6)	(2) (3) (4)	dimension, in cm
		Material
	(5)	**SB** or **ST**: stainless steel **AL**: Aluminium Alloy
	(6)	None: up to internal temperature of 105°C **HT**: up to internal temperature of 130°C

Technical data:

Electrical data:	According to Ex component to actually installed
Ambient temperature:	-50°C ÷ +95°C Other possible ranges are with: - min temperature: -50°C to -20 °C - max temperature of +40 °C to +95 °C
Mechanical protection:	IP66/IP67 depending on models IP66 without swing handle element IP55 with swing handle element

Temperature class and/or maximum surface temperature of any junction box or control panel depend on ambient temperature and internal power dissipation. The values that must be observed are given in relevant tables in this certificate.

For commercial reasons model name listed in the tables below can be modified as follows: first (2) and second (3) pair of digits can be reversed.

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Model sizes

Polyester High Temperature		Aluminium High Temperature	
AQ-080806P-HT	EFE-080806-HT	AQ-080806AL-HT	EFXE-080806AL-HT
AQ-080808P-HT	EFE-080808-HT	AR-081306AL-HT	EFXE-081306AL-HT
AR-081106P-HT	EFE-081106-HT	AR-081806AL-HT	EFXE-081806AL-HT
AR-081108P-HT	EFE-081108-HT	AR-082505AL-HT	EFXE-082505AL-HT
AR-081606P-HT	EFE-081606-HT	AQ-101008AL-HT	EFXE-101008AL-HT
AR-081608P-HT	EFE-081608-HT	AR-101608AL-HT	EFXE-101608AL-HT
AR-081906P-HT	EFE-081906-HT	AR-102008AL-HT	EFXE-102008AL-HT
AR-081908P-HT	EFE-081908-HT	AQ-121208AL-HT	EFXE-121208AL-HT
AR-082306P-HT	EFE-082306-HT	AQ-121209AL-HT	EFXE-121209AL-HT
AR-082308P-HT	EFE-082308-HT	AR-122208AL-HT	EFXE-122208AL-HT
AQ-121209P-HT	EFE-121209-HT	AR-122209AL-HT	EFXE-122209AL-HT
AR-122209P-HT	EFE-122209-HT	AR-123608AL-HT	EFXE-123608AL-HT
AQ-161609P-HT	EFE-161609-HT	AQ-141409AL-HT	EFXE-141409AL-HT
AR-162609P-HT	EFE-162609-HT	AR-142009AL-HT	EFXE-142009AL-HT
AR-163609P-HT	EFE-163609-HT	AQ-161609AL-HT	EFXE-161609AL-HT
AR-165609P-HT	EFE-165609-HT	AR-162609AL-HT	EFXE-162609AL-HT
AQ-202017P-HT	EFE-202017-HT	AR-163609AL-HT	EFXE-163609AL-HT
AR-203017P-HT	EFE-203017-HT	AR-165609AL-HT	EFXE-165609AL-HT
AQ-252612P-HT	EFE-252612-HT	AQ-181810AL-HT	EFXE-181810AL-HT
AQ-252616P-HT	EFE-252616-HT	AR-182810AL-HT	EFXE-182810AL-HT
AR-254012P-HT	EFE-254012-HT	AR-102311AL-HT	EFXE-102311AL-HT
AR-254016P-HT	EFE-254016-HT	AR-202311AL-HT	EFXE-202311AL-HT
AR-256012P-HT	EFE-256012-HT	AR-202318AL-HT	EFXE-202318AL-HT
AR-304020P-HT	EFE-304020-HT	AR-232811AL-HT	EFXE-232811AL-HT
AQ-363609P-HT	EFE-363609-HT	AR-233311AL-HT	EFXE-233311AL-HT
AR-406025P-HT	EFE-406025-HT	AR-233318AL-HT	EFXE-233318AL-HT
AQ-414012P-HT	EFE-414012-HT	AR-234011AL-HT	EFXE-234011AL-HT
AQ-414020P-HT	EFE-414020-HT	AR-234023AL-HT	EFXE-234023AL-HT
		AR-236011AL-HT	EFXE-236011AL-HT
		AR-314011AL-HT	EFXE-314011AL-HT
		AR-314014AL-HT	EFXE-314014AL-HT
		AR-314018AL-HT	EFXE-314018AL-HT
		AR-314023AL-HT	EFXE-314023AL-HT
		AR-316011AL-HT	EFXE-316011AL-HT
		AR-316018AL-HT	EFXE-316018AL-HT
		AQ-606020AL-HT	EFXE-606020AL-HT

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Polyester		Aluminium		Stainless steel	
AQ-080806P	EFE-080806	AQ-080806AL	EFXE-080806AL	SB-101210	EFXE-101210SB
AQ-080808P	EFE-080808	AR-081306AL	EFXE-081306AL	SB-151510	EFXE-151510SB
AR-081106P	EFE-081106	AR-081806AL	EFXE-081806AL	SB-142013	EFXE-142013SB
AR-081606P	EFE-081606	AR-081808AL	EFXE-081808AL	SB-202010	EFXE-202010SB
AR-081906P	EFE-081906	AR-082505AL	EFXE-082505AL	SB-202016	EFXE-202016SB
AQ-121209P	EFE-121209	AR-082508AL	EFXE-082508AL	SB-202713	EFXE-202713SB
AR-122209P	EFE-122209	AQ-101008AL	EFXE-101008AL	SB-272713	EFXE-272713SB
AQ-161609P	EFE-161609	AR-101508AL	EFXE-101508AL	SB-203016	EFXE-203016SB
AR-162609P	EFE-162609	AR-101608AL	EFXE-101608AL	SB-273513	EFXE-273513SB
AR-163609P	EFE-163609	AR-102008AL	EFXE-102008AL	SB-282816	EFXE-282816SB
AQ-252612P	EFE-252612	AQ-121208AL	EFXE-121208AL	SB-204016	EFXE-204016SB
AQ-252616P	EFE-252616	AR-122209AL	EFXE-122209AL	SB-353516	EFXE-353516SB
AR-254012P	EFE-254012	AQ-141409AL	EFXE-141409AL	SB-282827	EFXE-282827SB
AR-254016P	EFE-254016	AR-142009AL	EFXE-142009AL	SB-355016	EFXE-355016SB
AR-256012P	EFE-256012	AQ-161609AL	EFXE-161609AL	SB-383816	EFXE-383816SB
AQ-414012P	EFE-414012	AR-162410AL	EFXE-162410AL	SB-384516	EFXE-384516SB
		AR-162609AL	EFXE-162609AL	SB-385716	EFXE-385716SB
		AQ-181810AL	EFXE-181810AL	SB-505016	EFXE-505016SB
		AR-182810AL	EFXE-182810AL	SB-383827	EFXE-383827SB
		AR-202311AL	EFXE-202311AL	SB-575716	EFXE-575716SB
		AR-202318AL	EFXE-202318AL	SB-577620	EFXE-577620SB
		AR-232811AL	EFXE-232811AL	SB-575730	EFXE-575730SB
		AR-233312AL	EFXE-233312AL	SB-769520	EFXE-769520SB
		AR-233318AL	EFXE-233318AL	SB-1258040	EFXE-1258040SB

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Enclosure types (Stainless steel)	
ST-101210	EFXE-101210ST
ST-151510	EFXE-151510ST
ST-142013	EFXE-142013ST
ST-202010	EFXE-202010ST
ST-202016	EFXE-202016ST
ST-202713	EFXE-202713ST
ST-272713	EFXE-272713ST
ST-203016	EFXE-203016ST
ST-273513	EFXE-273513ST
ST-282816	EFXE-282816ST
ST-204016	EFXE-204016ST
ST-353516	EFXE-353516ST
ST-282827	EFXE-282827ST
ST-355016	EFXE-355016ST
ST-383816	EFXE-383816ST
ST-384516	EFXE-384516ST
ST-385716	EFXE-385716ST
ST-505016	EFXE-505016ST
ST-383827	EFXE-383827ST
ST-575716	EFXE-575716ST
ST-577620	EFXE-577620ST
ST-575730	EFXE-575730ST
ST-769520	EFXE-769520ST
ST-1258040	EFXE-1258040ST

Note 2 For stainless steel enclosures: dimensions (2) and (3) can be decreased or increased up to 20%, dimensions (4) can be increased up to 500 mm. Model name changes consequently.

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Power dissipation – HT glass fiber reinforced polyester resin enclosures

Enclosure types (polyester)		Maximum power dissipation (W) – Tamb. up to **40**°C							
		INTERNAL TEMP.60°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)	INTERNAL TEMP.127°C (T4/T135°C)
AQ-080806P-HT	EFE-080806-HT	3,5	5,2	7,0	7,8	9,6	10,4	11,3	15,2
AQ-080808P-HT	EFE-080808-HT	4,6	6,8	9,1	10,2	12,5	13,7	14,8	19,8
AR-081106P-HT	EFE-081106-HT	4,3	6,4	8,5	9,6	11,8	12,8	13,9	18,6
AR-081108P-HT	EFE-081108-HT	5,6	8,4	11,2	12,6	15,3	16,7	18,1	24,2
AR-081606P-HT	EFE-081606-HT	5,8	8,7	11,6	13,0	15,9	17,4	18,8	25.2
AR-081608P-HT	EFE-081608-HT	6,8	10,2	13,7	15,4	18,8	20,5	22,2	29,7
AR-081906P-HT	EFE-081906-HT	6,4	9,6	12,8	14,4	17,6	19,2	20,8	27,8
AR-081908P-HT	EFE-081908-HT	7,5	11,3	15,1	17,0	20,7	22,6	24,5	32,7
AR-082306P-HT	EFE-082306-HT	7,2	10,8	14,4	16,2	19,8	21,6	23,4	31,3
AR-082308P-HT	EFE-082308-HT	8,5	12,7	16,9	19,0	23,3	25,4	27,5	36,7
AQ-121209P-HT	EFE-121209-HT	8,0	12,0	15,9	17,9	21,9	23,9	25,9	34,7
AR-122209P-HT	EFE-122209-HT	10,8	16,2	21,6	24,3	29,7	32,4	35,1	47,0
AQ-161609P-HT	EFE-161609-HT	10,4	15,6	20,8	23,4	28,6	31,2	33,8	45,2
AR-162609P-HT	EFE-162609-HT	13,4	20,1	26,8	30,2	36,9	40,2	43,6	58,3
AR-163609P-HT	EFE-163609-HT	16,2	24,3	32,4	36,5	44,6	48,6	52,7	70,5
AR-165609P-HT	EFE-165609-HT	21,4	32,0	42,7	48,1	58,7	64,1	69,4	92,9
AQ-202017P-HT	EFE-202017-HT	18,0	26,9	35,9	40,4	49,4	53,9	58,4	78,1
AR-203017P-HT	EFE-203017-HT	20,9	31,3	41,7	47,0	57,4	62,6	67,8	90,8
AQ-252612P-HT	EFE-252612-HT	18,8	28,2	37,6	42,4	51,8	56,5	61,2	81,9
AQ-252616P-HT	EFE-252616-HT	20,8	31,1	41,5	46,7	57,1	62,3	67,5	90,3
AR-254012P-HT	EFE-254012-HT	22,8	34,2	45,7	51,4	62,8	68,5	74,2	99,3
AR-254016P-HT	EFE-254016-HT	26,2	39,3	52,4	58,9	72,0	78,6	85,1	113,9
AR-256012P-HT	EFE-256012-HT	29,0	43,6	58,1	65,3	79,9	87,1	94,4	126,3
AR-304020P-HT	EFE-304020-HT	32,3	48,5	64,7	72,7	88,9	97,0	105,1	140,7
AQ-363609P-HT	EFE-363609-HT	23,0	34,6	46,1	51,8	63,4	69,1	74,9	100,2
AR-406025P-HT	EFE-406025-HT	50,3	75,5	100,7	113,3	138,4	151,0	163,6	218,9
AQ-414012P-HT	EFE-414012-HT	29,1	43,7	58,2	65,5	80,1	87,3	94,6	126,6
AQ-414020P-HT	EFE-414020-HT	36,6	55,0	73,3	82,4	100,8	109,9	119,1	159,4

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Enclosure types (polyester)		Maximum power dissipation (W) – Tamb. up to **50**°C							
		INTERNAL TEMP.60°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)	INTERNAL TEMP.127°C (T4/T135°C)
AQ-080806P-HT	EFE-080806-HT	1,7	3,5	5,2	6,1	7,8	8,7	9,6	13,4
AQ-080808P-HT	EFE-080808-HT	2,3	4,6	6,8	8,0	10,2	11,4	12,5	17,5
AR-081106P-HT	EFE-081106-HT	2,1	4,3	6,4	7,5	9,6	10,7	11,8	16,5
AR-081108P-HT	EFE-081108-HT	2,8	5,6	8,4	9,8	12,6	13,9	15,3	21.5
AR-081606P-HT	EFE-081606-HT	2,9	5,8	8,7	10,1	13,0	14,5	15,9	22,3
AR-081608P-HT	EFE-081608-HT	3,4	6,8	10,2	11,9	15,4	17,1	18,8	26,3
AR-081906P-HT	EFE-081906-HT	3,2	6,4	9,6	11,2	14,4	16,0	17,6	24,6
AR-081908P-HT	EFE-081908-HT	3,8	7,5	11,3	13,2	17,0	18,8	20,7	29,0
AR-082306P-HT	EFE-082306-HT	3,6	7,2	10,8	12,6	16,2	18,0	19,8	27,7
AR-082308P-HT	EFE-082308-HT	4,2	8,5	12,7	14,8	19,0	21,1	23,3	32,5
AQ-121209P-HT	EFE-121209-HT	4,0	8,0	12,0	14,0	17,9	19,9	21,9	30,7
AR-122209P-HT	EFE-122209-HT	5,4	10,8	16,2	18,9	24,3	27,0	29,7	41,6
AQ-161609P-HT	EFE-161609-HT	5,2	10,4	15,6	18,2	23,4	26,0	28,6	40,0
AR-162609P-HT	EFE-162609-HT	6,7	13,4	20,1	23,5	30,2	33,5	36,9	51,6
AR-163609P-HT	EFE-163609-HT	8,1	16,2	24,3	28,4	36,5	40,5	44,6	62,3
AR-165609P-HT	EFE-165609-HT	10,7	21,4	32,0	37,4	48,1	53,4	58,7	82,2
AQ-202017P-HT	EFE-202017-HT	9,0	18,0	26,9	31,4	40,4	44,9	49,4	69,1
AR-203017P-HT	EFE-203017-HT	10,4	20,9	31,3	36,5	47,0	52,2	57,4	80,4
AQ-252612P-HT	EFE-252612-HT	9,4	18,8	28,2	32,9	42,4	47,1	51,8	72,5
AQ-252616P-HT	EFE-252616-HT	10,4	20,8	31,1	36,3	46,7	51,9	57,1	79,9
AR-254012P-HT	EFE-254012-HT	11,4	22,8	34,2	39,9	51,4	57,1	62,8	87,9
AR-254016P-HT	EFE-254016-HT	13,1	26,2	39,3	45,8	58,9	65,5	72,0	100,8
AR-256012P-HT	EFE-256012-HT	14,5	29,0	43,6	50,8	65,3	72,6	79,9	111,8
AR-304020P-HT	EFE-304020-HT	16,2	32,3	48,5	56,6	72,7	80,8	88,9	124,4
AQ-363609P-HT	EFE-363609-HT	11,5	23,0	34,6	40,3	51,8	57,6	63,4	88,7
AR-406025P-HT	EFE-406025-HT	25,2	50,3	75,5	88,1	113,3	125,8	138,4	193,8
AQ-414012P-HT	EFE-414012-HT	14,6	29,1	43,7	51,0	65,5	72,8	80,1	112,1
AQ-414020P-HT	EFE-414020-HT	18,3	36,6	55,0	64,1	82,4	91,6	100,8	141,1

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Enclosure types (polyester)		Maximum power dissipation (W) – Tamb. up to **55**°C							
		INTERNAL TEMP.65°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)	INTERNAL TEMP.127°C (T4/T135°C)
AQ-080806P-HT	EFE-080806-HT	1,7	2,6	4,4	5,2	7,0	7,8	8,7	12,5
AQ-080808P-HT	EFE-080808-HT	2,3	3,4	5,7	6,8	9,1	10,2	11,4	16,2
AR-081106P-HT	EFE-081106-HT	2,1	3,2	5,3	6,4	8,5	9,6	10,7	15,2
AR-081108P-HT	EFE-081108-HT	2,8	4,2	7,0	8,4	11,2	12,6	13,9	19,8
AR-081606P-HT	EFE-081606-HT	2,9	4,3	7,2	8,7	11,6	13,0	14,5	20,6
AR-081608P-HT	EFE-081608-HT	3,4	5,1	8,5	10,2	13,7	15,4	17,1	24,3
AR-081906P-HT	EFE-081906-HT	3,2	4,8	8,0	9,6	12,8	14,4	16,0	22,8
AR-081908P-HT	EFE-081908-HT	3,8	5,7	9,4	11,3	15,1	17,0	18,8	26,8
AR-082306P-HT	EFE-082306-HT	3,6	5,4	9,0	10,8	14,4	16,2	18,0	25,6
AR-082308P-HT	EFE-082308-HT	4,2	6,3	10,6	12,7	16,9	19,0	21,1	30,0
AQ-121209P-HT	EFE-121209-HT	4,0	6,0	10,0	12,0	15,9	17,9	19,9	28,3
AR-122209P-HT	EFE-122209-HT	5,4	8,1	13,5	16,2	21,6	24,3	27,0	38,3
AQ-161609P-HT	EFE-161609-HT	5,2	7,8	13,0	15,6	20,8	23,4	26,0	36,9
AR-162609P-HT	EFE-162609-HT	6,7	10,1	16,8	20,1	26,8	30,2	33,5	47,6
AR-163609P-HT	EFE-163609-HT	8,1	12,2	20,3	24,3	32,4	36,5	40,5	57,5
AR-165609P-HT	EFE-165609-HT	10,7	16,0	26,7	32,0	42,7	48,1	53,4	75,8
AQ-202017P-HT	EFE-202017-HT	9,0	13,5	22,4	26,9	35,9	40,4	44,9	63,7
AR-203017P-HT	EFE-203017-HT	10,4	15,7	26,1	31,3	41,7	47,0	52,2	74,0
AQ-252612P-HT	EFE-252612-HT	9,4	14,1	23,5	28,2	37,6	42,4	47,1	66,8
AQ-252616P-HT	EFE-252616-HT	10,4	15,6	26,0	31,1	41,5	46,7	51,9	73,7
AR-254012P-HT	EFE-254012-HT	11,4	17,1	28,5	34,2	45,7	51,4	57,1	81,0
AR-254016P-HT	EFE-254016-HT	13,1	19,6	32,7	39,3	52,4	58,9	65,5	92,9
AR-256012P-HT	EFE-256012-HT	14,5	21,8	36,3	43,6	58,1	65,3	72,6	103,0
AR-304020P-HT	EFE-304020-HT	16,2	24,2	40,4	48,5	64,7	72,7	80,8	114,7
AQ-363609P-HT	EFE-363609-HT	11,5	17,3	28,8	34,6	46,1	51,8	57,6	81,8
AR-406025P-HT	EFE-406025-HT	25,2	37,8	62,9	75,5	100,7	113,3	125,8	178,6
AQ-414012P-HT	EFE-414012-HT	14,6	21,8	36,4	43,7	58,2	65,5	72,8	103,0
AQ-414020P-HT	EFE-414020-HT	18,3	27,5	45,8	55,0	73,3	82,4	91,6	130,0

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Enclosure types (polyester)		Maximum power dissipation (W) – Tamb. up to **60**°C						
		INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)	INTERNAL TEMP.127°C (T4/T135°C)
AQ-080806P-HT	EFE-080806-HT	1,7	3,5	4,4	6,1	7,0	7,8	11,7
AQ-080808P-HT	EFE-080808-HT	2,3	4,6	5,7	8,0	9,1	10,2	15,2
AR-081106P-HT	EFE-081106-HT	2,1	4,3	5,3	7,5	8,5	9,6	14,3
AR-081108P-HT	EFE-081108-HT	2,8	5,6	7,0	9,8	11,2	12,6	18,7
AR-081606P-HT	EFE-081606-HT	2,9	5,8	7,2	10,1	11,6	13,0	19,4
AR-081608P-HT	EFE-081608-HT	3,4	6,8	8,5	11,9	13,7	15,4	22,9
AR-081906P-HT	EFE-081906-HT	3,2	6,4	8,0	11,2	12,8	14,4	21,4
AR-081908P-HT	EFE-081908-HT	3,8	7,5	9,4	13,2	15,1	17,0	25,3
AR-082306P-HT	EFE-082306-HT	3,6	7,2	9,0	12,6	14,4	16,2	24,1
AR-082308P-HT	EFE-082308-HT	4,2	8,5	10,6	14,8	16,9	19,0	28,3
AQ-121209P-HT	EFE-121209-HT	4,0	8,0	10,0	14,0	15,9	17,9	26,7
AR-122209P-HT	EFE-122209-HT	5,4	10,8	13,5	18,9	21,6	24,3	36,2
AQ-161609P-HT	EFE-161609-HT	5,2	10,4	13,0	18,2	20,8	23,4	34,8
AR-162609P-HT	EFE-162609-HT	6,7	13,4	16,8	23,5	26,8	30,2	44,9
AR-163609P-HT	EFE-163609-HT	8,1	16,2	20,3	28,4	32,4	36,5	54,2
AR-165609P-HT	EFE-165609-HT	10,7	21,4	26,7	37,4	42,7	48,1	71,5
AQ-202017P-HT	EFE-202017-HT	9,0	18,0	22,4	31,4	35,9	40,4	60,1
AR-203017P-HT	EFE-203017-HT	10,4	20,9	26,1	36,5	41,7	47,0	69,9
AQ-252612P-HT	EFE-252612-HT	9,4	18,8	23,5	32,9	37,6	42,4	63,0
AQ-252616P-HT	EFE-252616-HT	10,4	20,8	26,0	36,3	41,5	46,7	69,5
AR-254012P-HT	EFE-254012-HT	11,4	22,8	28,5	39,9	45,7	51,4	76,5
AR-254016P-HT	EFE-254016-HT	13,1	26,2	32,7	45,8	52,4	58,9	87,7
AR-256012P-HT	EFE-256012-HT	14,5	29,0	36,3	50,8	58,1	65,3	97,2
AR-304020P-HT	EFE-304020-HT	16,2	32,3	40,4	56,6	64,7	72,7	108,3
AQ-363609P-HT	EFE-363609-HT	11,5	23,0	28,8	40,3	46,1	51,8	77,1
AR-406025P-HT	EFE-406025-HT	25,2	50,3	62,9	88,1	100,7	113,3	168,7
AQ-414012P-HT	EFE-414012-HT	14,6	29,1	36,4	51,0	58,2	65,5	97,5
AQ-414020P-HT	EFE-414020-HT	18,3	36,6	45,8	64,1	73,3	82,4	122,7

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Enclosure types (polyester)		Maximum power dissipation (W) Tamb. up to **95**°C		
		INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)	INTERNAL TEMP.127°C (T4/T135°C)
AQ-080806P-HT	EFE-080806-HT	0,9	1,7	5,6
AQ-080808P-HT	EFE-080808-HT	1,1	2,3	7,3
AR-081106P-HT	EFE-081106-HT	1,1	2,1	6,5
AR-081108P-HT	EFE-081108-HT	1,4	2,8	9,0
AR-081606P-HT	EFE-081606-HT	1,4	2,9	9,2
AR-081608P-HT	EFE-081608-HT	1,7	3,4	10,9
AR-081906P-HT	EFE-081906-HT	1,6	3,2	10,2
AR-081908P-HT	EFE-081908-HT	1,9	3,8	12,1
AR-082306P-HT	EFE-082306-HT	1,8	3,6	11,5
AR-082308P-HT	EFE-082308-HT	2,1	4,2	13,5
AQ-121209P-HT	EFE-121209-HT	2,0	4,0	12,8
AR-122209P-HT	EFE-122209-HT	2,7	5,4	17,3
AQ-161609P-HT	EFE-161609-HT	2,6	5,2	16,6
AR-162609P-HT	EFE-162609-HT	3,4	6,7	21,5
AR-163609P-HT	EFE-163609-HT	4,1	8,1	26,0
AR-165609P-HT	EFE-165609-HT	5,3	10,7	34,2
AQ-202017P-HT	EFE-202017-HT	4,5	9,0	28,7
AR-203017P-HT	EFE-203017-HT	5,2	10,4	33,4
AQ-252612P-HT	EFE-252612-HT	4,7	9,4	30,1
AQ-252616P-HT	EFE-252616-HT	5,2	10,4	33,2
AR-254012P-HT	EFE-254012-HT	5,7	11,4	36,5
AR-254016P-HT	EFE-254016-HT	6,5	13,1	41,9
AR-256012P-HT	EFE-256012-HT	7,3	14,5	46,4
AR-304020P-HT	EFE-304020-HT	8,1	16,2	51,8
AQ-363609P-HT	EFE-363609-HT	5,8	11,5	36,8
AR-406025P-HT	EFE-406025-HT	12,6	25,2	80,6
AQ-414012P-HT	EFE-414012-HT	7,3	14,6	46,6
AQ-414020P-HT	EFE-414020-HT	9,2	18,3	58,6

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Power dissipation – HT aluminum alloy enclosures

Enclosure types (aluminium)		Maximum power dissipation (W) – Tamb. up to **40**°C							
		INTERNAL TEMP.60°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)	INTERNAL TEMP.130°C (T4/T135°C)
AQ-080806AL-HT	EFXE-080806AL-HT	5,2	7,8	10,4	11,7	14,3	15,6	16,9	23,4
AR-081306AL-HT	EFXE-081306AL-HT	7,0	10,6	14,1	15,9	19,4	21,2	23,0	31,8
AR-081806AL-HT	EFXE-081806AL-HT	8,9	13,3	17,8	20,0	24,5	26,7	28,9	40,0
AR-082505AL-HT	EFXE-082505AL-HT	10,9	16,4	21,9	24,7	30,1	32,9	35,6	49,4
AQ-101008AL-HT	EFXE-101008AL-HT	8,7	13,0	17,4	19,6	23,9	26,1	28,3	39,2
AR-101608AL-HT	EFXE-101608AL-HT	11,5	17,3	23,1	26,0	31,8	34,7	37,6	52,0
AR-102008AL-HT	EFXE-102008AL-HT	13,4	20,1	26,8	30,2	36,9	40,3	43,6	60,4
AQ-121208AL-HT	EFXE-121208AL-HT	10,8	16,2	21,6	24,3	29,7	32,4	35,1	48,6
AQ-121209AL-HT	EFXE-121209AL-HT	11,6	17,5	23,3	26,2	32,1	35,0	37,9	52,5
AR-122208AL-HT	EFXE-122208AL-HT	15,6	23,5	31,3	35,3	43,1	47,0	50,9	70,6
AR-122209AL-HT	EFXE-122209AL-HT	16,8	25,3	33,7	37,9	46,3	50,6	54,8	75,9
AR-123608AL-HT	EFXE-123608AL-HT	22,3	33,5	44,7	50,3	61,5	67,1	72,7	100,7
AQ-141409AL-HT	EFXE-141409AL-HT	13,7	20,6	27,5	31,0	37,9	41,3	44,8	62,0
AR-142009AL-HT	EFXE-142009AL-HT	17,1	25,7	34,2	38,5	47,1	51,4	55,7	77,1
AQ-161609AL-HT	EFXE-161609AL-HT	16,1	24,1	32,2	36,2	44,2	48,3	52,3	72,4
AR-162609AL-HT	EFXE-162609AL-HT	21,9	32,8	43,8	49,3	60,2	65,7	71,2	98,6
AR-163609AL-HT	EFXE-163609AL-HT	27,5	41,3	55,1	62,0	75,7	82,6	89,5	124,0
AR-165609AL-HT	EFXE-165609AL-HT	38,4	57,7	76,9	86,6	105,8	115,4	125,0	173,2
AQ-181810AL-HT	EFXE-181810AL-HT	19,7	29,6	39,5	44,4	54,3	59,2	64,2	88,8
AR-182810AL-HT	EFXE-182810AL-HT	26,1	39,1	52,2	58,7	71,8	78,3	84,8	117,5
AR-102311AL-HT	EFXE-102311AL-HT	18,2	27,3	36,5	41,0	50,1	54,7	59,3	82,1
AR-202311AL-HT	EFXE-202311AL-HT	26,1	39,1	52,2	58,7	71,7	78,3	84,8	117,4
AR-202318AL-HT	EFXE-202318AL-HT	35,9	53,9	71,8	80,8	98,8	107,8	116,8	161,7
AR-232811AL-HT	EFXE-232811AL-HT	31,6	47,5	63,3	71,3	87,1	95,0	103,0	142,6
AR-233311AL-HT	EFXE-233311AL-HT	35,3	52,9	70,6	79,4	97,0	105,9	114,7	158,8
AR-233318AL-HT	EFXE-233318AL-HT	47,5	71,3	95,1	107,0	130,8	142,7	154,6	214,1
AR-234011AL-HT	EFXE-234011AL-HT	40,2	60,4	80,5	90,6	110,7	120,8	130,9	181,2
AR-234023AL-HT	EFXE-234023AL-HT	62,2	93,3	124,5	140,0	171,2	186,7	202,3	280,1
AR-236011AL-HT	EFXE-236011AL-HT	54,1	81,2	108,3	121,9	148,9	162,5	176,0	243,8
AR-314011AL-HT	EFXE-314011AL-HT	48,6	72,9	97,2	109,3	133,6	145,8	157,9	218,7
AR-314014AL-HT	EFXE-314014AL-HT	54,9	82,4	109,9	123,7	151,2	164,9	178,7	247,4
AR-314018AL-HT	EFXE-314018AL-HT	63,8	95,7	127,6	143,5	175,4	191,4	207,3	287,1
AR-314023AL-HT	EFXE-314023AL-HT	73,5	110,3	147,1	165,5	202,3	220,7	239,1	331,0
AR-316011AL-HT	EFXE-316011AL-HT	64,0	96,0	128,1	144,1	176,1	192,1	208,1	288,2
AR-316018AL-HT	EFXE-316018AL-HT	82,7	124,1	165,5	186,2	227,6	248,3	268,9	372,4
AQ-606020AL-HT	EFXE-606020AL-HT	129,1	193,7	258,3	290,5	355,1	387,4	419,7	581,1

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Enclosure types (aluminium)		Maximum power dissipation (W) – Tamb. up to **50**°C							
		INTERNAL TEMP.60°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)	INTERNAL TEMP.130°C (T4/T135°C)
AQ-080806AL-HT	EFXE-080806AL-HT	2,6	5,2	7,8	9,1	11,7	13,0	14,3	20,8
AR-081306AL-HT	EFXE-081306AL-HT	3,5	7,0	10,6	12,3	15,9	17,7	19,4	28,3
AR-081806AL-HT	EFXE-081806AL-HT	4,4	8,9	13,3	15,5	20,0	22,2	24,5	35,6
AR-082505AL-HT	EFXE-082505AL-HT	5,4	10,9	16,4	19,2	24,7	27,4	30,1	43,9
AQ-101008AL-HT	EFXE-101008AL-HT	4,3	8,7	13,0	15,2	19,6	21,7	23,9	34,8
AR-101608AL-HT	EFXE-101608AL-HT	5,7	11,5	17,3	20,2	26,0	28,9	31,8	46,2
AR-102008AL-HT	EFXE-102008AL-HT	6,7	13,4	20,1	23,5	30,2	33,5	36,9	53,7
AQ-121208AL-HT	EFXE-121208AL-HT	5,4	10,8	16,2	18,9	24,3	27,0	29,7	43,2
AQ-121209AL-HT	EFXE-121209AL-HT	5,8	11,6	17,5	20,4	26,2	29,2	32,1	46,7
AR-122208AL-HT	EFXE-122208AL-HT	7,8	15,6	23,5	27,4	35,3	39,2	43,1	62,7
AR-122209AL-HT	EFXE-122209AL-HT	8,4	16,8	25,3	29,5	37,9	42,1	46,3	67,4
AR-123608AL-HT	EFXE-123608AL-HT	11,1	22,3	33,5	39,1	50,3	55,9	61,5	89,5
AQ-141409AL-HT	EFXE-141409AL-HT	6,8	13,7	20,6	24,1	31,0	34,4	37,9	55,1
AR-142009AL-HT	EFXE-142009AL-HT	8,5	17,1	25,7	30,0	38,5	42,8	47,1	68,5
AQ-161609AL-HT	EFXE-161609AL-HT	8,0	16,1	24,1	28,1	36,2	40,2	44,2	64,4
AR-162609AL-HT	EFXE-162609AL-HT	10,9	21,9	32,8	38,3	49,3	54,8	60,2	87,6
AR-163609AL-HT	EFXE-163609AL-HT	13,7	27,5	41,3	48,2	62,0	68,9	75,7	110,2
AR-165609AL-HT	EFXE-165609AL-HT	19,2	38,4	57,7	67,3	86,6	96,2	105,8	153,9
AQ-181810AL-HT	EFXE-181810AL-HT	9,8	19,7	29,6	34,5	44,4	49,3	54,3	79,0
AR-182810AL-HT	EFXE-182810AL-HT	13,0	26,1	39,1	45,7	58,7	65,2	71,8	104,4
AR-102311AL-HT	EFXE-102311AL-HT	9,1	18,2	27,3	31,9	41,0	45,6	50,1	73,0
AR-202311AL-HT	EFXE-202311AL-HT	13,0	26,1	39,1	45,6	58,7	65,2	71,7	104,4
AR-202318AL-HT	EFXE-202318AL-HT	17,9	35,9	53,9	62,8	80,8	89,8	98,8	143,7
AR-232811AL-HT	EFXE-232811AL-HT	15,8	31,6	47,5	55,4	71,3	79,2	87,1	126,7
AR-233311AL-HT	EFXE-233311AL-HT	17,6	35,3	52,9	61,7	79,4	88,2	97,0	141,2
AR-233318AL-HT	EFXE-233318AL-HT	23,7	47,5	71,3	83,2	107,0	118,9	130,8	190,3
AR-234011AL-HT	EFXE-234011AL-HT	20,1	40,2	60,4	70,5	90,6	100,7	110,7	161,1
AR-234023AL-HT	EFXE-234023AL-HT	31,1	62,2	93,3	108,9	140,0	155,6	171,2	249,0
AR-236011AL-HT	EFXE-236011AL-HT	27,0	54,1	81,2	94,8	121,9	135,4	148,9	216,7
AR-314011AL-HT	EFXE-314011AL-HT	24,3	48,6	72,9	85,0	109,3	121,5	133,6	194,4
AR-314014AL-HT	EFXE-314014AL-HT	27,4	54,9	82,4	96,2	123,7	137,4	151,2	219,9
AR-314018AL-HT	EFXE-314018AL-HT	31,9	63,8	95,7	111,6	143,5	159,5	175,4	255,2
AR-314023AL-HT	EFXE-314023AL-HT	36,7	73,5	110,3	128,7	165,5	183,9	202,3	294,2
AR-316011AL-HT	EFXE-316011AL-HT	32,0	64,0	96,0	112,0	144,1	160,1	176,1	256,2
AR-316018AL-HT	EFXE-316018AL-HT	41,3	82,7	124,1	144,8	186,2	206,9	227,6	331,0
AQ-606020AL-HT	EFXE-606020AL-HT	64,5	129,1	193,7	226,0	290,5	322,8	355,1	516,6

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Enclosure types (aluminium)		Maximum power dissipation (W) – Tamb. up to **55**°C							
		INTERNAL TEMP.65°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)	INTERNAL TEMP.130°C (T4/T135°C)
AQ-080806AL-HT	EFXE-080806AL-HT	2,6	3,9	6,5	7,8	10,4	11,7	13,0	19,5
AR-081306AL-HT	EFXE-081306AL-HT	3,5	5,3	8,8	10,6	14,1	15,9	17,7	26,5
AR-081806AL-HT	EFXE-081806AL-HT	4,4	6,6	11,1	13,3	17,8	20,0	22,2	33,4
AR-082505AL-HT	EFXE-082505AL-HT	5,4	8,2	13,7	16,4	21,9	24,7	27,4	41,1
AQ-101008AL-HT	EFXE-101008AL-HT	4,3	6,5	10,8	13,0	17,4	19,6	21,7	32,6
AR-101608AL-HT	EFXE-101608AL-HT	5,7	8,6	14,4	17,3	23,1	26,0	28,9	43,3
AR-102008AL-HT	EFXE-102008AL-HT	6,7	10,0	16,7	20,1	26,8	30,2	33,5	50,3
AQ-121208AL-HT	EFXE-121208AL-HT	5,4	8,1	13,5	16,2	21,6	24,3	27,0	40,5
AQ-121209AL-HT	EFXE-121209AL-HT	5,8	8,7	14,6	17,5	23,3	26,2	29,2	43,8
AR-122208AL-HT	EFXE-122208AL-HT	7,8	11,7	19,6	23,5	31,3	35,3	39,2	58,8
AR-122209AL-HT	EFXE-122209AL-HT	8,4	12,6	21,0	25,3	33,7	37,9	42,1	63,2
AR-123608AL-HT	EFXE-123608AL-HT	11,1	16,7	27,9	33,5	44,7	50,3	55,9	83,9
AQ-141409AL-HT	EFXE-141409AL-HT	6,8	10,3	17,2	20,6	27,5	31,0	34,4	51,7
AR-142009AL-HT	EFXE-142009AL-HT	8,5	12,8	21,4	25,7	34,2	38,5	42,8	64,3
AQ-161609AL-HT	EFXE-161609AL-HT	8,0	12,0	20,1	24,1	32,2	36,2	40,2	60,4
AR-162609AL-HT	EFXE-162609AL-HT	10,9	16,4	27,4	32,8	43,8	49,3	54,8	82,2
AR-163609AL-HT	EFXE-163609AL-HT	13,7	20,6	34,4	41,3	55,1	62,0	68,9	103,3
AR-165609AL-HT	EFXE-165609AL-HT	19,2	28,8	48,1	57,7	76,9	86,6	96,2	144,3
AQ-181810AL-HT	EFXE-181810AL-HT	9,8	14,8	24,6	29,6	39,5	44,4	49,3	74,0
AR-182810AL-HT	EFXE-182810AL-HT	13,0	19,5	32,6	39,1	52,2	58,7	65,2	97,9
AR-102311AL-HT	EFXE-102311AL-HT	9,1	13,6	22,8	27,3	36,5	41,0	45,6	68,4
AR-202311AL-HT	EFXE-202311AL-HT	13,0	19,5	32,6	39,1	52,2	58,7	65,2	97,9
AR-202318AL-HT	EFXE-202318AL-HT	17,9	26,9	44,9	53,9	71,8	80,8	89,8	134,7
AR-232811AL-HT	EFXE-232811AL-HT	15,8	23,7	39,6	47,5	63,3	71,3	79,2	118,8
AR-233311AL-HT	EFXE-233311AL-HT	17,6	26,4	44,1	52,9	70,6	79,4	88,2	132,3
AR-233318AL-HT	EFXE-233318AL-HT	23,7	35,6	59,4	71,3	95,1	107,0	118,9	178,4
AR-234011AL-HT	EFXE-234011AL-HT	20,1	30,2	50,3	60,4	80,5	90,6	100,7	151,0
AR-234023AL-HT	EFXE-234023AL-HT	31,1	46,6	77,8	93,3	124,5	140,0	155,6	233,4
AR-236011AL-HT	EFXE-236011AL-HT	27,0	40,6	67,7	81,2	108,3	121,9	135,4	203,1
AR-314011AL-HT	EFXE-314011AL-HT	24,3	36,4	60,7	72,9	97,2	109,3	121,5	182,3
AR-314014AL-HT	EFXE-314014AL-HT	27,4	41,2	68,7	82,4	109,9	123,7	137,4	206,2
AR-314018AL-HT	EFXE-314018AL-HT	31,9	47,8	79,7	95,7	127,6	143,5	159,5	239,2
AR-314023AL-HT	EFXE-314023AL-HT	36,7	55,1	91,9	110,3	147,1	165,5	183,9	275,8
AR-316011AL-HT	EFXE-316011AL-HT	32,0	48,0	80,0	96,0	128,1	144,1	160,1	240,1
AR-316018AL-HT	EFXE-316018AL-HT	41,3	62,0	103,4	124,1	165,5	186,2	206,9	310,3
AQ-606020AL-HT	EFXE-606020AL-HT	64,5	96,8	161,4	193,7	258,3	290,5	322,8	484,3

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Enclosure types (aluminium)		Maximum power dissipation (W) – Tamb. up to **60**°C						
		INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)	INTERNAL TEMP.130°C (T4/T135°C)
AQ-080806AL-HT	EFXE-080806AL-HT	2,6	5,2	6,5	9,1	10,4	11,7	18,2
AR-081306AL-HT	EFXE-081306AL-HT	3,5	7,0	8,8	12,3	14,1	15,9	24,7
AR-081806AL-HT	EFXE-081806AL-HT	4,4	8,9	11,1	15,5	17,8	20,0	31,1
AR-082505AL-HT	EFXE-082505AL-HT	5,4	10,9	13,7	19,2	21,9	24,7	38,4
AQ-101008AL-HT	EFXE-101008AL-HT	4,3	8,7	10,8	15,2	17,4	19,6	30,4
AR-101608AL-HT	EFXE-101608AL-HT	5,7	11,5	14,4	20,2	23,1	26,0	40,5
AR-102008AL-HT	EFXE-102008AL-HT	6,7	13,4	16,7	23,5	26,8	30,2	47,0
AQ-121208AL-HT	EFXE-121208AL-HT	5,4	10,8	13,5	18,9	21,6	24,3	37,8
AQ-121209AL-HT	EFXE-121209AL-HT	5,8	11,6	14,6	20,4	23,3	26,2	40,8
AR-122208AL-HT	EFXE-122208AL-HT	7,8	15,6	19,6	27,4	31,3	35,3	54,9
AR-122209AL-HT	EFXE-122209AL-HT	8,4	16,8	21,0	29,5	33,7	37,9	59,0
AR-123608AL-HT	EFXE-123608AL-HT	11,1	22,3	27,9	39,1	44,7	50,3	78,3
AQ-141409AL-HT	EFXE-141409AL-HT	6,8	13,7	17,2	24,1	27,5	31,0	48,2
AR-142009AL-HT	EFXE-142009AL-HT	8,5	17,1	21,4	30,0	34,2	38,5	60,0
AQ-161609AL-HT	EFXE-161609AL-HT	8,0	16,1	20,1	28,1	32,2	36,2	56,3
AR-162609AL-HT	EFXE-162609AL-HT	10,9	21,9	27,4	38,3	43,8	49,3	76,7
AR-163609AL-HT	EFXE-163609AL-HT	13,7	27,5	34,4	48,2	55,1	62,0	96,4
AR-165609AL-HT	EFXE-165609AL-HT	19,2	38,4	48,1	67,3	76,9	86,6	134,7
AQ-181810AL-HT	EFXE-181810AL-HT	9,8	19,7	24,6	34,5	39,5	44,4	69,1
AR-182810AL-HT	EFXE-182810AL-HT	13,0	26,1	32,6	45,7	52,2	58,7	91,4
AR-102311AL-HT	EFXE-102311AL-HT	9,1	18,2	22,8	31,9	36,5	41,0	63,8
AR-202311AL-HT	EFXE-202311AL-HT	13,0	26,1	32,6	45,6	52,2	58,7	91,3
AR-202318AL-HT	EFXE-202318AL-HT	17,9	35,9	44,9	62,8	71,8	80,8	125,7
AR-232811AL-HT	EFXE-232811AL-HT	15,8	31,6	39,6	55,4	63,3	71,3	110,9
AR-233311AL-HT	EFXE-233311AL-HT	17,6	35,3	44,1	61,7	70,6	79,4	123,5
AR-233318AL-HT	EFXE-233318AL-HT	23,7	47,5	59,4	83,2	95,1	107,0	166,5
AR-234011AL-HT	EFXE-234011AL-HT	20,1	40,2	50,3	70,5	80,5	90,6	141,0
AR-234023AL-HT	EFXE-234023AL-HT	31,1	62,2	77,8	108,9	124,5	140,0	217,9
AR-236011AL-HT	EFXE-236011AL-HT	27,0	54,1	67,7	94,8	108,3	121,9	189,6
AR-314011AL-HT	EFXE-314011AL-HT	24,3	48,6	60,7	85,0	97,2	109,3	170,1
AR-314014AL-HT	EFXE-314014AL-HT	27,4	54,9	68,7	96,2	109,9	123,7	192,4
AR-314018AL-HT	EFXE-314018AL-HT	31,9	63,8	79,7	111,6	127,6	143,5	223,3
AR-314023AL-HT	EFXE-314023AL-HT	36,7	73,5	91,9	128,7	147,1	165,5	257,4
AR-316011AL-HT	EFXE-316011AL-HT	32,0	64,0	80,0	112,0	128,1	144,1	224,1
AR-316018AL-HT	EFXE-316018AL-HT	41,3	82,7	103,4	144,8	165,5	186,2	289,6
AQ-606020AL-HT	EFXE-606020AL-HT	64,5	129,1	161,4	226,0	258,3	290,5	452,0

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Enclosure types (aluminium)		Maximum power dissipation (W) Tamb. up to **95**°C		
		INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)	INTERNAL TEMP.130°C (T4/T135°C)
AQ-080806AL-HT	EFXE-080806AL-HT	1,3	2,6	9,1
AR-081306AL-HT	EFXE-081306AL-HT	1,7	3,5	12,3
AR-081806AL-HT	EFXE-081806AL-HT	2,2	4,4	15,5
AR-082505AL-HT	EFXE-082505AL-HT	2,7	5,4	19,2
AQ-101008AL-HT	EFXE-101008AL-HT	2,1	4,3	15,2
AR-101608AL-HT	EFXE-101608AL-HT	2,8	5,7	20,2
AR-102008AL-HT	EFXE-102008AL-HT	3,3	6,7	23,5
AQ-121208AL-HT	EFXE-121208AL-HT	2,7	5,4	18,9
AQ-121209AL-HT	EFXE-121209AL-HT	2,9	5,8	20,4
AR-122208AL-HT	EFXE-122208AL-HT	3,9	7,8	27,4
AR-122209AL-HT	EFXE-122209AL-HT	4,2	8,4	29,5
AR-123608AL-HT	EFXE-123608AL-HT	5,5	11,1	39,1
AQ-141409AL-HT	EFXE-141409AL-HT	3,4	6,8	24,1
AR-142009AL-HT	EFXE-142009AL-HT	4,2	8,5	30,0
AQ-161609AL-HT	EFXE-161609AL-HT	4,0	8,0	28,1
AR-162609AL-HT	EFXE-162609AL-HT	5,4	10,9	38,3
AR-163609AL-HT	EFXE-163609AL-HT	6,8	13,7	48,2
AR-165609AL-HT	EFXE-165609AL-HT	9,6	19,2	67,3
AQ-181810AL-HT	EFXE-181810AL-HT	4,9	9,8	34,5
AR-182810AL-HT	EFXE-182810AL-HT	6,5	13,0	45,7
AR-102311AL-HT	EFXE-102311AL-HT	4,5	9,1	31,9
AR-202311AL-HT	EFXE-202311AL-HT	6,5	13,0	45,6
AR-202318AL-HT	EFXE-202318AL-HT	8,9	17,9	62,8
AR-232811AL-HT	EFXE-232811AL-HT	7,9	15,8	55,4
AR-233311AL-HT	EFXE-233311AL-HT	8,8	17,6	61,7
AR-233318AL-HT	EFXE-233318AL-HT	11,8	23,7	83,2
AR-234011AL-HT	EFXE-234011AL-HT	10,0	20,1	70,5
AR-234023AL-HT	EFXE-234023AL-HT	15,5	31,1	108,9
AR-236011AL-HT	EFXE-236011AL-HT	13,5	27,0	94,8
AR-314011AL-HT	EFXE-314011AL-HT	12,1	24,3	85,0
AR-314014AL-HT	EFXE-314014AL-HT	13,7	27,4	96,2
AR-314018AL-HT	EFXE-314018AL-HT	15,9	31,9	111,6
AR-314023AL-HT	EFXE-314023AL-HT	18,3	36,7	128,7
AR-316011AL-HT	EFXE-316011AL-HT	16,0	32,0	112,0
AR-316018AL-HT	EFXE-316018AL-HT	20,6	41,3	144,8
AQ-606020AL-HT	EFXE-606020AL-HT	32,2	64,5	226,0

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Power dissipation – Glass fiber reinforced polyester resin enclosures

Enclosure types (polyester)		Maximum power dissipation (W) – Tamb. up to **40**°C						
		INTERNAL TEMP.60°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
AQ-080806P	EFE-080806	3,4	5,2	6,9	7,8	9,5	10,4	11,3
AQ-080808P	EFE-080808	4,5	6,8	9,1	10,2	12,5	13,6	14,7
AR-081106P	EFE-081106	4,2	6,4	8,5	9,6	11,7	12,8	13,8
AR-081606P	EFE-081606	5,7	8,6	11,5	13,0	15,9	17,3	18,8
AR-081906P	EFE-081906	6,4	9,6	12,8	14,4	17,6	19,2	20,8
AQ-121209P	EFE-121209	7,9	11,9	15,9	17,9	21,9	23,9	25,9
AR-122209P	EFE-122209	10,8	16,2	21,6	24,3	29,7	32,4	35,1
AQ-161609P	EFE-161609	10,3	15,5	20,7	23,3	28,5	31,1	33,7
AR-162609P	EFE-162609	13,4	20,1	26,8	30,1	36,8	40,2	43,5
AR-163609P	EFE-163609	16,2	24,3	32,4	36,4	44,5	48,6	52,6
AQ-252612P	EFE-252612	18,8	28,2	37,6	42,3	51,7	56,4	61,1
AQ-252616P	EFE-252616	21,7	32,6	43,5	49,0	59,9	65,3	70,8
AR-254012P	EFE-254012	23,9	35,9	47,9	53,9	65,9	71,8	77,8
AR-254016P	EFE-254016	27,4	41,2	54,9	61,8	75,6	82,4	89,3
AR-256012P	EFE-256012	29,0	43,5	58,0	65,3	79,8	87,1	94,3
AQ-414012P	EFE-414012	29,1	43,6	58,2	65,5	80,0	87,3	94,6
AQ-414016P	EFE-414016	32,9	49,4	65,9	74,1	90,6	98,8	107,0

Enclosure types (polyester)		Maximum power dissipation (W) – Tamb. up to **50**°C						
		INTERNAL TEMP.60°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
AQ-080806P	EFE-080806	1,7	3,4	5,2	6,0	7,8	8,7	9,5
AQ-080808P	EFE-080808	2,2	4,5	6,8	7,9	10,2	11,3	12,5
AR-081106P	EFE-081106	2,1	4,2	6,4	7,4	9,6	10,6	11,7
AR-081606P	EFE-081606	2,8	5,7	8,6	10,1	13,0	14,4	15,9
AR-081906P	EFE-081906	3,2	6,4	9,6	11,2	14,4	16,0	17,6
AQ-121209P	EFE-121209	3,9	7,9	11,9	13,9	17,9	19,9	21,9
AR-122209P	EFE-122209	5,4	10,8	16,2	18,9	24,3	27,0	29,7
AQ-161609P	EFE-161609	5,1	10,3	15,5	18,1	23,3	25,9	28,5
AR-162609P	EFE-162609	6,7	13,4	20,1	23,4	30,1	33,5	36,8
AR-163609P	EFE-163609	8,1	16,2	24,3	28,3	36,4	40,5	44,5
AQ-252612P	EFE-252612	9,4	18,8	28,2	32,9	42,3	47,0	51,7
AQ-252616P	EFE-252616	10,8	21,7	32,6	38,1	49,0	54,4	59,9
AR-254012P	EFE-254012	11,9	23,9	35,9	41,9	53,9	59,9	65,9
AR-254016P	EFE-254016	13,7	27,4	41,2	48,1	61,8	68,7	75,6
AR-256012P	EFE-256012	14,5	29,0	43,5	50,8	65,3	72,6	79,8
AQ-414012P	EFE-414012	14,5	29,1	43,6	50,9	65,5	72,7	80,0
AQ-414016P	EFE-414016	16,4	32,9	49,4	57,6	74,1	82,3	90,6

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Enclosure types (polyester)		Maximum power dissipation (W) – Tamb. up to **55**°C						
		INTERNAL TEMP.65°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
AQ-080806P	EFE-080806	1,7	2,6	4,3	5,2	6,9	7,8	8,7
AQ-080808P	EFE-080808	2,2	3,4	5,6	6,8	9,1	10,2	11,3
AR-081106P	EFE-081106	2,1	3,2	5,3	6,4	8,5	9,6	10,6
AR-081606P	EFE-081606	2,8	4,3	7,2	8,6	11,5	13,0	14,4
AR-081906P	EFE-081906	3,2	4,8	8,0	9,6	12,8	14,4	16,0
AQ-121209P	EFE-121209	3,9	5,9	9,9	11,9	15,9	17,9	19,9
AR-122209P	EFE-122209	5,4	8,1	13,5	16,2	21,6	24,3	27,0
AQ-161609P	EFE-161609	5,1	7,7	12,9	15,5	20,7	23,3	25,9
AR-162609P	EFE-162609	6,7	10,0	16,7	20,1	26,8	30,1	33,5
AR-163609P	EFE-163609	8,1	12,1	20,2	24,3	32,4	36,4	40,5
AQ-252612P	EFE-252612	9,4	14,1	23,5	28,2	37,6	42,3	47,0
AQ-252616P	EFE-252616	10,8	16,3	27,2	32,6	43,5	49,0	54,4
AR-254012P	EFE-254012	11,9	17,9	29,9	35,9	47,9	53,9	59,9
AR-254016P	EFE-254016	13,7	20,6	34,3	41,2	54,9	61,8	68,7
AR-256012P	EFE-256012	14,5	21,7	36,3	43,5	58,0	65,3	72,6
AQ-414012P	EFE-414012	14,5	21,8	36,3	43,6	58,2	65,5	72,7
AQ-414016P	EFE-414016	16,4	24,7	41,1	49,4	65,9	74,1	82,3

Enclosure types (polyester)		Maximum power dissipation (W) – Tamb. up to **60**°C					
		INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
AQ-080806P	EFE-080806	1,7	3,4	4,3	6,0	6,9	7,8
AQ-080808P	EFE-080808	2,2	4,5	5,6	7,9	9,1	10,2
AR-081106P	EFE-081106	2,1	4,2	5,3	7,4	8,5	9,6
AR-081606P	EFE-081606	2,8	5,7	7,2	10,1	11,5	13,0
AR-081906P	EFE-081906	3,2	6,4	8,0	11,2	12,8	14,4
AQ-121209P	EFE-121209	3,9	7,9	9,9	13,9	15,9	17,9
AR-122209P	EFE-122209	5,4	10,8	13,5	18,9	21,6	24,3
AQ-161609P	EFE-161609	5,1	10,3	12,9	18,1	20,7	23,3
AR-162609P	EFE-162609	6,7	13,4	16,7	23,4	26,8	30,1
AR-163609P	EFE-163609	8,1	16,2	20,2	28,3	32,4	36,4
AQ-252612P	EFE-252612	9,4	18,8	23,5	32,9	37,6	42,3
AQ-252616P	EFE-252616	10,8	21,7	27,2	38,1	43,5	49,0
AR-254012P	EFE-254012	11,9	23,9	29,9	41,9	47,9	53,9
AR-254016P	EFE-254016	13,7	27,4	34,3	48,1	54,9	61,8
AR-256012P	EFE-256012	14,5	29,0	36,3	50,8	58,0	65,3
AQ-414012P	EFE-414012	14,5	29,1	36,3	50,9	58,2	65,5
AQ-414016P	EFE-414016	16,4	32,9	41,1	57,6	65,9	74,1

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Enclosure types (polyester)		Maximum power dissipation (W) – Tamb. up to **95**°C	
		INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
AQ-080806P	EFE-080806	0,8	1,7
AQ-080808P	EFE-080808	1,1	2,2
AR-081106P	EFE-081106	1,0	2,1
AR-081606P	EFE-081606	1,4	2,8
AR-081906P	EFE-081906	1,6	3,2
AQ-121209P	EFE-121209	1,9	3,9
AR-122209P	EFE-122209	2,7	5,4
AQ-161609P	EFE-161609	2,5	5,1
AR-162609P	EFE-162609	3,3	6,7
AR-163609P	EFE-163609	4,0	8,1
AQ-252612P	EFE-252612	4,7	9,4
AQ-252616P	EFE-252616	5,4	10,8
AR-254012P	EFE-254012	5,9	11,9
AR-254016P	EFE-254016	6,8	13,7
AR-256012P	EFE-256012	7,2	14,5
AQ-414012P	EFE-414012	7,2	14,5
AQ-414016P	EFE-414016	8,2	16,4

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Power dissipation – Aluminum alloy enclosures

Enclosure types (aluminium)		Maximum power dissipation (W) – Tamb. up to **40**°C						
		INTERNAL TEMP.60°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
AQ-080806AL	EFXE-080806AL	5,2	7,8	10,4	11,7	14,3	15,6	16,9
AR-081306AL	EFXE-081306AL	7,0	10,6	14,1	15,9	19,4	21,2	23,0
AR-081806AL	EFXE-081806AL	8,9	13,3	17,8	20,0	24,5	26,7	28,9
AR-081808AL	EFXE-081808AL	11,0	16,5	22,1	24,8	30,4	33,1	35,9
AR-082505AL	EFXE-082505AL	10,7	16,1	21,4	24,1	29,5	32,2	34,8
AR-082508AL	EFXE-082508AL	14,2	21,4	28,5	32,1	39,2	42,8	46,4
AQ-101008AL	EFXE-101008AL	8,7	13,0	17,4	19,6	23,9	26,1	28,3
AR-101508AL	EFXE-101508AL	11,1	16,6	22,2	24,9	30,5	33,3	36,0
AR-101608AL	EFXE-101608AL	11,5	17,3	23,1	26,0	31,8	34,7	37,6
AR-102008AL	EFXE-102008AL	13,4	20,1	26,8	30,2	36,9	40,3	43,6
AQ-121208AL	EFXE-121208AL	10,8	16,2	21,6	24,3	29,7	32,4	35,1
AR-122209AL	EFXE-122209AL	16,8	25,3	33,7	37,9	46,3	50,6	54,8
AQ-141409AL	EFXE-141409AL	13,7	20,6	27,5	31,0	37,9	41,3	44,8
AR-142009AL	EFXE-142009AL	17,1	25,7	34,2	38,5	47,1	51,4	55,7
AQ-161609AL	EFXE-161609AL	17,2	25,8	34,4	38,7	47,3	51,6	55,9
AR-162410AL	EFXE-162410AL	22,1	33,1	44,2	49,7	60,8	66,3	71,8
AR-162609AL	EFXE-162609AL	21,9	32,8	43,8	49,3	60,2	65,7	71,2
AQ-181810AL	EFXE-181810AL	19,7	29,6	39,5	44,4	54,3	59,2	64,2
AR-182810AL	EFXE-182810AL	26,1	39,1	52,2	58,7	71,8	78,3	84,8
AR-202311AL	EFXE-202311AL	25,8	38,7	51,6	58,0	71,0	77,4	83,9
AR-202318AL	EFXE-202318AL	35,5	53,3	71,1	80,0	97,8	106,7	115,6
AR-232811AL	EFXE-232811AL	31,6	47,5	63,3	71,3	87,1	95,0	103,0
AR-233312AL	EFXE-233312AL	37,0	55,6	74,1	83,4	101,9	111,2	120,5
AR-233318AL	EFXE-233318AL	47,5	71,3	95,1	107,0	130,8	142,7	154,6

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Enclosure types (aluminium)		Maximum power dissipation (W) – Tamb. up to **50**°C						
		INTERNAL TEMP.60°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
AQ-080806AL	EFXE-080806AL	2,6	5,2	7,8	9,1	11,7	13,0	14,3
AR-081306AL	EFXE-081306AL	3,5	7,0	10,6	12,3	15,9	17,7	19,4
AR-081806AL	EFXE-081806AL	4,4	8,9	13,3	15,5	20,0	22,2	24,5
AR-081808AL	EFXE-081808AL	5,5	11,0	16,5	19,3	24,8	27,6	30,4
AR-082505AL	EFXE-082505AL	5,3	10,7	16,1	18,7	24,1	26,8	29,5
AR-082508AL	EFXE-082508AL	7,1	14,2	21,4	24,9	32,1	35,7	39,2
AQ-101008AL	EFXE-101008AL	4,3	8,7	13,0	15,2	19,6	21,7	23,9
AR-101508AL	EFXE-101508AL	5,5	11,1	16,6	19,4	24,9	27,7	30,5
AR-101608AL	EFXE-101608AL	5,7	11,5	17,3	20,2	26,0	28,9	31,8
AR-102008AL	EFXE-102008AL	6,7	13,4	20,1	23,5	30,2	33,5	36,9
AQ-121208AL	EFXE-121208AL	5,4	10,8	16,2	18,9	24,3	27,0	29,7
AR-122209AL	EFXE-122209AL	8,4	16,8	25,3	29,5	37,9	42,1	46,3
AQ-141409AL	EFXE-141409AL	6,8	13,7	20,6	24,1	31,0	34,4	37,9
AR-142009AL	EFXE-142009AL	8,5	17,1	25,7	30,0	38,5	42,8	47,1
AQ-161609AL	EFXE-161609AL	8,6	17,2	25,8	30,1	38,7	43,0	47,3
AR-162410AL	EFXE-162410AL	11,0	22,1	33,1	38,7	49,7	55,3	60,8
AR-162609AL	EFXE-162609AL	10,9	21,9	32,8	38,3	49,3	54,8	60,2
AQ-181810AL	EFXE-181810AL	9,8	19,7	29,6	34,5	44,4	49,3	54,3
AR-182810AL	EFXE-182810AL	13,0	26,1	39,1	45,7	58,7	65,2	71,8
AR-202311AL	EFXE-202311AL	12,9	25,8	38,7	45,1	58,0	64,5	71,0
AR-202318AL	EFXE-202318AL	17,7	35,5	53,3	62,2	80,0	88,9	97,8
AR-232811AL	EFXE-232811AL	15,8	31,6	47,5	55,4	71,3	79,2	87,1
AR-233312AL	EFXE-233312AL	18,5	37,0	55,6	64,8	83,4	92,7	101,9
AR-233318AL	EFXE-233318AL	23,7	47,5	71,3	83,2	107,0	118,9	130,8

Enclosure types (aluminium)		Maximum power dissipation (W) – Tamb. up to **55**°C						
		INTERNAL TEMP.65°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
AQ-080806AL	EFXE-080806AL	2,6	3,9	6,5	7,8	10,4	11,7	13,0
AR-081306AL	EFXE-081306AL	3,5	5,3	8,8	10,6	14,1	15,9	17,7
AR-081806AL	EFXE-081806AL	4,4	6,6	11,1	13,3	17,8	20,0	22,2
AR-081808AL	EFXE-081808AL	5,5	8,2	13,8	16,5	22,1	24,8	27,6
AR-082505AL	EFXE-082505AL	5,3	8,0	13,4	16,1	21,4	24,1	26,8
AR-082508AL	EFXE-082508AL	7,1	10,7	17,8	21,4	28,5	32,1	35,7
AQ-101008AL	EFXE-101008AL	4,3	6,5	10,8	13,0	17,4	19,6	21,7
AR-101508AL	EFXE-101508AL	5,5	8,3	13,8	16,6	22,2	24,9	27,7
AR-101608AL	EFXE-101608AL	5,7	8,6	14,4	17,3	23,1	26,0	28,9
AR-102008AL	EFXE-102008AL	6,7	10,0	16,7	20,1	26,8	30,2	33,5
AQ-121208AL	EFXE-121208AL	5,4	8,1	13,5	16,2	21,6	24,3	27,0
AR-122209AL	EFXE-122209AL	8,4	12,6	21,0	25,3	33,7	37,9	42,1
AQ-141409AL	EFXE-141409AL	6,8	10,3	17,2	20,6	27,5	31,0	34,4
AR-142009AL	EFXE-142009AL	8,5	12,8	21,4	25,7	34,2	38,5	42,8
AQ-161609AL	EFXE-161609AL	8,6	12,9	21,5	25,8	34,4	38,7	43,0
AR-162410AL	EFXE-162410AL	11,0	16,5	27,6	33,1	44,2	49,7	55,3
AR-162609AL	EFXE-162609AL	10,9	16,4	27,4	32,8	43,8	49,3	54,8
AQ-181810AL	EFXE-181810AL	9,8	14,8	24,6	29,6	39,5	44,4	49,3
AR-182810AL	EFXE-182810AL	13,0	19,5	32,6	39,1	52,2	58,7	65,2
AR-202311AL	EFXE-202311AL	12,9	19,3	32,2	38,7	51,6	58,0	64,5
AR-202318AL	EFXE-202318AL	17,7	26,6	44,4	53,3	71,1	80,0	88,9
AR-232811AL	EFXE-232811AL	15,8	23,7	39,6	47,5	63,3	71,3	79,2
AR-233312AL	EFXE-233312AL	18,5	27,8	46,3	55,6	74,1	83,4	92,7
AR-233318AL	EFXE-233318AL	23,7	35,6	59,4	71,3	95,1	107,0	118,9

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Enclosure types (aluminium)		Maximum power dissipation (W) – Tamb. up to **60**°C					
		INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
AQ-080806AL	EFXE-080806AL	2,6	5,2	6,5	9,1	10,4	11,7
AR-081306AL	EFXE-081306AL	3,5	7,0	8,8	12,3	14,1	15,9
AR-081806AL	EFXE-081806AL	4,4	8,9	11,1	15,5	17,8	20,0
AR-081808AL	EFXE-081808AL	5,5	11,0	13,8	19,3	22,1	24,8
AR-082505AL	EFXE-082505AL	5,3	10,7	13,4	18,7	21,4	24,1
AR-082508AL	EFXE-082508AL	7,1	14,2	17,8	24,9	28,5	32,1
AQ-101008AL	EFXE-101008AL	4,3	8,7	10,8	15,2	17,4	19,6
AR-101508AL	EFXE-101508AL	5,5	11,1	13,8	19,4	22,2	24,9
AR-101608AL	EFXE-101608AL	5,7	11,5	14,4	20,2	23,1	26,0
AR-102008AL	EFXE-102008AL	6,7	13,4	16,7	23,5	26,8	30,2
AQ-121208AL	EFXE-121208AL	5,4	10,8	13,5	18,9	21,6	24,3
AR-122209AL	EFXE-122209AL	8,4	16,8	21,0	29,5	33,7	37,9
AQ-141409AL	EFXE-141409AL	6,8	13,7	17,2	24,1	27,5	31,0
AR-142009AL	EFXE-142009AL	8,5	17,1	21,4	30,0	34,2	38,5
AQ-161609AL	EFXE-161609AL	8,6	17,2	21,5	30,1	34,4	38,7
AR-162410AL	EFXE-162410AL	11,0	22,1	27,6	38,7	44,2	49,7
AR-162609AL	EFXE-162609AL	10,9	21,9	27,4	38,3	43,8	49,3
AQ-181810AL	EFXE-181810AL	9,8	19,7	24,6	34,5	39,5	44,4
AR-182810AL	EFXE-182810AL	13,0	26,1	32,6	45,7	52,2	58,7
AR-202311AL	EFXE-202311AL	12,9	25,8	32,2	45,1	51,6	58,0
AR-202318AL	EFXE-202318AL	17,7	35,5	44,4	62,2	71,1	80,0
AR-232811AL	EFXE-232811AL	15,8	31,6	39,6	55,4	63,3	71,3
AR-233312AL	EFXE-233312AL	18,5	37,0	46,3	64,8	74,1	83,4
AR-233318AL	EFXE-233318AL	23,7	47,5	59,4	83,2	95,1	107,0

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Enclosure types (aluminium)		Maximum power dissipation (W) – Tamb. up to **95**°C	
		INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
AQ-080806AL	EFXE-080806AL	1,3	2,6
AR-081306AL	EFXE-081306AL	1,7	3,5
AR-081806AL	EFXE-081806AL	2,2	4,4
AR-081808AL	EFXE-081808AL	2,7	5,5
AR-082505AL	EFXE-082505AL	2,6	5,3
AR-082508AL	EFXE-082508AL	3,5	7,1
AQ-101008AL	EFXE-101008AL	2,1	4,3
AR-101508AL	EFXE-101508AL	2,7	5,5
AR-101608AL	EFXE-101608AL	2,8	5,7
AR-102008AL	EFXE-102008AL	3,3	6,7
AQ-121208AL	EFXE-121208AL	2,7	5,4
AR-122209AL	EFXE-122209AL	4,2	8,4
AQ-141409AL	EFXE-141409AL	3,4	6,8
AR-142009AL	EFXE-142009AL	4,2	8,5
AQ-161609AL	EFXE-161609AL	4,3	8,6
AR-162410AL	EFXE-162410AL	5,5	11,0
AR-162609AL	EFXE-162609AL	5,4	10,9
AQ-181810AL	EFXE-181810AL	4,9	9,8
AR-182810AL	EFXE-182810AL	6,5	13,0
AR-202311AL	EFXE-202311AL	6,4	12,9
AR-202318AL	EFXE-202318AL	8,8	17,7
AR-232811AL	EFXE-232811AL	7,9	15,8
AR-233312AL	EFXE-233312AL	9,2	18,5
AR-233318AL	EFXE-233318AL	11,8	23,7

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Power dissipation – Stainless steel enclosures SB series

Enclosure types (stainless steel)		Maximum power dissipation (W) – Tamb. up to **40**°C						
		INTERNAL TEMP.60°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
SB-101210	EFXE-101210SB	5,5	8,3	11,1	12,5	15,3	16,7	18,1
SB-151510	EFXE-151510SB	8,0	12,0	16,0	18,0	22,0	24,0	26,1
SB-142013	EFXE-142013SB	10,4	15,7	20,9	23,5	28,8	31,4	34,0
SB-202010	EFXE-202010SB	10,7	16,1	21,4	24,1	29,5	32,2	34,8
SB-202016	EFXE-202016SB	13,9	20,8	27,8	31,3	38,3	41,7	45,2
SB-202713	EFXE-202713SB	14,4	21,6	28,9	32,5	39,7	43,3	46,9
SB-272713	EFXE-272713SB	16,7	25,1	33,5	37,7	46,0	50,2	54,4
SB-203016	EFXE-203016SB	17,1	25,7	34,3	38,6	47,2	51,4	55,7
SB-273513	EFXE-273513SB	19,2	28,9	38,5	43,3	53,0	57,8	62,6
SB-282816	EFXE-282816SB	19,3	29,0	38,7	43,6	53,3	58,1	63,0
SB-204016	EFXE-204016SB	20,2	30,3	40,4	45,5	55,6	60,6	65,7
SB-353516	EFXE-353516SB	24,4	36,6	48,8	54,9	67,1	73,2	79,3
SB-282827	EFXE-282827SB	26,2	39,3	52,5	59,0	72,2	78,7	85,3
SB-355016	EFXE-355016SB	29,7	44,5	59,4	66,8	81,7	89,1	96,6
SB-383816	EFXE-383816SB	26,6	39,9	53,2	59,8	73,1	79,8	86,5
SB-384516	EFXE-384516SB	29,1	43,7	58,3	65,6	80,2	87,5	94,8
SB-385716	EFXE-385716SB	33,4	50,1	66,8	75,2	91,9	100,3	108,7
SB-505016	EFXE-505016SB	35,8	53,8	71,7	80,7	98,6	107,6	116,6
SB-383827	EFXE-383827SB	35,1	52,7	70,2	79,0	96,6	105,4	114,2
SB-575716	EFXE-575716SB	41,5	62,3	83,1	93,5	114,3	124,7	135,1
SB-577620	EFXE-577620SB	53,9	80,9	107,9	121,3	148,3	161,8	175,3
SB-575730	EFXE-575730SB	55,8	83,7	111,6	125,6	153,5	167,5	181,4
SB-769520	EFXE-769520SB	72,2	108,3	144,4	162,4	198,5	216,6	234,6
SB-1258040	EFXE-1258040SB	72,2	108,3	144,4	162,4	198,5	216,6	234,6

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Enclosure types (Stainless steel)		Maximum power dissipation (W) – Tamb. up to **50**°C						
		INTERNAL TEMP.60°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
SB-101210	EFXE-101210SB	2,7	5,5	8,3	9,7	12,5	13,9	15,3
SB-151510	EFXE-151510SB	4,0	8,0	12,0	14,0	18,0	20,0	22,0
SB-142013	EFXE-142013SB	5,2	10,4	15,7	18,3	23,5	26,2	28,8
SB-202010	EFXE-202010SB	5,3	10,7	16,1	18,7	24,1	26,8	29,5
SB-202016	EFXE-202016SB	6,9	13,9	20,8	24,3	31,3	34,8	38,3
SB-202713	EFXE-202713SB	7,2	14,4	21,6	25,2	32,5	36,1	39,7
SB-272713	EFXE-272713SB	8,3	16,7	25,1	29,3	37,7	41,8	46,0
SB-203016	EFXE-203016SB	8,5	17,1	25,7	30,0	38,6	42,9	47,2
SB-273513	EFXE-273513SB	9,6	19,2	28,9	33,7	43,3	48,2	53,0
SB-282816	EFXE-282816SB	9,6	19,3	29,0	33,9	43,6	48,4	53,3
SB-204016	EFXE-204016SB	10,1	20,2	30,3	35,4	45,5	50,5	55,6
SB-353516	EFXE-353516SB	12,2	24,4	36,6	42,7	54,9	61,0	67,1
SB-282827	EFXE-282827SB	13,1	26,2	39,3	45,9	59,0	65,6	72,2
SB-355016	EFXE-355016SB	14,8	29,7	44,5	52,0	66,8	74,3	81,7
SB-383816	EFXE-383816SB	13,3	26,6	39,9	46,5	59,8	66,5	73,1
SB-384516	EFXE-384516SB	14,5	29,1	43,7	51,0	65,6	72,9	80,2
SB-385716	EFXE-385716SB	16,7	33,4	50,1	58,5	75,2	83,6	91,9
SB-505016	EFXE-505016SB	17,9	35,8	53,8	62,7	80,7	89,7	98,6
SB-383827	EFXE-383827SB	17,5	35,1	52,7	61,4	79,0	87,8	96,6
SB-575716	EFXE-575716SB	20,7	41,5	62,3	72,7	93,5	103,9	114,3
SB-577620	EFXE-577620SB	26,9	53,9	80,9	94,4	121,3	134,8	148,3
SB-575730	EFXE-575730SB	27,9	55,8	83,7	97,7	125,6	139,5	153,5
SB-769520	EFXE-769520SB	36,1	72,2	108,3	126,3	162,4	180,5	198,5
SB-1258040	EFXE-1258040SB	36,1	72,2	108,3	126,3	162,4	180,5	198,5

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Enclosure types (Stainless steel)		Maximum power dissipation (W) – Tamb. up to **55**°C						
		INTERNAL TEMP.65°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
SB-101210	EFXE-101210SB	2,7	4,1	6,9	8,3	11,1	12,5	13,9
SB-151510	EFXE-151510SB	4,0	6,0	10,0	12,0	16,0	18,0	20,0
SB-142013	EFXE-142013SB	5,2	7,8	13,1	15,7	20,9	23,5	26,2
SB-202010	EFXE-202010SB	5,3	8,0	13,4	16,1	21,4	24,1	26,8
SB-202016	EFXE-202016SB	6,9	10,4	17,4	20,8	27,8	31,3	34,8
SB-202713	EFXE-202713SB	7,2	10,8	18,0	21,6	28,9	32,5	36,1
SB-272713	EFXE-272713SB	8,3	12,5	20,9	25,1	33,5	37,7	41,8
SB-203016	EFXE-203016SB	8,5	12,8	21,4	25,7	34,3	38,6	42,9
SB-273513	EFXE-273513SB	9,6	14,4	24,1	28,9	38,5	43,3	48,2
SB-282816	EFXE-282816SB	9,6	14,5	24,2	29,0	38,7	43,6	48,4
SB-204016	EFXE-204016SB	10,1	15,1	25,2	30,3	40,4	45,5	50,5
SB-353516	EFXE-353516SB	12,2	18,3	30,5	36,6	48,8	54,9	61,0
SB-282827	EFXE-282827SB	13,1	19,6	32,8	39,3	52,5	59,0	65,6
SB-355016	EFXE-355016SB	14,8	22,2	37,1	44,5	59,4	66,8	74,3
SB-383816	EFXE-383816SB	13,3	19,9	33,2	39,9	53,2	59,8	66,5
SB-384516	EFXE-384516SB	14,5	21,8	36,4	43,7	58,3	65,6	72,9
SB-385716	EFXE-385716SB	16,7	25,0	41,8	50,1	66,8	75,2	83,6
SB-505016	EFXE-505016SB	17,9	26,9	44,8	53,8	71,7	80,7	89,7
SB-383827	EFXE-383827SB	17,5	26,3	43,9	52,7	70,2	79,0	87,8
SB-575716	EFXE-575716SB	20,7	31,1	51,9	62,3	83,1	93,5	103,9
SB-577620	EFXE-577620SB	26,9	40,4	67,4	80,9	107,9	121,3	134,8
SB-575730	EFXE-575730SB	27,9	41,8	69,7	83,7	111,6	125,6	139,5
SB-769520	EFXE-769520SB	36,1	54,1	90,2	108,3	144,4	162,4	180,5
SB-1258040	EFXE-1258040SB	36,1	54,1	90,2	108,3	144,4	162,4	180,5

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Enclosure types (Stainless steel)		Maximum power dissipation (W) – Tamb. up to **60**°C					
		INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
SB-101210	EFXE-101210SB	2,7	5,5	6,9	9,7	11,1	12,5
SB-151510	EFXE-151510SB	4,0	8,0	10,0	14,0	16,0	18,0
SB-142013	EFXE-142013SB	5,2	10,4	13,1	18,3	20,9	23,5
SB-202010	EFXE-202010SB	5,3	10,7	13,4	18,7	21,4	24,1
SB-202016	EFXE-202016SB	6,9	13,9	17,4	24,3	27,8	31,3
SB-202713	EFXE-202713SB	7,2	14,4	18,0	25,2	28,9	32,5
SB-272713	EFXE-272713SB	8,3	16,7	20,9	29,3	33,5	37,7
SB-203016	EFXE-203016SB	8,5	17,1	21,4	30,0	34,3	38,6
SB-273513	EFXE-273513SB	9,6	19,2	24,1	33,7	38,5	43,3
SB-282816	EFXE-282816SB	9,6	19,3	24,2	33,9	38,7	43,6
SB-204016	EFXE-204016SB	10,1	20,2	25,2	35,4	40,4	45,5
SB-353516	EFXE-353516SB	12,2	24,4	30,5	42,7	48,8	54,9
SB-282827	EFXE-282827SB	13,1	26,2	32,8	45,9	52,5	59,0
SB-355016	EFXE-355016SB	14,8	29,7	37,1	52,0	59,4	66,8
SB-383816	EFXE-383816SB	13,3	26,6	33,2	46,5	53,2	59,8
SB-384516	EFXE-384516SB	14,5	29,1	36,4	51,0	58,3	65,6
SB-385716	EFXE-385716SB	16,7	33,4	41,8	58,5	66,8	75,2
SB-505016	EFXE-505016SB	17,9	35,8	44,8	62,7	71,7	80,7
SB-383827	EFXE-383827SB	17,5	35,1	43,9	61,4	70,2	79,0
SB-575716	EFXE-575716SB	20,7	41,5	51,9	72,7	83,1	93,5
SB-577620	EFXE-577620SB	26,9	53,9	67,4	94,4	107,9	121,3
SB-575730	EFXE-575730SB	27,9	55,8	69,7	97,7	111,6	125,6
SB-769520	EFXE-769520SB	36,1	72,2	90,2	126,3	144,4	162,4
SB-1258040	EFXE-1258040SB	36,1	72,2	90,2	126,3	144,4	162,4

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Enclosure types (Stainless steel)		Maximum power dissipation (W) – Tamb. up to **95**°C	
		INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
SB-101210	EFXE-101210SB	1,3	2,7
SB-151510	EFXE-151510SB	2,0	4,0
SB-142013	EFXE-142013SB	2,6	5,2
SB-202010	EFXE-202010SB	2,6	5,3
SB-202016	EFXE-202016SB	3,4	6,9
SB-202713	EFXE-202713SB	3,6	7,2
SB-272713	EFXE-272713SB	4,1	8,3
SB-203016	EFXE-203016SB	4,2	8,5
SB-273513	EFXE-273513SB	4,8	9,6
SB-282816	EFXE-282816SB	4,8	9,6
SB-204016	EFXE-204016SB	5,0	10,1
SB-353516	EFXE-353516SB	6,1	12,2
SB-282827	EFXE-282827SB	6,5	13,1
SB-355016	EFXE-355016SB	7,4	14,8
SB-383816	EFXE-383816SB	6,6	13,3
SB-384516	EFXE-384516SB	7,2	14,5
SB-385716	EFXE-385716SB	8,3	16,7
SB-505016	EFXE-505016SB	8,9	17,9
SB-383827	EFXE-383827SB	8,7	17,5
SB-575716	EFXE-575716SB	10,3	20,7
SB-577620	EFXE-577620SB	13,4	26,9
SB-575730	EFXE-575730SB	13,9	27,9
SB-769520	EFXE-769520SB	18,0	36,1
SB-1258040	EFXE-1258040SB	18,0	36,1

Power dissipation – Stainless steel enclosures ST series

Enclosure types (Stainless steel)		Maximum power dissipation (W) – Tamb. up to **40**°C						
		INTERNAL TEMP.60°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
ST-101210	EFXE-101210ST	5,5	8,3	11,1	12,5	15,3	16,7	18,1
ST-151510	EFXE-151510ST	8,0	12,0	16,0	18,0	22,0	24,0	26,1
ST-142013	EFXE-142013ST	10,4	15,7	20,9	23,5	28,8	31,4	34,0
ST-202010	EFXE-202010ST	10,7	16,1	21,4	24,1	29,5	32,2	34,8
ST-202016	EFXE-202016ST	13,9	20,8	27,8	31,3	38,3	41,7	45,2
ST-202713	EFXE-202713ST	14,4	21,6	28,9	32,5	39,7	43,3	46,9
ST-272713	EFXE-272713ST	16,7	25,1	33,5	37,7	46,0	50,2	54,4
ST-203016	EFXE-203016ST	17,1	25,7	34,3	38,6	47,2	51,4	55,7
ST-273513	EFXE-273513ST	19,2	28,9	38,5	43,3	53,0	57,8	62,6
ST-282816	EFXE-282816ST	19,3	29,0	38,7	43,6	53,3	58,1	63,0
ST-204016	EFXE-204016ST	20,2	30,3	40,4	45,5	55,6	60,6	65,7
ST-353516	EFXE-353516ST	24,4	36,6	48,8	54,9	67,1	73,2	79,3
ST-282827	EFXE-282827ST	26,2	39,3	52,5	59,0	72,2	78,7	85,3
ST-355016	EFXE-355016ST	29,7	44,5	59,4	66,8	81,7	89,1	96,6
ST-383816	EFXE-383816ST	26,6	39,9	53,2	59,8	73,1	79,8	86,5
ST-384516	EFXE-384516ST	29,1	43,7	58,3	65,6	80,2	87,5	94,8
ST-385716	EFXE-385716ST	33,4	50,1	66,8	75,2	91,9	100,3	108,7
ST-505016	EFXE-505016ST	35,8	53,8	71,7	80,7	98,6	107,6	116,6
ST-383827	EFXE-383827ST	35,1	52,7	70,2	79,0	96,6	105,4	114,2
ST-575716	EFXE-575716ST	41,5	62,3	83,1	93,5	114,3	124,7	135,1
ST-577620	EFXE-577620ST	53,9	80,9	107,9	121,3	148,3	161,8	175,3
ST-575730	EFXE-575730ST	55,8	83,7	111,6	125,6	153,5	167,5	181,4
ST-769520	EFXE-769520ST	72,2	108,3	144,4	162,4	198,5	216,6	234,6
ST-1258040	EFXE-1258040ST	72,2	108,3	144,4	162,4	198,5	216,6	234,6

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Enclosure types (Stainless steel)		Maximum power dissipation (W) – Tamb. up to **50**°C						
		INTERNAL TEMP.60°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
ST-101210	EFXE-101210ST	2,7	5,5	8,3	9,7	12,5	13,9	15,3
ST-151510	EFXE-151510ST	4,0	8,0	12,0	14,0	18,0	20,0	22,0
ST-142013	EFXE-142013ST	5,2	10,4	15,7	18,3	23,5	26,2	28,8
ST-202010	EFXE-202010ST	5,3	10,7	16,1	18,7	24,1	26,8	29,5
ST-202016	EFXE-202016ST	6,9	13,9	20,8	24,3	31,3	34,8	38,3
ST-202713	EFXE-202713ST	7,2	14,4	21,6	25,2	32,5	36,1	39,7
ST-272713	EFXE-272713ST	8,3	16,7	25,1	29,3	37,7	41,8	46,0
ST-203016	EFXE-203016ST	8,5	17,1	25,7	30,0	38,6	42,9	47,2
ST-273513	EFXE-273513ST	9,6	19,2	28,9	33,7	43,3	48,2	53,0
ST-282816	EFXE-282816ST	9,6	19,3	29,0	33,9	43,6	48,4	53,3
ST-204016	EFXE-204016ST	10,1	20,2	30,3	35,4	45,5	50,5	55,6
ST-353516	EFXE-353516ST	12,2	24,4	36,6	42,7	54,9	61,0	67,1
ST-282827	EFXE-282827ST	13,1	26,2	39,3	45,9	59,0	65,6	72,2
ST-355016	EFXE-355016ST	14,8	29,7	44,5	52,0	66,8	74,3	81,7
ST-383816	EFXE-383816ST	13,3	26,6	39,9	46,5	59,8	66,5	73,1
ST-384516	EFXE-384516ST	14,5	29,1	43,7	51,0	65,6	72,9	80,2
ST-385716	EFXE-385716ST	16,7	33,4	50,1	58,5	75,2	83,6	91,9
ST-505016	EFXE-505016ST	17,9	35,8	53,8	62,7	80,7	89,7	98,6
ST-383827	EFXE-383827ST	17,5	35,1	52,7	61,4	79,0	87,8	96,6
ST-575716	EFXE-575716ST	20,7	41,5	62,3	72,7	93,5	103,9	114,3
ST-577620	EFXE-577620ST	26,9	53,9	80,9	94,4	121,3	134,8	148,3
ST-575730	EFXE-575730ST	27,9	55,8	83,7	97,7	125,6	139,5	153,5
ST-769520	EFXE-769520ST	36,1	72,2	108,3	126,3	162,4	180,5	198,5
ST-1258040	EFXE-1258040ST	36,1	72,2	108,3	126,3	162,4	180,5	198,5

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Enclosure types (Stainless steel)		Maximum power dissipation (W) – Tamb. up to **55**°C						
		INTERNAL TEMP.65°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
ST-101210	EFXE-101210ST	2,7	4,1	6,9	8,3	11,1	12,5	13,9
ST-151510	EFXE-151510ST	4,0	6,0	10,0	12,0	16,0	18,0	20,0
ST-142013	EFXE-142013ST	5,2	7,8	13,1	15,7	20,9	23,5	26,2
ST-202010	EFXE-202010ST	5,3	8,0	13,4	16,1	21,4	24,1	26,8
ST-202016	EFXE-202016ST	6,9	10,4	17,4	20,8	27,8	31,3	34,8
ST-202713	EFXE-202713ST	7,2	10,8	18,0	21,6	28,9	32,5	36,1
ST-272713	EFXE-272713ST	8,3	12,5	20,9	25,1	33,5	37,7	41,8
ST-203016	EFXE-203016ST	8,5	12,8	21,4	25,7	34,3	38,6	42,9
ST-273513	EFXE-273513ST	9,6	14,4	24,1	28,9	38,5	43,3	48,2
ST-282816	EFXE-282816ST	9,6	14,5	24,2	29,0	38,7	43,6	48,4
ST-204016	EFXE-204016ST	10,1	15,1	25,2	30,3	40,4	45,5	50,5
ST-353516	EFXE-353516ST	12,2	18,3	30,5	36,6	48,8	54,9	61,0
ST-282827	EFXE-282827ST	13,1	19,6	32,8	39,3	52,5	59,0	65,6
ST-355016	EFXE-355016ST	14,8	22,2	37,1	44,5	59,4	66,8	74,3
ST-383816	EFXE-383816ST	13,3	19,9	33,2	39,9	53,2	59,8	66,5
ST-384516	EFXE-384516ST	14,5	21,8	36,4	43,7	58,3	65,6	72,9
ST-385716	EFXE-385716ST	16,7	25,0	41,8	50,1	66,8	75,2	83,6
ST-505016	EFXE-505016ST	17,9	26,9	44,8	53,8	71,7	80,7	89,7
ST-383827	EFXE-383827ST	17,5	26,3	43,9	52,7	70,2	79,0	87,8
ST-575716	EFXE-575716ST	20,7	31,1	51,9	62,3	83,1	93,5	103,9
ST-577620	EFXE-577620ST	26,9	40,4	67,4	80,9	107,9	121,3	134,8
ST-575730	EFXE-575730ST	27,9	41,8	69,7	83,7	111,6	125,6	139,5
ST-769520	EFXE-769520ST	36,1	54,1	90,2	108,3	144,4	162,4	180,5
ST-1258040	EFXE-1258040ST	36,1	54,1	90,2	108,3	144,4	162,4	180,5

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Enclosure types (Stainless steel)		Maximum power dissipation (W) – Tamb. up to **60**°C					
		INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
ST-101210	EFXE-101210ST	2,7	5,5	6,9	9,7	11,1	12,5
ST-151510	EFXE-151510ST	4,0	8,0	10,0	14,0	16,0	18,0
ST-142013	EFXE-142013ST	5,2	10,4	13,1	18,3	20,9	23,5
ST-202010	EFXE-202010ST	5,3	10,7	13,4	18,7	21,4	24,1
ST-202016	EFXE-202016ST	6,9	13,9	17,4	24,3	27,8	31,3
ST-202713	EFXE-202713ST	7,2	14,4	18,0	25,2	28,9	32,5
ST-272713	EFXE-272713ST	8,3	16,7	20,9	29,3	33,5	37,7
ST-203016	EFXE-203016ST	8,5	17,1	21,4	30,0	34,3	38,6
ST-273513	EFXE-273513ST	9,6	19,2	24,1	33,7	38,5	43,3
ST-282816	EFXE-282816ST	9,6	19,3	24,2	33,9	38,7	43,6
ST-204016	EFXE-204016ST	10,1	20,2	25,2	35,4	40,4	45,5
ST-353516	EFXE-353516ST	12,2	24,4	30,5	42,7	48,8	54,9
ST-282827	EFXE-282827ST	13,1	26,2	32,8	45,9	52,5	59,0
ST-355016	EFXE-355016ST	14,8	29,7	37,1	52,0	59,4	66,8
ST-383816	EFXE-383816ST	13,3	26,6	33,2	46,5	53,2	59,8
ST-384516	EFXE-384516ST	14,5	29,1	36,4	51,0	58,3	65,6
ST-385716	EFXE-385716ST	16,7	33,4	41,8	58,5	66,8	75,2
ST-505016	EFXE-505016ST	17,9	35,8	44,8	62,7	71,7	80,7
ST-383827	EFXE-383827ST	17,5	35,1	43,9	61,4	70,2	79,0
ST-575716	EFXE-575716ST	20,7	41,5	51,9	72,7	83,1	93,5
ST-577620	EFXE-577620ST	26,9	53,9	67,4	94,4	107,9	121,3
ST-575730	EFXE-575730ST	27,9	55,8	69,7	97,7	111,6	125,6
ST-769520	EFXE-769520ST	36,1	72,2	90,2	126,3	144,4	162,4
ST-1258040	EFXE-1258040ST	36,1	72,2	90,2	126,3	144,4	162,4

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Enclosure types (Stainless steel)		Maximum power dissipation (W) – Tamb. up to **95**°C	
		INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
ST-101210	EFXE-101210ST	1,3	2,7
ST-151510	EFXE-151510ST	2,0	4,0
ST-142013	EFXE-142013ST	2,6	5,2
ST-202010	EFXE-202010ST	2,6	5,3
ST-202016	EFXE-202016ST	3,4	6,9
ST-202713	EFXE-202713ST	3,6	7,2
ST-272713	EFXE-272713ST	4,1	8,3
ST-203016	EFXE-203016ST	4,2	8,5
ST-273513	EFXE-273513ST	4,8	9,6
ST-282816	EFXE-282816ST	4,8	9,6
ST-204016	EFXE-204016ST	5,0	10,1
ST-353516	EFXE-353516ST	6,1	12,2
ST-282827	EFXE-282827ST	6,5	13,1
ST-355016	EFXE-355016ST	7,4	14,8
ST-383816	EFXE-383816ST	6,6	13,3
ST-384516	EFXE-384516ST	7,2	14,5
ST-385716	EFXE-385716ST	8,3	16,7
ST-505016	EFXE-505016ST	8,9	17,9
ST-383827	EFXE-383827ST	8,7	17,5
ST-575716	EFXE-575716ST	10,3	20,7
ST-577620	EFXE-577620ST	13,4	26,9
ST-575730	EFXE-575730ST	13,9	27,9
ST-769520	EFXE-769520ST	18,0	36,1
ST-1258040	EFXE-1258040ST	18,0	36,1

Maximum Power Dissipation calculation

The values specified in the tables as per clause 2.1.1 may be modified within the maximum admitted Tamb and maximum admitted internal temperature as follows.

$$Pdiss\ (W) = \frac{Tmax - Tamb}{Rth}$$

$Rth = A \times (\text{enclosure surface in } mm^2 \text{ except enclosure bottom})^B$

Legend:
Rth – Thermal resistance [K/W].
Tmax – Maximum allowed temperature inside enclosure.
Tamb – Ambient temperature of enclosure
A and B - coefficients determined for each series o enclosure. Exact values are given in manufacturer's documentation.

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[16] Confidential Report No. FIDI 21 CR 075

[16.1] Routine testing

Junction boxes, local control stations and local control panels fitted with wiring, shall be subject to a routine dielectric strength test according to the clause 7.1 of IEC 60079-7.

[17] Specific Conditions of Use

- Enclosures marked with warning label: "WARNING – POTENTIAL ELECTROSTATIC CHARGING HAZARD – SEE INSTRUCTIONS" must be cleaned only by damp cloth or antistatic products.
- Apparatus equipped with drain / venting valve Technor Italsmea model ECR3:
  - the valve cannot be open when an explosive dust atmosphere is present.
  - The valve can be open when an explosive gas atmosphere is present: when open, the equipment reaches the protection degree IP44.
  - When the valve is left in open position, it should be protected from light exposure.
- On the intrinsic safety terminals, the user must only connect devices with compatible intrinsic safety parameters according to EN 60079-14.

[18] Essential Health and Safety Requirements

Covered by the conformity with harmonized standards listed under item 9.

[19] Drawings and Documents

Title:	Drawing No.:	Rev. level:	Date:
Technical note	TN2111	0	17.11.2021
Instruction for use	TN2111 Annex A	0	08.11.2021
Apparatus list	TN2111 Annex B	0	17.11.2021
Drawings:			
Cable entries, plug, adaptors coupling systems	AC2111, sheet 1	0	10.11.2021
Example of operator arrangements for AQ-AR-EFE	AC2111, sheet 2	0	10.11.2021
Example of operator arrangements for SB-ST-EFEXE	AC2111, sheet 3	0	10.11.2021
Example terminals and earth bus bar	AC2111, sheet 4	0	10.11.2021
Drain / breath device type ECR3	AC2111, sheet 5	0	10.11.2021
Marking label SB..., ST..., AQ..., AR...	AC2111, sheet 6	0	10.11.2021
Marking label SB..., ST..., AQ..., AR...	AC2111, sheet 7	0	10.11.2021

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[1] **SUPPLEMENTARY EU – TYPE EXAMINATION CERTIFICATE**

[2] Equipment or Protective Systems Intended for use in Potentially Explosive Atmospheres Directive 2014/34/EU.

[3] Supplementary EU-Type Examination Certificate Number: **FIDI 21 ATEX 0090X/1**

[4] Product: **Junction boxes, local control stations and local control panels**

Type: **AQ-***P / AQ-***AL / AR-***P / AR-***AL**
AQ-*P-HT / AQ-***AL-HT / AR-***P-HT / AR-***AL-HT**
SB-* / ST-***
EFE-* / EFXE-*** AL/ EFXE-***SB / EFXE-***ST**
EFE-*-HT / EFXE-***AL-HT**

[5] Manufacturer: **Technor Italsmea S.p.A.**

[6] Address: **Via Italia 33, 20060 Gessate (MI), Italy**

[7] This supplementary certificate extends EU – Type Examination Certificate to apply to product designed and constructed in accordance with the specification set out in the Schedule of the said certificate but having any variations specified in the Schedule to this certificate and the documents therein referred to.

[8] FIDITAS Ltd., Notified Body number 2829 in accordance with Article 17 of Directive 2014/34/EU of the European Parliament and of the Council, dated 26 February 2014, certifies that this product has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of products intended for use in potentially explosive atmospheres given in Annex II of the Directive.

[9] The examination and test results are recorded in confidential Report No: **FIDI 23 CR 019**

[10] The marking of the product shall include the following:

II 1 G	**Ex ia IIC/IIB T6...T4 Ga**(2) or
II 2(1) G or **II 2(2) G**	**Ex db eb ia/ib mb [**(3)**] IIC/IIB T6...T4 Gb**(1) or
II 2 G	**Ex eb IIC/IIB T6...T4 Gb**(1) or
II 2 D	**Ex tb IIIC T85°C...T135°C Db**

(1) Others type of protection additional to 'eb' depending to the components actually mounted.

(2) In case of enclosures containing 'eb' terminals and/or 'ia Ga' already certified components (with compatible marking) only.

(3) Associated equipment protection depending on the components actually mounted (see lists): e.g. [ia/ib/ia Ga/ia IIIC Da] and/or [ia IIIC Da] or [ia/ib/ia Ga/ia IIIC Da] and/or [ia/ib/ia Ga] [ia IIIC Da]

FIDITAS Ltd.
Certification department
Approved:

Marino Kelava, M.E.Eng.

Our ref.: 23.CRT.071

Date: 19.04.2023

Fiditas d.o.o. ZAGREB

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[11] **SCHEDULE**

[12] **SUPPLEMENTARY EU - TYPE EXAMINATION CERTIFICATE No.: FIDI 21 ATEX 0090X /1**

[13] Description of the variation to the Product

New Ex products added:

- Surge voltage protection unit type: PLUGTRAB PT2 or PT4 – PHOENIX CONTACT; II 1G> Ex ia IIC T4...T6 Ga; KEMA 00 ATEX 1099X;
- SITRANS TH230/420, type: 7NG0317, 0310; 0410 TR320/TR420 7NG0327; 7NG0320; TYPE 7NG0420; Siemens AG; II 1G Ex ia IIC T6...T4 Ga; II 2(1)G Ex ib [ia Ga] IIC T6...T4 Gb; DEKRA 17 ATEX 0116X
- Enhanced Model 644 Temperature Transmitter, ROSEMOUNT INCORPORATED, II 1G Ex ia IIC T6...T4 Ga; DEKRA 21ATEX0003X,
- Temperature Transmitter type: 5434D; 5431D; 6431D; 5435D; 5437D; 5437D; 5437B; 6437D, II 1G Ex ia IIC T6...T4 Ga; II 2(1)G Ex ib [ia Ga] IIC T6...T4 Gb; DEKRA 16 ATEX 0047X,
- Controls Units and / or Junction Boxes Type: GUB..., TECHNOR ITALSMEA; II 2G Ex db (*) IIC T(*) Gb; INERIS 22 ATEX 0008X
- Cable Transit Device type: CF 8 Ex, CF 32 Ex, CF 16 Ex, C RS T...Ex, RS..B Ex, SF...Ex, SFX...B Ex, B...B Ex, R...B Ex and RO...B; ROXTEC INTERNATIONAL AB, II 2G Ex e IIC Gb, II 2D Ex tb IIC Db; NEMKO 12 ATEX 1278X
- Cable Transit Device type: HD 16 Ex, HD 24 Ex, HD 32 Ex and HDLC Ex, ROXTEC INTERNATIONAL AB, II 2G Ex eb IIC Gb, II 2D Ex tb IIIC Db, PRESAFE 15 ATEX 6419X
- Control stations and junction boxes type: CP..., TECHNOR ITALSMEA, II 2G Ex db IIC T6 or T5 or T4 Gb or II 2(1)G Ex db [ia Ga] IIC T6 Gb(***) or II 2(2)G Ex db [ib] IIC T6 Gb (***); INERIS 03 ATEX 0009X
- Industrial plug and socket type: DXN1, MARECHAL ELECTRIC, II 2G Ex db eb IIC T5 or T6; II 2D Ex tb IIIC T90°C/T70°C; LCIE 99 ATEX6027X
- Industrial plug and socket type: DXN3, MARECHAL ELECTRIC; II 2G Ex db eb IIC T5 or T6; II 2D Ex tb IIIC T90°C/T70°C; LCIE 05 ATEX 6149X
- Industrial plug and socket type: DXN6, MARECHAL ELECTRIC, II 2G Ex db eb IIC T5 or T6; II 2D Ex tb IIIC T90°C/T70°C; LCIE 05 ATEX 6150X
- Industrial plug and socket type: PXN12C, MARECHAL ELECTRIC, II 2G Ex eb IIC T*; II 2G Ex ia or ib IIC T*; II 2D Ex tb IIIC T* Db; LCIE 07 ATEX 6070X
- Industrial plug and socket type: DXN25C, MARECHAL ELECTRIC; II 2G Ex eb IIC T*; II 2G Ex ia or ib IIC T6; II2D Ex tb IIIC T*; LCIE 09ATEX3050X
- Industrial plug and socket type: DXN37C, MARECHAL ELECTRIC; II 2G Ex eb IIC T*; II 2G Ex ia or ib IIC T6; II2D Ex tb IIIC T*; LCIE 07ATEX6071X
- Industrial plug and socket type: SPeX, MARECHAL ELECTRIC, II 2G Ex eb IIC T*; II2D Ex tb IIIC T* Db; LCIE 07ATEX6073X
- Industrial plug and socket type: DXA1, MARECHAL ELECTRIC, II 2G Ex db eb IIC T* Gb; II 2D Ex tb IIC T*°C Db; LCIE 15ATEX 3033X
- Industrial plug and socket type: PNCX, MARECHAL ELECTRIC, II 2G Ex IIC T6 Gb; II 2D Ex tb IIIC T72°C Db; LCIE 16ATEX3001X
- Terminal type: WDU 240, WEIDMULLER, II 2G Ex eb IIC Gb; KEMA 01 ATEX 2186U.

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[14] Confidential Report No. FIDI 23 CR 019

[14.1] Routine testing

No change to specified in the initial certificate.

[15] Specific Conditions of Use

Addditional to those specified the initial certificate:

- Manufacturer must obey relevant specific condition of use of Ex equipment and/or schedule of limitation of Ex components installed in/on the product and forward to the end user if relevant for the installation and use.

[16] Essential Health and Safety Requirements

Compliance with the Essential Health and Safety Requirements is not affected by this variation.

[17] Drawings and Documents

Title:	Drawing No.:	Rev. level:	Date:
Technical note	TN2111	1	20.01.2023
Instruction for use	TN2111 Annex A	1	20.01.2023
Apparatus list	TN2111 Annex B	1	20.01.2023

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IECEx Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION
IEC Certification System for Explosive Atmospheres

for rules and details of the IECEx Scheme visit www.iecex.com

Certificate No.:	**IECEx FIDI 21.0015X**	Page 1 of 4	Certificate history: Issue 0 (2022-02-18)
Status:	**Current**	Issue No: 1	
Date of Issue:	2023-05-04		

Applicant: **Technor Italsmea S.p.A.**
Via Italia 33
20060 Gessate (MI)
Italy

Equipment: **Junction boxes, local control stations and local control panels**

Optional accessory: Model reference: AQ-***P / AQ-***AL / AR-***P / AR-***AL / AQ-***P-HT / AQ-***AL-HT / AR-***P-HT / AR-***AL-HT / SB-*** / ST-*** / EFE-*** / EFXE-*** AL/ EFXE-***SB / EFXE-***ST / EFE-***-HT / EFXE-***AL-HT

Type of Protection: **Flameproof enclosure 'db'; Intrinsic safety 'ia/ib'; Increased safety 'eb'; Encapsulation 'mb', Protection by enclosure 'tb'**

Marking: **Ex ia IIC/IIB T6...T4 Ga**(2) or

Ex db eb ia/ib mb [(3)] IIC/IIB T6...T4 Gb(1) or

Ex eb IIC/IIB T6...T4 Gb(1) or

Ex tb IIIC T85°C...T135°C Db

(1) Others type of protection additional to Ex e/eb depending to the components actually mounted.

(2) In case of enclosures containing Ex e/Ex eb terminals and/or Ex ia Ga already certified components (with compatible marking) only.

(3) Associated equipment protection depending on the components actually mounted (see lists): e.g. [ia/ib/ia Ga/ia IIIC Da] and/or [ia IIIC Da] or [ia/ib/ia Ga/ia IIIC Da] and/or [ia/ib/ia Ga] [ia IIIC Da]

Approved for issue on behalf of the IECEx Certification Body: **Marino Kelava**

Position: **Certification Signatory**

Signature:
(for printed version)

Date:
(for printed version)

1. This certificate and schedule may only be reproduced in full.
2. This certificate is not transferable and remains the property of the issuing body.
3. The Status and authenticity of this certificate may be verified by visiting www.iecex.com or use of this QR Code.

Certificate issued by:

Fiditas Ltd
Slavka Tomerlina 44
HR-10361 Zagreb-Sesvete
Croatia

Fiditas
explosion safety solutions

IECEx Certificate of Conformity

Certificate No.: **IECEx FIDI 21.0015X**

Date of issue: 2023-05-04 Issue No: 1

Manufacturer: **Technor Italsmea S.p.A.**
Via Italia 33
20060 Gessate (MI)
Italy

Manufacturing locations:

This certificate is issued as verification that a sample(s), representative of production, was assessed and tested and found to comply with the IEC Standard list below and that the manufacturer's quality system, relating to the Ex products covered by this certificate, was assessed and found to comply with the IECEx Quality system requirements.This certificate is granted subject to the conditions as set out in IECEx Scheme Rules, IECEx 02 and Operational Documents as amended

STANDARDS :
The equipment and any acceptable variations to it specified in the schedule of this certificate and the identified documents, was found to comply with the following standards

IEC 60079-0:2017 Explosive atmospheres - Part 0: Equipment - General requirements
Edition:7.0

IEC 60079-1:2014-06 Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"
Edition:7.0

IEC 60079-11:2011 Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"
Edition:6.0

IEC 60079-18:2017 Explosive atmospheres - Part 18: Protection by encapsulation "m"
Edition:4.1

IEC 60079-31:2013 Explosive atmospheres - Part 31: Equipment dust ignition protection by enclosure "t"
Edition:2

IEC 60079-7:2017 Explosive atmospheres - Part 7: Equipment protection by increased safety "e"
Edition:5.1

This Certificate **does not** indicate compliance with safety and performance requirements other than those expressly included in the Standards listed above.

TEST & ASSESSMENT REPORTS:
A sample(s) of the equipment listed has successfully met the examination and test requirements as recorded in:

Test Reports:

HR/FIDI/ExTR21.0016/00 HR/FIDI/ExTR21.0016/01

Quality Assessment Report:

FR/INE/QAR08.0002/15

IECEx Certificate of Conformity

EQUIPMENT:
Equipment and systems covered by this Certificate are as follows:

Junction boxes, local control stations and local control panels series AQ-…..; AR-…..; SB…..; EFE-…..; EFXE-….. use certified enclosures of various sizes, manufactured by Technor Italsmea S.p.A., type: AQ-.... ; AR-....; SB-...; ST- …, certificate IECEx FIDI 21.0012U.

Enclosures coded …-HT are made in glass fiber reinforced polyester resin or in aluminum, and covered by IECEx component certificates: IECEx PTB 08.0003U, enclosure type: 26.****** and IECEx PTB 08.0003U, enclosure type: 25.******.

Enclosures may be equipped with certified Ex equipment or Ex components and Ex terminals listed in manufacturer's documentation. Certified Ex equipment or Ex components and Ex terminals must be used according to data available in related component or equipment certificates, in particular relevant temperature range, voltage and current limitations. The cable glands or plugs, with separate IECEx certificate, made in type of protection ‘eb’ and/or ‘tb’ with appropriate IP protection are mounted according to related manufacturer’s installation instructions. Each enclosure is provided with internal earthing certified terminal or earthing screw or bolt. Metal enclosures are provided by external earthing screw or bolt. Metal and polyester enclosures can be provided by passing through earthing terminals.

All enclosures can be provided by:
- Externally installed accessories as specified in manufacturer documents,
- Drain breath device type ECR3, included in this certificate,
- Internal/external earthing plate.

For other description see Annex.

SPECIFIC CONDITIONS OF USE: YES as shown below:

- Enclosures marked with warning label: “WARNING – POTENTIAL ELECTROSTATIC CHARGING HAZARD – SEE INSTRUCTIONS” must be cleaned only by damp cloth or antistatic products.
- Apparatus equipped with drain / venting valve Technor Italsmea model ECR3:
  - the valve cannot be open when an explosive dust atmosphere is present.
  - The valve can be open when an explosive gas atmosphere is present: when open, the equipment reaches the protection degree IP44.
  - When the valve is left in open position, it should be protected from light exposure.
- On the intrinsic safety terminals, the user must only connect devices with compatible intrinsic safety parameters according to IEC 60079-14.

IECEx Certificate of Conformity

DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)
New IECEx certified Ex products added in the Apparatus list according to list given in HR/FIDI/ ExTR 21.0016/01.

Annex:

IECEx FIDI 21.0015X Technor Equipment Annex1 issue1.pdf

Technical description (continued from original certificate)

Model identification

Junction boxes

A(1)-(2) (3) (4) (5) (6)	(1) –	**Q**: Square size **R**: Rectangular size
	(2) (3) (4)	dimension, in cm
	(5)	Material **P**: Glass fiber reinforced polyester resin **AL**: Aluminium Alloy
	(6)	None: up to internal temperature of 105°C **HT**: up to internal temperature of 130°C
SB- (2) (3) (4)	(2) (3) (4)	dimension, in cm
ST- (2) (3) (4)	(2) (3) (4)	dimension, in cm

Panel boards

EFE- (2) (3) (4) (6)	(2) (3) (4)	dimension, in cm
	(6)	None: up to internal temperature of 105°C **HT**: up to internal temperature of 130°C
EFXE- (2) (3) (4) (5) (6)	(2) (3) (4)	dimension, in cm
	(5)	Material **SB** or **ST**: stainless steel **AL**: Aluminium Alloy
	(6)	None: up to internal temperature of 105°C **HT**: up to internal temperature of 130°C

Technical data:

Electrical data:	According to Ex component to actually installed
Ambient temperature:	-50°C to +95°C Other possible ranges are with: - min temperature: -50°C to -20 °C - max temperature of +40 °C to +95 °C
Mechanical protection:	IP55, IP66 or IP67 depending on model

Temperature class and/or maximum surface temperature of any junction box or control panel depend on ambient temperature and internal power dissipation. The values that must be observed are given in relevant tables in this certificate.

For commercial reasons model name listed in the tables below can be modified as follows: first (2) and second (3) pair of digits can be reversed.

Models sizes

Polyester High Temperature		Aluminium High Temperature	
AQ-080806P-HT	EFE-080806-HT	AQ-080806AL-HT	EFXE-080806AL-HT
AQ-080808P-HT	EFE-080808-HT	AR-081306AL-HT	EFXE-081306AL-HT
AR-081106P-HT	EFE-081106-HT	AR-081806AL-HT	EFXE-081806AL-HT
AR-081108P-HT	EFE-081108-HT	AR-082505AL-HT	EFXE-082505AL-HT
AR-081606P-HT	EFE-081606-HT	AQ-101008AL-HT	EFXE-101008AL-HT
AR-081608P-HT	EFE-081608-HT	AR-101608AL-HT	EFXE-101608AL-HT
AR-081906P-HT	EFE-081906-HT	AR-102008AL-HT	EFXE-102008AL-HT
AR-081908P-HT	EFE-081908-HT	AQ-121208AL-HT	EFXE-121208AL-HT
AR-082306P-HT	EFE-082306-HT	AQ-121209AL-HT	EFXE-121209AL-HT
AR-082308P-HT	EFE-082308-HT	AR-122208AL-HT	EFXE-122208AL-HT
AQ-121209P-HT	EFE-121209-HT	AR-122209AL-HT	EFXE-122209AL-HT
AR-122209P-HT	EFE-122209-HT	AR-123608AL-HT	EFXE-123608AL-HT
AQ-161609P-HT	EFE-161609-HT	AQ-141409AL-HT	EFXE-141409AL-HT
AR-162609P-HT	EFE-162609-HT	AR-142009AL-HT	EFXE-142009AL-HT
AR-163609P-HT	EFE-163609-HT	AQ-161609AL-HT	EFXE-161609AL-HT
AR-165609P-HT	EFE-165609-HT	AR-162609AL-HT	EFXE-162609AL-HT
AQ-202017P-HT	EFE-202017-HT	AR-163609AL-HT	EFXE-163609AL-HT
AR-203017P-HT	EFE-203017-HT	AR-165609AL-HT	EFXE-165609AL-HT
AQ-252612P-HT	EFE-252612-HT	AQ-181810AL-HT	EFXE-181810AL-HT
AQ-252616P-HT	EFE-252616-HT	AR-182810AL-HT	EFXE-182810AL-HT
AR-254012P-HT	EFE-254012-HT	AR-102311AL-HT	EFXE-102311AL-HT
AR-254016P-HT	EFE-254016-HT	AR-202311AL-HT	EFXE-202311AL-HT
AR-256012P-HT	EFE-256012-HT	AR-202318AL-HT	EFXE-202318AL-HT
AR-304020P-HT	EFE-304020-HT	AR-232811AL-HT	EFXE-232811AL-HT
AQ-363609P-HT	EFE-363609-HT	AR-233311AL-HT	EFXE-233311AL-HT
AR-406025P-HT	EFE-406025-HT	AR-233318AL-HT	EFXE-233318AL-HT
AQ-414012P-HT	EFE-414012-HT	AR-234011AL-HT	EFXE-234011AL-HT
AQ-414020P-HT	EFE-414020-HT	AR-234023AL-HT	EFXE-234023AL-HT
		AR-236011AL-HT	EFXE-236011AL-HT
		AR-314011AL-HT	EFXE-314011AL-HT
		AR-314014AL-HT	EFXE-314014AL-HT
		AR-314018AL-HT	EFXE-314018AL-HT
		AR-314023AL-HT	EFXE-314023AL-HT
		AR-316011AL-HT	EFXE-316011AL-HT
		AR-316018AL-HT	EFXE-316018AL-HT
		AQ-606020AL-HT	EFXE-606020AL-HT

Polyester		Aluminium		Stainless steel	
AQ-080806P	EFE-080806	AQ-080806AL	EFXE-080806AL	SB-101210	EFXE-101210SB
AQ-080808P	EFE-080808	AR-081306AL	EFXE-081306AL	SB-151510	EFXE-151510SB
AR-081106P	EFE-081106	AR-081806AL	EFXE-081806AL	SB-142013	EFXE-142013SB
AR-081606P	EFE-081606	AR-081808AL	EFXE-081808AL	SB-202010	EFXE-202010SB
AR-081906P	EFE-081906	AR-082505AL	EFXE-082505AL	SB-202016	EFXE-202016SB
AQ-121209P	EFE-121209	AR-082508AL	EFXE-082508AL	SB-202713	EFXE-202713SB
AR-122209P	EFE-122209	AQ-101008AL	EFXE-101008AL	SB-272713	EFXE-272713SB
AQ-161609P	EFE-161609	AR-101508AL	EFXE-101508AL	SB-203016	EFXE-203016SB
AR-162609P	EFE-162609	AR-101608AL	EFXE-101608AL	SB-273513	EFXE-273513SB
AR-163609P	EFE-163609	AR-102008AL	EFXE-102008AL	SB-282816	EFXE-282816SB
AQ-252612P	EFE-252612	AQ-121208AL	EFXE-121208AL	SB-204016	EFXE-204016SB
AQ-252616P	EFE-252616	AR-122209AL	EFXE-122209AL	SB-353516	EFXE-353516SB
AR-254012P	EFE-254012	AQ-141409AL	EFXE-141409AL	SB-282827	EFXE-282827SB
AR-254016P	EFE-254016	AR-142009AL	EFXE-142009AL	SB-355016	EFXE-355016SB
AR-256012P	EFE-256012	AQ-161609AL	EFXE-161609AL	SB-383816	EFXE-383816SB
AQ-414012P	EFE-414012	AR-162410AL	EFXE-162410AL	SB-384516	EFXE-384516SB
		AR-162609AL	EFXE-162609AL	SB-385716	EFXE-385716SB
		AQ-181810AL	EFXE-181810AL	SB-505016	EFXE-505016SB
		AR-182810AL	EFXE-182810AL	SB-383827	EFXE-383827SB
		AR-202311AL	EFXE-202311AL	SB-575716	EFXE-575716SB
		AR-202318AL	EFXE-202318AL	SB-577620	EFXE-577620SB
		AR-232811AL	EFXE-232811AL	SB-575730	EFXE-575730SB
		AR-233312AL	EFXE-233312AL	SB-769520	EFXE-769520SB
		AR-233318AL	EFXE-233318AL	SB-1258040	EFXE-1258040SB

Enclosure types (Stainless steel)	
ST-101210	EFXE-101210ST
ST-151510	EFXE-151510ST
ST-142013	EFXE-142013ST
ST-202010	EFXE-202010ST
ST-202016	EFXE-202016ST
ST-202713	EFXE-202713ST
ST-272713	EFXE-272713ST
ST-203016	EFXE-203016ST
ST-273513	EFXE-273513ST
ST-282816	EFXE-282816ST
ST-204016	EFXE-204016ST
ST-353516	EFXE-353516ST
ST-282827	EFXE-282827ST
ST-355016	EFXE-355016ST
ST-383816	EFXE-383816ST
ST-384516	EFXE-384516ST
ST-385716	EFXE-385716ST
ST-505016	EFXE-505016ST
ST-383827	EFXE-383827ST
ST-575716	EFXE-575716ST
ST-577620	EFXE-577620ST
ST-575730	EFXE-575730ST
ST-769520	EFXE-769520ST
ST-1258040	EFXE-1258040ST

Note 2 For stainless steel enclosures: dimensions (2) and (3) can be decreased or increased up to 20%, dimensions (4) can be increased up to 500 mm. Model name changes consequently.

Power dissipation – HT glass fiber reinforced polyester resin enclosures

Enclosure types (polyester)		Maximum power dissipation (W) – Tamb. up to **40**°C							
		INTERNAL TEMP.60°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)	INTERNAL TEMP.127°C (T4/T135°C)
AQ-080806P-HT	EFE-080806-HT	3,5	5,2	7,0	7,8	9,6	10,4	11,3	15,2
AQ-080808P-HT	EFE-080808-HT	4,6	6,8	9,1	10,2	12,5	13,7	14,8	19,8
AR-081106P-HT	EFE-081106-HT	4,3	6,4	8,5	9,6	11,8	12,8	13,9	18,6
AR-081108P-HT	EFE-081108-HT	5,6	8,4	11,2	12,6	15,3	16,7	18,1	24,2
AR-081606P-HT	EFE-081606-HT	5,8	8,7	11,6	13,0	15,9	17,4	18,8	25.2
AR-081608P-HT	EFE-081608-HT	6,8	10,2	13,7	15,4	18,8	20,5	22,2	29,7
AR-081906P-HT	EFE-081906-HT	6,4	9,6	12,8	14,4	17,6	19,2	20,8	27,8
AR-081908P-HT	EFE-081908-HT	7,5	11,3	15,1	17,0	20,7	22,6	24,5	32,7
AR-082306P-HT	EFE-082306-HT	7,2	10,8	14,4	16,2	19,8	21,6	23,4	31,3
AR-082308P-HT	EFE-082308-HT	8,5	12,7	16,9	19,0	23,3	25,4	27,5	36,7
AQ-121209P-HT	EFE-121209-HT	8,0	12,0	15,9	17,9	21,9	23,9	25,9	34,7
AR-122209P-HT	EFE-122209-HT	10,8	16,2	21,6	24,3	29,7	32,4	35,1	47,0
AQ-161609P-HT	EFE-161609-HT	10,4	15,6	20,8	23,4	28,6	31,2	33,8	45,2
AR-162609P-HT	EFE-162609-HT	13,4	20,1	26,8	30,2	36,9	40,2	43,6	58,3
AR-163609P-HT	EFE-163609-HT	16,2	24,3	32,4	36,5	44,6	48,6	52,7	70,5
AR-165609P-HT	EFE-165609-HT	21,4	32,0	42,7	48,1	58,7	64,1	69,4	92,9
AQ-202017P-HT	EFE-202017-HT	18,0	26,9	35,9	40,4	49,4	53,9	58,4	78,1
AR-203017P-HT	EFE-203017-HT	20,9	31,3	41,7	47,0	57,4	62,6	67,8	90,8
AQ-252612P-HT	EFE-252612-HT	18,8	28,2	37,6	42,4	51,8	56,5	61,2	81,9
AQ-252616P-HT	EFE-252616-HT	20,8	31,1	41,5	46,7	57,1	62,3	67,5	90,3
AR-254012P-HT	EFE-254012-HT	22,8	34,2	45,7	51,4	62,8	68,5	74,2	99,3
AR-254016P-HT	EFE-254016-HT	26,2	39,3	52,4	58,9	72,0	78,6	85,1	113,9
AR-256012P-HT	EFE-256012-HT	29,0	43,6	58,1	65,3	79,9	87,1	94,4	126,3
AR-304020P-HT	EFE-304020-HT	32,3	48,5	64,7	72,7	88,9	97,0	105,1	140,7
AQ-363609P-HT	EFE-363609-HT	23,0	34,6	46,1	51,8	63,4	69,1	74,9	100,2
AR-406025P-HT	EFE-406025-HT	50,3	75,5	100,7	113,3	138,4	151,0	163,6	218,9
AQ-414012P-HT	EFE-414012-HT	29,1	43,7	58,2	65,5	80,1	87,3	94,6	126,6
AQ-414020P-HT	EFE-414020-HT	36,6	55,0	73,3	82,4	100,8	109,9	119,1	159,4

Enclosure types (polyester)		Maximum power dissipation (W) – Tamb. up to **50**°C							
		INTERNAL TEMP.60°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)	INTERNAL TEMP.127°C (T4/T135°C)
AQ-080806P-HT	EFE-080806-HT	1,7	3,5	5,2	6,1	7,8	8,7	9,6	13,4
AQ-080808P-HT	EFE-080808-HT	2,3	4,6	6,8	8,0	10,2	11,4	12,5	17,5
AR-081106P-HT	EFE-081106-HT	2,1	4,3	6,4	7,5	9,6	10,7	11,8	16,5
AR-081108P-HT	EFE-081108-HT	2,8	5,6	8,4	9,8	12,6	13,9	15,3	21.5
AR-081606P-HT	EFE-081606-HT	2,9	5,8	8,7	10,1	13,0	14,5	15,9	22,3
AR-081608P-HT	EFE-081608-HT	3,4	6,8	10,2	11,9	15,4	17,1	18,8	26,3
AR-081906P-HT	EFE-081906-HT	3,2	6,4	9,6	11,2	14,4	16,0	17,6	24,6
AR-081908P-HT	EFE-081908-HT	3,8	7,5	11,3	13,2	17,0	18,8	20,7	29,0
AR-082306P-HT	EFE-082306-HT	3,6	7,2	10,8	12,6	16,2	18,0	19,8	27,7
AR-082308P-HT	EFE-082308-HT	4,2	8,5	12,7	14,8	19,0	21,1	23,3	32,5
AQ-121209P-HT	EFE-121209-HT	4,0	8,0	12,0	14,0	17,9	19,9	21,9	30,7
AR-122209P-HT	EFE-122209-HT	5,4	10,8	16,2	18,9	24,3	27,0	29,7	41,6
AQ-161609P-HT	EFE-161609-HT	5,2	10,4	15,6	18,2	23,4	26,0	28,6	40,0
AR-162609P-HT	EFE-162609-HT	6,7	13,4	20,1	23,5	30,2	33,5	36,9	51,6
AR-163609P-HT	EFE-163609-HT	8,1	16,2	24,3	28,4	36,5	40,5	44,6	62,3
AR-165609P-HT	EFE-165609-HT	10,7	21,4	32,0	37,4	48,1	53,4	58,7	82,2
AQ-202017P-HT	EFE-202017-HT	9,0	18,0	26,9	31,4	40,4	44,9	49,4	69,1
AR-203017P-HT	EFE-203017-HT	10,4	20,9	31,3	36,5	47,0	52,2	57,4	80,4
AQ-252612P-HT	EFE-252612-HT	9,4	18,8	28,2	32,9	42,4	47,1	51,8	72,5
AQ-252616P-HT	EFE-252616-HT	10,4	20,8	31,1	36,3	46,7	51,9	57,1	79,9
AR-254012P-HT	EFE-254012-HT	11,4	22,8	34,2	39,9	51,4	57,1	62,8	87,9
AR-254016P-HT	EFE-254016-HT	13,1	26,2	39,3	45,8	58,9	65,5	72,0	100,8
AR-256012P-HT	EFE-256012-HT	14,5	29,0	43,6	50,8	65,3	72,6	79,9	111,8
AR-304020P-HT	EFE-304020-HT	16,2	32,3	48,5	56,6	72,7	80,8	88,9	124,4
AQ-363609P-HT	EFE-363609-HT	11,5	23,0	34,6	40,3	51,8	57,6	63,4	88,7
AR-406025P-HT	EFE-406025-HT	25,2	50,3	75,5	88,1	113,3	125,8	138,4	193,8
AQ-414012P-HT	EFE-414012-HT	14,6	29,1	43,7	51,0	65,5	72,8	80,1	112,1
AQ-414020P-HT	EFE-414020-HT	18,3	36,6	55,0	64,1	82,4	91,6	100,8	141,1

Enclosure types (polyester)		Maximum power dissipation (W) – Tamb. up to **55**°C							
		INTERNAL TEMP.65°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)	INTERNAL TEMP.127°C (T4/T135°C)
AQ-080806P-HT	EFE-080806-HT	1,7	2,6	4,4	5,2	7,0	7,8	8,7	12,5
AQ-080808P-HT	EFE-080808-HT	2,3	3,4	5,7	6,8	9,1	10,2	11,4	16,2
AR-081106P-HT	EFE-081106-HT	2,1	3,2	5,3	6,4	8,5	9,6	10,7	15,2
AR-081108P-HT	EFE-081108-HT	2,8	4,2	7,0	8,4	11,2	12,6	13,9	19,8
AR-081606P-HT	EFE-081606-HT	2,9	4,3	7,2	8,7	11,6	13,0	14,5	20,6
AR-081608P-HT	EFE-081608-HT	3,4	5,1	8,5	10,2	13,7	15,4	17,1	24,3
AR-081906P-HT	EFE-081906-HT	3,2	4,8	8,0	9,6	12,8	14,4	16,0	22,8
AR-081908P-HT	EFE-081908-HT	3,8	5,7	9,4	11,3	15,1	17,0	18,8	26,8
AR-082306P-HT	EFE-082306-HT	3,6	5,4	9,0	10,8	14,4	16,2	18,0	25,6
AR-082308P-HT	EFE-082308-HT	4,2	6,3	10,6	12,7	16,9	19,0	21,1	30,0
AQ-121209P-HT	EFE-121209-HT	4,0	6,0	10,0	12,0	15,9	17,9	19,9	28,3
AR-122209P-HT	EFE-122209-HT	5,4	8,1	13,5	16,2	21,6	24,3	27,0	38,3
AQ-161609P-HT	EFE-161609-HT	5,2	7,8	13,0	15,6	20,8	23,4	26,0	36,9
AR-162609P-HT	EFE-162609-HT	6,7	10,1	16,8	20,1	26,8	30,2	33,5	47,6
AR-163609P-HT	EFE-163609-HT	8,1	12,2	20,3	24,3	32,4	36,5	40,5	57,5
AR-165609P-HT	EFE-165609-HT	10,7	16,0	26,7	32,0	42,7	48,1	53,4	75,8
AQ-202017P-HT	EFE-202017-HT	9,0	13,5	22,4	26,9	35,9	40,4	44,9	63,7
AR-203017P-HT	EFE-203017-HT	10,4	15,7	26,1	31,3	41,7	47,0	52,2	74,0
AQ-252612P-HT	EFE-252612-HT	9,4	14,1	23,5	28,2	37,6	42,4	47,1	66,8
AQ-252616P-HT	EFE-252616-HT	10,4	15,6	26,0	31,1	41,5	46,7	51,9	73,7
AR-254012P-HT	EFE-254012-HT	11,4	17,1	28,5	34,2	45,7	51,4	57,1	81,0
AR-254016P-HT	EFE-254016-HT	13,1	19,6	32,7	39,3	52,4	58,9	65,5	92,9
AR-256012P-HT	EFE-256012-HT	14,5	21,8	36,3	43,6	58,1	65,3	72,6	103,0
AR-304020P-HT	EFE-304020-HT	16,2	24,2	40,4	48,5	64,7	72,7	80,8	114,7
AQ-363609P-HT	EFE-363609-HT	11,5	17,3	28,8	34,6	46,1	51,8	57,6	81,8
AR-406025P-HT	EFE-406025-HT	25,2	37,8	62,9	75,5	100,7	113,3	125,8	178,6
AQ-414012P-HT	EFE-414012-HT	14,6	21,8	36,4	43,7	58,2	65,5	72,8	103,0
AQ-414020P-HT	EFE-414020-HT	18,3	27,5	45,8	55,0	73,3	82,4	91,6	130,0

Enclosure types (polyester)		Maximum power dissipation (W) – Tamb. up to **60**°C						
		INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)	INTERNAL TEMP.127°C (T4/T135°C)
AQ-080806P-HT	EFE-080806-HT	1,7	3,5	4,4	6,1	7,0	7,8	11,7
AQ-080808P-HT	EFE-080808-HT	2,3	4,6	5,7	8,0	9,1	10,2	15,2
AR-081106P-HT	EFE-081106-HT	2,1	4,3	5,3	7,5	8,5	9,6	14,3
AR-081108P-HT	EFE-081108-HT	2,8	5,6	7,0	9,8	11,2	12,6	18,7
AR-081606P-HT	EFE-081606-HT	2,9	5,8	7,2	10,1	11,6	13,0	19,4
AR-081608P-HT	EFE-081608-HT	3,4	6,8	8,5	11,9	13,7	15,4	22,9
AR-081906P-HT	EFE-081906-HT	3,2	6,4	8,0	11,2	12,8	14,4	21,4
AR-081908P-HT	EFE-081908-HT	3,8	7,5	9,4	13,2	15,1	17,0	25,3
AR-082306P-HT	EFE-082306-HT	3,6	7,2	9,0	12,6	14,4	16,2	24,1
AR-082308P-HT	EFE-082308-HT	4,2	8,5	10,6	14,8	16,9	19,0	28,3
AQ-121209P-HT	EFE-121209-HT	4,0	8,0	10,0	14,0	15,9	17,9	26,7
AR-122209P-HT	EFE-122209-HT	5,4	10,8	13,5	18,9	21,6	24,3	36,2
AQ-161609P-HT	EFE-161609-HT	5,2	10,4	13,0	18,2	20,8	23,4	34,8
AR-162609P-HT	EFE-162609-HT	6,7	13,4	16,8	23,5	26,8	30,2	44,9
AR-163609P-HT	EFE-163609-HT	8,1	16,2	20,3	28,4	32,4	36,5	54,2
AR-165609P-HT	EFE-165609-HT	10,7	21,4	26,7	37,4	42,7	48,1	71,5
AQ-202017P-HT	EFE-202017-HT	9,0	18,0	22,4	31,4	35,9	40,4	60,1
AR-203017P-HT	EFE-203017-HT	10,4	20,9	26,1	36,5	41,7	47,0	69,9
AQ-252612P-HT	EFE-252612-HT	9,4	18,8	23,5	32,9	37,6	42,4	63,0
AQ-252616P-HT	EFE-252616-HT	10,4	20,8	26,0	36,3	41,5	46,7	69,5
AR-254012P-HT	EFE-254012-HT	11,4	22,8	28,5	39,9	45,7	51,4	76,5
AR-254016P-HT	EFE-254016-HT	13,1	26,2	32,7	45,8	52,4	58,9	87,7
AR-256012P-HT	EFE-256012-HT	14,5	29,0	36,3	50,8	58,1	65,3	97,2
AR-304020P-HT	EFE-304020-HT	16,2	32,3	40,4	56,6	64,7	72,7	108,3
AQ-363609P-HT	EFE-363609-HT	11,5	23,0	28,8	40,3	46,1	51,8	77,1
AR-406025P-HT	EFE-406025-HT	25,2	50,3	62,9	88,1	100,7	113,3	168,7
AQ-414012P-HT	EFE-414012-HT	14,6	29,1	36,4	51,0	58,2	65,5	97,5
AQ-414020P-HT	EFE-414020-HT	18,3	36,6	45,8	64,1	73,3	82,4	122,7

Enclosure types (polyester)		Maximum power dissipation (W) Tamb. up to **95**°C		
		INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)	INTERNAL TEMP.127°C (T4/T135°C)
AQ-080806P-HT	EFE-080806-HT	0,9	1,7	5,6
AQ-080808P-HT	EFE-080808-HT	1,1	2,3	7,3
AR-081106P-HT	EFE-081106-HT	1,1	2,1	6,5
AR-081108P-HT	EFE-081108-HT	1,4	2,8	9,0
AR-081606P-HT	EFE-081606-HT	1,4	2,9	9,2
AR-081608P-HT	EFE-081608-HT	1,7	3,4	10,9
AR-081906P-HT	EFE-081906-HT	1,6	3,2	10,2
AR-081908P-HT	EFE-081908-HT	1,9	3,8	12,1
AR-082306P-HT	EFE-082306-HT	1,8	3,6	11,5
AR-082308P-HT	EFE-082308-HT	2,1	4,2	13,5
AQ-121209P-HT	EFE-121209-HT	2,0	4,0	12,8
AR-122209P-HT	EFE-122209-HT	2,7	5,4	17,3
AQ-161609P-HT	EFE-161609-HT	2,6	5,2	16,6
AR-162609P-HT	EFE-162609-HT	3,4	6,7	21,5
AR-163609P-HT	EFE-163609-HT	4,1	8,1	26,0
AR-165609P-HT	EFE-165609-HT	5,3	10,7	34,2
AQ-202017P-HT	EFE-202017-HT	4,5	9,0	28,7
AR-203017P-HT	EFE-203017-HT	5,2	10,4	33,4
AQ-252612P-HT	EFE-252612-HT	4,7	9,4	30,1
AQ-252616P-HT	EFE-252616-HT	5,2	10,4	33,2
AR-254012P-HT	EFE-254012-HT	5,7	11,4	36,5
AR-254016P-HT	EFE-254016-HT	6,5	13,1	41,9
AR-256012P-HT	EFE-256012-HT	7,3	14,5	46,4
AR-304020P-HT	EFE-304020-HT	8,1	16,2	51,8
AQ-363609P-HT	EFE-363609-HT	5,8	11,5	36,8
AR-406025P-HT	EFE-406025-HT	12,6	25,2	80,6
AQ-414012P-HT	EFE-414012-HT	7,3	14,6	46,6
AQ-414020P-HT	EFE-414020-HT	9,2	18,3	58,6

Power dissipation – HT aluminium alloy enclosures

Enclosure types (aluminium)		Maximum power dissipation (W) – Tamb. up to **40**°C							
		INTERNAL TEMP.60°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)	INTERNAL TEMP.130°C (T4/T135°C)
AQ-080806AL-HT	EFXE-080806AL-HT	5,2	7,8	10,4	11,7	14,3	15,6	16,9	23,4
AR-081306AL-HT	EFXE-081306AL-HT	7,0	10,6	14,1	15,9	19,4	21,2	23,0	31,8
AR-081806AL-HT	EFXE-081806AL-HT	8,9	13,3	17,8	20,0	24,5	26,7	28,9	40,0
AR-082505AL-HT	EFXE-082505AL-HT	10,9	16,4	21,9	24,7	30,1	32,9	35,6	49,4
AQ-101008AL-HT	EFXE-101008AL-HT	8,7	13,0	17,4	19,6	23,9	26,1	28,3	39,2
AR-101608AL-HT	EFXE-101608AL-HT	11,5	17,3	23,1	26,0	31,8	34,7	37,6	52,0
AR-102008AL-HT	EFXE-102008AL-HT	13,4	20,1	26,8	30,2	36,9	40,3	43,6	60,4
AQ-121208AL-HT	EFXE-121208AL-HT	10,8	16,2	21,6	24,3	29,7	32,4	35,1	48,6
AQ-121209AL-HT	EFXE-121209AL-HT	11,6	17,5	23,3	26,2	32,1	35,0	37,9	52,5
AR-122208AL-HT	EFXE-122208AL-HT	15,6	23,5	31,3	35,3	43,1	47,0	50,9	70,6
AR-122209AL-HT	EFXE-122209AL-HT	16,8	25,3	33,7	37,9	46,3	50,6	54,8	75,9
AR-123608AL-HT	EFXE-123608AL-HT	22,3	33,5	44,7	50,3	61,5	67,1	72,7	100,7
AQ-141409AL-HT	EFXE-141409AL-HT	13,7	20,6	27,5	31,0	37,9	41,3	44,8	62,0
AR-142009AL-HT	EFXE-142009AL-HT	17,1	25,7	34,2	38,5	47,1	51,4	55,7	77,1
AQ-161609AL-HT	EFXE-161609AL-HT	16,1	24,1	32,2	36,2	44,2	48,3	52,3	72,4
AR-162609AL-HT	EFXE-162609AL-HT	21,9	32,8	43,8	49,3	60,2	65,7	71,2	98,6
AR-163609AL-HT	EFXE-163609AL-HT	27,5	41,3	55,1	62,0	75,7	82,6	89,5	124,0
AR-165609AL-HT	EFXE-165609AL-HT	38,4	57,7	76,9	86,6	105,8	115,4	125,0	173,2
AQ-181810AL-HT	EFXE-181810AL-HT	19,7	29,6	39,5	44,4	54,3	59,2	64,2	88,8
AR-182810AL-HT	EFXE-182810AL-HT	26,1	39,1	52,2	58,7	71,8	78,3	84,8	117,5
AR-102311AL-HT	EFXE-102311AL-HT	18,2	27,3	36,5	41,0	50,1	54,7	59,3	82,1
AR-202311AL-HT	EFXE-202311AL-HT	26,1	39,1	52,2	58,7	71,7	78,3	84,8	117,4
AR-202318AL-HT	EFXE-202318AL-HT	35,9	53,9	71,8	80,8	98,8	107,8	116,8	161,7
AR-232811AL-HT	EFXE-232811AL-HT	31,6	47,5	63,3	71,3	87,1	95,0	103,0	142,6
AR-233311AL-HT	EFXE-233311AL-HT	35,3	52,9	70,6	79,4	97,0	105,9	114,7	158,8
AR-233318AL-HT	EFXE-233318AL-HT	47,5	71,3	95,1	107,0	130,8	142,7	154,6	214,1
AR-234011AL-HT	EFXE-234011AL-HT	40,2	60,4	80,5	90,6	110,7	120,8	130,9	181,2
AR-234023AL-HT	EFXE-234023AL-HT	62,2	93,3	124,5	140,0	171,2	186,7	202,3	280,1
AR-236011AL-HT	EFXE-236011AL-HT	54,1	81,2	108,3	121,9	148,9	162,5	176,0	243,8
AR-314011AL-HT	EFXE-314011AL-HT	48,6	72,9	97,2	109,3	133,6	145,8	157,9	218,7
AR-314014AL-HT	EFXE-314014AL-HT	54,9	82,4	109,9	123,7	151,2	164,9	178,7	247,4
AR-314018AL-HT	EFXE-314018AL-HT	63,8	95,7	127,6	143,5	175,4	191,4	207,3	287,1
AR-314023AL-HT	EFXE-314023AL-HT	73,5	110,3	147,1	165,5	202,3	220,7	239,1	331,0
AR-316011AL-HT	EFXE-316011AL-HT	64,0	96,0	128,1	144,1	176,1	192,1	208,1	288,2
AR-316018AL-HT	EFXE-316018AL-HT	82,7	124,1	165,5	186,2	227,6	248,3	268,9	372,4
AQ-606020AL-HT	EFXE-606020AL-HT	129,1	193,7	258,3	290,5	355,1	387,4	419,7	581,1

Enclosure types (aluminium)		Maximum power dissipation (W) – Tamb. up to **50**°C							
		INTERNAL TEMP.60°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)	INTERNAL TEMP.130°C (T4/T135°C)
AQ-080806AL-HT	EFXE-080806AL-HT	2,6	5,2	7,8	9,1	11,7	13,0	14,3	20,8
AR-081306AL-HT	EFXE-081306AL-HT	3,5	7,0	10,6	12,3	15,9	17,7	19,4	28,3
AR-081806AL-HT	EFXE-081806AL-HT	4,4	8,9	13,3	15,5	20,0	22,2	24,5	35,6
AR-082505AL-HT	EFXE-082505AL-HT	5,4	10,9	16,4	19,2	24,7	27,4	30,1	43,9
AQ-101008AL-HT	EFXE-101008AL-HT	4,3	8,7	13,0	15,2	19,6	21,7	23,9	34,8
AR-101608AL-HT	EFXE-101608AL-HT	5,7	11,5	17,3	20,2	26,0	28,9	31,8	46,2
AR-102008AL-HT	EFXE-102008AL-HT	6,7	13,4	20,1	23,5	30,2	33,5	36,9	53,7
AQ-121208AL-HT	EFXE-121208AL-HT	5,4	10,8	16,2	18,9	24,3	27,0	29,7	43,2
AQ-121209AL-HT	EFXE-121209AL-HT	5,8	11,6	17,5	20,4	26,2	29,2	32,1	46,7
AR-122208AL-HT	EFXE-122208AL-HT	7,8	15,6	23,5	27,4	35,3	39,2	43,1	62,7
AR-122209AL-HT	EFXE-122209AL-HT	8,4	16,8	25,3	29,5	37,9	42,1	46,3	67,4
AR-123608AL-HT	EFXE-123608AL-HT	11,1	22,3	33,5	39,1	50,3	55,9	61,5	89,5
AQ-141409AL-HT	EFXE-141409AL-HT	6,8	13,7	20,6	24,1	31,0	34,4	37,9	55,1
AR-142009AL-HT	EFXE-142009AL-HT	8,5	17,1	25,7	30,0	38,5	42,8	47,1	68,5
AQ-161609AL-HT	EFXE-161609AL-HT	8,0	16,1	24,1	28,1	36,2	40,2	44,2	64,4
AR-162609AL-HT	EFXE-162609AL-HT	10,9	21,9	32,8	38,3	49,3	54,8	60,2	87,6
AR-163609AL-HT	EFXE-163609AL-HT	13,7	27,5	41,3	48,2	62,0	68,9	75,7	110,2
AR-165609AL-HT	EFXE-165609AL-HT	19,2	38,4	57,7	67,3	86,6	96,2	105,8	153,9
AQ-181810AL-HT	EFXE-181810AL-HT	9,8	19,7	29,6	34,5	44,4	49,3	54,3	79,0
AR-182810AL-HT	EFXE-182810AL-HT	13,0	26,1	39,1	45,7	58,7	65,2	71,8	104,4
AR-102311AL-HT	EFXE-102311AL-HT	9,1	18,2	27,3	31,9	41,0	45,6	50,1	73,0
AR-202311AL-HT	EFXE-202311AL-HT	13,0	26,1	39,1	45,6	58,7	65,2	71,7	104,4
AR-202318AL-HT	EFXE-202318AL-HT	17,9	35,9	53,9	62,8	80,8	89,8	98,8	143,7
AR-232811AL-HT	EFXE-232811AL-HT	15,8	31,6	47,5	55,4	71,3	79,2	87,1	126,7
AR-233311AL-HT	EFXE-233311AL-HT	17,6	35,3	52,9	61,7	79,4	88,2	97,0	141,2
AR-233318AL-HT	EFXE-233318AL-HT	23,7	47,5	71,3	83,2	107,0	118,9	130,8	190,3
AR-234011AL-HT	EFXE-234011AL-HT	20,1	40,2	60,4	70,5	90,6	100,7	110,7	161,1
AR-234023AL-HT	EFXE-234023AL-HT	31,1	62,2	93,3	108,9	140,0	155,6	171,2	249,0
AR-236011AL-HT	EFXE-236011AL-HT	27,0	54,1	81,2	94,8	121,9	135,4	148,9	216,7
AR-314011AL-HT	EFXE-314011AL-HT	24,3	48,6	72,9	85,0	109,3	121,5	133,6	194,4
AR-314014AL-HT	EFXE-314014AL-HT	27,4	54,9	82,4	96,2	123,7	137,4	151,2	219,9
AR-314018AL-HT	EFXE-314018AL-HT	31,9	63,8	95,7	111,6	143,5	159,5	175,4	255,2
AR-314023AL-HT	EFXE-314023AL-HT	36,7	73,5	110,3	128,7	165,5	183,9	202,3	294,2
AR-316011AL-HT	EFXE-316011AL-HT	32,0	64,0	96,0	112,0	144,1	160,1	176,1	256,2
AR-316018AL-HT	EFXE-316018AL-HT	41,3	82,7	124,1	144,8	186,2	206,9	227,6	331,0
AQ-606020AL-HT	EFXE-606020AL-HT	64,5	129,1	193,7	226,0	290,5	322,8	355,1	516,6

Enclosure types (aluminium)		Maximum power dissipation (W) – Tamb. up to **55**°C							
		INTERNAL TEMP.65°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)	INTERNAL TEMP.130°C (T4/T135°C)
AQ-080806AL-HT	EFXE-080806AL-HT	2,6	3,9	6,5	7,8	10,4	11,7	13,0	19,5
AR-081306AL-HT	EFXE-081306AL-HT	3,5	5,3	8,8	10,6	14,1	15,9	17,7	26,5
AR-081806AL-HT	EFXE-081806AL-HT	4,4	6,6	11,1	13,3	17,8	20,0	22,2	33,4
AR-082505AL-HT	EFXE-082505AL-HT	5,4	8,2	13,7	16,4	21,9	24,7	27,4	41,1
AQ-101008AL-HT	EFXE-101008AL-HT	4,3	6,5	10,8	13,0	17,4	19,6	21,7	32,6
AR-101608AL-HT	EFXE-101608AL-HT	5,7	8,6	14,4	17,3	23,1	26,0	28,9	43,3
AR-102008AL-HT	EFXE-102008AL-HT	6,7	10,0	16,7	20,1	26,8	30,2	33,5	50,3
AQ-121208AL-HT	EFXE-121208AL-HT	5,4	8,1	13,5	16,2	21,6	24,3	27,0	40,5
AQ-121209AL-HT	EFXE-121209AL-HT	5,8	8,7	14,6	17,5	23,3	26,2	29,2	43,8
AR-122208AL-HT	EFXE-122208AL-HT	7,8	11,7	19,6	23,5	31,3	35,3	39,2	58,8
AR-122209AL-HT	EFXE-122209AL-HT	8,4	12,6	21,0	25,3	33,7	37,9	42,1	63,2
AR-123608AL-HT	EFXE-123608AL-HT	11,1	16,7	27,9	33,5	44,7	50,3	55,9	83,9
AQ-141409AL-HT	EFXE-141409AL-HT	6,8	10,3	17,2	20,6	27,5	31,0	34,4	51,7
AR-142009AL-HT	EFXE-142009AL-HT	8,5	12,8	21,4	25,7	34,2	38,5	42,8	64,3
AQ-161609AL-HT	EFXE-161609AL-HT	8,0	12,0	20,1	24,1	32,2	36,2	40,2	60,4
AR-162609AL-HT	EFXE-162609AL-HT	10,9	16,4	27,4	32,8	43,8	49,3	54,8	82,2
AR-163609AL-HT	EFXE-163609AL-HT	13,7	20,6	34,4	41,3	55,1	62,0	68,9	103,3
AR-165609AL-HT	EFXE-165609AL-HT	19,2	28,8	48,1	57,7	76,9	86,6	96,2	144,3
AQ-181810AL-HT	EFXE-181810AL-HT	9,8	14,8	24,6	29,6	39,5	44,4	49,3	74,0
AR-182810AL-HT	EFXE-182810AL-HT	13,0	19,5	32,6	39,1	52,2	58,7	65,2	97,9
AR-102311AL-HT	EFXE-102311AL-HT	9,1	13,6	22,8	27,3	36,5	41,0	45,6	68,4
AR-202311AL-HT	EFXE-202311AL-HT	13,0	19,5	32,6	39,1	52,2	58,7	65,2	97,9
AR-202318AL-HT	EFXE-202318AL-HT	17,9	26,9	44,9	53,9	71,8	80,8	89,8	134,7
AR-232811AL-HT	EFXE-232811AL-HT	15,8	23,7	39,6	47,5	63,3	71,3	79,2	118,8
AR-233311AL-HT	EFXE-233311AL-HT	17,6	26,4	44,1	52,9	70,6	79,4	88,2	132,3
AR-233318AL-HT	EFXE-233318AL-HT	23,7	35,6	59,4	71,3	95,1	107,0	118,9	178,4
AR-234011AL-HT	EFXE-234011AL-HT	20,1	30,2	50,3	60,4	80,5	90,6	100,7	151,0
AR-234023AL-HT	EFXE-234023AL-HT	31,1	46,6	77,8	93,3	124,5	140,0	155,6	233,4
AR-236011AL-HT	EFXE-236011AL-HT	27,0	40,6	67,7	81,2	108,3	121,9	135,4	203,1
AR-314011AL-HT	EFXE-314011AL-HT	24,3	36,4	60,7	72,9	97,2	109,3	121,5	182,3
AR-314014AL-HT	EFXE-314014AL-HT	27,4	41,2	68,7	82,4	109,9	123,7	137,4	206,2
AR-314018AL-HT	EFXE-314018AL-HT	31,9	47,8	79,7	95,7	127,6	143,5	159,5	239,2
AR-314023AL-HT	EFXE-314023AL-HT	36,7	55,1	91,9	110,3	147,1	165,5	183,9	275,8
AR-316011AL-HT	EFXE-316011AL-HT	32,0	48,0	80,0	96,0	128,1	144,1	160,1	240,1
AR-316018AL-HT	EFXE-316018AL-HT	41,3	62,0	103,4	124,1	165,5	186,2	206,9	310,3
AQ-606020AL-HT	EFXE-606020AL-HT	64,5	96,8	161,4	193,7	258,3	290,5	322,8	484,3

Enclosure types (aluminium)		Maximum power dissipation (W) – Tamb. up to **60**°C						
		INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)	INTERNAL TEMP.130°C (T4/T135°C)
AQ-080806AL-HT	EFXE-080806AL-HT	2,6	5,2	6,5	9,1	10,4	11,7	18,2
AR-081306AL-HT	EFXE-081306AL-HT	3,5	7,0	8,8	12,3	14,1	15,9	24,7
AR-081806AL-HT	EFXE-081806AL-HT	4,4	8,9	11,1	15,5	17,8	20,0	31,1
AR-082505AL-HT	EFXE-082505AL-HT	5,4	10,9	13,7	19,2	21,9	24,7	38,4
AQ-101008AL-HT	EFXE-101008AL-HT	4,3	8,7	10,8	15,2	17,4	19,6	30,4
AR-101608AL-HT	EFXE-101608AL-HT	5,7	11,5	14,4	20,2	23,1	26,0	40,5
AR-102008AL-HT	EFXE-102008AL-HT	6,7	13,4	16,7	23,5	26,8	30,2	47,0
AQ-121208AL-HT	EFXE-121208AL-HT	5,4	10,8	13,5	18,9	21,6	24,3	37,8
AQ-121209AL-HT	EFXE-121209AL-HT	5,8	11,6	14,6	20,4	23,3	26,2	40,8
AR-122208AL-HT	EFXE-122208AL-HT	7,8	15,6	19,6	27,4	31,3	35,3	54,9
AR-122209AL-HT	EFXE-122209AL-HT	8,4	16,8	21,0	29,5	33,7	37,9	59,0
AR-123608AL-HT	EFXE-123608AL-HT	11,1	22,3	27,9	39,1	44,7	50,3	78,3
AQ-141409AL-HT	EFXE-141409AL-HT	6,8	13,7	17,2	24,1	27,5	31,0	48,2
AR-142009AL-HT	EFXE-142009AL-HT	8,5	17,1	21,4	30,0	34,2	38,5	60,0
AQ-161609AL-HT	EFXE-161609AL-HT	8,0	16,1	20,1	28,1	32,2	36,2	56,3
AR-162609AL-HT	EFXE-162609AL-HT	10,9	21,9	27,4	38,3	43,8	49,3	76,7
AR-163609AL-HT	EFXE-163609AL-HT	13,7	27,5	34,4	48,2	55,1	62,0	96,4
AR-165609AL-HT	EFXE-165609AL-HT	19,2	38,4	48,1	67,3	76,9	86,6	134,7
AQ-181810AL-HT	EFXE-181810AL-HT	9,8	19,7	24,6	34,5	39,5	44,4	69,1
AR-182810AL-HT	EFXE-182810AL-HT	13,0	26,1	32,6	45,7	52,2	58,7	91,4
AR-102311AL-HT	EFXE-102311AL-HT	9,1	18,2	22,8	31,9	36,5	41,0	63,8
AR-202311AL-HT	EFXE-202311AL-HT	13,0	26,1	32,6	45,6	52,2	58,7	91,3
AR-202318AL-HT	EFXE-202318AL-HT	17,9	35,9	44,9	62,8	71,8	80,8	125,7
AR-232811AL-HT	EFXE-232811AL-HT	15,8	31,6	39,6	55,4	63,3	71,3	110,9
AR-233311AL-HT	EFXE-233311AL-HT	17,6	35,3	44,1	61,7	70,6	79,4	123,5
AR-233318AL-HT	EFXE-233318AL-HT	23,7	47,5	59,4	83,2	95,1	107,0	166,5
AR-234011AL-HT	EFXE-234011AL-HT	20,1	40,2	50,3	70,5	80,5	90,6	141,0
AR-234023AL-HT	EFXE-234023AL-HT	31,1	62,2	77,8	108,9	124,5	140,0	217,9
AR-236011AL-HT	EFXE-236011AL-HT	27,0	54,1	67,7	94,8	108,3	121,9	189,6
AR-314011AL-HT	EFXE-314011AL-HT	24,3	48,6	60,7	85,0	97,2	109,3	170,1
AR-314014AL-HT	EFXE-314014AL-HT	27,4	54,9	68,7	96,2	109,9	123,7	192,4
AR-314018AL-HT	EFXE-314018AL-HT	31,9	63,8	79,7	111,6	127,6	143,5	223,3
AR-314023AL-HT	EFXE-314023AL-HT	36,7	73,5	91,9	128,7	147,1	165,5	257,4
AR-316011AL-HT	EFXE-316011AL-HT	32,0	64,0	80,0	112,0	128,1	144,1	224,1
AR-316018AL-HT	EFXE-316018AL-HT	41,3	82,7	103,4	144,8	165,5	186,2	289,6
AQ-606020AL-HT	EFXE-606020AL-HT	64,5	129,1	161,4	226,0	258,3	290,5	452,0

Enclosure types (aluminium)		Maximum power dissipation (W) Tamb. up to **95**°C		
		INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)	INTERNAL TEMP.130°C (T4/T135°C)
AQ-080806AL-HT	EFXE-080806AL-HT	1,3	2,6	9,1
AR-081306AL-HT	EFXE-081306AL-HT	1,7	3,5	12,3
AR-081806AL-HT	EFXE-081806AL-HT	2,2	4,4	15,5
AR-082505AL-HT	EFXE-082505AL-HT	2,7	5,4	19,2
AQ-101008AL-HT	EFXE-101008AL-HT	2,1	4,3	15,2
AR-101608AL-HT	EFXE-101608AL-HT	2,8	5,7	20,2
AR-102008AL-HT	EFXE-102008AL-HT	3,3	6,7	23,5
AQ-121208AL-HT	EFXE-121208AL-HT	2,7	5,4	18,9
AQ-121209AL-HT	EFXE-121209AL-HT	2,9	5,8	20,4
AR-122208AL-HT	EFXE-122208AL-HT	3,9	7,8	27,4
AR-122209AL-HT	EFXE-122209AL-HT	4,2	8,4	29,5
AR-123608AL-HT	EFXE-123608AL-HT	5,5	11,1	39,1
AQ-141409AL-HT	EFXE-141409AL-HT	3,4	6,8	24,1
AR-142009AL-HT	EFXE-142009AL-HT	4,2	8,5	30,0
AQ-161609AL-HT	EFXE-161609AL-HT	4,0	8,0	28,1
AR-162609AL-HT	EFXE-162609AL-HT	5,4	10,9	38,3
AR-163609AL-HT	EFXE-163609AL-HT	6,8	13,7	48,2
AR-165609AL-HT	EFXE-165609AL-HT	9,6	19,2	67,3
AQ-181810AL-HT	EFXE-181810AL-HT	4,9	9,8	34,5
AR-182810AL-HT	EFXE-182810AL-HT	6,5	13,0	45,7
AR-102311AL-HT	EFXE-102311AL-HT	4,5	9,1	31,9
AR-202311AL-HT	EFXE-202311AL-HT	6,5	13,0	45,6
AR-202318AL-HT	EFXE-202318AL-HT	8,9	17,9	62,8
AR-232811AL-HT	EFXE-232811AL-HT	7,9	15,8	55,4
AR-233311AL-HT	EFXE-233311AL-HT	8,8	17,6	61,7
AR-233318AL-HT	EFXE-233318AL-HT	11,8	23,7	83,2
AR-234011AL-HT	EFXE-234011AL-HT	10,0	20,1	70,5
AR-234023AL-HT	EFXE-234023AL-HT	15,5	31,1	108,9
AR-236011AL-HT	EFXE-236011AL-HT	13,5	27,0	94,8
AR-314011AL-HT	EFXE-314011AL-HT	12,1	24,3	85,0
AR-314014AL-HT	EFXE-314014AL-HT	13,7	27,4	96,2
AR-314018AL-HT	EFXE-314018AL-HT	15,9	31,9	111,6
AR-314023AL-HT	EFXE-314023AL-HT	18,3	36,7	128,7
AR-316011AL-HT	EFXE-316011AL-HT	16,0	32,0	112,0
AR-316018AL-HT	EFXE-316018AL-HT	20,6	41,3	144,8
AQ-606020AL-HT	EFXE-606020AL-HT	32,2	64,5	226,0

Power dissipation – Glass fiber reinforced polyester resin enclosures

Enclosure types (polyester)		Maximum power dissipation (W) – Tamb. up to **40**°C						
		INTERNAL TEMP.60°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
AQ-080806P	EFE-080806	3,4	5,2	6,9	7,8	9,5	10,4	11,3
AQ-080808P	EFE-080808	4,5	6,8	9,1	10,2	12,5	13,6	14,7
AR-081106P	EFE-081106	4,2	6,4	8,5	9,6	11,7	12,8	13,8
AR-081606P	EFE-081606	5,7	8,6	11,5	13,0	15,9	17,3	18,8
AR-081906P	EFE-081906	6,4	9,6	12,8	14,4	17,6	19,2	20,8
AQ-121209P	EFE-121209	7,9	11,9	15,9	17,9	21,9	23,9	25,9
AR-122209P	EFE-122209	10,8	16,2	21,6	24,3	29,7	32,4	35,1
AQ-161609P	EFE-161609	10,3	15,5	20,7	23,3	28,5	31,1	33,7
AR-162609P	EFE-162609	13,4	20,1	26,8	30,1	36,8	40,2	43,5
AR-163609P	EFE-163609	16,2	24,3	32,4	36,4	44,5	48,6	52,6
AQ-252612P	EFE-252612	18,8	28,2	37,6	42,3	51,7	56,4	61,1
AQ-252616P	EFE-252616	21,7	32,6	43,5	49,0	59,9	65,3	70,8
AR-254012P	EFE-254012	23,9	35,9	47,9	53,9	65,9	71,8	77,8
AR-254016P	EFE-254016	27,4	41,2	54,9	61,8	75,6	82,4	89,3
AR-256012P	EFE-256012	29,0	43,5	58,0	65,3	79,8	87,1	94,3
AQ-414012P	EFE-414012	29,1	43,6	58,2	65,5	80,0	87,3	94,6
AQ-414016P	EFE-414016	32,9	49,4	65,9	74,1	90,6	98,8	107,0

Enclosure types (polyester)		Maximum power dissipation (W) – Tamb. up to **50**°C						
		INTERNAL TEMP.60°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
AQ-080806P	EFE-080806	1,7	3,4	5,2	6,0	7,8	8,7	9,5
AQ-080808P	EFE-080808	2,2	4,5	6,8	7,9	10,2	11,3	12,5
AR-081106P	EFE-081106	2,1	4,2	6,4	7,4	9,6	10,6	11,7
AR-081606P	EFE-081606	2,8	5,7	8,6	10,1	13,0	14,4	15,9
AR-081906P	EFE-081906	3,2	6,4	9,6	11,2	14,4	16,0	17,6
AQ-121209P	EFE-121209	3,9	7,9	11,9	13,9	17,9	19,9	21,9
AR-122209P	EFE-122209	5,4	10,8	16,2	18,9	24,3	27,0	29,7
AQ-161609P	EFE-161609	5,1	10,3	15,5	18,1	23,3	25,9	28,5
AR-162609P	EFE-162609	6,7	13,4	20,1	23,4	30,1	33,5	36,8
AR-163609P	EFE-163609	8,1	16,2	24,3	28,3	36,4	40,5	44,5
AQ-252612P	EFE-252612	9,4	18,8	28,2	32,9	42,3	47,0	51,7
AQ-252616P	EFE-252616	10,8	21,7	32,6	38,1	49,0	54,4	59,9
AR-254012P	EFE-254012	11,9	23,9	35,9	41,9	53,9	59,9	65,9
AR-254016P	EFE-254016	13,7	27,4	41,2	48,1	61,8	68,7	75,6
AR-256012P	EFE-256012	14,5	29,0	43,5	50,8	65,3	72,6	79,8
AQ-414012P	EFE-414012	14,5	29,1	43,6	50,9	65,5	72,7	80,0
AQ-414016P	EFE-414016	16,4	32,9	49,4	57,6	74,1	82,3	90,6

Enclosure types (polyester)		Maximum power dissipation (W) – Tamb. up to **55**°C						
		INTERNAL TEMP.65°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
AQ-080806P	EFE-080806	1,7	2,6	4,3	5,2	6,9	7,8	8,7
AQ-080808P	EFE-080808	2,2	3,4	5,6	6,8	9,1	10,2	11,3
AR-081106P	EFE-081106	2,1	3,2	5,3	6,4	8,5	9,6	10,6
AR-081606P	EFE-081606	2,8	4,3	7,2	8,6	11,5	13,0	14,4
AR-081906P	EFE-081906	3,2	4,8	8,0	9,6	12,8	14,4	16,0
AQ-121209P	EFE-121209	3,9	5,9	9,9	11,9	15,9	17,9	19,9
AR-122209P	EFE-122209	5,4	8,1	13,5	16,2	21,6	24,3	27,0
AQ-161609P	EFE-161609	5,1	7,7	12,9	15,5	20,7	23,3	25,9
AR-162609P	EFE-162609	6,7	10,0	16,7	20,1	26,8	30,1	33,5
AR-163609P	EFE-163609	8,1	12,1	20,2	24,3	32,4	36,4	40,5
AQ-252612P	EFE-252612	9,4	14,1	23,5	28,2	37,6	42,3	47,0
AQ-252616P	EFE-252616	10,8	16,3	27,2	32,6	43,5	49,0	54,4
AR-254012P	EFE-254012	11,9	17,9	29,9	35,9	47,9	53,9	59,9
AR-254016P	EFE-254016	13,7	20,6	34,3	41,2	54,9	61,8	68,7
AR-256012P	EFE-256012	14,5	21,7	36,3	43,5	58,0	65,3	72,6
AQ-414012P	EFE-414012	14,5	21,8	36,3	43,6	58,2	65,5	72,7
AQ-414016P	EFE-414016	16,4	24,7	41,1	49,4	65,9	74,1	82,3

Enclosure types (polyester)		Maximum power dissipation (W) – Tamb. up to **60**°C					
		INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
AQ-080806P	EFE-080806	1,7	3,4	4,3	6,0	6,9	7,8
AQ-080808P	EFE-080808	2,2	4,5	5,6	7,9	9,1	10,2
AR-081106P	EFE-081106	2,1	4,2	5,3	7,4	8,5	9,6
AR-081606P	EFE-081606	2,8	5,7	7,2	10,1	11,5	13,0
AR-081906P	EFE-081906	3,2	6,4	8,0	11,2	12,8	14,4
AQ-121209P	EFE-121209	3,9	7,9	9,9	13,9	15,9	17,9
AR-122209P	EFE-122209	5,4	10,8	13,5	18,9	21,6	24,3
AQ-161609P	EFE-161609	5,1	10,3	12,9	18,1	20,7	23,3
AR-162609P	EFE-162609	6,7	13,4	16,7	23,4	26,8	30,1
AR-163609P	EFE-163609	8,1	16,2	20,2	28,3	32,4	36,4
AQ-252612P	EFE-252612	9,4	18,8	23,5	32,9	37,6	42,3
AQ-252616P	EFE-252616	10,8	21,7	27,2	38,1	43,5	49,0
AR-254012P	EFE-254012	11,9	23,9	29,9	41,9	47,9	53,9
AR-254016P	EFE-254016	13,7	27,4	34,3	48,1	54,9	61,8
AR-256012P	EFE-256012	14,5	29,0	36,3	50,8	58,0	65,3
AQ-414012P	EFE-414012	14,5	29,1	36,3	50,9	58,2	65,5
AQ-414016P	EFE-414016	16,4	32,9	41,1	57,6	65,9	74,1

Enclosure types (polyester)		Maximum power dissipation (W) – Tamb. up to **95**°C	
		INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
AQ-080806P	EFE-080806	0,8	1,7
AQ-080808P	EFE-080808	1,1	2,2
AR-081106P	EFE-081106	1,0	2,1
AR-081606P	EFE-081606	1,4	2,8
AR-081906P	EFE-081906	1,6	3,2
AQ-121209P	EFE-121209	1,9	3,9
AR-122209P	EFE-122209	2,7	5,4
AQ-161609P	EFE-161609	2,5	5,1
AR-162609P	EFE-162609	3,3	6,7
AR-163609P	EFE-163609	4,0	8,1
AQ-252612P	EFE-252612	4,7	9,4
AQ-252616P	EFE-252616	5,4	10,8
AR-254012P	EFE-254012	5,9	11,9
AR-254016P	EFE-254016	6,8	13,7
AR-256012P	EFE-256012	7,2	14,5
AQ-414012P	EFE-414012	7,2	14,5
AQ-414016P	EFE-414016	8,2	16,4

Power dissipation – Aluminium alloy enclosures

Enclosure types (aluminium)		Maximum power dissipation (W) – Tamb. up to **40**°C						
		INTERNAL TEMP.60°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
AQ-080806AL	EFXE-080806AL	5,2	7,8	10,4	11,7	14,3	15,6	16,9
AR-081306AL	EFXE-081306AL	7,0	10,6	14,1	15,9	19,4	21,2	23,0
AR-081806AL	EFXE-081806AL	8,9	13,3	17,8	20,0	24,5	26,7	28,9
AR-081808AL	EFXE-081808AL	11,0	16,5	22,1	24,8	30,4	33,1	35,9
AR-082505AL	EFXE-082505AL	10,7	16,1	21,4	24,1	29,5	32,2	34,8
AR-082508AL	EFXE-082508AL	14,2	21,4	28,5	32,1	39,2	42,8	46,4
AQ-101008AL	EFXE-101008AL	8,7	13,0	17,4	19,6	23,9	26,1	28,3
AR-101508AL	EFXE-101508AL	11,1	16,6	22,2	24,9	30,5	33,3	36,0
AR-101608AL	EFXE-101608AL	11,5	17,3	23,1	26,0	31,8	34,7	37,6
AR-102008AL	EFXE-102008AL	13,4	20,1	26,8	30,2	36,9	40,3	43,6
AQ-121208AL	EFXE-121208AL	10,8	16,2	21,6	24,3	29,7	32,4	35,1
AR-122209AL	EFXE-122209AL	16,8	25,3	33,7	37,9	46,3	50,6	54,8
AQ-141409AL	EFXE-141409AL	13,7	20,6	27,5	31,0	37,9	41,3	44,8
AR-142009AL	EFXE-142009AL	17,1	25,7	34,2	38,5	47,1	51,4	55,7
AQ-161609AL	EFXE-161609AL	17,2	25,8	34,4	38,7	47,3	51,6	55,9
AR-162410AL	EFXE-162410AL	22,1	33,1	44,2	49,7	60,8	66,3	71,8
AR-162609AL	EFXE-162609AL	21,9	32,8	43,8	49,3	60,2	65,7	71,2
AQ-181810AL	EFXE-181810AL	19,7	29,6	39,5	44,4	54,3	59,2	64,2
AR-182810AL	EFXE-182810AL	26,1	39,1	52,2	58,7	71,8	78,3	84,8
AR-202311AL	EFXE-202311AL	25,8	38,7	51,6	58,0	71,0	77,4	83,9
AR-202318AL	EFXE-202318AL	35,5	53,3	71,1	80,0	97,8	106,7	115,6
AR-232811AL	EFXE-232811AL	31,6	47,5	63,3	71,3	87,1	95,0	103,0
AR-233312AL	EFXE-233312AL	37,0	55,6	74,1	83,4	101,9	111,2	120,5
AR-233318AL	EFXE-233318AL	47,5	71,3	95,1	107,0	130,8	142,7	154,6

Enclosure types (aluminium)		Maximum power dissipation (W) – Tamb. up to **50**°C						
		INTERNAL TEMP.60°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
AQ-080806AL	EFXE-080806AL	2,6	5,2	7,8	9,1	11,7	13,0	14,3
AR-081306AL	EFXE-081306AL	3,5	7,0	10,6	12,3	15,9	17,7	19,4
AR-081806AL	EFXE-081806AL	4,4	8,9	13,3	15,5	20,0	22,2	24,5
AR-081808AL	EFXE-081808AL	5,5	11,0	16,5	19,3	24,8	27,6	30,4
AR-082505AL	EFXE-082505AL	5,3	10,7	16,1	18,7	24,1	26,8	29,5
AR-082508AL	EFXE-082508AL	7,1	14,2	21,4	24,9	32,1	35,7	39,2
AQ-101008AL	EFXE-101008AL	4,3	8,7	13,0	15,2	19,6	21,7	23,9
AR-101508AL	EFXE-101508AL	5,5	11,1	16,6	19,4	24,9	27,7	30,5
AR-101608AL	EFXE-101608AL	5,7	11,5	17,3	20,2	26,0	28,9	31,8
AR-102008AL	EFXE-102008AL	6,7	13,4	20,1	23,5	30,2	33,5	36,9
AQ-121208AL	EFXE-121208AL	5,4	10,8	16,2	18,9	24,3	27,0	29,7
AR-122209AL	EFXE-122209AL	8,4	16,8	25,3	29,5	37,9	42,1	46,3
AQ-141409AL	EFXE-141409AL	6,8	13,7	20,6	24,1	31,0	34,4	37,9
AR-142009AL	EFXE-142009AL	8,5	17,1	25,7	30,0	38,5	42,8	47,1
AQ-161609AL	EFXE-161609AL	8,6	17,2	25,8	30,1	38,7	43,0	47,3
AR-162410AL	EFXE-162410AL	11,0	22,1	33,1	38,7	49,7	55,3	60,8
AR-162609AL	EFXE-162609AL	10,9	21,9	32,8	38,3	49,3	54,8	60,2
AQ-181810AL	EFXE-181810AL	9,8	19,7	29,6	34,5	44,4	49,3	54,3
AR-182810AL	EFXE-182810AL	13,0	26,1	39,1	45,7	58,7	65,2	71,8
AR-202311AL	EFXE-202311AL	12,9	25,8	38,7	45,1	58,0	64,5	71,0
AR-202318AL	EFXE-202318AL	17,7	35,5	53,3	62,2	80,0	88,9	97,8
AR-232811AL	EFXE-232811AL	15,8	31,6	47,5	55,4	71,3	79,2	87,1
AR-233312AL	EFXE-233312AL	18,5	37,0	55,6	64,8	83,4	92,7	101,9
AR-233318AL	EFXE-233318AL	23,7	47,5	71,3	83,2	107,0	118,9	130,8

Enclosure types (aluminium)		Maximum power dissipation (W) – Tamb. up to **55**°C						
		INTERNAL TEMP.65°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
AQ-080806AL	EFXE-080806AL	2,6	3,9	6,5	7,8	10,4	11,7	13,0
AR-081306AL	EFXE-081306AL	3,5	5,3	8,8	10,6	14,1	15,9	17,7
AR-081806AL	EFXE-081806AL	4,4	6,6	11,1	13,3	17,8	20,0	22,2
AR-081808AL	EFXE-081808AL	5,5	8,2	13,8	16,5	22,1	24,8	27,6
AR-082505AL	EFXE-082505AL	5,3	8,0	13,4	16,1	21,4	24,1	26,8
AR-082508AL	EFXE-082508AL	7,1	10,7	17,8	21,4	28,5	32,1	35,7
AQ-101008AL	EFXE-101008AL	4,3	6,5	10,8	13,0	17,4	19,6	21,7
AR-101508AL	EFXE-101508AL	5,5	8,3	13,8	16,6	22,2	24,9	27,7
AR-101608AL	EFXE-101608AL	5,7	8,6	14,4	17,3	23,1	26,0	28,9
AR-102008AL	EFXE-102008AL	6,7	10,0	16,7	20,1	26,8	30,2	33,5
AQ-121208AL	EFXE-121208AL	5,4	8,1	13,5	16,2	21,6	24,3	27,0
AR-122209AL	EFXE-122209AL	8,4	12,6	21,0	25,3	33,7	37,9	42,1
AQ-141409AL	EFXE-141409AL	6,8	10,3	17,2	20,6	27,5	31,0	34,4
AR-142009AL	EFXE-142009AL	8,5	12,8	21,4	25,7	34,2	38,5	42,8
AQ-161609AL	EFXE-161609AL	8,6	12,9	21,5	25,8	34,4	38,7	43,0
AR-162410AL	EFXE-162410AL	11,0	16,5	27,6	33,1	44,2	49,7	55,3
AR-162609AL	EFXE-162609AL	10,9	16,4	27,4	32,8	43,8	49,3	54,8
AQ-181810AL	EFXE-181810AL	9,8	14,8	24,6	29,6	39,5	44,4	49,3
AR-182810AL	EFXE-182810AL	13,0	19,5	32,6	39,1	52,2	58,7	65,2
AR-202311AL	EFXE-202311AL	12,9	19,3	32,2	38,7	51,6	58,0	64,5
AR-202318AL	EFXE-202318AL	17,7	26,6	44,4	53,3	71,1	80,0	88,9
AR-232811AL	EFXE-232811AL	15,8	23,7	39,6	47,5	63,3	71,3	79,2
AR-233312AL	EFXE-233312AL	18,5	27,8	46,3	55,6	74,1	83,4	92,7
AR-233318AL	EFXE-233318AL	23,7	35,6	59,4	71,3	95,1	107,0	118,9

Enclosure types (aluminium)		Maximum power dissipation (W) – Tamb. up to **60**°C					
		INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
AQ-080806AL	EFXE-080806AL	2,6	5,2	6,5	9,1	10,4	11,7
AR-081306AL	EFXE-081306AL	3,5	7,0	8,8	12,3	14,1	15,9
AR-081806AL	EFXE-081806AL	4,4	8,9	11,1	15,5	17,8	20,0
AR-081808AL	EFXE-081808AL	5,5	11,0	13,8	19,3	22,1	24,8
AR-082505AL	EFXE-082505AL	5,3	10,7	13,4	18,7	21,4	24,1
AR-082508AL	EFXE-082508AL	7,1	14,2	17,8	24,9	28,5	32,1
AQ-101008AL	EFXE-101008AL	4,3	8,7	10,8	15,2	17,4	19,6
AR-101508AL	EFXE-101508AL	5,5	11,1	13,8	19,4	22,2	24,9
AR-101608AL	EFXE-101608AL	5,7	11,5	14,4	20,2	23,1	26,0
AR-102008AL	EFXE-102008AL	6,7	13,4	16,7	23,5	26,8	30,2
AQ-121208AL	EFXE-121208AL	5,4	10,8	13,5	18,9	21,6	24,3
AR-122209AL	EFXE-122209AL	8,4	16,8	21,0	29,5	33,7	37,9
AQ-141409AL	EFXE-141409AL	6,8	13,7	17,2	24,1	27,5	31,0
AR-142009AL	EFXE-142009AL	8,5	17,1	21,4	30,0	34,2	38,5
AQ-161609AL	EFXE-161609AL	8,6	17,2	21,5	30,1	34,4	38,7
AR-162410AL	EFXE-162410AL	11,0	22,1	27,6	38,7	44,2	49,7
AR-162609AL	EFXE-162609AL	10,9	21,9	27,4	38,3	43,8	49,3
AQ-181810AL	EFXE-181810AL	9,8	19,7	24,6	34,5	39,5	44,4
AR-182810AL	EFXE-182810AL	13,0	26,1	32,6	45,7	52,2	58,7
AR-202311AL	EFXE-202311AL	12,9	25,8	32,2	45,1	51,6	58,0
AR-202318AL	EFXE-202318AL	17,7	35,5	44,4	62,2	71,1	80,0
AR-232811AL	EFXE-232811AL	15,8	31,6	39,6	55,4	63,3	71,3
AR-233312AL	EFXE-233312AL	18,5	37,0	46,3	64,8	74,1	83,4
AR-233318AL	EFXE-233318AL	23,7	47,5	59,4	83,2	95,1	107,0

Enclosure types (aluminium)		Maximum power dissipation (W) – Tamb. up to **95**°C	
		INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
AQ-080806AL	EFXE-080806AL	1,3	2,6
AR-081306AL	EFXE-081306AL	1,7	3,5
AR-081806AL	EFXE-081806AL	2,2	4,4
AR-081808AL	EFXE-081808AL	2,7	5,5
AR-082505AL	EFXE-082505AL	2,6	5,3
AR-082508AL	EFXE-082508AL	3,5	7,1
AQ-101008AL	EFXE-101008AL	2,1	4,3
AR-101508AL	EFXE-101508AL	2,7	5,5
AR-101608AL	EFXE-101608AL	2,8	5,7
AR-102008AL	EFXE-102008AL	3,3	6,7
AQ-121208AL	EFXE-121208AL	2,7	5,4
AR-122209AL	EFXE-122209AL	4,2	8,4
AQ-141409AL	EFXE-141409AL	3,4	6,8
AR-142009AL	EFXE-142009AL	4,2	8,5
AQ-161609AL	EFXE-161609AL	4,3	8,6
AR-162410AL	EFXE-162410AL	5,5	11,0
AR-162609AL	EFXE-162609AL	5,4	10,9
AQ-181810AL	EFXE-181810AL	4,9	9,8
AR-182810AL	EFXE-182810AL	6,5	13,0
AR-202311AL	EFXE-202311AL	6,4	12,9
AR-202318AL	EFXE-202318AL	8,8	17,7
AR-232811AL	EFXE-232811AL	7,9	15,8
AR-233312AL	EFXE-233312AL	9,2	18,5
AR-233318AL	EFXE-233318AL	11,8	23,7

Power dissipation – Stainless steel enclosures SB series

Enclosure types (stainless steel)		Maximum power dissipation (W) – Tamb. up to **40**°C						
		INTERNAL TEMP.60°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
SB-101210	EFXE-101210SB	5,5	8,3	11,1	12,5	15,3	16,7	18,1
SB-151510	EFXE-151510SB	8,0	12,0	16,0	18,0	22,0	24,0	26,1
SB-142013	EFXE-142013SB	10,4	15,7	20,9	23,5	28,8	31,4	34,0
SB-202010	EFXE-202010SB	10,7	16,1	21,4	24,1	29,5	32,2	34,8
SB-202016	EFXE-202016SB	13,9	20,8	27,8	31,3	38,3	41,7	45,2
SB-202713	EFXE-202713SB	14,4	21,6	28,9	32,5	39,7	43,3	46,9
SB-272713	EFXE-272713SB	16,7	25,1	33,5	37,7	46,0	50,2	54,4
SB-203016	EFXE-203016SB	17,1	25,7	34,3	38,6	47,2	51,4	55,7
SB-273513	EFXE-273513SB	19,2	28,9	38,5	43,3	53,0	57,8	62,6
SB-282816	EFXE-282816SB	19,3	29,0	38,7	43,6	53,3	58,1	63,0
SB-204016	EFXE-204016SB	20,2	30,3	40,4	45,5	55,6	60,6	65,7
SB-353516	EFXE-353516SB	24,4	36,6	48,8	54,9	67,1	73,2	79,3
SB-282827	EFXE-282827SB	26,2	39,3	52,5	59,0	72,2	78,7	85,3
SB-355016	EFXE-355016SB	29,7	44,5	59,4	66,8	81,7	89,1	96,6
SB-383816	EFXE-383816SB	26,6	39,9	53,2	59,8	73,1	79,8	86,5
SB-384516	EFXE-384516SB	29,1	43,7	58,3	65,6	80,2	87,5	94,8
SB-385716	EFXE-385716SB	33,4	50,1	66,8	75,2	91,9	100,3	108,7
SB-505016	EFXE-505016SB	35,8	53,8	71,7	80,7	98,6	107,6	116,6
SB-383827	EFXE-383827SB	35,1	52,7	70,2	79,0	96,6	105,4	114,2
SB-575716	EFXE-575716SB	41,5	62,3	83,1	93,5	114,3	124,7	135,1
SB-577620	EFXE-577620SB	53,9	80,9	107,9	121,3	148,3	161,8	175,3
SB-575730	EFXE-575730SB	55,8	83,7	111,6	125,6	153,5	167,5	181,4
SB-769520	EFXE-769520SB	72,2	108,3	144,4	162,4	198,5	216,6	234,6
SB-1258040	EFXE-1258040SB	72,2	108,3	144,4	162,4	198,5	216,6	234,6

Enclosure types (Stainless steel)		Maximum power dissipation (W) – Tamb. up to **50**°C						
		INTERNAL TEMP.60°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
SB-101210	EFXE-101210SB	2,7	5,5	8,3	9,7	12,5	13,9	15,3
SB-151510	EFXE-151510SB	4,0	8,0	12,0	14,0	18,0	20,0	22,0
SB-142013	EFXE-142013SB	5,2	10,4	15,7	18,3	23,5	26,2	28,8
SB-202010	EFXE-202010SB	5,3	10,7	16,1	18,7	24,1	26,8	29,5
SB-202016	EFXE-202016SB	6,9	13,9	20,8	24,3	31,3	34,8	38,3
SB-202713	EFXE-202713SB	7,2	14,4	21,6	25,2	32,5	36,1	39,7
SB-272713	EFXE-272713SB	8,3	16,7	25,1	29,3	37,7	41,8	46,0
SB-203016	EFXE-203016SB	8,5	17,1	25,7	30,0	38,6	42,9	47,2
SB-273513	EFXE-273513SB	9,6	19,2	28,9	33,7	43,3	48,2	53,0
SB-282816	EFXE-282816SB	9,6	19,3	29,0	33,9	43,6	48,4	53,3
SB-204016	EFXE-204016SB	10,1	20,2	30,3	35,4	45,5	50,5	55,6
SB-353516	EFXE-353516SB	12,2	24,4	36,6	42,7	54,9	61,0	67,1
SB-282827	EFXE-282827SB	13,1	26,2	39,3	45,9	59,0	65,6	72,2
SB-355016	EFXE-355016SB	14,8	29,7	44,5	52,0	66,8	74,3	81,7
SB-383816	EFXE-383816SB	13,3	26,6	39,9	46,5	59,8	66,5	73,1
SB-384516	EFXE-384516SB	14,5	29,1	43,7	51,0	65,6	72,9	80,2
SB-385716	EFXE-385716SB	16,7	33,4	50,1	58,5	75,2	83,6	91,9
SB-505016	EFXE-505016SB	17,9	35,8	53,8	62,7	80,7	89,7	98,6
SB-383827	EFXE-383827SB	17,5	35,1	52,7	61,4	79,0	87,8	96,6
SB-575716	EFXE-575716SB	20,7	41,5	62,3	72,7	93,5	103,9	114,3
SB-577620	EFXE-577620SB	26,9	53,9	80,9	94,4	121,3	134,8	148,3
SB-575730	EFXE-575730SB	27,9	55,8	83,7	97,7	125,6	139,5	153,5
SB-769520	EFXE-769520SB	36,1	72,2	108,3	126,3	162,4	180,5	198,5
SB-1258040	EFXE-1258040SB	36,1	72,2	108,3	126,3	162,4	180,5	198,5

Enclosure types (Stainless steel)		Maximum power dissipation (W) – Tamb. up to **55**°C						
		INTERNAL TEMP.65°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
SB-101210	EFXE-101210SB	2,7	4,1	6,9	8,3	11,1	12,5	13,9
SB-151510	EFXE-151510SB	4,0	6,0	10,0	12,0	16,0	18,0	20,0
SB-142013	EFXE-142013SB	5,2	7,8	13,1	15,7	20,9	23,5	26,2
SB-202010	EFXE-202010SB	5,3	8,0	13,4	16,1	21,4	24,1	26,8
SB-202016	EFXE-202016SB	6,9	10,4	17,4	20,8	27,8	31,3	34,8
SB-202713	EFXE-202713SB	7,2	10,8	18,0	21,6	28,9	32,5	36,1
SB-272713	EFXE-272713SB	8,3	12,5	20,9	25,1	33,5	37,7	41,8
SB-203016	EFXE-203016SB	8,5	12,8	21,4	25,7	34,3	38,6	42,9
SB-273513	EFXE-273513SB	9,6	14,4	24,1	28,9	38,5	43,3	48,2
SB-282816	EFXE-282816SB	9,6	14,5	24,2	29,0	38,7	43,6	48,4
SB-204016	EFXE-204016SB	10,1	15,1	25,2	30,3	40,4	45,5	50,5
SB-353516	EFXE-353516SB	12,2	18,3	30,5	36,6	48,8	54,9	61,0
SB-282827	EFXE-282827SB	13,1	19,6	32,8	39,3	52,5	59,0	65,6
SB-355016	EFXE-355016SB	14,8	22,2	37,1	44,5	59,4	66,8	74,3
SB-383816	EFXE-383816SB	13,3	19,9	33,2	39,9	53,2	59,8	66,5
SB-384516	EFXE-384516SB	14,5	21,8	36,4	43,7	58,3	65,6	72,9
SB-385716	EFXE-385716SB	16,7	25,0	41,8	50,1	66,8	75,2	83,6
SB-505016	EFXE-505016SB	17,9	26,9	44,8	53,8	71,7	80,7	89,7
SB-383827	EFXE-383827SB	17,5	26,3	43,9	52,7	70,2	79,0	87,8
SB-575716	EFXE-575716SB	20,7	31,1	51,9	62,3	83,1	93,5	103,9
SB-577620	EFXE-577620SB	26,9	40,4	67,4	80,9	107,9	121,3	134,8
SB-575730	EFXE-575730SB	27,9	41,8	69,7	83,7	111,6	125,6	139,5
SB-769520	EFXE-769520SB	36,1	54,1	90,2	108,3	144,4	162,4	180,5
SB-1258040	EFXE-1258040SB	36,1	54,1	90,2	108,3	144,4	162,4	180,5

Enclosure types (Stainless steel)		Maximum power dissipation (W) – Tamb. up to **60**°C					
		INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
SB-101210	EFXE-101210SB	2,7	5,5	6,9	9,7	11,1	12,5
SB-151510	EFXE-151510SB	4,0	8,0	10,0	14,0	16,0	18,0
SB-142013	EFXE-142013SB	5,2	10,4	13,1	18,3	20,9	23,5
SB-202010	EFXE-202010SB	5,3	10,7	13,4	18,7	21,4	24,1
SB-202016	EFXE-202016SB	6,9	13,9	17,4	24,3	27,8	31,3
SB-202713	EFXE-202713SB	7,2	14,4	18,0	25,2	28,9	32,5
SB-272713	EFXE-272713SB	8,3	16,7	20,9	29,3	33,5	37,7
SB-203016	EFXE-203016SB	8,5	17,1	21,4	30,0	34,3	38,6
SB-273513	EFXE-273513SB	9,6	19,2	24,1	33,7	38,5	43,3
SB-282816	EFXE-282816SB	9,6	19,3	24,2	33,9	38,7	43,6
SB-204016	EFXE-204016SB	10,1	20,2	25,2	35,4	40,4	45,5
SB-353516	EFXE-353516SB	12,2	24,4	30,5	42,7	48,8	54,9
SB-282827	EFXE-282827SB	13,1	26,2	32,8	45,9	52,5	59,0
SB-355016	EFXE-355016SB	14,8	29,7	37,1	52,0	59,4	66,8
SB-383816	EFXE-383816SB	13,3	26,6	33,2	46,5	53,2	59,8
SB-384516	EFXE-384516SB	14,5	29,1	36,4	51,0	58,3	65,6
SB-385716	EFXE-385716SB	16,7	33,4	41,8	58,5	66,8	75,2
SB-505016	EFXE-505016SB	17,9	35,8	44,8	62,7	71,7	80,7
SB-383827	EFXE-383827SB	17,5	35,1	43,9	61,4	70,2	79,0
SB-575716	EFXE-575716SB	20,7	41,5	51,9	72,7	83,1	93,5
SB-577620	EFXE-577620SB	26,9	53,9	67,4	94,4	107,9	121,3
SB-575730	EFXE-575730SB	27,9	55,8	69,7	97,7	111,6	125,6
SB-769520	EFXE-769520SB	36,1	72,2	90,2	126,3	144,4	162,4
SB-1258040	EFXE-1258040SB	36,1	72,2	90,2	126,3	144,4	162,4

Enclosure types (Stainless steel)		Maximum power dissipation (W) – Tamb. up to **95**°C	
		INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
SB-101210	EFXE-101210SB	1,3	2,7
SB-151510	EFXE-151510SB	2,0	4,0
SB-142013	EFXE-142013SB	2,6	5,2
SB-202010	EFXE-202010SB	2,6	5,3
SB-202016	EFXE-202016SB	3,4	6,9
SB-202713	EFXE-202713SB	3,6	7,2
SB-272713	EFXE-272713SB	4,1	8,3
SB-203016	EFXE-203016SB	4,2	8,5
SB-273513	EFXE-273513SB	4,8	9,6
SB-282816	EFXE-282816SB	4,8	9,6
SB-204016	EFXE-204016SB	5,0	10,1
SB-353516	EFXE-353516SB	6,1	12,2
SB-282827	EFXE-282827SB	6,5	13,1
SB-355016	EFXE-355016SB	7,4	14,8
SB-383816	EFXE-383816SB	6,6	13,3
SB-384516	EFXE-384516SB	7,2	14,5
SB-385716	EFXE-385716SB	8,3	16,7
SB-505016	EFXE-505016SB	8,9	17,9
SB-383827	EFXE-383827SB	8,7	17,5
SB-575716	EFXE-575716SB	10,3	20,7
SB-577620	EFXE-577620SB	13,4	26,9
SB-575730	EFXE-575730SB	13,9	27,9
SB-769520	EFXE-769520SB	18,0	36,1
SB-1258040	EFXE-1258040SB	18,0	36,1

Power dissipation – Stainless steel enclosures ST series

Enclosure types (Stainless steel)		Maximum power dissipation (W) – Tamb. up to **40**°C						
		INTERNAL TEMP.60°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
ST-101210	EFXE-101210ST	5,5	8,3	11,1	12,5	15,3	16,7	18,1
ST-151510	EFXE-151510ST	8,0	12,0	16,0	18,0	22,0	24,0	26,1
ST-142013	EFXE-142013ST	10,4	15,7	20,9	23,5	28,8	31,4	34,0
ST-202010	EFXE-202010ST	10,7	16,1	21,4	24,1	29,5	32,2	34,8
ST-202016	EFXE-202016ST	13,9	20,8	27,8	31,3	38,3	41,7	45,2
ST-202713	EFXE-202713ST	14,4	21,6	28,9	32,5	39,7	43,3	46,9
ST-272713	EFXE-272713ST	16,7	25,1	33,5	37,7	46,0	50,2	54,4
ST-203016	EFXE-203016ST	17,1	25,7	34,3	38,6	47,2	51,4	55,7
ST-273513	EFXE-273513ST	19,2	28,9	38,5	43,3	53,0	57,8	62,6
ST-282816	EFXE-282816ST	19,3	29,0	38,7	43,6	53,3	58,1	63,0
ST-204016	EFXE-204016ST	20,2	30,3	40,4	45,5	55,6	60,6	65,7
ST-353516	EFXE-353516ST	24,4	36,6	48,8	54,9	67,1	73,2	79,3
ST-282827	EFXE-282827ST	26,2	39,3	52,5	59,0	72,2	78,7	85,3
ST-355016	EFXE-355016ST	29,7	44,5	59,4	66,8	81,7	89,1	96,6
ST-383816	EFXE-383816ST	26,6	39,9	53,2	59,8	73,1	79,8	86,5
ST-384516	EFXE-384516ST	29,1	43,7	58,3	65,6	80,2	87,5	94,8
ST-385716	EFXE-385716ST	33,4	50,1	66,8	75,2	91,9	100,3	108,7
ST-505016	EFXE-505016ST	35,8	53,8	71,7	80,7	98,6	107,6	116,6
ST-383827	EFXE-383827ST	35,1	52,7	70,2	79,0	96,6	105,4	114,2
ST-575716	EFXE-575716ST	41,5	62,3	83,1	93,5	114,3	124,7	135,1
ST-577620	EFXE-577620ST	53,9	80,9	107,9	121,3	148,3	161,8	175,3
ST-575730	EFXE-575730ST	55,8	83,7	111,6	125,6	153,5	167,5	181,4
ST-769520	EFXE-769520ST	72,2	108,3	144,4	162,4	198,5	216,6	234,6
ST-1258040	EFXE-1258040ST	72,2	108,3	144,4	162,4	198,5	216,6	234,6

Enclosure types (Stainless steel)		Maximum power dissipation (W) – Tamb. up to **50**°C						
		INTERNAL TEMP.60°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
ST-101210	EFXE-101210ST	2,7	5,5	8,3	9,7	12,5	13,9	15,3
ST-151510	EFXE-151510ST	4,0	8,0	12,0	14,0	18,0	20,0	22,0
ST-142013	EFXE-142013ST	5,2	10,4	15,7	18,3	23,5	26,2	28,8
ST-202010	EFXE-202010ST	5,3	10,7	16,1	18,7	24,1	26,8	29,5
ST-202016	EFXE-202016ST	6,9	13,9	20,8	24,3	31,3	34,8	38,3
ST-202713	EFXE-202713ST	7,2	14,4	21,6	25,2	32,5	36,1	39,7
ST-272713	EFXE-272713ST	8,3	16,7	25,1	29,3	37,7	41,8	46,0
ST-203016	EFXE-203016ST	8,5	17,1	25,7	30,0	38,6	42,9	47,2
ST-273513	EFXE-273513ST	9,6	19,2	28,9	33,7	43,3	48,2	53,0
ST-282816	EFXE-282816ST	9,6	19,3	29,0	33,9	43,6	48,4	53,3
ST-204016	EFXE-204016ST	10,1	20,2	30,3	35,4	45,5	50,5	55,6
ST-353516	EFXE-353516ST	12,2	24,4	36,6	42,7	54,9	61,0	67,1
ST-282827	EFXE-282827ST	13,1	26,2	39,3	45,9	59,0	65,6	72,2
ST-355016	EFXE-355016ST	14,8	29,7	44,5	52,0	66,8	74,3	81,7
ST-383816	EFXE-383816ST	13,3	26,6	39,9	46,5	59,8	66,5	73,1
ST-384516	EFXE-384516ST	14,5	29,1	43,7	51,0	65,6	72,9	80,2
ST-385716	EFXE-385716ST	16,7	33,4	50,1	58,5	75,2	83,6	91,9
ST-505016	EFXE-505016ST	17,9	35,8	53,8	62,7	80,7	89,7	98,6
ST-383827	EFXE-383827ST	17,5	35,1	52,7	61,4	79,0	87,8	96,6
ST-575716	EFXE-575716ST	20,7	41,5	62,3	72,7	93,5	103,9	114,3
ST-577620	EFXE-577620ST	26,9	53,9	80,9	94,4	121,3	134,8	148,3
ST-575730	EFXE-575730ST	27,9	55,8	83,7	97,7	125,6	139,5	153,5
ST-769520	EFXE-769520ST	36,1	72,2	108,3	126,3	162,4	180,5	198,5
ST-1258040	EFXE-1258040ST	36,1	72,2	108,3	126,3	162,4	180,5	198,5

Enclosure types (Stainless steel)		Maximum power dissipation (W) – Tamb. up to **55**°C						
		INTERNAL TEMP.65°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
ST-101210	EFXE-101210ST	2,7	4,1	6,9	8,3	11,1	12,5	13,9
ST-151510	EFXE-151510ST	4,0	6,0	10,0	12,0	16,0	18,0	20,0
ST-142013	EFXE-142013ST	5,2	7,8	13,1	15,7	20,9	23,5	26,2
ST-202010	EFXE-202010ST	5,3	8,0	13,4	16,1	21,4	24,1	26,8
ST-202016	EFXE-202016ST	6,9	10,4	17,4	20,8	27,8	31,3	34,8
ST-202713	EFXE-202713ST	7,2	10,8	18,0	21,6	28,9	32,5	36,1
ST-272713	EFXE-272713ST	8,3	12,5	20,9	25,1	33,5	37,7	41,8
ST-203016	EFXE-203016ST	8,5	12,8	21,4	25,7	34,3	38,6	42,9
ST-273513	EFXE-273513ST	9,6	14,4	24,1	28,9	38,5	43,3	48,2
ST-282816	EFXE-282816ST	9,6	14,5	24,2	29,0	38,7	43,6	48,4
ST-204016	EFXE-204016ST	10,1	15,1	25,2	30,3	40,4	45,5	50,5
ST-353516	EFXE-353516ST	12,2	18,3	30,5	36,6	48,8	54,9	61,0
ST-282827	EFXE-282827ST	13,1	19,6	32,8	39,3	52,5	59,0	65,6
ST-355016	EFXE-355016ST	14,8	22,2	37,1	44,5	59,4	66,8	74,3
ST-383816	EFXE-383816ST	13,3	19,9	33,2	39,9	53,2	59,8	66,5
ST-384516	EFXE-384516ST	14,5	21,8	36,4	43,7	58,3	65,6	72,9
ST-385716	EFXE-385716ST	16,7	25,0	41,8	50,1	66,8	75,2	83,6
ST-505016	EFXE-505016ST	17,9	26,9	44,8	53,8	71,7	80,7	89,7
ST-383827	EFXE-383827ST	17,5	26,3	43,9	52,7	70,2	79,0	87,8
ST-575716	EFXE-575716ST	20,7	31,1	51,9	62,3	83,1	93,5	103,9
ST-577620	EFXE-577620ST	26,9	40,4	67,4	80,9	107,9	121,3	134,8
ST-575730	EFXE-575730ST	27,9	41,8	69,7	83,7	111,6	125,6	139,5
ST-769520	EFXE-769520ST	36,1	54,1	90,2	108,3	144,4	162,4	180,5
ST-1258040	EFXE-1258040ST	36,1	54,1	90,2	108,3	144,4	162,4	180,5

Enclosure types (Stainless steel)		Maximum power dissipation (W) – Tamb. up to **60**°C					
		INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
ST-101210	EFXE-101210ST	2,7	5,5	6,9	9,7	11,1	12,5
ST-151510	EFXE-151510ST	4,0	8,0	10,0	14,0	16,0	18,0
ST-142013	EFXE-142013ST	5,2	10,4	13,1	18,3	20,9	23,5
ST-202010	EFXE-202010ST	5,3	10,7	13,4	18,7	21,4	24,1
ST-202016	EFXE-202016ST	6,9	13,9	17,4	24,3	27,8	31,3
ST-202713	EFXE-202713ST	7,2	14,4	18,0	25,2	28,9	32,5
ST-272713	EFXE-272713ST	8,3	16,7	20,9	29,3	33,5	37,7
ST-203016	EFXE-203016ST	8,5	17,1	21,4	30,0	34,3	38,6
ST-273513	EFXE-273513ST	9,6	19,2	24,1	33,7	38,5	43,3
ST-282816	EFXE-282816ST	9,6	19,3	24,2	33,9	38,7	43,6
ST-204016	EFXE-204016ST	10,1	20,2	25,2	35,4	40,4	45,5
ST-353516	EFXE-353516ST	12,2	24,4	30,5	42,7	48,8	54,9
ST-282827	EFXE-282827ST	13,1	26,2	32,8	45,9	52,5	59,0
ST-355016	EFXE-355016ST	14,8	29,7	37,1	52,0	59,4	66,8
ST-383816	EFXE-383816ST	13,3	26,6	33,2	46,5	53,2	59,8
ST-384516	EFXE-384516ST	14,5	29,1	36,4	51,0	58,3	65,6
ST-385716	EFXE-385716ST	16,7	33,4	41,8	58,5	66,8	75,2
ST-505016	EFXE-505016ST	17,9	35,8	44,8	62,7	71,7	80,7
ST-383827	EFXE-383827ST	17,5	35,1	43,9	61,4	70,2	79,0
ST-575716	EFXE-575716ST	20,7	41,5	51,9	72,7	83,1	93,5
ST-577620	EFXE-577620ST	26,9	53,9	67,4	94,4	107,9	121,3
ST-575730	EFXE-575730ST	27,9	55,8	69,7	97,7	111,6	125,6
ST-769520	EFXE-769520ST	36,1	72,2	90,2	126,3	144,4	162,4
ST-1258040	EFXE-1258040ST	36,1	72,2	90,2	126,3	144,4	162,4

Enclosure types (Stainless steel)		Maximum power dissipation (W) – Tamb. up to **95**°C	
		INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
ST-101210	EFXE-101210ST	1,3	2,7
ST-151510	EFXE-151510ST	2,0	4,0
ST-142013	EFXE-142013ST	2,6	5,2
ST-202010	EFXE-202010ST	2,6	5,3
ST-202016	EFXE-202016ST	3,4	6,9
ST-202713	EFXE-202713ST	3,6	7,2
ST-272713	EFXE-272713ST	4,1	8,3
ST-203016	EFXE-203016ST	4,2	8,5
ST-273513	EFXE-273513ST	4,8	9,6
ST-282816	EFXE-282816ST	4,8	9,6
ST-204016	EFXE-204016ST	5,0	10,1
ST-353516	EFXE-353516ST	6,1	12,2
ST-282827	EFXE-282827ST	6,5	13,1
ST-355016	EFXE-355016ST	7,4	14,8
ST-383816	EFXE-383816ST	6,6	13,3
ST-384516	EFXE-384516ST	7,2	14,5
ST-385716	EFXE-385716ST	8,3	16,7
ST-505016	EFXE-505016ST	8,9	17,9
ST-383827	EFXE-383827ST	8,7	17,5
ST-575716	EFXE-575716ST	10,3	20,7
ST-577620	EFXE-577620ST	13,4	26,9
ST-575730	EFXE-575730ST	13,9	27,9
ST-769520	EFXE-769520ST	18,0	36,1
ST-1258040	EFXE-1258040ST	18,0	36,1

Maximum Power Dissipation calculation

The values specified in the tables as per clause 2.1.1 may be modified within the maximum admitted Tamb and maximum admitted internal temperature as follows.

$$Pdiss\ (W) = \frac{Tmax - Tamb}{Rth}$$

$Rth = A \times (\text{enclosure surface in } mm^2 \text{ except enclosure bottom})^B$

Legend:
Rth – Thermal resistance [K/W].
Tmax – Maximum allowed temperature inside enclosure.
Tamb – Ambient temperature of enclosure
A and B - coefficients determined for each series of enclosure. Exact values are given in manufacturer's documentation.

Warning labels:

WARNING – DO NOT OPEN WHEN ENERGIZED (*)
(*) Not mandatory for apparatus with protection type Ex ia Ga and Ex ib Gb.

WARNING – POTENTIAL ELECTROSTATIC CHARGING HAZARD – SEE INSTRUCTIONS

To be added when the enclosures or parts of them have a surface resistance more than 10^9 Ω or 10^{11} Ω according to IEC 60079-0 Clause 7.4.2 a), as applicable, and as per following cases:

- are equipped with transparent parts made of polycarbonate.
- for category II 2 G / EPL Gb Gas group IIC: are painted and the paint layer thickness is > 0.2mm.
- for category II 2 G / EPL Gb Gas group IIB: are painted and the paint layer thickness is > 2mm.
- for category II 2 D / EPL Db: are painted and the paint layer thickness is > 2mm.
- for category II 2 G / EPL Gb Gas group IIC: not conductive individual materials (labels), applied on painted enclosures, have exposed (chargeable area) > 2000mm^2 or, not conductive individual materials (labels), applied on unpainted (conductive earthed surface) enclosures, have exposed (chargeable area) > 8000mm^2.
- for category II 2 G /EPL Gb Gas group IIB: not conductive individual materials (labels), applied on painted enclosures, have exposed (chargeable area) > 10000mm^2 or, not conductive individual materials (labels), applied on unpainted (conductive earthed surface) enclosures, have exposed (chargeable area) > 40000mm^2.

OPEN THE VALVE ONLY WHEN THE APPARATUS IS DE-ENERGIZED AND ONLY WHEN AN EXPLOSIVE DUST ATMOSPHERE IS NOT PRESENT
To be added on Ex tb apparatus equipped with the drain / venting device ECR3.

Other warnings depend on the components actually mounted, according to the component manufacturer's documentation.

The tables below state the maximum power dissipation values (W) related to the internal temperature (Tint) and ambient temperature (Tamb).

ITEM	Tag	EJB-200N1-02-L1-02	: JB - NORMAL LIGHTING	Dwg	123A90-DDL-EL-DL-20118
	S/Sys	83-40	: Normal Lighting Upper Deck	Module	UD
TASK	code	C10001652	Location: Onshore Activities	User	Rosetti Marino Quality Control
FORM	Process	MC	Activity: CCK / Discipline: ATEX / Form: CJX01		Hazardous Area Equipment Detailed Inspection

Schedule Ref. #				**Area Code**					
Area Class Drawing	123A90-DDL-SAF-DL-30022			**Serial No.**	24P00297990084				
Manufacturer	Italsmea			**Model**	AQ-252612P				
Cert No.	FIDI 21ATEX 0090X IECEx FIDI 21.0015X			**Equipment Ambient Temp.**	-20 to +40 °C				
Area Classification	HAZARDOUS	**Zone**	2	**Gas group**	II C	**Temp class**	T1		
Equipment Protection Type	Ex eb	**EPL**	Gb	**Gas group**	II C	**Temp class**	T6	**IP Rating**	IP66

Detailed Note:

1) Inspection shall only be performed by competent personnel

2) All fields are to be completed. Any non-applicable field shall state “NA”. Comments are required for ‘Failure’ column ONLY.

3) An Inspection Sheet should be completed for EACH individual item of Equipment.

	General Equipment	Detailed	OK/NA/PL	Comments
1	Equipment is appropriate to the EPL / Zone requirements of the area	x	OK	
2	Equipment group is correct	x	OK	
3	Equipment temperature class is correct	x	OK	
4	Degree of IP protection of equipment is appropriate for the level of protection	x	OK	
5	Equipment circuit identification is correct	x	PL	
6	Equipment circuit identification is available	x	NA	
7	Enclosure glass parts and glass-to-metal sealing gaskets and / or compounds are satisfactory	x	NA	
8	There is no damage or unauthorized modifications	x	OK	
9	There is no evidence of unauthorized modifications	x	OK	
10	Bolts, cable entry devices (direct and indirect) & blanking elements are of the correct type, are complete & tight		NA	
	Physical check	x	PL	
11	Threaded covers on enclosures are of the correct type, are tight and secured		NA	
	Physical check	x	OK	
12	Joint surfaces are clean and undamaged and gaskets, if any, are satisfactory and positioned correctly	x	OK	
13	Condition of enclosure gaskets is satisfactory	x	OK	
14	There is no evidence or ingress of water or dust in the enclosure in accordance with the IP rating	x	OK	
15	Electrical connections are tight	x	OK	
16	Bridging links do not reduce creepage / clearance and are allowed	x	NA	
17	Unused terminals are tightened	x	OK	
18	Encapsulated components are undamaged	x	NA	
19	Flameproof components are undamaged	x	NA	
20	Fluorescent lamps are not indicating EOL effects (only for Ex “e” – Ex “n” – Ex “t”)	x	NA	
21	HID lamps are not indicating EOL effects	x	NA	
22	Lamp type, rating, pin configuration and position are correct	x	NA	
23	Breathing and drainage devices are satisfactory	x	NA	
24	Type of cable is appropriate	x	OK	
25	There is no obvious damage to the cables	x	OK	
26	Cable glands are the correct type and installed correctly	x	OK	
27	Sealing of trunking, ducts, pipes and or conduits is satisfactory	x	NA	
28	Stopping boxes and cable boxes are corrected filled	x	OK	

ITEM	Tag	EJB-200N1-02-L1-02	: JB - NORMAL LIGHTING			Dwg	123A90-DDL-EL-DL-20118
	S/Sys	83-40	: Normal Lighting Upper Deck			Module	UD
TASK	code	C10001652		Location	Onshore Activities	User	Rosetti Marino Quality Control
FORM	Process	MC	Activity CCK	Discipline	ATEX	Form	CJX01 Hazardous Area Equipment Detailed Inspection

29	Integrity of conduit system and interface with mixed system maintained	x	NA	
30	Earthing connections, including any supplementary earthing bonding connections are satisfactory (for example connections are tight and conductors are of sufficient cross-section		NA	
	Physical check	x	OK	
31	Automated electric protective devices operate within permitted limits	x	NA	
32	Special conditions (if applicable) have been complied with.	x	NA	
33	All cable cores are uniquely labeled	x	OK	
34	Cable cores not in use are correctly terminated	x	OK	
35	Equipment is adequately protected against corrosion, weather, vibration and other adverse factors	x	OK	
36	No undue accumulation of dust and dirt	x	OK	
37	All equipment housings are clean and dry	x	OK	
38	All moving parts are free and have no mechanical damage	x	OK	
	Applicable for Installation of Heating Systems			
39	Temperature sensors function according to manufacturer's documents (only applicable for Ex-d e Ex-e)	x	NA	
40	Safety cut off devices function according to manufacturer's documents (only applicable for Ex-d e Ex-e)	x	NA	
41	The setting of the safety cut off is sealed (only applicable for Ex-d e Ex-e)	x	NA	
42	Reset of a heating system safety cut off possible with tool only(only applicable for Ex-d e Ex-e)	x	NA	
43	Auto-reset is not possible (only applicable for Ex-d e Ex-e)	x	NA	
44	Reset of a safety cut off under fault conditions is prevented (only applicable for Ex-d e Ex-e)	x	NA	
45	Safety cut off independent from control system (only applicable for Ex-d e Ex-e)	x	NA	
46	Level switch is installed and correctly set, if required (only applicable for Ex-d e Ex-e)	x	NA	
47	Flow switch is installed and correctly set, if required (only applicable for Ex-d e Ex-e)	x	NA	
	Extra Ex d checks			
48	Obstructions adjacent to flame proof flanged joints are in accordance with IEC 60079-14	x	NA	
49	Ex d conduits seals are fitted to all conduits and satisfactorily sealed	x	NA	
50	Cable glands are of the correct type and installed correctly	x	NA	
51	Adaptors, reducers, stop ends, etc. are all certified Ex d	x	NA	
52	Flame path are clean and undamaged	x	NA	
53	Flange gap dimensions are within tolerances	x	NA	
54	Motor fans have sufficient clearance to the enclosure and/or covers, cooling systems are undamaged, motor foundations have no indentations or cracks	x	NA	
55	The ventilation airflow is not impeded	x	NA	
56	Insulation resistance (IR) of the motor windings is satisfactory	x	NA	
57	Fault loop impedance (TN systems) or earthing resistance (IT systems) is satisfactory	x	NA	
58	Variable voltage/frequency installation complies with documentation	x	NA	
	Extra Ex e checks			
59	All Equipment is Ex e certified (including components within enclosure)	x	OK	
60	Power conductors are not bunched together causing possible hot spots	x	OK	
61	Motor fans have sufficient clearance to the enclosure and/or covers, cooling systems are undamaged, motor foundations have no indentations or cracks	x	NA	
62	Insulation resistance (IR) of the motor windings is satisfactory	x	NA	
63	Fault loop impedance (TN systems) or earthing resistance (IT systems) is satisfactory	x	NA	
64	The ventilation airflow is not impeded	x	NA	
65	Motor protection devices operate within the permitted tE or tA time limits.	x	NA	
66	Variable voltage/frequency installation complies with documentation	x	NA	

ITEM	Tag	EJB-200N1-02-L1-02	: JB - NORMAL LIGHTING		Dwg	123A90-DDL-EL-DL-20118	
	S/Sys	83-40	: Normal Lighting Upper Deck		Module	UD	
TASK	code	C10001652	Location	Onshore Activities	User	Rosetti Marino Quality Control	
FORM	Process	MC	Activity CCK	Discipline ATEX	Form	CJX01	Hazardous Area Equipment Detailed Inspection

Extra Ex n (nR, nL) checks				
67	All Terminals are Ex n certified (if required on certificate)	x	NA	
68	Hermetically sealed and enclosed break devices are undamaged	x	NA	
69	Restricted breathing properties satisfactory (conduct vacuum test)	x	NA	
70	Test port, if fitted, is functional (type “nR” only)	x	NA	
71	Breathing operation is satisfactory (type “nR” only)	x	NA	
72	Motor fans have sufficient clearance to the enclosure and/or covers, cooling systems are	x	NA	
73	The ventilation airflow is not impeded	x	NA	
74	Insulation resistance (IR) of the motor windings is satisfactory	x	NA	
75	Motor protection devices operate within the permitted tE or tA time limits.	x	NA	
76	Variable voltage/frequency installation complies with documentation	x	NA	
Extra Ex p checks				
77	Pressurization gas is correct type	x	NA	
78	Actual pressure is within maximum and minimum settings for equipment	x	NA	
79	Timers set as per certification documentation	x	NA	
80	Alarms and trip functions operate correctly as per certification documentation	x	NA	
81	Fault loop impedance (TN systems) or earthing resistance (IT systems) is satisfactory	x	NA	
82	Automatic electrical protective devices operate within permitted limits	x	NA	
83	Automatic electrical protective devices are set correctly	x	NA	
84	Protective gas inlet temperature is below maximum specified	x	NA	
85	Ducts, pipes and enclosures are in good condition	x	NA	
86	Protective gas is substantially free from contaminants	x	NA	
87	Protective gas pressure and/or flow is adequate	x	NA	
88	Pressure and/or flow indicators, alarms and interlocks function correctly	x	NA	
89	Conditions of spark and particle barriers of ducts for exhausting the gas in hazardous area are satisfactory	x	NA	
90	Specific conditions of use (if applicable) are complied with		NA	
Extra Ex i (Intrinsically Safe – IS) checks				
91	Equipment has adequate circuit identification for ‘IS’ Installation	x	NA	
92	Cables are installed in accordance with the documentation	x	NA	
93	Segregation is maintained between IS and non-IS Circuits	x	NA	
94	Cable screens are isolated at one end (field side)	x	NA	
95	Cable screens are earthed in accordance with the documentation	x	NA	
96	Safety barrier units, relays and other energy limiting devices are of the approved type, installed in	x	NA	
97	Equipment installed is the one specified in the documentation	x	NA	
98	Ambient temperature range of the apparatus is correct for the installation	x	NA	
99	Service temperature range of the apparatus is correct for the installation	x	NA	
100	Installation is clearly labelled	x	NA	
101	Printed circuit boards are clean and undamaged	x	NA	
102	The maximum voltage Um of the associated apparatus is not exceeded	x	NA	
103	Point-to-point connections are all correct	x	NA	
104	Earth continuity is satisfactory (e.g. connections are tight, conductors are of sufficient cross-section)	x	NA	
105	Earth connections maintain the integrity of the type of protection	x	NA	
106	Intrinsically safe circuit earthing is satisfactory	x	NA	
107	Insulation resistance is satisfactory	x	NA	
108	Short-circuit protection of the power supply is in accordance with the documentation	x	NA	

	BARRIER:	**Manufacturer:**	NA	**Model:**	NA		
		Authority:	NA	**Cert No:**	NA	**Type:**	NA

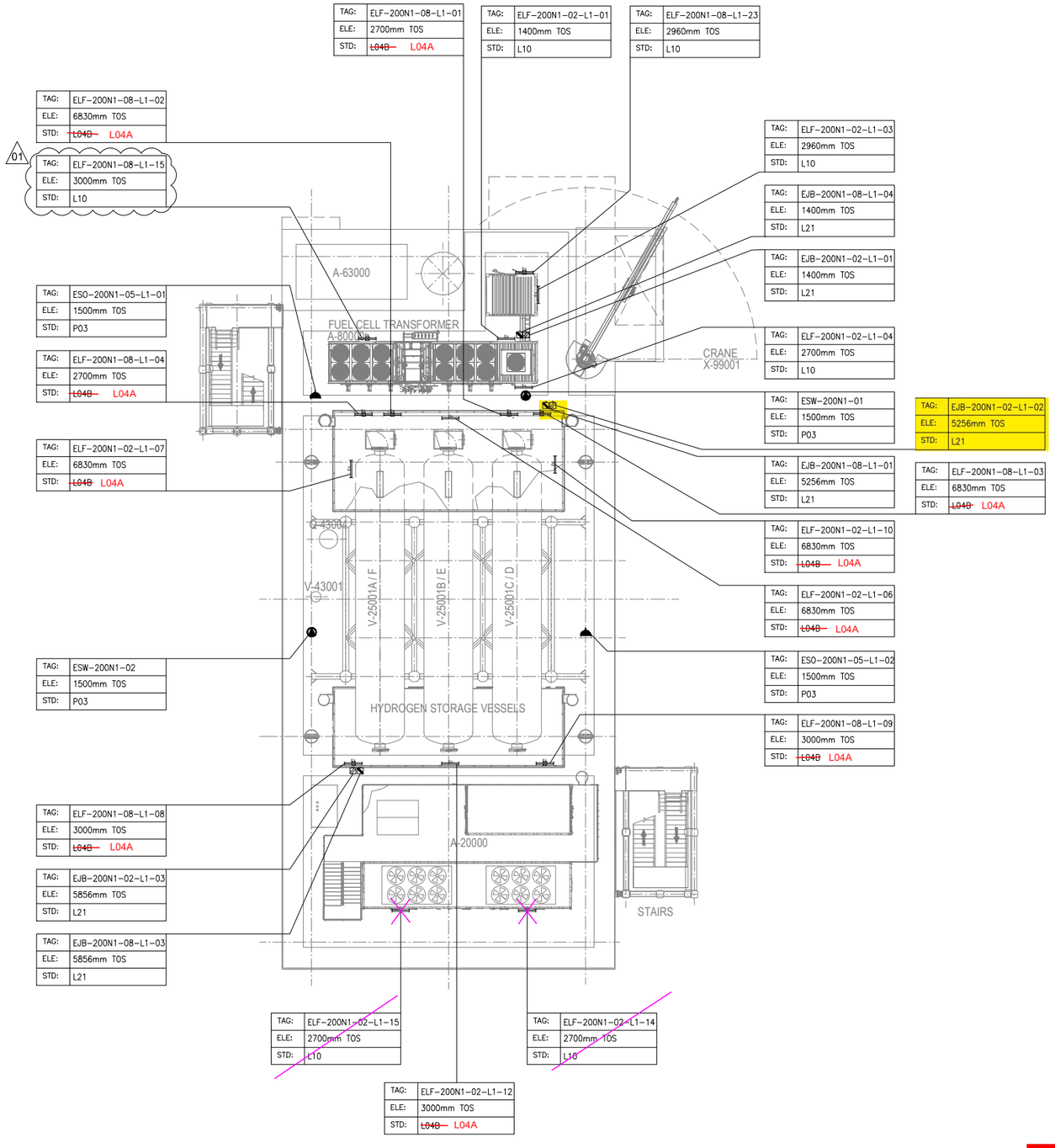
Remarks: Initial inspection should be detailed and carried out before equipment is brought into service as per IEC 60079-17

Please mark only one box as appropriate	
●	**Passed - Complete**
	Failed

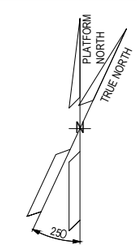
Page 3/3	Performed by	☐ WITNESS ☐ REVIEW	☐ WITNESS ☐ REVIEW
Company	ICS IMPIANTI	RM (ROSETTI MARINO)	
Name	Francesco Zucca	Andrea Andreani	
Date	2024-12-18	2025-01-27	
Signature	PROVERLIS Digitaly signed by Francesco Zucca 2024-12-18T15:48:52.974Z	PROVERLIS Digitaly signed by Andrea Andreani 2025-01-27T14:31:01.337Z	

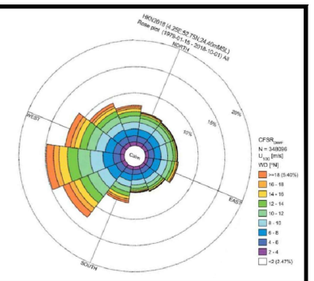
DRAWING NO. 123A90-DDL-EL-DL-20118

REV. 01



PLAN ON UPPER DECK
EL+30.310 T.O.S.





NOTES

1. ALL DIMENSIONS AND ELEVATIONS ARE GIVEN IN mm UNLESS OTHERWISE NOTED.
2. ELEVATIONS REFER TO T.O.S.
3. ELEVATION OF THE LAMPS ARE REFFERED TO THE BOTTOM OF THE LAMP.
4. FOR THE ELEVATION OF JB, REFER TO THE TYPICAL INSTALLATION.

LEGEND

- EMERGENCY LIGHTING JB
- 60W LED EMERGENCY LUMINARIES
- 60W LED EMERGENCY LUMINARIES FIXTURE POLE MOUNTED
- NORMAL LIGHTING JB
- 45W LED NORMAL LUMINARIES
- 45W LED NORMAL LUMINARIES FIXTURE POLE MOUNTED
- WELDING SOCKET WITH INTEGRATED JB
- SMALL POWER SOCKET WITH INTEGRATED JB

JB TAG:	JB-TAG
TAG:	TAG
ELE:	ELEVATION
STD:	STANDARD

REFERENCE DOCUMENTS

123A90-DDL-PP-DL-70070	PLOT PLAN - LOWER & UPPER DECK
123A90-DDL-EL-DL-20100	ELECTRICAL EQUIPMENT LAYOUT - TOP DECK
123A90-DDL-EL-DD-20091	ELECTRICAL TYPICAL INSTALLATION DETAILS - LIGHTING SYSTEM
123A90-DDL-EL-DD-20092	ELECTRICAL TYPICAL INSTALLATION DETAILS - POWER SYSTEM & CABLE INSTALLATION
123A90-DDL-EL-RE-20153	LIGHTING CALCULATION STUDY REPORT
123A90-DDL-ST-DD-90076	IDENTIFICATION PANELS ASSEMBLY AND DETAILS

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	02/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	28/05/24	ASR	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DL-20118**

REV.:	DATE:	SIGNATURE:
1_G	09/01/25	V.Ramponi

ROSETTI MARINO SpA

CROSSWIND

ROSETTI MARINO

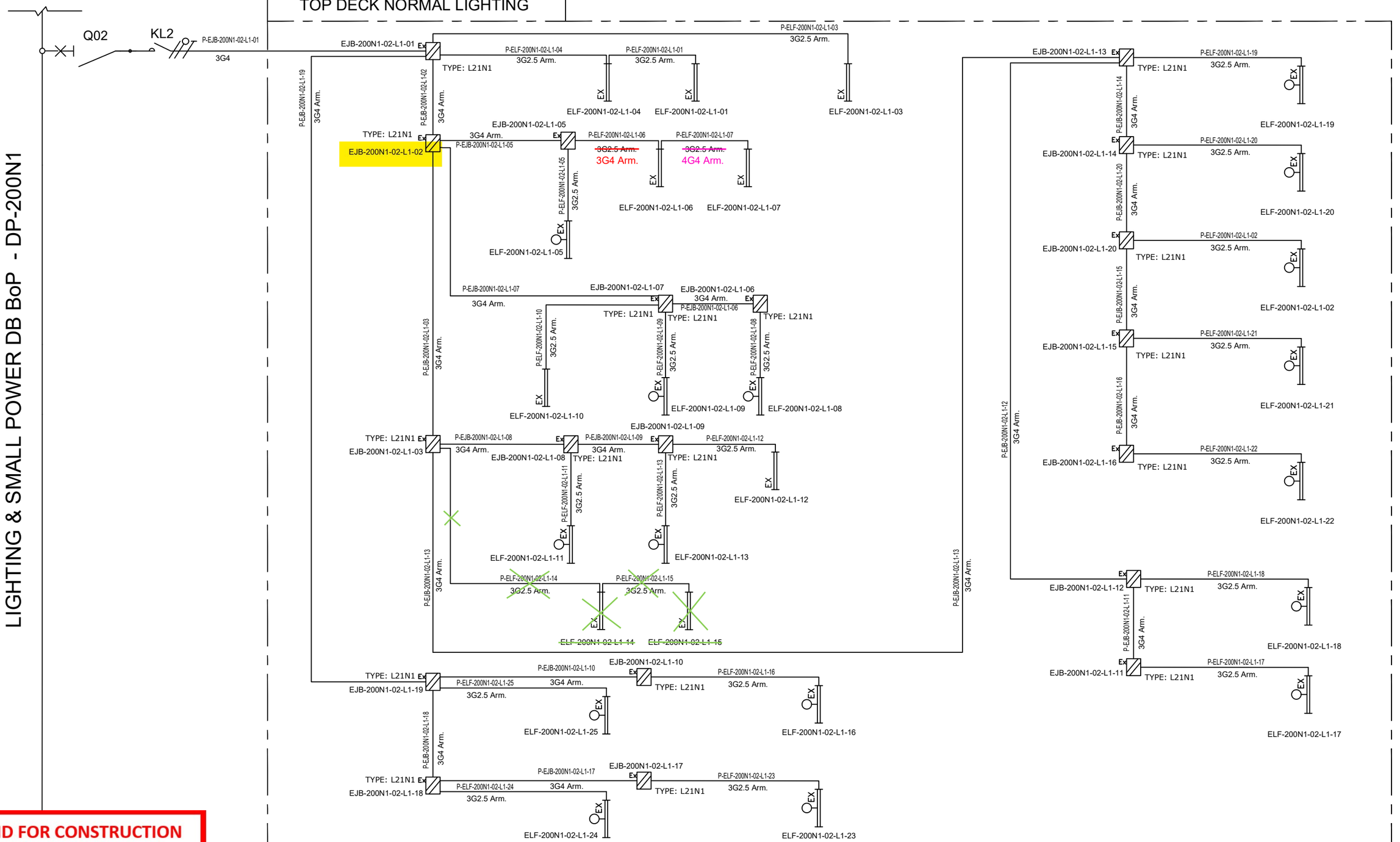
TITLE :
BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET LAYOUT – TOP DECK

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK		SCALE 1:150	
DRAWN ASR	CHECKED FMA/AMA	APPROVED FPA/DLO	DATE 01/08/24
A1	DRAWING NO. 123A90-DDL-EL-DL-20118	SHEET 2of2	REV. 01

File Name : 123A90-DDL-EL-DL-20118

LIGHTING & SMALL POWER DB BoP - DP-200N1

TOP DECK NORMAL LIGHTING



VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DG-20125**

REV.:	DATE:	SIGNATURE:
2_G	16/01/25	G.Randi

ROSETTI MARINO SpA

CROSSWIND

ROSETTI MARINO

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	08/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	01/07/24	ASR	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

TITLE : BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET CIRCUIT DIAGRAM
TOP DECK–NORMAL LIGHTING

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE : NTS

A3

DRAWING NO. 123A90–DDL–EL–DG–20125

SHEET 010

REV. 01

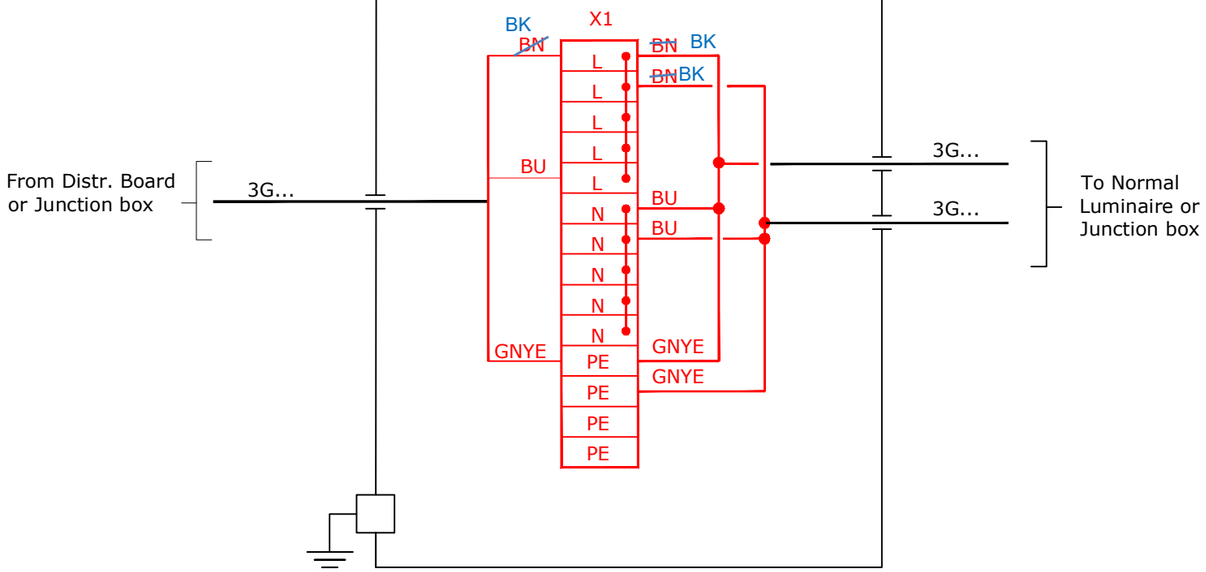
F.to UNI A3: 420mmx297mm

File Name : 123A90–DDL–EL–DG–20125

TYPE : L21N1 & L21N2

ITEM: NORMAL LIGHTING JUNCTION BOX

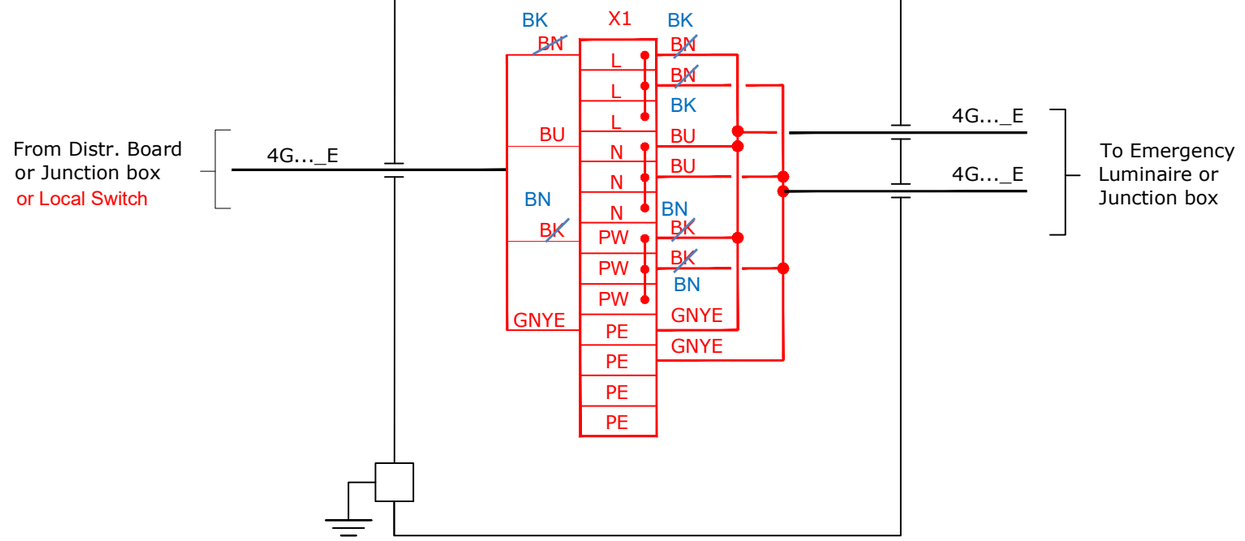
TAG : Typical



TYPE : L21E1 & L21E2

ITEM: EMERGENCY LIGHTING JUNCTION BOX

TAG : Typical



VALID FOR CONSTRUCTION

FDL DWG: **123A90-FDL-EL-DG-20125**

REV.:	DATE:	SIGNATURE:
2_G	16/01/25	G.Randi

ROSETTI MARINO SpA

CROSSWIND

ROSETTI MARINO

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	08/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)

TITLE : BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET CIRCUIT DIAGRAM
TYPICAL JB INTERCONNECTING DIAGRAM

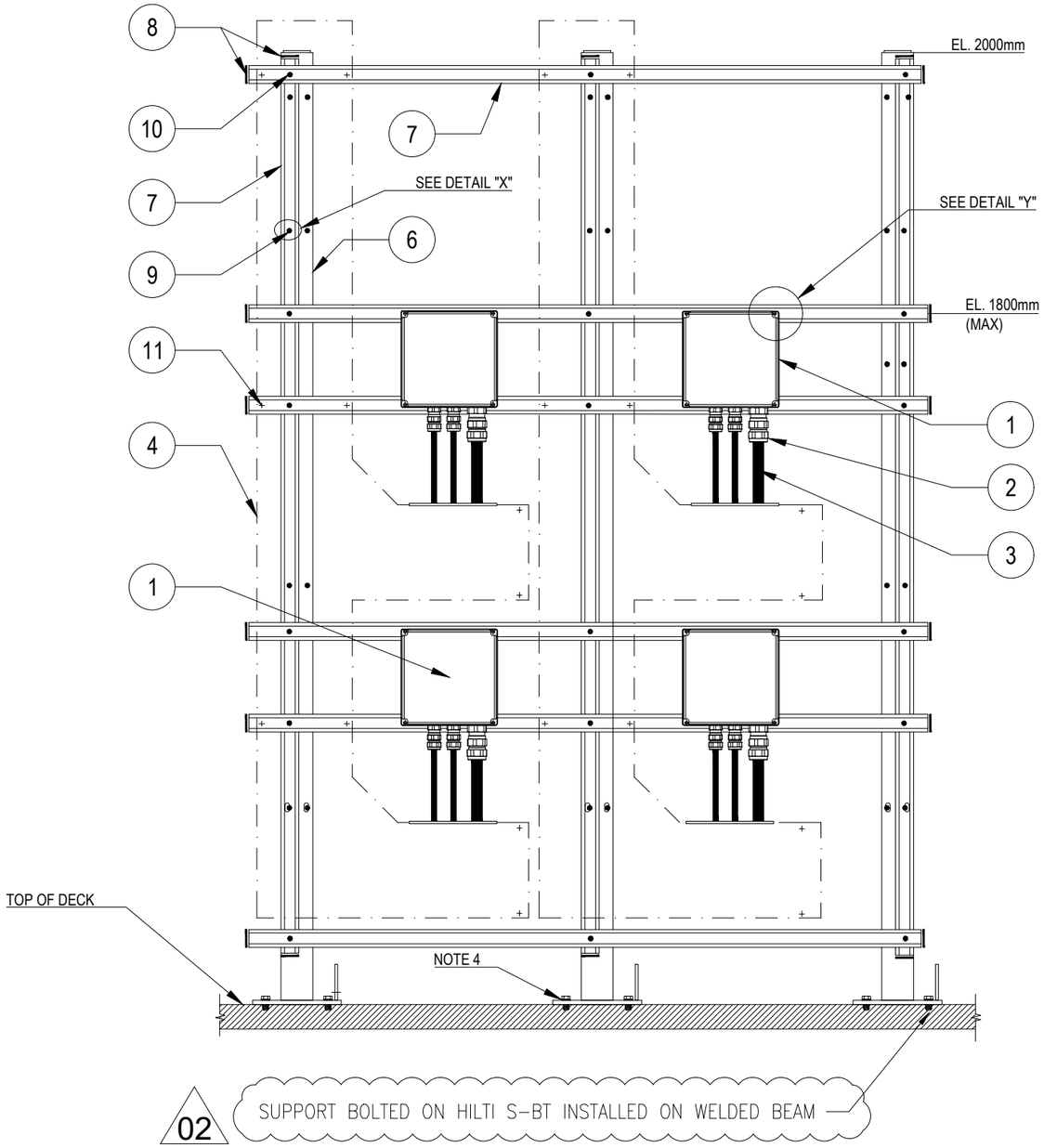
CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK | SCALE : NTS

A3	DRAWING NO.	SHEET	REV.
	123A90-DDL-EL-DG-20125	016	01

F.to UNI A3: 420mmx297mm

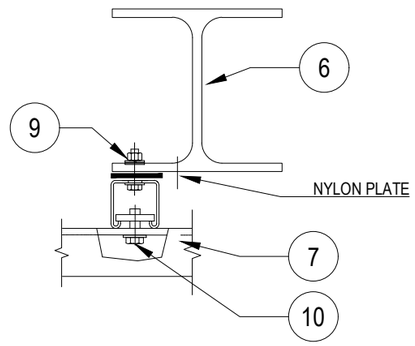
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L21

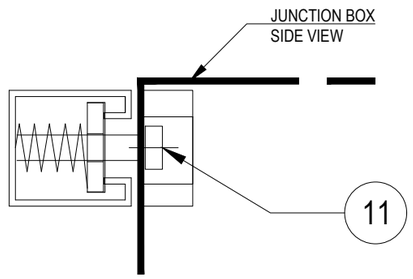


02 SUPPORT BOLTED ON HILTI S-BT INSTALLED ON WELDED BEAM

POS.	DESCRIPTION	MATERIAL	SIZE	Q.TY	NOTE
1	JUNCTION BOX (Ex)	GRP			
2	CABLE GLAND (Ex) FOR ARMOURED/UNARMOURED CABLE	NICK.PL.BRASS			NOTE 2
3	ARMOURED/UNARMOURED CABLE				
4	CABLE LADDER WITH COVER	AISI 316L			
6	PROFILE SUPPORT	PAINTED C.S			
7	SINGLE U-CHANNEL PERFORATED ON NO. 3 SIDE	AISI 316L	41x41x2		NOTE 1
8	PLUG FOR U-CHANNEL	LPDE			
9	HEXAGONAL BOLT M10X40 WITH LARGE PLANE WASHER, NYLON PLANE WASHER, PLANE WASHERS, GROWER SPRING WASHER AND NUT	AISI 316L	M10x40		
10	HEXAGONAL BOLT M12X30 COMPLETE WITH LARGE PLANE WASHER, PLANE WASHER AND NUT FOR U-CHANNEL WITH SPRING	AISI 316L	M12x30		
11	ALLEN KEY BOLT COMPLETE WITH PLANE WASHER, NUT FOR U-CHANNEL WITH SPRING	AISI 316L	M6x30		NOTE 3



DETAIL "X"



DETAIL "Y"

NOTES:

1) THE EXACT DIMENSIONS WILL BE DEFINED DURING ASSEMBLY PHASE.
2) CABLE GLAND COMPLETE WITH LOCKNUT, NYLON WASHER, SERRATED WASHER, EXTERNAL RUBBER RING AND EARTH TAG (IF NECESSARY).
3) FOR INSTRUMENT JUNCTION BOX USE HEXAGONAL BOLT M10X30 COMPLETE WITH PLANE WASHER, GROWER AND NUT FOR U-CHANNEL WITH SPRING
4) SUPPORT BOLTED ON HILTI S-BT INSTALLED ON THE DECK

VALID FOR CONSTRUCTION

REV.:	DATE:	SIGNATURE:
2_B	12/12/24	C.Pilato

ROSETTI MARINO SpA

CROSSWIND

ROSETTI MARINO

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	30/09/24	GRA	AMA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	04/07/24	NLK	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	21/11/23	SPS	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL TYPICAL INSTALLATION DETAILS-LIGHTING SYSTEM
JUNCTION BOXES MOUNTED RACK SUPPORT

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK | SCALE : NTS

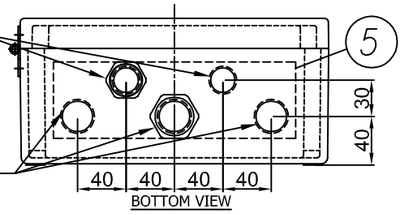
A3 | DRAWING NO. 123A90-DDL-EL-DD-20091 | SHEET 005 | REV. 02

F.to UNI A3: 420mmx297mm

File Name : 123A90-DDL-EL-DD-20091 REV.02.DWG

(10)(4) N°2 PASSING HOLES Ø20.2
C/W N°1 BNK PLUG M20 +
N°1 DUSTPROOF PVC PLUG

(3)(3) N°3 PASSING HOLES Ø25.2
C/W N°1 BNK PLUG M25 +
N°1 DUSTPROOF PVC PLUG



BOTTOM VIEW

(8) I2400722-B015I00029809

TECHNOR ITALSMEA
A COMPANY OF MARECHAL ELECTRIC
Via Italia 33 - 20060 Cassano (MI) ITALY

CE 0080 Ex II 2G II 2D
FIDI 21ATEX 0090X
IECEx FIDI 21.0015X
Year of construction:

MADE IN ITALY

TYPE: AQ-252612P
230VAC 50Hz 20A
Max Dis. P. 6W

Ex eb IIC T6 Gb
Ex tb IIIC T85°C Db
IP66
T.amb. -20/+40°C
Serial Nr.

WARNINGS : DO NOT OPEN WHEN ENERGIZED

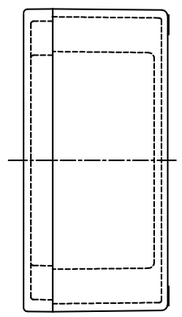
A002MAX

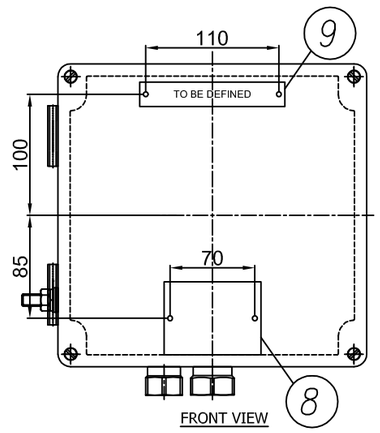
(9) PLATE DETAIL



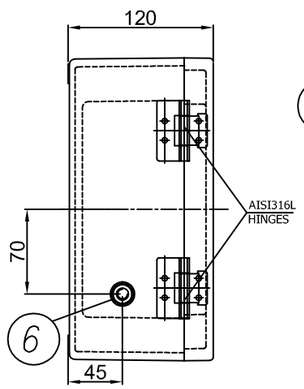
MATERIAL: LAMINATED PLASTIC
BACKGROUND: WHITE
LETTERS: BLACK

(7) JB for Normal Lighting have terminals bridge: L-L-L-L-L, N-N-N-N-N, PE-PE-PE-PE-PE - JB for Emergency Lighting have terminals bridge: L-L-L, N-N-N, PW-PW-PW, PE-PE-PE-PE-PE

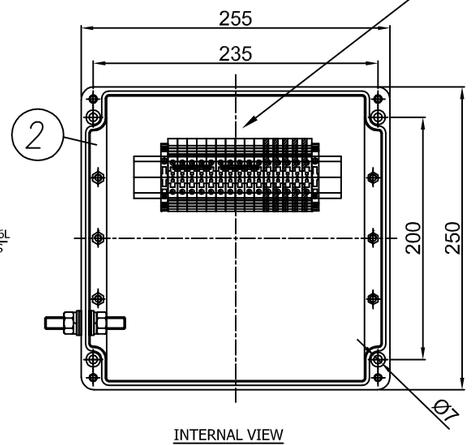

RIGHT VIEW



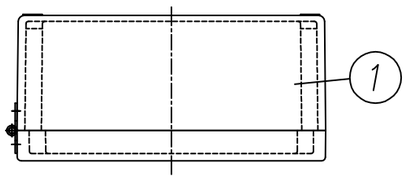
FRONT VIEW



LEFT VIEW



INTERNAL VIEW



TOP VIEW

ITEM	DESCRIPTION	Pcs Q.TY	NOTE/MAT.	CODE	MANUFACTURER
11	DUSTPROOF PVC PLUG Ø25	2	–	.	TECHNOR ITALSMEA
10	DUSTPROOF PVC PLUG Ø20	1	–	.	TECHNOR ITALSMEA
9	LAMINATED PLASTIC TAG 120X20	1	–	.	TECHNOR ITALSMEA
8	AISI316L CERTIFICATE PLATE 80X60	1	–	.	TECHNOR ITALSMEA
7	BEIGE TERMINAL BLOCK SIZE 6 SQMM EARTH TERMINAL BLOCK SIZE 6 SQMM	105	WDU–6 WPE–6	.	WEIDMULLER
6	AISI316L INT/EXT EARTH BOLT M10	1	BTP–10	.	TECHNOR ITALSMEA
5	BRASS CONTINUITY PLATE THK. 0.8 MM	1	–	.	TECHNOR ITALSMEA
4	NICKEL PLATED BRASS PLUG M20	1	T20	.	TECHNOR ITALSMEA
3	NICKEL PLATED BRASS PLUG M25	1	T25	.	TECHNOR ITALSMEA
2	INTERNAL MOUNTING PLATE	1	PS–2526	.	TECHNOR ITALSMEA
1	GRP ENCLOSURE	1	AQ–252612P	.	TECHNOR ITALSMEA

-UNPAINTED (BLACK NATURAL)
Q.TY 92, ITEM 20: 2JBXXGPEE, ELEJB02

Explosion Proof
Electrical Equipment
Materiali Elettrici Antideflagranti

TECHNOR ITALSMEA
A COMPANY OF MARECHAL ELECTRIC

CROSSWIND

ROSETTI MARINO

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
04	26/11/24	FB	OB	OB	ACCEPTED FOR CONSTRUCTION (AFC)
03	25/10/24	FB	OB	OB	ACCEPTED FOR CONSTRUCTION (AFC)
02	12/09/24	FB	OB	OB	ACCEPTED FOR CONSTRUCTION (AFC)
01	03/09/24	FB	OB	OB	ACCEPTED FOR CONSTRUCTION (AFC)
00	30/07/24	FB	OB	OB	ISSUE FOR REVIEW (IFR)

TITLE : BASE LOAD POWER HUB (BLPH)

Junction Box for Normal & Emergency Lighting

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE : NTS

A3

DRAWING NO. 1724001481-EL-DA-00003

SHEET 004

REV. 04

F.to UNI A3: 420mmx297mm

File Name : 1724001481-EL-DA-00003 Rev. 01

ENCLOSURE N°	TAG LIST	NORMAL LIGHTNING	EMERGENCY LIGHTNING
1	EJB-200N1-03-L2-04	X	
2	EJB-200N1-03-L2-03	X	
3	EJB-200N1-03-L2-01	X	
4	EJB-200N1-03-L2-02	X	
5	EJB-200N1-03-L2-12	X	
6	EJB-200N1-03-L2-11	X	
7	EJB-200N1-03-L2-10	X	
8	EJB-200N1-03-L2-09	X	
9	EJB-200N1-03-L2-08	X	
10	EJB-200N1-03-L2-07	X	
11	EJB-200N1-03-L2-06	X	
12	EJB-200N1-03-L2-05	X	
13	EJB-200N1-03-L2-14	X	
14	EJB-200N1-03-L2-13		X
15	EJB-200N1-09-L2-17		X
16	EJB-200N1-09-L2-01		X
17	EJB-200N1-09-L2-04		X
18	SPARE (TO BE PROVIDED BLANK)		X
19	EJB-200N1-09-L2-02		X
20	EJB-200N1-09-L2-15		X
21	EJB-200N1-09-L2-14		X
22	EJB-200N1-09-L2-13		X
23	EJB-200N1-09-L2-12		X
24	EJB-200N1-09-L2-11		X
25	EJB-200N1-09-L2-10		X
26	EJB-200N1-09-L2-09		X
27	EJB-200N1-09-L2-08		X
28	EJB-200N1-09-L2-07		X
29	EJB-200N1-09-L2-06		X
30	EJB-200N1-09-L2-05		X
31	EJB-200N1-09-L2-16	X	
32	EJB-200N1-04-L3-01	X	
33	EJB-200N1-04-L3-02	X	
34	EJB-200N1-10-L3-05		X
35	EJB-200N1-10-L3-06		X
36	EJB-200N1-10-L3-07		X
37	EJB-200N1-10-L3-08		X
38	EJB-200N1-10-L3-09		X
39	EJB-200N1-10-L3-02		X
40	EJB-200N1-10-L3-01		X
41	EJB-200N1-10-L3-03		X
42	EJB-200N1-10-L3-04		X
43	EJB-200N1-02-L1-03	X	
44	EJB-200N1-02-L1-02	X	
45	EJB-200N1-02-L1-01	X	
46	SPARE (TO BE PROVIDED BLANK)	X	
47	EJB-200N1-02-L1-10	X	
48	EJB-200N1-02-L1-19	X	
49	EJB-200N1-02-L1-18	X	

ENCLOSURE N°	TAG LIST	NORMAL LIGHTNING	EMERGENCY LIGHTNING
50	EJB-200N1-02-L1-17	X	
51	EJB-200N1-02-L1-16	X	
52	EJB-200N1-02-L1-15	X	
53	EJB-200N1-02-L1-14	X	
54	EJB-200N1-02-L1-13	X	
55	EJB-200N1-02-L1-12	X	
56	EJB-200N1-02-L1-11	X	
57	EJB-200N1-02-L1-06	X	
58	EJB-200N1-02-L1-05	X	
59	EJB-200N1-02-L1-07	X	
60	EJB-200N1-02-L1-08	X	
61	EJB-200N1-02-L1-09	X	
62	EJB-200N1-08-L1-03		X
63	SPARE (TO BE PROVIDED BLANK)		X
64	EJB-200N1-08-L1-01		X
65	EJB-200N1-08-L1-04		X
66	EJB-200N1-08-L1-19		X
67	EJB-200N1-08-L1-18		X
68	EJB-200N1-08-L1-17		X
69	EJB-200N1-08-L1-16		X
70	EJB-200N1-08-L1-15		X
71	EJB-200N1-08-L1-14		X
72	~~EJB-200N1-08-L1-13~~ EJB-200N1-02-L1-20	X	
73	EJB-200N1-08-L1-12		X
74	EJB-200N1-08-L1-11		X
75	EJB-200N1-08-L1-10		X
76	EJB-200N1-08-L1-20		X
77	EJB-200N1-08-L1-05		X
78	EJB-200N1-08-L1-06		X
79	EJB-200N1-08-L1-07		X
80	EJB-200N1-08-L1-09		X
81	EJB-200N1-08-L1-08		X
82	EJB-200F2-01	X	
83	EJB-200F2-02	X	
84	SPARE (TO BE PROVIDED BLANK)	X	
85	SPARE (TO BE PROVIDED BLANK)	X	
86	SPARE (TO BE PROVIDED BLANK)	X	
87	SPARE (TO BE PROVIDED BLANK)	X	
88	SPARE (TO BE PROVIDED BLANK)	X	
89	SPARE (TO BE PROVIDED BLANK)		X
90	SPARE (TO BE PROVIDED BLANK)		X
91	SPARE (TO BE PROVIDED BLANK)		X
92	SPARE (TO BE PROVIDED BLANK)		X

Q.TY 92, ITEM 20: 2JBXXGPEE, ELEJB02

Explosion Proof
Electrical Equipment
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ROSETTI MARINO

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TITLE : BASE LOAD POWER HUB (BLPH)

Junction Box for Normal & Emergency Lighting–Tag List

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE : NTS

A3

DRAWING NO. 1724001481-EL-DA-00003

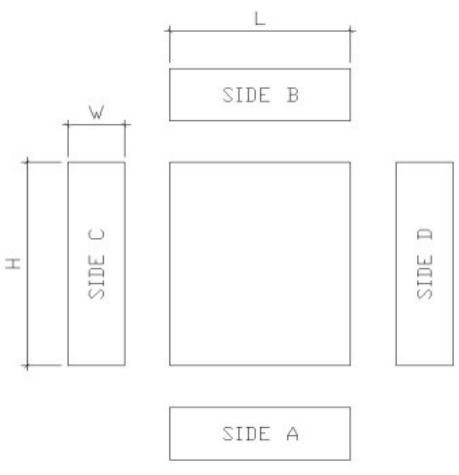
SHEET 005

REV. 04

F.to UNI A3: 420mmx297mm

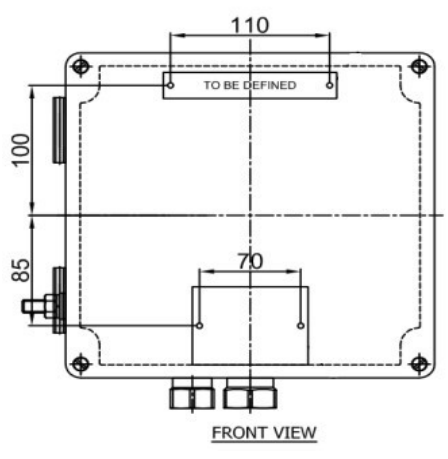
File Name : 1724001481-EL-DA-00003 Rev. 01

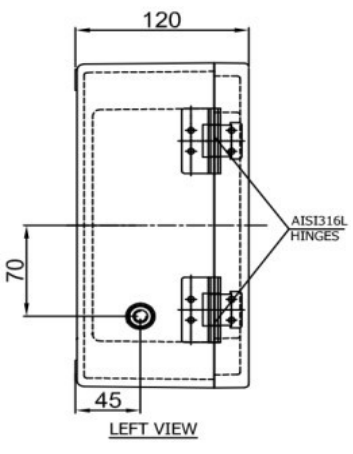
Row	Data Sheet for Control Stations, Junction Boxes and Sockets				Rev.
1	Junction Box for Normal & Emergency Lighting (Exdb)				
2	Item	Required	Manufacturer Proposal	Comments	
3	Model Number	by Vendor	AQ-252612P		01
4	Serial Number	by Vendor	B011041010004		01
5	Quantity	43+5(spare)		(39+9 spare)	01
6	Appkication	Lighting pole JB/Lighting JB			00
7	**Installation area**				
8	Indoor/Outdoor	Outdoor			00
9	Safe Area/Hazardous Area	Hazardous area			00
10	Zone 1/Zone 2	Zone-1			00
11	Temp. Class	Zone 1 Gas Group IIC (or) IIB + H2, T1	Ex eb IIC, T6 Gb		01
12	**Electrical input data**				
13	Voltage	230 V ac	230 V ac		01
14	Number of Phases	1ph + N + PE			00
15	**Material**				
16	Body	GRP	GRP		01
17	Execution	Ex eb	Ex eb		00
18	Protection Degree	IP56	IP 66		01
19	**Accessories**				
20	Hinged Cover	Required	AISI316L Hinges		01
21	Gasket	Required			00
22	Removable Gland Plates	Required	Brass Continuity plate 0.8mm thick		01
23	Internal Mounting Plate	Thickness 3mm threaded		connected to Internal ground bar	00
24	Internal Ground Bar	Required		connected to earth stud	00
25	Earth Stud	Required			00
26	Drainage Valve	Required			00
27	Pad lockable Cover	Required			00
28	Identification Label	Trafolite/ Stainless Steel	Laminated Plastic	for all label	01
29	**Side 'A'**				
30	Hubs Qty.	5	5		01
31	Size	No.3 M25, No.2 M20	No.3 Ø 25.2 mm, No.2 Ø 20.2 mm		01
32	Thread	ISO-M			00
33	Plug	No. 1 M20, No.1 M25	No. 1 Ø 20.2 mm, No.1 Ø 25.2 mm	nickel-plated brass	01
34	**Side 'B'**				
35	Hubs Qty.	Not Required			00
36	Size	NA			00
37	Thread	NA			00
38	**Side 'C'**				
39	Hubs Qty.	Not Required			00
40	Size	NA			00
41	Thread	NA			00
42	**Side 'D'**				
43	Hubs Qty.	Not Required			00
44	Size	NA			00
45	Thread	NA			00
46	**Terminals**				
47	Size [mm^2]	Suitable for 6 Sq.mm & 2.5 Sq.mm Cable	M25 & M20	suitable with wire-end ferrules DIN 46228	01
48	Qty.	n°5 for Ph // n°5 for N // n°5 for PE	n°5 for Ph // n°5 for N // n°5 for PE	Ex - jumpered	01
49	**Bonding Cable (yellow/Green)**				
50	Size [mm^2]	by vendor		6 mm^2	01
51	Qty.	Min. 0.15m			00
52	**Dimension**				
53	Height 'H' [mm]	by vendor	120 mm		01
54	Width 'W' [mm]	by vendor	250 mm		01
55	Length 'L' [mm]	by vendor	255 mm		01
56	Weight [Kg]	by vendor	2.65 Kg		01
57	JB Code (*)	Remarks			
58					



NOTES:

(*) Filled by Vendor





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Tag Number	Tag Description	Location	P.O.	Vendor	Manufacturer	Serial Number	Model Type Catalogue Number	Installation Zone	ATEX Certificate Number	Reference Document	ATEX Certification Marking	Notes / Comments	Skid / Package	Electrical Equip.	Barrier Calculation Ref.	Special Conditions of Safe Use Applicable	3D Location
CB-200F4B	AC UPS F&G - Battery Isolator-B	CONTAINER B-300 (LOWER DECK)	1724000372	3W Power	Cortem Spa		EJBC	Zone 1	EPT 20 ATEX 4075X	1724000372-EL-DG-00011	II 2GDEx db IIC T6 Gb Ex tb IIIC T 85°C Db	-	N/A	True	N/A	False	
EAT-200N1-01	Trace Heating - Remote Ambient Thermostat	LOWER DECK	1724001647	nVent	nVent	1244-022663	ETS-05-A2-E-A	Zone 1	Baseefa 13ATEX0137	1724001647-EL-DD-00004	II 2(1)G Ex eb ia mb [ia Ga] IIC T5 Gb - 40ºC ≤ Ta ≤ +60ºC II 2D Ex tb IIIC T100ºC Db	-	N/A	True	N/A	False	
EHT-1001-A	Self-regulating heat cable	LOWER DECK	1724001647	nVent	nVent	469145-000	3BTV2-CT	Zone 1	SGS20ATEX0048X	1724001647-EL-DD-00004	II 2 GD Ex 60079-30-1 eb IIC T6 Gb	-	N/A	True	N/A	True	
EHT-1002-A	Self-regulating heat cable	LOWER DECK	1724001647	nVent	nVent	469145-000	3BTV2-CT	Zone 1	SGS20ATEX0048X	1724001647-EL-DD-00004	II 2 GD Ex 60079-30-1 eb IIC T6 Gb	-	N/A	True	N/A	True	
EHT-1003-A	Self-regulating heat cable	LOWER DECK	1724001647	nVent	nVent	469145-000	3BTV2-CT	Zone 1	SGS20ATEX0048X	1724001647-EL-DD-00004	II 2 GD Ex 60079-30-1 eb IIC T6 Gb	-	N/A	True	N/A	True	
EHT-1004-A	Self-regulating heat cable	UPPER DECK	1724001647	nVent	nVent	469145-000	3BTV2-CT	Zone 1	SGS20ATEX0048X	1724001647-EL-DD-00004	II 2 GD Ex 60079-30-1 eb IIC T6 Gb	-	N/A	True	N/A	True	
EHT-1004-B	Self-regulating heat cable	UPPER DECK	1724001647	nVent	nVent	469145-000	3BTV2-CT	Zone 1	SGS20ATEX0048X	1724001647-EL-DD-00004	II 2 GD Ex 60079-30-1 eb IIC T6 Gb	-	N/A	True	N/A	True	
EHT-1005-A	Self-regulating heat cable	UPPER DECK	1724001647	nVent	nVent	469145-000	3BTV2-CT	Zone 1	SGS20ATEX0048X	1724001647-EL-DD-00004	II 2 GD Ex 60079-30-1 eb IIC T6 Gb	-	N/A	True	N/A	True	
EHT-1006-A	Self-regulating heat cable	UPPER DECK	1724001647	nVent	nVent	469145-000	3BTV2-CT	Zone 1	SGS20ATEX0048X	1724001647-EL-DD-00004	II 2 GD Ex 60079-30-1 eb IIC T6 Gb	-	N/A	True	N/A	True	
EHT-1007-A	Self-regulating heat cable	LOWER DECK	1724001647	nVent	nVent	469145-000	3BTV2-CT	Zone 1	SGS20ATEX0048X	1724001647-EL-DD-00004	II 2 GD Ex 60079-30-1 eb IIC T6 Gb	-	N/A	True	N/A	True	
EHT-2002-A	Self-regulating heat cable	UPPER DECK	1724001647	nVent	nVent	469145-000	3BTV2-CT	Zone 1	SGS20ATEX0048X	1724001647-EL-DD-00004	II 2 GD Ex 60079-30-1 eb IIC T6 Gb	-	N/A	True	N/A	True	
EJB-200F2-01	Top Obstruction Lights Junction Box	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990082	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	HAZARDOUS-AREA_8 HAZARDOUS-AREA_3
EJB-200F2-02	Intermediate obstruction lights junction box	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990083	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	HAZARDOUS-AREA_4
EJB-200N1-02-L1-01	Normal Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990045	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-02-L1-02	Normal Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990044	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-02-L1-03	Normal Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990043	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	HAZARDOUS-AREA_3
EJB-200N1-02-L1-05	Normal Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990058	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-02-L1-06	Normal Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990057	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-02-L1-07	Normal Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990059	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-02-L1-08	Normal Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990060	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-02-L1-09	Normal Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990061	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-02-L1-10	Normal Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990047	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-02-L1-11	Normal Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990056	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-02-L1-12	Normal Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990055	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-02-L1-13	Normal Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990054	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-02-L1-14	Normal Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990053	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-02-L1-15	Normal Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990052	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-02-L1-16	Normal Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990051	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-02-L1-17	Normal Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990050	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-02-L1-18	Normal Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990049	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-02-L1-19	Normal Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990048	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-02-L1-20	Normal Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990072	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-03-L2-01	Normal Lighting JB	LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990003	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-03-L2-02	Normal Lighting JB	LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990004	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-03-L2-03	Normal Lighting JB	LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990002	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-03-L2-04	Normal Lighting JB	LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990001	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-03-L2-05	Normal Lighting JB	LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990012	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-03-L2-06	Normal Lighting JB	LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990011	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-03-L2-07	Normal Lighting JB	LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990010	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-03-L2-08	Normal Lighting JB	LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990009	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-03-L2-09	Normal Lighting JB	LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990008	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-03-L2-10	Normal Lighting JB	LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990007	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-03-L2-11	Normal Lighting JB	LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990006	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-03-L2-12	Normal Lighting JB	LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990005	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-03-L2-13	Normal Lighting JB	LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990014	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-03-L2-14	Normal Lighting JB	LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990013	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-04-L3-01	Stair Normal Lighting JB	LOWER DECK STAIRS	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990032	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-04-L3-02	Stair Normal Lighting JB	LOWER DECK STAIRS	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990033	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-08-L1-01	Emergency Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990064	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-08-L1-03	Emergency Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990062	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	HAZARDOUS-AREA_3
EJB-200N1-08-L1-04	Emergency Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990065	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-08-L1-05	Emergency Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990077	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-08-L1-06	Emergency Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990078	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	

IECEx Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION
IEC Certification System for Explosive Atmospheres

for rules and details of the IECEx Scheme visit www.iecex.com

Certificate No.:	**IECEx FIDI 21.0015X**	Page 1 of 4	Certificate history: Issue 0 (2022-02-18)
Status:	**Current**	Issue No: 1	
Date of Issue:	2023-05-04		

Applicant: **Technor Italsmea S.p.A.**
Via Italia 33
20060 Gessate (MI)
Italy

Equipment: **Junction boxes, local control stations and local control panels**

Optional accessory: Model reference: AQ-***P / AQ-***AL / AR-***P / AR-***AL / AQ-***P-HT / AQ-***AL-HT / AR-***P-HT / AR-***AL-HT / SB-*** / ST-*** / EFE-*** / EFXE-*** AL/ EFXE-***SB / EFXE-***ST / EFE-***-HT / EFXE-***AL-HT

Type of Protection: **Flameproof enclosure 'db'; Intrinsic safety 'ia/ib'; Increased safety 'eb'; Encapsulation 'mb', Protection by enclosure 'tb'**

Marking: **Ex ia IIC/IIB T6...T4 Ga**(2) or

Ex db eb ia/ib mb [(3)] IIC/IIB T6...T4 Gb(1) or

Ex eb IIC/IIB T6...T4 Gb(1) or

Ex tb IIIC T85°C...T135°C Db

(1) Others type of protection additional to Ex e/eb depending to the components actually mounted.

(2) In case of enclosures containing Ex e/Ex eb terminals and/or Ex ia Ga already certified components (with compatible marking) only.

(3) Associated equipment protection depending on the components actually mounted (see lists): e.g. [ia/ib/ia Ga/ia IIIC Da] and/or [ia IIIC Da] or [ia/ib/ia Ga/ia IIIC Da] and/or [ia/ib/ia Ga] [ia IIIC Da]

Approved for issue on behalf of the IECEx Certification Body: **Marino Kelava**

Position: **Certification Signatory**

Signature:
(for printed version)

Date:
(for printed version)

1. This certificate and schedule may only be reproduced in full.
2. This certificate is not transferable and remains the property of the issuing body.
3. The Status and authenticity of this certificate may be verified by visiting www.iecex.com or use of this QR Code.

Certificate issued by:

Fiditas Ltd
Slavka Tomerlina 44
HR-10361 Zagreb-Sesvete
Croatia

Fiditas
explosion safety solutions

IECEx Certificate of Conformity

Certificate No.: **IECEx FIDI 21.0015X**

Date of issue: 2023-05-04 Issue No: 1

Manufacturer: **Technor Italsmea S.p.A.**
Via Italia 33
20060 Gessate (MI)
Italy

Manufacturing locations:

This certificate is issued as verification that a sample(s), representative of production, was assessed and tested and found to comply with the IEC Standard list below and that the manufacturer's quality system, relating to the Ex products covered by this certificate, was assessed and found to comply with the IECEx Quality system requirements.This certificate is granted subject to the conditions as set out in IECEx Scheme Rules, IECEx 02 and Operational Documents as amended

STANDARDS :
The equipment and any acceptable variations to it specified in the schedule of this certificate and the identified documents, was found to comply with the following standards

IEC 60079-0:2017 Explosive atmospheres - Part 0: Equipment - General requirements
Edition:7.0

IEC 60079-1:2014-06 Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"
Edition:7.0

IEC 60079-11:2011 Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"
Edition:6.0

IEC 60079-18:2017 Explosive atmospheres - Part 18: Protection by encapsulation "m"
Edition:4.1

IEC 60079-31:2013 Explosive atmospheres - Part 31: Equipment dust ignition protection by enclosure "t"
Edition:2

IEC 60079-7:2017 Explosive atmospheres - Part 7: Equipment protection by increased safety "e"
Edition:5.1

This Certificate **does not** indicate compliance with safety and performance requirements other than those expressly included in the Standards listed above.

TEST & ASSESSMENT REPORTS:
A sample(s) of the equipment listed has successfully met the examination and test requirements as recorded in:

Test Reports:

HR/FIDI/ExTR21.0016/00 HR/FIDI/ExTR21.0016/01

Quality Assessment Report:

FR/INE/QAR08.0002/15

IECEx Certificate of Conformity

EQUIPMENT:
Equipment and systems covered by this Certificate are as follows:

Junction boxes, local control stations and local control panels series AQ-…..; AR-…..; SB…..; EFE-…..; EFXE-….. use certified enclosures of various sizes, manufactured by Technor Italsmea S.p.A., type: AQ-.... ; AR-....; SB-...; ST- …, certificate IECEx FIDI 21.0012U.

Enclosures coded …-HT are made in glass fiber reinforced polyester resin or in aluminum, and covered by IECEx component certificates: IECEx PTB 08.0003U, enclosure type: 26.****** and IECEx PTB 08.0003U, enclosure type: 25.******.

Enclosures may be equipped with certified Ex equipment or Ex components and Ex terminals listed in manufacturer's documentation. Certified Ex equipment or Ex components and Ex terminals must be used according to data available in related component or equipment certificates, in particular relevant temperature range, voltage and current limitations. The cable glands or plugs, with separate IECEx certificate, made in type of protection ‘eb’ and/or ‘tb’ with appropriate IP protection are mounted according to related manufacturer’s installation instructions. Each enclosure is provided with internal earthing certified terminal or earthing screw or bolt. Metal enclosures are provided by external earthing screw or bolt. Metal and polyester enclosures can be provided by passing through earthing terminals.

All enclosures can be provided by:
- Externally installed accessories as specified in manufacturer documents,
- Drain breath device type ECR3, included in this certificate,
- Internal/external earthing plate.

For other description see Annex.

SPECIFIC CONDITIONS OF USE: YES as shown below:

- Enclosures marked with warning label: “WARNING – POTENTIAL ELECTROSTATIC CHARGING HAZARD – SEE INSTRUCTIONS” must be cleaned only by damp cloth or antistatic products.
- Apparatus equipped with drain / venting valve Technor Italsmea model ECR3:
  - the valve cannot be open when an explosive dust atmosphere is present.
  - The valve can be open when an explosive gas atmosphere is present: when open, the equipment reaches the protection degree IP44.
  - When the valve is left in open position, it should be protected from light exposure.
- On the intrinsic safety terminals, the user must only connect devices with compatible intrinsic safety parameters according to IEC 60079-14.

IECEx Certificate of Conformity

DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)
New IECEx certified Ex products added in the Apparatus list according to list given in HR/FIDI/ ExTR 21.0016/01.

Annex:

IECEx FIDI 21.0015X Technor Equipment Annex1 issue1.pdf

Technical description (continued from original certificate)

Model identification

Junction boxes

A(1)-(2) (3) (4) (5) (6)	(1) –	**Q**: Square size **R**: Rectangular size
	(2) (3) (4)	dimension, in cm
	(5)	Material **P**: Glass fiber reinforced polyester resin **AL**: Aluminium Alloy
	(6)	None: up to internal temperature of 105°C **HT**: up to internal temperature of 130°C
SB- (2) (3) (4)	(2) (3) (4)	dimension, in cm
ST- (2) (3) (4)	(2) (3) (4)	dimension, in cm

Panel boards

EFE- (2) (3) (4) (6)	(2) (3) (4)	dimension, in cm
	(6)	None: up to internal temperature of 105°C **HT**: up to internal temperature of 130°C
EFXE- (2) (3) (4) (5) (6)	(2) (3) (4)	dimension, in cm
	(5)	Material **SB** or **ST**: stainless steel **AL**: Aluminium Alloy
	(6)	None: up to internal temperature of 105°C **HT**: up to internal temperature of 130°C

Technical data:

Electrical data:	According to Ex component to actually installed
Ambient temperature:	-50°C to +95°C Other possible ranges are with: - min temperature: -50°C to -20 °C - max temperature of +40 °C to +95 °C
Mechanical protection:	IP55, IP66 or IP67 depending on model

Temperature class and/or maximum surface temperature of any junction box or control panel depend on ambient temperature and internal power dissipation. The values that must be observed are given in relevant tables in this certificate.

For commercial reasons model name listed in the tables below can be modified as follows: first (2) and second (3) pair of digits can be reversed.

Models sizes

Polyester High Temperature		Aluminium High Temperature	
AQ-080806P-HT	EFE-080806-HT	AQ-080806AL-HT	EFXE-080806AL-HT
AQ-080808P-HT	EFE-080808-HT	AR-081306AL-HT	EFXE-081306AL-HT
AR-081106P-HT	EFE-081106-HT	AR-081806AL-HT	EFXE-081806AL-HT
AR-081108P-HT	EFE-081108-HT	AR-082505AL-HT	EFXE-082505AL-HT
AR-081606P-HT	EFE-081606-HT	AQ-101008AL-HT	EFXE-101008AL-HT
AR-081608P-HT	EFE-081608-HT	AR-101608AL-HT	EFXE-101608AL-HT
AR-081906P-HT	EFE-081906-HT	AR-102008AL-HT	EFXE-102008AL-HT
AR-081908P-HT	EFE-081908-HT	AQ-121208AL-HT	EFXE-121208AL-HT
AR-082306P-HT	EFE-082306-HT	AQ-121209AL-HT	EFXE-121209AL-HT
AR-082308P-HT	EFE-082308-HT	AR-122208AL-HT	EFXE-122208AL-HT
AQ-121209P-HT	EFE-121209-HT	AR-122209AL-HT	EFXE-122209AL-HT
AR-122209P-HT	EFE-122209-HT	AR-123608AL-HT	EFXE-123608AL-HT
AQ-161609P-HT	EFE-161609-HT	AQ-141409AL-HT	EFXE-141409AL-HT
AR-162609P-HT	EFE-162609-HT	AR-142009AL-HT	EFXE-142009AL-HT
AR-163609P-HT	EFE-163609-HT	AQ-161609AL-HT	EFXE-161609AL-HT
AR-165609P-HT	EFE-165609-HT	AR-162609AL-HT	EFXE-162609AL-HT
AQ-202017P-HT	EFE-202017-HT	AR-163609AL-HT	EFXE-163609AL-HT
AR-203017P-HT	EFE-203017-HT	AR-165609AL-HT	EFXE-165609AL-HT
AQ-252612P-HT	EFE-252612-HT	AQ-181810AL-HT	EFXE-181810AL-HT
AQ-252616P-HT	EFE-252616-HT	AR-182810AL-HT	EFXE-182810AL-HT
AR-254012P-HT	EFE-254012-HT	AR-102311AL-HT	EFXE-102311AL-HT
AR-254016P-HT	EFE-254016-HT	AR-202311AL-HT	EFXE-202311AL-HT
AR-256012P-HT	EFE-256012-HT	AR-202318AL-HT	EFXE-202318AL-HT
AR-304020P-HT	EFE-304020-HT	AR-232811AL-HT	EFXE-232811AL-HT
AQ-363609P-HT	EFE-363609-HT	AR-233311AL-HT	EFXE-233311AL-HT
AR-406025P-HT	EFE-406025-HT	AR-233318AL-HT	EFXE-233318AL-HT
AQ-414012P-HT	EFE-414012-HT	AR-234011AL-HT	EFXE-234011AL-HT
AQ-414020P-HT	EFE-414020-HT	AR-234023AL-HT	EFXE-234023AL-HT
		AR-236011AL-HT	EFXE-236011AL-HT
		AR-314011AL-HT	EFXE-314011AL-HT
		AR-314014AL-HT	EFXE-314014AL-HT
		AR-314018AL-HT	EFXE-314018AL-HT
		AR-314023AL-HT	EFXE-314023AL-HT
		AR-316011AL-HT	EFXE-316011AL-HT
		AR-316018AL-HT	EFXE-316018AL-HT
		AQ-606020AL-HT	EFXE-606020AL-HT

Polyester		Aluminium		Stainless steel	
AQ-080806P	EFE-080806	AQ-080806AL	EFXE-080806AL	SB-101210	EFXE-101210SB
AQ-080808P	EFE-080808	AR-081306AL	EFXE-081306AL	SB-151510	EFXE-151510SB
AR-081106P	EFE-081106	AR-081806AL	EFXE-081806AL	SB-142013	EFXE-142013SB
AR-081606P	EFE-081606	AR-081808AL	EFXE-081808AL	SB-202010	EFXE-202010SB
AR-081906P	EFE-081906	AR-082505AL	EFXE-082505AL	SB-202016	EFXE-202016SB
AQ-121209P	EFE-121209	AR-082508AL	EFXE-082508AL	SB-202713	EFXE-202713SB
AR-122209P	EFE-122209	AQ-101008AL	EFXE-101008AL	SB-272713	EFXE-272713SB
AQ-161609P	EFE-161609	AR-101508AL	EFXE-101508AL	SB-203016	EFXE-203016SB
AR-162609P	EFE-162609	AR-101608AL	EFXE-101608AL	SB-273513	EFXE-273513SB
AR-163609P	EFE-163609	AR-102008AL	EFXE-102008AL	SB-282816	EFXE-282816SB
AQ-252612P	EFE-252612	AQ-121208AL	EFXE-121208AL	SB-204016	EFXE-204016SB
AQ-252616P	EFE-252616	AR-122209AL	EFXE-122209AL	SB-353516	EFXE-353516SB
AR-254012P	EFE-254012	AQ-141409AL	EFXE-141409AL	SB-282827	EFXE-282827SB
AR-254016P	EFE-254016	AR-142009AL	EFXE-142009AL	SB-355016	EFXE-355016SB
AR-256012P	EFE-256012	AQ-161609AL	EFXE-161609AL	SB-383816	EFXE-383816SB
AQ-414012P	EFE-414012	AR-162410AL	EFXE-162410AL	SB-384516	EFXE-384516SB
		AR-162609AL	EFXE-162609AL	SB-385716	EFXE-385716SB
		AQ-181810AL	EFXE-181810AL	SB-505016	EFXE-505016SB
		AR-182810AL	EFXE-182810AL	SB-383827	EFXE-383827SB
		AR-202311AL	EFXE-202311AL	SB-575716	EFXE-575716SB
		AR-202318AL	EFXE-202318AL	SB-577620	EFXE-577620SB
		AR-232811AL	EFXE-232811AL	SB-575730	EFXE-575730SB
		AR-233312AL	EFXE-233312AL	SB-769520	EFXE-769520SB
		AR-233318AL	EFXE-233318AL	SB-1258040	EFXE-1258040SB

Enclosure types (Stainless steel)	
ST-101210	EFXE-101210ST
ST-151510	EFXE-151510ST
ST-142013	EFXE-142013ST
ST-202010	EFXE-202010ST
ST-202016	EFXE-202016ST
ST-202713	EFXE-202713ST
ST-272713	EFXE-272713ST
ST-203016	EFXE-203016ST
ST-273513	EFXE-273513ST
ST-282816	EFXE-282816ST
ST-204016	EFXE-204016ST
ST-353516	EFXE-353516ST
ST-282827	EFXE-282827ST
ST-355016	EFXE-355016ST
ST-383816	EFXE-383816ST
ST-384516	EFXE-384516ST
ST-385716	EFXE-385716ST
ST-505016	EFXE-505016ST
ST-383827	EFXE-383827ST
ST-575716	EFXE-575716ST
ST-577620	EFXE-577620ST
ST-575730	EFXE-575730ST
ST-769520	EFXE-769520ST
ST-1258040	EFXE-1258040ST

Note 2 For stainless steel enclosures: dimensions (2) and (3) can be decreased or increased up to 20%, dimensions (4) can be increased up to 500 mm. Model name changes consequently.

Power dissipation – HT glass fiber reinforced polyester resin enclosures

Enclosure types (polyester)		Maximum power dissipation (W) – Tamb. up to **40**°C							
		INTERNAL TEMP.60°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)	INTERNAL TEMP.127°C (T4/T135°C)
AQ-080806P-HT	EFE-080806-HT	3,5	5,2	7,0	7,8	9,6	10,4	11,3	15,2
AQ-080808P-HT	EFE-080808-HT	4,6	6,8	9,1	10,2	12,5	13,7	14,8	19,8
AR-081106P-HT	EFE-081106-HT	4,3	6,4	8,5	9,6	11,8	12,8	13,9	18,6
AR-081108P-HT	EFE-081108-HT	5,6	8,4	11,2	12,6	15,3	16,7	18,1	24,2
AR-081606P-HT	EFE-081606-HT	5,8	8,7	11,6	13,0	15,9	17,4	18,8	25.2
AR-081608P-HT	EFE-081608-HT	6,8	10,2	13,7	15,4	18,8	20,5	22,2	29,7
AR-081906P-HT	EFE-081906-HT	6,4	9,6	12,8	14,4	17,6	19,2	20,8	27,8
AR-081908P-HT	EFE-081908-HT	7,5	11,3	15,1	17,0	20,7	22,6	24,5	32,7
AR-082306P-HT	EFE-082306-HT	7,2	10,8	14,4	16,2	19,8	21,6	23,4	31,3
AR-082308P-HT	EFE-082308-HT	8,5	12,7	16,9	19,0	23,3	25,4	27,5	36,7
AQ-121209P-HT	EFE-121209-HT	8,0	12,0	15,9	17,9	21,9	23,9	25,9	34,7
AR-122209P-HT	EFE-122209-HT	10,8	16,2	21,6	24,3	29,7	32,4	35,1	47,0
AQ-161609P-HT	EFE-161609-HT	10,4	15,6	20,8	23,4	28,6	31,2	33,8	45,2
AR-162609P-HT	EFE-162609-HT	13,4	20,1	26,8	30,2	36,9	40,2	43,6	58,3
AR-163609P-HT	EFE-163609-HT	16,2	24,3	32,4	36,5	44,6	48,6	52,7	70,5
AR-165609P-HT	EFE-165609-HT	21,4	32,0	42,7	48,1	58,7	64,1	69,4	92,9
AQ-202017P-HT	EFE-202017-HT	18,0	26,9	35,9	40,4	49,4	53,9	58,4	78,1
AR-203017P-HT	EFE-203017-HT	20,9	31,3	41,7	47,0	57,4	62,6	67,8	90,8
AQ-252612P-HT	EFE-252612-HT	18,8	28,2	37,6	42,4	51,8	56,5	61,2	81,9
AQ-252616P-HT	EFE-252616-HT	20,8	31,1	41,5	46,7	57,1	62,3	67,5	90,3
AR-254012P-HT	EFE-254012-HT	22,8	34,2	45,7	51,4	62,8	68,5	74,2	99,3
AR-254016P-HT	EFE-254016-HT	26,2	39,3	52,4	58,9	72,0	78,6	85,1	113,9
AR-256012P-HT	EFE-256012-HT	29,0	43,6	58,1	65,3	79,9	87,1	94,4	126,3
AR-304020P-HT	EFE-304020-HT	32,3	48,5	64,7	72,7	88,9	97,0	105,1	140,7
AQ-363609P-HT	EFE-363609-HT	23,0	34,6	46,1	51,8	63,4	69,1	74,9	100,2
AR-406025P-HT	EFE-406025-HT	50,3	75,5	100,7	113,3	138,4	151,0	163,6	218,9
AQ-414012P-HT	EFE-414012-HT	29,1	43,7	58,2	65,5	80,1	87,3	94,6	126,6
AQ-414020P-HT	EFE-414020-HT	36,6	55,0	73,3	82,4	100,8	109,9	119,1	159,4

Enclosure types (polyester)		Maximum power dissipation (W) – Tamb. up to **50**°C							
		INTERNAL TEMP.60°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)	INTERNAL TEMP.127°C (T4/T135°C)
AQ-080806P-HT	EFE-080806-HT	1,7	3,5	5,2	6,1	7,8	8,7	9,6	13,4
AQ-080808P-HT	EFE-080808-HT	2,3	4,6	6,8	8,0	10,2	11,4	12,5	17,5
AR-081106P-HT	EFE-081106-HT	2,1	4,3	6,4	7,5	9,6	10,7	11,8	16,5
AR-081108P-HT	EFE-081108-HT	2,8	5,6	8,4	9,8	12,6	13,9	15,3	21.5
AR-081606P-HT	EFE-081606-HT	2,9	5,8	8,7	10,1	13,0	14,5	15,9	22,3
AR-081608P-HT	EFE-081608-HT	3,4	6,8	10,2	11,9	15,4	17,1	18,8	26,3
AR-081906P-HT	EFE-081906-HT	3,2	6,4	9,6	11,2	14,4	16,0	17,6	24,6
AR-081908P-HT	EFE-081908-HT	3,8	7,5	11,3	13,2	17,0	18,8	20,7	29,0
AR-082306P-HT	EFE-082306-HT	3,6	7,2	10,8	12,6	16,2	18,0	19,8	27,7
AR-082308P-HT	EFE-082308-HT	4,2	8,5	12,7	14,8	19,0	21,1	23,3	32,5
AQ-121209P-HT	EFE-121209-HT	4,0	8,0	12,0	14,0	17,9	19,9	21,9	30,7
AR-122209P-HT	EFE-122209-HT	5,4	10,8	16,2	18,9	24,3	27,0	29,7	41,6
AQ-161609P-HT	EFE-161609-HT	5,2	10,4	15,6	18,2	23,4	26,0	28,6	40,0
AR-162609P-HT	EFE-162609-HT	6,7	13,4	20,1	23,5	30,2	33,5	36,9	51,6
AR-163609P-HT	EFE-163609-HT	8,1	16,2	24,3	28,4	36,5	40,5	44,6	62,3
AR-165609P-HT	EFE-165609-HT	10,7	21,4	32,0	37,4	48,1	53,4	58,7	82,2
AQ-202017P-HT	EFE-202017-HT	9,0	18,0	26,9	31,4	40,4	44,9	49,4	69,1
AR-203017P-HT	EFE-203017-HT	10,4	20,9	31,3	36,5	47,0	52,2	57,4	80,4
AQ-252612P-HT	EFE-252612-HT	9,4	18,8	28,2	32,9	42,4	47,1	51,8	72,5
AQ-252616P-HT	EFE-252616-HT	10,4	20,8	31,1	36,3	46,7	51,9	57,1	79,9
AR-254012P-HT	EFE-254012-HT	11,4	22,8	34,2	39,9	51,4	57,1	62,8	87,9
AR-254016P-HT	EFE-254016-HT	13,1	26,2	39,3	45,8	58,9	65,5	72,0	100,8
AR-256012P-HT	EFE-256012-HT	14,5	29,0	43,6	50,8	65,3	72,6	79,9	111,8
AR-304020P-HT	EFE-304020-HT	16,2	32,3	48,5	56,6	72,7	80,8	88,9	124,4
AQ-363609P-HT	EFE-363609-HT	11,5	23,0	34,6	40,3	51,8	57,6	63,4	88,7
AR-406025P-HT	EFE-406025-HT	25,2	50,3	75,5	88,1	113,3	125,8	138,4	193,8
AQ-414012P-HT	EFE-414012-HT	14,6	29,1	43,7	51,0	65,5	72,8	80,1	112,1
AQ-414020P-HT	EFE-414020-HT	18,3	36,6	55,0	64,1	82,4	91,6	100,8	141,1

Enclosure types (polyester)		Maximum power dissipation (W) – Tamb. up to **55**°C							
		INTERNAL TEMP.65°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)	INTERNAL TEMP.127°C (T4/T135°C)
AQ-080806P-HT	EFE-080806-HT	1,7	2,6	4,4	5,2	7,0	7,8	8,7	12,5
AQ-080808P-HT	EFE-080808-HT	2,3	3,4	5,7	6,8	9,1	10,2	11,4	16,2
AR-081106P-HT	EFE-081106-HT	2,1	3,2	5,3	6,4	8,5	9,6	10,7	15,2
AR-081108P-HT	EFE-081108-HT	2,8	4,2	7,0	8,4	11,2	12,6	13,9	19,8
AR-081606P-HT	EFE-081606-HT	2,9	4,3	7,2	8,7	11,6	13,0	14,5	20,6
AR-081608P-HT	EFE-081608-HT	3,4	5,1	8,5	10,2	13,7	15,4	17,1	24,3
AR-081906P-HT	EFE-081906-HT	3,2	4,8	8,0	9,6	12,8	14,4	16,0	22,8
AR-081908P-HT	EFE-081908-HT	3,8	5,7	9,4	11,3	15,1	17,0	18,8	26,8
AR-082306P-HT	EFE-082306-HT	3,6	5,4	9,0	10,8	14,4	16,2	18,0	25,6
AR-082308P-HT	EFE-082308-HT	4,2	6,3	10,6	12,7	16,9	19,0	21,1	30,0
AQ-121209P-HT	EFE-121209-HT	4,0	6,0	10,0	12,0	15,9	17,9	19,9	28,3
AR-122209P-HT	EFE-122209-HT	5,4	8,1	13,5	16,2	21,6	24,3	27,0	38,3
AQ-161609P-HT	EFE-161609-HT	5,2	7,8	13,0	15,6	20,8	23,4	26,0	36,9
AR-162609P-HT	EFE-162609-HT	6,7	10,1	16,8	20,1	26,8	30,2	33,5	47,6
AR-163609P-HT	EFE-163609-HT	8,1	12,2	20,3	24,3	32,4	36,5	40,5	57,5
AR-165609P-HT	EFE-165609-HT	10,7	16,0	26,7	32,0	42,7	48,1	53,4	75,8
AQ-202017P-HT	EFE-202017-HT	9,0	13,5	22,4	26,9	35,9	40,4	44,9	63,7
AR-203017P-HT	EFE-203017-HT	10,4	15,7	26,1	31,3	41,7	47,0	52,2	74,0
AQ-252612P-HT	EFE-252612-HT	9,4	14,1	23,5	28,2	37,6	42,4	47,1	66,8
AQ-252616P-HT	EFE-252616-HT	10,4	15,6	26,0	31,1	41,5	46,7	51,9	73,7
AR-254012P-HT	EFE-254012-HT	11,4	17,1	28,5	34,2	45,7	51,4	57,1	81,0
AR-254016P-HT	EFE-254016-HT	13,1	19,6	32,7	39,3	52,4	58,9	65,5	92,9
AR-256012P-HT	EFE-256012-HT	14,5	21,8	36,3	43,6	58,1	65,3	72,6	103,0
AR-304020P-HT	EFE-304020-HT	16,2	24,2	40,4	48,5	64,7	72,7	80,8	114,7
AQ-363609P-HT	EFE-363609-HT	11,5	17,3	28,8	34,6	46,1	51,8	57,6	81,8
AR-406025P-HT	EFE-406025-HT	25,2	37,8	62,9	75,5	100,7	113,3	125,8	178,6
AQ-414012P-HT	EFE-414012-HT	14,6	21,8	36,4	43,7	58,2	65,5	72,8	103,0
AQ-414020P-HT	EFE-414020-HT	18,3	27,5	45,8	55,0	73,3	82,4	91,6	130,0

Enclosure types (polyester)		Maximum power dissipation (W) – Tamb. up to **60**°C						
		INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)	INTERNAL TEMP.127°C (T4/T135°C)
AQ-080806P-HT	EFE-080806-HT	1,7	3,5	4,4	6,1	7,0	7,8	11,7
AQ-080808P-HT	EFE-080808-HT	2,3	4,6	5,7	8,0	9,1	10,2	15,2
AR-081106P-HT	EFE-081106-HT	2,1	4,3	5,3	7,5	8,5	9,6	14,3
AR-081108P-HT	EFE-081108-HT	2,8	5,6	7,0	9,8	11,2	12,6	18,7
AR-081606P-HT	EFE-081606-HT	2,9	5,8	7,2	10,1	11,6	13,0	19,4
AR-081608P-HT	EFE-081608-HT	3,4	6,8	8,5	11,9	13,7	15,4	22,9
AR-081906P-HT	EFE-081906-HT	3,2	6,4	8,0	11,2	12,8	14,4	21,4
AR-081908P-HT	EFE-081908-HT	3,8	7,5	9,4	13,2	15,1	17,0	25,3
AR-082306P-HT	EFE-082306-HT	3,6	7,2	9,0	12,6	14,4	16,2	24,1
AR-082308P-HT	EFE-082308-HT	4,2	8,5	10,6	14,8	16,9	19,0	28,3
AQ-121209P-HT	EFE-121209-HT	4,0	8,0	10,0	14,0	15,9	17,9	26,7
AR-122209P-HT	EFE-122209-HT	5,4	10,8	13,5	18,9	21,6	24,3	36,2
AQ-161609P-HT	EFE-161609-HT	5,2	10,4	13,0	18,2	20,8	23,4	34,8
AR-162609P-HT	EFE-162609-HT	6,7	13,4	16,8	23,5	26,8	30,2	44,9
AR-163609P-HT	EFE-163609-HT	8,1	16,2	20,3	28,4	32,4	36,5	54,2
AR-165609P-HT	EFE-165609-HT	10,7	21,4	26,7	37,4	42,7	48,1	71,5
AQ-202017P-HT	EFE-202017-HT	9,0	18,0	22,4	31,4	35,9	40,4	60,1
AR-203017P-HT	EFE-203017-HT	10,4	20,9	26,1	36,5	41,7	47,0	69,9
AQ-252612P-HT	EFE-252612-HT	9,4	18,8	23,5	32,9	37,6	42,4	63,0
AQ-252616P-HT	EFE-252616-HT	10,4	20,8	26,0	36,3	41,5	46,7	69,5
AR-254012P-HT	EFE-254012-HT	11,4	22,8	28,5	39,9	45,7	51,4	76,5
AR-254016P-HT	EFE-254016-HT	13,1	26,2	32,7	45,8	52,4	58,9	87,7
AR-256012P-HT	EFE-256012-HT	14,5	29,0	36,3	50,8	58,1	65,3	97,2
AR-304020P-HT	EFE-304020-HT	16,2	32,3	40,4	56,6	64,7	72,7	108,3
AQ-363609P-HT	EFE-363609-HT	11,5	23,0	28,8	40,3	46,1	51,8	77,1
AR-406025P-HT	EFE-406025-HT	25,2	50,3	62,9	88,1	100,7	113,3	168,7
AQ-414012P-HT	EFE-414012-HT	14,6	29,1	36,4	51,0	58,2	65,5	97,5
AQ-414020P-HT	EFE-414020-HT	18,3	36,6	45,8	64,1	73,3	82,4	122,7

Enclosure types (polyester)		Maximum power dissipation (W) Tamb. up to **95**°C		
		INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)	INTERNAL TEMP.127°C (T4/T135°C)
AQ-080806P-HT	EFE-080806-HT	0,9	1,7	5,6
AQ-080808P-HT	EFE-080808-HT	1,1	2,3	7,3
AR-081106P-HT	EFE-081106-HT	1,1	2,1	6,5
AR-081108P-HT	EFE-081108-HT	1,4	2,8	9,0
AR-081606P-HT	EFE-081606-HT	1,4	2,9	9,2
AR-081608P-HT	EFE-081608-HT	1,7	3,4	10,9
AR-081906P-HT	EFE-081906-HT	1,6	3,2	10,2
AR-081908P-HT	EFE-081908-HT	1,9	3,8	12,1
AR-082306P-HT	EFE-082306-HT	1,8	3,6	11,5
AR-082308P-HT	EFE-082308-HT	2,1	4,2	13,5
AQ-121209P-HT	EFE-121209-HT	2,0	4,0	12,8
AR-122209P-HT	EFE-122209-HT	2,7	5,4	17,3
AQ-161609P-HT	EFE-161609-HT	2,6	5,2	16,6
AR-162609P-HT	EFE-162609-HT	3,4	6,7	21,5
AR-163609P-HT	EFE-163609-HT	4,1	8,1	26,0
AR-165609P-HT	EFE-165609-HT	5,3	10,7	34,2
AQ-202017P-HT	EFE-202017-HT	4,5	9,0	28,7
AR-203017P-HT	EFE-203017-HT	5,2	10,4	33,4
AQ-252612P-HT	EFE-252612-HT	4,7	9,4	30,1
AQ-252616P-HT	EFE-252616-HT	5,2	10,4	33,2
AR-254012P-HT	EFE-254012-HT	5,7	11,4	36,5
AR-254016P-HT	EFE-254016-HT	6,5	13,1	41,9
AR-256012P-HT	EFE-256012-HT	7,3	14,5	46,4
AR-304020P-HT	EFE-304020-HT	8,1	16,2	51,8
AQ-363609P-HT	EFE-363609-HT	5,8	11,5	36,8
AR-406025P-HT	EFE-406025-HT	12,6	25,2	80,6
AQ-414012P-HT	EFE-414012-HT	7,3	14,6	46,6
AQ-414020P-HT	EFE-414020-HT	9,2	18,3	58,6

Power dissipation – HT aluminium alloy enclosures

Enclosure types (aluminium)		Maximum power dissipation (W) – Tamb. up to **40**°C							
		INTERNAL TEMP.60°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)	INTERNAL TEMP.130°C (T4/T135°C)
AQ-080806AL-HT	EFXE-080806AL-HT	5,2	7,8	10,4	11,7	14,3	15,6	16,9	23,4
AR-081306AL-HT	EFXE-081306AL-HT	7,0	10,6	14,1	15,9	19,4	21,2	23,0	31,8
AR-081806AL-HT	EFXE-081806AL-HT	8,9	13,3	17,8	20,0	24,5	26,7	28,9	40,0
AR-082505AL-HT	EFXE-082505AL-HT	10,9	16,4	21,9	24,7	30,1	32,9	35,6	49,4
AQ-101008AL-HT	EFXE-101008AL-HT	8,7	13,0	17,4	19,6	23,9	26,1	28,3	39,2
AR-101608AL-HT	EFXE-101608AL-HT	11,5	17,3	23,1	26,0	31,8	34,7	37,6	52,0
AR-102008AL-HT	EFXE-102008AL-HT	13,4	20,1	26,8	30,2	36,9	40,3	43,6	60,4
AQ-121208AL-HT	EFXE-121208AL-HT	10,8	16,2	21,6	24,3	29,7	32,4	35,1	48,6
AQ-121209AL-HT	EFXE-121209AL-HT	11,6	17,5	23,3	26,2	32,1	35,0	37,9	52,5
AR-122208AL-HT	EFXE-122208AL-HT	15,6	23,5	31,3	35,3	43,1	47,0	50,9	70,6
AR-122209AL-HT	EFXE-122209AL-HT	16,8	25,3	33,7	37,9	46,3	50,6	54,8	75,9
AR-123608AL-HT	EFXE-123608AL-HT	22,3	33,5	44,7	50,3	61,5	67,1	72,7	100,7
AQ-141409AL-HT	EFXE-141409AL-HT	13,7	20,6	27,5	31,0	37,9	41,3	44,8	62,0
AR-142009AL-HT	EFXE-142009AL-HT	17,1	25,7	34,2	38,5	47,1	51,4	55,7	77,1
AQ-161609AL-HT	EFXE-161609AL-HT	16,1	24,1	32,2	36,2	44,2	48,3	52,3	72,4
AR-162609AL-HT	EFXE-162609AL-HT	21,9	32,8	43,8	49,3	60,2	65,7	71,2	98,6
AR-163609AL-HT	EFXE-163609AL-HT	27,5	41,3	55,1	62,0	75,7	82,6	89,5	124,0
AR-165609AL-HT	EFXE-165609AL-HT	38,4	57,7	76,9	86,6	105,8	115,4	125,0	173,2
AQ-181810AL-HT	EFXE-181810AL-HT	19,7	29,6	39,5	44,4	54,3	59,2	64,2	88,8
AR-182810AL-HT	EFXE-182810AL-HT	26,1	39,1	52,2	58,7	71,8	78,3	84,8	117,5
AR-102311AL-HT	EFXE-102311AL-HT	18,2	27,3	36,5	41,0	50,1	54,7	59,3	82,1
AR-202311AL-HT	EFXE-202311AL-HT	26,1	39,1	52,2	58,7	71,7	78,3	84,8	117,4
AR-202318AL-HT	EFXE-202318AL-HT	35,9	53,9	71,8	80,8	98,8	107,8	116,8	161,7
AR-232811AL-HT	EFXE-232811AL-HT	31,6	47,5	63,3	71,3	87,1	95,0	103,0	142,6
AR-233311AL-HT	EFXE-233311AL-HT	35,3	52,9	70,6	79,4	97,0	105,9	114,7	158,8
AR-233318AL-HT	EFXE-233318AL-HT	47,5	71,3	95,1	107,0	130,8	142,7	154,6	214,1
AR-234011AL-HT	EFXE-234011AL-HT	40,2	60,4	80,5	90,6	110,7	120,8	130,9	181,2
AR-234023AL-HT	EFXE-234023AL-HT	62,2	93,3	124,5	140,0	171,2	186,7	202,3	280,1
AR-236011AL-HT	EFXE-236011AL-HT	54,1	81,2	108,3	121,9	148,9	162,5	176,0	243,8
AR-314011AL-HT	EFXE-314011AL-HT	48,6	72,9	97,2	109,3	133,6	145,8	157,9	218,7
AR-314014AL-HT	EFXE-314014AL-HT	54,9	82,4	109,9	123,7	151,2	164,9	178,7	247,4
AR-314018AL-HT	EFXE-314018AL-HT	63,8	95,7	127,6	143,5	175,4	191,4	207,3	287,1
AR-314023AL-HT	EFXE-314023AL-HT	73,5	110,3	147,1	165,5	202,3	220,7	239,1	331,0
AR-316011AL-HT	EFXE-316011AL-HT	64,0	96,0	128,1	144,1	176,1	192,1	208,1	288,2
AR-316018AL-HT	EFXE-316018AL-HT	82,7	124,1	165,5	186,2	227,6	248,3	268,9	372,4
AQ-606020AL-HT	EFXE-606020AL-HT	129,1	193,7	258,3	290,5	355,1	387,4	419,7	581,1

Enclosure types (aluminium)		Maximum power dissipation (W) – Tamb. up to **50**°C							
		INTERNAL TEMP.60°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)	INTERNAL TEMP.130°C (T4/T135°C)
AQ-080806AL-HT	EFXE-080806AL-HT	2,6	5,2	7,8	9,1	11,7	13,0	14,3	20,8
AR-081306AL-HT	EFXE-081306AL-HT	3,5	7,0	10,6	12,3	15,9	17,7	19,4	28,3
AR-081806AL-HT	EFXE-081806AL-HT	4,4	8,9	13,3	15,5	20,0	22,2	24,5	35,6
AR-082505AL-HT	EFXE-082505AL-HT	5,4	10,9	16,4	19,2	24,7	27,4	30,1	43,9
AQ-101008AL-HT	EFXE-101008AL-HT	4,3	8,7	13,0	15,2	19,6	21,7	23,9	34,8
AR-101608AL-HT	EFXE-101608AL-HT	5,7	11,5	17,3	20,2	26,0	28,9	31,8	46,2
AR-102008AL-HT	EFXE-102008AL-HT	6,7	13,4	20,1	23,5	30,2	33,5	36,9	53,7
AQ-121208AL-HT	EFXE-121208AL-HT	5,4	10,8	16,2	18,9	24,3	27,0	29,7	43,2
AQ-121209AL-HT	EFXE-121209AL-HT	5,8	11,6	17,5	20,4	26,2	29,2	32,1	46,7
AR-122208AL-HT	EFXE-122208AL-HT	7,8	15,6	23,5	27,4	35,3	39,2	43,1	62,7
AR-122209AL-HT	EFXE-122209AL-HT	8,4	16,8	25,3	29,5	37,9	42,1	46,3	67,4
AR-123608AL-HT	EFXE-123608AL-HT	11,1	22,3	33,5	39,1	50,3	55,9	61,5	89,5
AQ-141409AL-HT	EFXE-141409AL-HT	6,8	13,7	20,6	24,1	31,0	34,4	37,9	55,1
AR-142009AL-HT	EFXE-142009AL-HT	8,5	17,1	25,7	30,0	38,5	42,8	47,1	68,5
AQ-161609AL-HT	EFXE-161609AL-HT	8,0	16,1	24,1	28,1	36,2	40,2	44,2	64,4
AR-162609AL-HT	EFXE-162609AL-HT	10,9	21,9	32,8	38,3	49,3	54,8	60,2	87,6
AR-163609AL-HT	EFXE-163609AL-HT	13,7	27,5	41,3	48,2	62,0	68,9	75,7	110,2
AR-165609AL-HT	EFXE-165609AL-HT	19,2	38,4	57,7	67,3	86,6	96,2	105,8	153,9
AQ-181810AL-HT	EFXE-181810AL-HT	9,8	19,7	29,6	34,5	44,4	49,3	54,3	79,0
AR-182810AL-HT	EFXE-182810AL-HT	13,0	26,1	39,1	45,7	58,7	65,2	71,8	104,4
AR-102311AL-HT	EFXE-102311AL-HT	9,1	18,2	27,3	31,9	41,0	45,6	50,1	73,0
AR-202311AL-HT	EFXE-202311AL-HT	13,0	26,1	39,1	45,6	58,7	65,2	71,7	104,4
AR-202318AL-HT	EFXE-202318AL-HT	17,9	35,9	53,9	62,8	80,8	89,8	98,8	143,7
AR-232811AL-HT	EFXE-232811AL-HT	15,8	31,6	47,5	55,4	71,3	79,2	87,1	126,7
AR-233311AL-HT	EFXE-233311AL-HT	17,6	35,3	52,9	61,7	79,4	88,2	97,0	141,2
AR-233318AL-HT	EFXE-233318AL-HT	23,7	47,5	71,3	83,2	107,0	118,9	130,8	190,3
AR-234011AL-HT	EFXE-234011AL-HT	20,1	40,2	60,4	70,5	90,6	100,7	110,7	161,1
AR-234023AL-HT	EFXE-234023AL-HT	31,1	62,2	93,3	108,9	140,0	155,6	171,2	249,0
AR-236011AL-HT	EFXE-236011AL-HT	27,0	54,1	81,2	94,8	121,9	135,4	148,9	216,7
AR-314011AL-HT	EFXE-314011AL-HT	24,3	48,6	72,9	85,0	109,3	121,5	133,6	194,4
AR-314014AL-HT	EFXE-314014AL-HT	27,4	54,9	82,4	96,2	123,7	137,4	151,2	219,9
AR-314018AL-HT	EFXE-314018AL-HT	31,9	63,8	95,7	111,6	143,5	159,5	175,4	255,2
AR-314023AL-HT	EFXE-314023AL-HT	36,7	73,5	110,3	128,7	165,5	183,9	202,3	294,2
AR-316011AL-HT	EFXE-316011AL-HT	32,0	64,0	96,0	112,0	144,1	160,1	176,1	256,2
AR-316018AL-HT	EFXE-316018AL-HT	41,3	82,7	124,1	144,8	186,2	206,9	227,6	331,0
AQ-606020AL-HT	EFXE-606020AL-HT	64,5	129,1	193,7	226,0	290,5	322,8	355,1	516,6

Enclosure types (aluminium)		Maximum power dissipation (W) – Tamb. up to **55**°C							
		INTERNAL TEMP.65°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)	INTERNAL TEMP.130°C (T4/T135°C)
AQ-080806AL-HT	EFXE-080806AL-HT	2,6	3,9	6,5	7,8	10,4	11,7	13,0	19,5
AR-081306AL-HT	EFXE-081306AL-HT	3,5	5,3	8,8	10,6	14,1	15,9	17,7	26,5
AR-081806AL-HT	EFXE-081806AL-HT	4,4	6,6	11,1	13,3	17,8	20,0	22,2	33,4
AR-082505AL-HT	EFXE-082505AL-HT	5,4	8,2	13,7	16,4	21,9	24,7	27,4	41,1
AQ-101008AL-HT	EFXE-101008AL-HT	4,3	6,5	10,8	13,0	17,4	19,6	21,7	32,6
AR-101608AL-HT	EFXE-101608AL-HT	5,7	8,6	14,4	17,3	23,1	26,0	28,9	43,3
AR-102008AL-HT	EFXE-102008AL-HT	6,7	10,0	16,7	20,1	26,8	30,2	33,5	50,3
AQ-121208AL-HT	EFXE-121208AL-HT	5,4	8,1	13,5	16,2	21,6	24,3	27,0	40,5
AQ-121209AL-HT	EFXE-121209AL-HT	5,8	8,7	14,6	17,5	23,3	26,2	29,2	43,8
AR-122208AL-HT	EFXE-122208AL-HT	7,8	11,7	19,6	23,5	31,3	35,3	39,2	58,8
AR-122209AL-HT	EFXE-122209AL-HT	8,4	12,6	21,0	25,3	33,7	37,9	42,1	63,2
AR-123608AL-HT	EFXE-123608AL-HT	11,1	16,7	27,9	33,5	44,7	50,3	55,9	83,9
AQ-141409AL-HT	EFXE-141409AL-HT	6,8	10,3	17,2	20,6	27,5	31,0	34,4	51,7
AR-142009AL-HT	EFXE-142009AL-HT	8,5	12,8	21,4	25,7	34,2	38,5	42,8	64,3
AQ-161609AL-HT	EFXE-161609AL-HT	8,0	12,0	20,1	24,1	32,2	36,2	40,2	60,4
AR-162609AL-HT	EFXE-162609AL-HT	10,9	16,4	27,4	32,8	43,8	49,3	54,8	82,2
AR-163609AL-HT	EFXE-163609AL-HT	13,7	20,6	34,4	41,3	55,1	62,0	68,9	103,3
AR-165609AL-HT	EFXE-165609AL-HT	19,2	28,8	48,1	57,7	76,9	86,6	96,2	144,3
AQ-181810AL-HT	EFXE-181810AL-HT	9,8	14,8	24,6	29,6	39,5	44,4	49,3	74,0
AR-182810AL-HT	EFXE-182810AL-HT	13,0	19,5	32,6	39,1	52,2	58,7	65,2	97,9
AR-102311AL-HT	EFXE-102311AL-HT	9,1	13,6	22,8	27,3	36,5	41,0	45,6	68,4
AR-202311AL-HT	EFXE-202311AL-HT	13,0	19,5	32,6	39,1	52,2	58,7	65,2	97,9
AR-202318AL-HT	EFXE-202318AL-HT	17,9	26,9	44,9	53,9	71,8	80,8	89,8	134,7
AR-232811AL-HT	EFXE-232811AL-HT	15,8	23,7	39,6	47,5	63,3	71,3	79,2	118,8
AR-233311AL-HT	EFXE-233311AL-HT	17,6	26,4	44,1	52,9	70,6	79,4	88,2	132,3
AR-233318AL-HT	EFXE-233318AL-HT	23,7	35,6	59,4	71,3	95,1	107,0	118,9	178,4
AR-234011AL-HT	EFXE-234011AL-HT	20,1	30,2	50,3	60,4	80,5	90,6	100,7	151,0
AR-234023AL-HT	EFXE-234023AL-HT	31,1	46,6	77,8	93,3	124,5	140,0	155,6	233,4
AR-236011AL-HT	EFXE-236011AL-HT	27,0	40,6	67,7	81,2	108,3	121,9	135,4	203,1
AR-314011AL-HT	EFXE-314011AL-HT	24,3	36,4	60,7	72,9	97,2	109,3	121,5	182,3
AR-314014AL-HT	EFXE-314014AL-HT	27,4	41,2	68,7	82,4	109,9	123,7	137,4	206,2
AR-314018AL-HT	EFXE-314018AL-HT	31,9	47,8	79,7	95,7	127,6	143,5	159,5	239,2
AR-314023AL-HT	EFXE-314023AL-HT	36,7	55,1	91,9	110,3	147,1	165,5	183,9	275,8
AR-316011AL-HT	EFXE-316011AL-HT	32,0	48,0	80,0	96,0	128,1	144,1	160,1	240,1
AR-316018AL-HT	EFXE-316018AL-HT	41,3	62,0	103,4	124,1	165,5	186,2	206,9	310,3
AQ-606020AL-HT	EFXE-606020AL-HT	64,5	96,8	161,4	193,7	258,3	290,5	322,8	484,3

Enclosure types (aluminium)		Maximum power dissipation (W) – Tamb. up to **60**°C						
		INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)	INTERNAL TEMP.130°C (T4/T135°C)
AQ-080806AL-HT	EFXE-080806AL-HT	2,6	5,2	6,5	9,1	10,4	11,7	18,2
AR-081306AL-HT	EFXE-081306AL-HT	3,5	7,0	8,8	12,3	14,1	15,9	24,7
AR-081806AL-HT	EFXE-081806AL-HT	4,4	8,9	11,1	15,5	17,8	20,0	31,1
AR-082505AL-HT	EFXE-082505AL-HT	5,4	10,9	13,7	19,2	21,9	24,7	38,4
AQ-101008AL-HT	EFXE-101008AL-HT	4,3	8,7	10,8	15,2	17,4	19,6	30,4
AR-101608AL-HT	EFXE-101608AL-HT	5,7	11,5	14,4	20,2	23,1	26,0	40,5
AR-102008AL-HT	EFXE-102008AL-HT	6,7	13,4	16,7	23,5	26,8	30,2	47,0
AQ-121208AL-HT	EFXE-121208AL-HT	5,4	10,8	13,5	18,9	21,6	24,3	37,8
AQ-121209AL-HT	EFXE-121209AL-HT	5,8	11,6	14,6	20,4	23,3	26,2	40,8
AR-122208AL-HT	EFXE-122208AL-HT	7,8	15,6	19,6	27,4	31,3	35,3	54,9
AR-122209AL-HT	EFXE-122209AL-HT	8,4	16,8	21,0	29,5	33,7	37,9	59,0
AR-123608AL-HT	EFXE-123608AL-HT	11,1	22,3	27,9	39,1	44,7	50,3	78,3
AQ-141409AL-HT	EFXE-141409AL-HT	6,8	13,7	17,2	24,1	27,5	31,0	48,2
AR-142009AL-HT	EFXE-142009AL-HT	8,5	17,1	21,4	30,0	34,2	38,5	60,0
AQ-161609AL-HT	EFXE-161609AL-HT	8,0	16,1	20,1	28,1	32,2	36,2	56,3
AR-162609AL-HT	EFXE-162609AL-HT	10,9	21,9	27,4	38,3	43,8	49,3	76,7
AR-163609AL-HT	EFXE-163609AL-HT	13,7	27,5	34,4	48,2	55,1	62,0	96,4
AR-165609AL-HT	EFXE-165609AL-HT	19,2	38,4	48,1	67,3	76,9	86,6	134,7
AQ-181810AL-HT	EFXE-181810AL-HT	9,8	19,7	24,6	34,5	39,5	44,4	69,1
AR-182810AL-HT	EFXE-182810AL-HT	13,0	26,1	32,6	45,7	52,2	58,7	91,4
AR-102311AL-HT	EFXE-102311AL-HT	9,1	18,2	22,8	31,9	36,5	41,0	63,8
AR-202311AL-HT	EFXE-202311AL-HT	13,0	26,1	32,6	45,6	52,2	58,7	91,3
AR-202318AL-HT	EFXE-202318AL-HT	17,9	35,9	44,9	62,8	71,8	80,8	125,7
AR-232811AL-HT	EFXE-232811AL-HT	15,8	31,6	39,6	55,4	63,3	71,3	110,9
AR-233311AL-HT	EFXE-233311AL-HT	17,6	35,3	44,1	61,7	70,6	79,4	123,5
AR-233318AL-HT	EFXE-233318AL-HT	23,7	47,5	59,4	83,2	95,1	107,0	166,5
AR-234011AL-HT	EFXE-234011AL-HT	20,1	40,2	50,3	70,5	80,5	90,6	141,0
AR-234023AL-HT	EFXE-234023AL-HT	31,1	62,2	77,8	108,9	124,5	140,0	217,9
AR-236011AL-HT	EFXE-236011AL-HT	27,0	54,1	67,7	94,8	108,3	121,9	189,6
AR-314011AL-HT	EFXE-314011AL-HT	24,3	48,6	60,7	85,0	97,2	109,3	170,1
AR-314014AL-HT	EFXE-314014AL-HT	27,4	54,9	68,7	96,2	109,9	123,7	192,4
AR-314018AL-HT	EFXE-314018AL-HT	31,9	63,8	79,7	111,6	127,6	143,5	223,3
AR-314023AL-HT	EFXE-314023AL-HT	36,7	73,5	91,9	128,7	147,1	165,5	257,4
AR-316011AL-HT	EFXE-316011AL-HT	32,0	64,0	80,0	112,0	128,1	144,1	224,1
AR-316018AL-HT	EFXE-316018AL-HT	41,3	82,7	103,4	144,8	165,5	186,2	289,6
AQ-606020AL-HT	EFXE-606020AL-HT	64,5	129,1	161,4	226,0	258,3	290,5	452,0

Enclosure types (aluminium)		Maximum power dissipation (W) Tamb. up to **95**°C		
		INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)	INTERNAL TEMP.130°C (T4/T135°C)
AQ-080806AL-HT	EFXE-080806AL-HT	1,3	2,6	9,1
AR-081306AL-HT	EFXE-081306AL-HT	1,7	3,5	12,3
AR-081806AL-HT	EFXE-081806AL-HT	2,2	4,4	15,5
AR-082505AL-HT	EFXE-082505AL-HT	2,7	5,4	19,2
AQ-101008AL-HT	EFXE-101008AL-HT	2,1	4,3	15,2
AR-101608AL-HT	EFXE-101608AL-HT	2,8	5,7	20,2
AR-102008AL-HT	EFXE-102008AL-HT	3,3	6,7	23,5
AQ-121208AL-HT	EFXE-121208AL-HT	2,7	5,4	18,9
AQ-121209AL-HT	EFXE-121209AL-HT	2,9	5,8	20,4
AR-122208AL-HT	EFXE-122208AL-HT	3,9	7,8	27,4
AR-122209AL-HT	EFXE-122209AL-HT	4,2	8,4	29,5
AR-123608AL-HT	EFXE-123608AL-HT	5,5	11,1	39,1
AQ-141409AL-HT	EFXE-141409AL-HT	3,4	6,8	24,1
AR-142009AL-HT	EFXE-142009AL-HT	4,2	8,5	30,0
AQ-161609AL-HT	EFXE-161609AL-HT	4,0	8,0	28,1
AR-162609AL-HT	EFXE-162609AL-HT	5,4	10,9	38,3
AR-163609AL-HT	EFXE-163609AL-HT	6,8	13,7	48,2
AR-165609AL-HT	EFXE-165609AL-HT	9,6	19,2	67,3
AQ-181810AL-HT	EFXE-181810AL-HT	4,9	9,8	34,5
AR-182810AL-HT	EFXE-182810AL-HT	6,5	13,0	45,7
AR-102311AL-HT	EFXE-102311AL-HT	4,5	9,1	31,9
AR-202311AL-HT	EFXE-202311AL-HT	6,5	13,0	45,6
AR-202318AL-HT	EFXE-202318AL-HT	8,9	17,9	62,8
AR-232811AL-HT	EFXE-232811AL-HT	7,9	15,8	55,4
AR-233311AL-HT	EFXE-233311AL-HT	8,8	17,6	61,7
AR-233318AL-HT	EFXE-233318AL-HT	11,8	23,7	83,2
AR-234011AL-HT	EFXE-234011AL-HT	10,0	20,1	70,5
AR-234023AL-HT	EFXE-234023AL-HT	15,5	31,1	108,9
AR-236011AL-HT	EFXE-236011AL-HT	13,5	27,0	94,8
AR-314011AL-HT	EFXE-314011AL-HT	12,1	24,3	85,0
AR-314014AL-HT	EFXE-314014AL-HT	13,7	27,4	96,2
AR-314018AL-HT	EFXE-314018AL-HT	15,9	31,9	111,6
AR-314023AL-HT	EFXE-314023AL-HT	18,3	36,7	128,7
AR-316011AL-HT	EFXE-316011AL-HT	16,0	32,0	112,0
AR-316018AL-HT	EFXE-316018AL-HT	20,6	41,3	144,8
AQ-606020AL-HT	EFXE-606020AL-HT	32,2	64,5	226,0

Power dissipation – Glass fiber reinforced polyester resin enclosures

Enclosure types (polyester)		Maximum power dissipation (W) – Tamb. up to **40**°C						
		INTERNAL TEMP.60°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
AQ-080806P	EFE-080806	3,4	5,2	6,9	7,8	9,5	10,4	11,3
AQ-080808P	EFE-080808	4,5	6,8	9,1	10,2	12,5	13,6	14,7
AR-081106P	EFE-081106	4,2	6,4	8,5	9,6	11,7	12,8	13,8
AR-081606P	EFE-081606	5,7	8,6	11,5	13,0	15,9	17,3	18,8
AR-081906P	EFE-081906	6,4	9,6	12,8	14,4	17,6	19,2	20,8
AQ-121209P	EFE-121209	7,9	11,9	15,9	17,9	21,9	23,9	25,9
AR-122209P	EFE-122209	10,8	16,2	21,6	24,3	29,7	32,4	35,1
AQ-161609P	EFE-161609	10,3	15,5	20,7	23,3	28,5	31,1	33,7
AR-162609P	EFE-162609	13,4	20,1	26,8	30,1	36,8	40,2	43,5
AR-163609P	EFE-163609	16,2	24,3	32,4	36,4	44,5	48,6	52,6
AQ-252612P	EFE-252612	18,8	28,2	37,6	42,3	51,7	56,4	61,1
AQ-252616P	EFE-252616	21,7	32,6	43,5	49,0	59,9	65,3	70,8
AR-254012P	EFE-254012	23,9	35,9	47,9	53,9	65,9	71,8	77,8
AR-254016P	EFE-254016	27,4	41,2	54,9	61,8	75,6	82,4	89,3
AR-256012P	EFE-256012	29,0	43,5	58,0	65,3	79,8	87,1	94,3
AQ-414012P	EFE-414012	29,1	43,6	58,2	65,5	80,0	87,3	94,6
AQ-414016P	EFE-414016	32,9	49,4	65,9	74,1	90,6	98,8	107,0

Enclosure types (polyester)		Maximum power dissipation (W) – Tamb. up to **50**°C						
		INTERNAL TEMP.60°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
AQ-080806P	EFE-080806	1,7	3,4	5,2	6,0	7,8	8,7	9,5
AQ-080808P	EFE-080808	2,2	4,5	6,8	7,9	10,2	11,3	12,5
AR-081106P	EFE-081106	2,1	4,2	6,4	7,4	9,6	10,6	11,7
AR-081606P	EFE-081606	2,8	5,7	8,6	10,1	13,0	14,4	15,9
AR-081906P	EFE-081906	3,2	6,4	9,6	11,2	14,4	16,0	17,6
AQ-121209P	EFE-121209	3,9	7,9	11,9	13,9	17,9	19,9	21,9
AR-122209P	EFE-122209	5,4	10,8	16,2	18,9	24,3	27,0	29,7
AQ-161609P	EFE-161609	5,1	10,3	15,5	18,1	23,3	25,9	28,5
AR-162609P	EFE-162609	6,7	13,4	20,1	23,4	30,1	33,5	36,8
AR-163609P	EFE-163609	8,1	16,2	24,3	28,3	36,4	40,5	44,5
AQ-252612P	EFE-252612	9,4	18,8	28,2	32,9	42,3	47,0	51,7
AQ-252616P	EFE-252616	10,8	21,7	32,6	38,1	49,0	54,4	59,9
AR-254012P	EFE-254012	11,9	23,9	35,9	41,9	53,9	59,9	65,9
AR-254016P	EFE-254016	13,7	27,4	41,2	48,1	61,8	68,7	75,6
AR-256012P	EFE-256012	14,5	29,0	43,5	50,8	65,3	72,6	79,8
AQ-414012P	EFE-414012	14,5	29,1	43,6	50,9	65,5	72,7	80,0
AQ-414016P	EFE-414016	16,4	32,9	49,4	57,6	74,1	82,3	90,6

Enclosure types (polyester)		Maximum power dissipation (W) – Tamb. up to **55**°C						
		INTERNAL TEMP.65°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
AQ-080806P	EFE-080806	1,7	2,6	4,3	5,2	6,9	7,8	8,7
AQ-080808P	EFE-080808	2,2	3,4	5,6	6,8	9,1	10,2	11,3
AR-081106P	EFE-081106	2,1	3,2	5,3	6,4	8,5	9,6	10,6
AR-081606P	EFE-081606	2,8	4,3	7,2	8,6	11,5	13,0	14,4
AR-081906P	EFE-081906	3,2	4,8	8,0	9,6	12,8	14,4	16,0
AQ-121209P	EFE-121209	3,9	5,9	9,9	11,9	15,9	17,9	19,9
AR-122209P	EFE-122209	5,4	8,1	13,5	16,2	21,6	24,3	27,0
AQ-161609P	EFE-161609	5,1	7,7	12,9	15,5	20,7	23,3	25,9
AR-162609P	EFE-162609	6,7	10,0	16,7	20,1	26,8	30,1	33,5
AR-163609P	EFE-163609	8,1	12,1	20,2	24,3	32,4	36,4	40,5
AQ-252612P	EFE-252612	9,4	14,1	23,5	28,2	37,6	42,3	47,0
AQ-252616P	EFE-252616	10,8	16,3	27,2	32,6	43,5	49,0	54,4
AR-254012P	EFE-254012	11,9	17,9	29,9	35,9	47,9	53,9	59,9
AR-254016P	EFE-254016	13,7	20,6	34,3	41,2	54,9	61,8	68,7
AR-256012P	EFE-256012	14,5	21,7	36,3	43,5	58,0	65,3	72,6
AQ-414012P	EFE-414012	14,5	21,8	36,3	43,6	58,2	65,5	72,7
AQ-414016P	EFE-414016	16,4	24,7	41,1	49,4	65,9	74,1	82,3

Enclosure types (polyester)		Maximum power dissipation (W) – Tamb. up to **60**°C					
		INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
AQ-080806P	EFE-080806	1,7	3,4	4,3	6,0	6,9	7,8
AQ-080808P	EFE-080808	2,2	4,5	5,6	7,9	9,1	10,2
AR-081106P	EFE-081106	2,1	4,2	5,3	7,4	8,5	9,6
AR-081606P	EFE-081606	2,8	5,7	7,2	10,1	11,5	13,0
AR-081906P	EFE-081906	3,2	6,4	8,0	11,2	12,8	14,4
AQ-121209P	EFE-121209	3,9	7,9	9,9	13,9	15,9	17,9
AR-122209P	EFE-122209	5,4	10,8	13,5	18,9	21,6	24,3
AQ-161609P	EFE-161609	5,1	10,3	12,9	18,1	20,7	23,3
AR-162609P	EFE-162609	6,7	13,4	16,7	23,4	26,8	30,1
AR-163609P	EFE-163609	8,1	16,2	20,2	28,3	32,4	36,4
AQ-252612P	EFE-252612	9,4	18,8	23,5	32,9	37,6	42,3
AQ-252616P	EFE-252616	10,8	21,7	27,2	38,1	43,5	49,0
AR-254012P	EFE-254012	11,9	23,9	29,9	41,9	47,9	53,9
AR-254016P	EFE-254016	13,7	27,4	34,3	48,1	54,9	61,8
AR-256012P	EFE-256012	14,5	29,0	36,3	50,8	58,0	65,3
AQ-414012P	EFE-414012	14,5	29,1	36,3	50,9	58,2	65,5
AQ-414016P	EFE-414016	16,4	32,9	41,1	57,6	65,9	74,1

Enclosure types (polyester)		Maximum power dissipation (W) – Tamb. up to **95**°C	
		INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
AQ-080806P	EFE-080806	0,8	1,7
AQ-080808P	EFE-080808	1,1	2,2
AR-081106P	EFE-081106	1,0	2,1
AR-081606P	EFE-081606	1,4	2,8
AR-081906P	EFE-081906	1,6	3,2
AQ-121209P	EFE-121209	1,9	3,9
AR-122209P	EFE-122209	2,7	5,4
AQ-161609P	EFE-161609	2,5	5,1
AR-162609P	EFE-162609	3,3	6,7
AR-163609P	EFE-163609	4,0	8,1
AQ-252612P	EFE-252612	4,7	9,4
AQ-252616P	EFE-252616	5,4	10,8
AR-254012P	EFE-254012	5,9	11,9
AR-254016P	EFE-254016	6,8	13,7
AR-256012P	EFE-256012	7,2	14,5
AQ-414012P	EFE-414012	7,2	14,5
AQ-414016P	EFE-414016	8,2	16,4

Power dissipation – Aluminium alloy enclosures

Enclosure types (aluminium)		Maximum power dissipation (W) – Tamb. up to **40**°C						
		INTERNAL TEMP.60°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
AQ-080806AL	EFXE-080806AL	5,2	7,8	10,4	11,7	14,3	15,6	16,9
AR-081306AL	EFXE-081306AL	7,0	10,6	14,1	15,9	19,4	21,2	23,0
AR-081806AL	EFXE-081806AL	8,9	13,3	17,8	20,0	24,5	26,7	28,9
AR-081808AL	EFXE-081808AL	11,0	16,5	22,1	24,8	30,4	33,1	35,9
AR-082505AL	EFXE-082505AL	10,7	16,1	21,4	24,1	29,5	32,2	34,8
AR-082508AL	EFXE-082508AL	14,2	21,4	28,5	32,1	39,2	42,8	46,4
AQ-101008AL	EFXE-101008AL	8,7	13,0	17,4	19,6	23,9	26,1	28,3
AR-101508AL	EFXE-101508AL	11,1	16,6	22,2	24,9	30,5	33,3	36,0
AR-101608AL	EFXE-101608AL	11,5	17,3	23,1	26,0	31,8	34,7	37,6
AR-102008AL	EFXE-102008AL	13,4	20,1	26,8	30,2	36,9	40,3	43,6
AQ-121208AL	EFXE-121208AL	10,8	16,2	21,6	24,3	29,7	32,4	35,1
AR-122209AL	EFXE-122209AL	16,8	25,3	33,7	37,9	46,3	50,6	54,8
AQ-141409AL	EFXE-141409AL	13,7	20,6	27,5	31,0	37,9	41,3	44,8
AR-142009AL	EFXE-142009AL	17,1	25,7	34,2	38,5	47,1	51,4	55,7
AQ-161609AL	EFXE-161609AL	17,2	25,8	34,4	38,7	47,3	51,6	55,9
AR-162410AL	EFXE-162410AL	22,1	33,1	44,2	49,7	60,8	66,3	71,8
AR-162609AL	EFXE-162609AL	21,9	32,8	43,8	49,3	60,2	65,7	71,2
AQ-181810AL	EFXE-181810AL	19,7	29,6	39,5	44,4	54,3	59,2	64,2
AR-182810AL	EFXE-182810AL	26,1	39,1	52,2	58,7	71,8	78,3	84,8
AR-202311AL	EFXE-202311AL	25,8	38,7	51,6	58,0	71,0	77,4	83,9
AR-202318AL	EFXE-202318AL	35,5	53,3	71,1	80,0	97,8	106,7	115,6
AR-232811AL	EFXE-232811AL	31,6	47,5	63,3	71,3	87,1	95,0	103,0
AR-233312AL	EFXE-233312AL	37,0	55,6	74,1	83,4	101,9	111,2	120,5
AR-233318AL	EFXE-233318AL	47,5	71,3	95,1	107,0	130,8	142,7	154,6

Enclosure types (aluminium)		Maximum power dissipation (W) – Tamb. up to **50**°C						
		INTERNAL TEMP.60°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
AQ-080806AL	EFXE-080806AL	2,6	5,2	7,8	9,1	11,7	13,0	14,3
AR-081306AL	EFXE-081306AL	3,5	7,0	10,6	12,3	15,9	17,7	19,4
AR-081806AL	EFXE-081806AL	4,4	8,9	13,3	15,5	20,0	22,2	24,5
AR-081808AL	EFXE-081808AL	5,5	11,0	16,5	19,3	24,8	27,6	30,4
AR-082505AL	EFXE-082505AL	5,3	10,7	16,1	18,7	24,1	26,8	29,5
AR-082508AL	EFXE-082508AL	7,1	14,2	21,4	24,9	32,1	35,7	39,2
AQ-101008AL	EFXE-101008AL	4,3	8,7	13,0	15,2	19,6	21,7	23,9
AR-101508AL	EFXE-101508AL	5,5	11,1	16,6	19,4	24,9	27,7	30,5
AR-101608AL	EFXE-101608AL	5,7	11,5	17,3	20,2	26,0	28,9	31,8
AR-102008AL	EFXE-102008AL	6,7	13,4	20,1	23,5	30,2	33,5	36,9
AQ-121208AL	EFXE-121208AL	5,4	10,8	16,2	18,9	24,3	27,0	29,7
AR-122209AL	EFXE-122209AL	8,4	16,8	25,3	29,5	37,9	42,1	46,3
AQ-141409AL	EFXE-141409AL	6,8	13,7	20,6	24,1	31,0	34,4	37,9
AR-142009AL	EFXE-142009AL	8,5	17,1	25,7	30,0	38,5	42,8	47,1
AQ-161609AL	EFXE-161609AL	8,6	17,2	25,8	30,1	38,7	43,0	47,3
AR-162410AL	EFXE-162410AL	11,0	22,1	33,1	38,7	49,7	55,3	60,8
AR-162609AL	EFXE-162609AL	10,9	21,9	32,8	38,3	49,3	54,8	60,2
AQ-181810AL	EFXE-181810AL	9,8	19,7	29,6	34,5	44,4	49,3	54,3
AR-182810AL	EFXE-182810AL	13,0	26,1	39,1	45,7	58,7	65,2	71,8
AR-202311AL	EFXE-202311AL	12,9	25,8	38,7	45,1	58,0	64,5	71,0
AR-202318AL	EFXE-202318AL	17,7	35,5	53,3	62,2	80,0	88,9	97,8
AR-232811AL	EFXE-232811AL	15,8	31,6	47,5	55,4	71,3	79,2	87,1
AR-233312AL	EFXE-233312AL	18,5	37,0	55,6	64,8	83,4	92,7	101,9
AR-233318AL	EFXE-233318AL	23,7	47,5	71,3	83,2	107,0	118,9	130,8

Enclosure types (aluminium)		Maximum power dissipation (W) – Tamb. up to **55**°C						
		INTERNAL TEMP.65°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
AQ-080806AL	EFXE-080806AL	2,6	3,9	6,5	7,8	10,4	11,7	13,0
AR-081306AL	EFXE-081306AL	3,5	5,3	8,8	10,6	14,1	15,9	17,7
AR-081806AL	EFXE-081806AL	4,4	6,6	11,1	13,3	17,8	20,0	22,2
AR-081808AL	EFXE-081808AL	5,5	8,2	13,8	16,5	22,1	24,8	27,6
AR-082505AL	EFXE-082505AL	5,3	8,0	13,4	16,1	21,4	24,1	26,8
AR-082508AL	EFXE-082508AL	7,1	10,7	17,8	21,4	28,5	32,1	35,7
AQ-101008AL	EFXE-101008AL	4,3	6,5	10,8	13,0	17,4	19,6	21,7
AR-101508AL	EFXE-101508AL	5,5	8,3	13,8	16,6	22,2	24,9	27,7
AR-101608AL	EFXE-101608AL	5,7	8,6	14,4	17,3	23,1	26,0	28,9
AR-102008AL	EFXE-102008AL	6,7	10,0	16,7	20,1	26,8	30,2	33,5
AQ-121208AL	EFXE-121208AL	5,4	8,1	13,5	16,2	21,6	24,3	27,0
AR-122209AL	EFXE-122209AL	8,4	12,6	21,0	25,3	33,7	37,9	42,1
AQ-141409AL	EFXE-141409AL	6,8	10,3	17,2	20,6	27,5	31,0	34,4
AR-142009AL	EFXE-142009AL	8,5	12,8	21,4	25,7	34,2	38,5	42,8
AQ-161609AL	EFXE-161609AL	8,6	12,9	21,5	25,8	34,4	38,7	43,0
AR-162410AL	EFXE-162410AL	11,0	16,5	27,6	33,1	44,2	49,7	55,3
AR-162609AL	EFXE-162609AL	10,9	16,4	27,4	32,8	43,8	49,3	54,8
AQ-181810AL	EFXE-181810AL	9,8	14,8	24,6	29,6	39,5	44,4	49,3
AR-182810AL	EFXE-182810AL	13,0	19,5	32,6	39,1	52,2	58,7	65,2
AR-202311AL	EFXE-202311AL	12,9	19,3	32,2	38,7	51,6	58,0	64,5
AR-202318AL	EFXE-202318AL	17,7	26,6	44,4	53,3	71,1	80,0	88,9
AR-232811AL	EFXE-232811AL	15,8	23,7	39,6	47,5	63,3	71,3	79,2
AR-233312AL	EFXE-233312AL	18,5	27,8	46,3	55,6	74,1	83,4	92,7
AR-233318AL	EFXE-233318AL	23,7	35,6	59,4	71,3	95,1	107,0	118,9

Enclosure types (aluminium)		Maximum power dissipation (W) – Tamb. up to **60**°C					
		INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
AQ-080806AL	EFXE-080806AL	2,6	5,2	6,5	9,1	10,4	11,7
AR-081306AL	EFXE-081306AL	3,5	7,0	8,8	12,3	14,1	15,9
AR-081806AL	EFXE-081806AL	4,4	8,9	11,1	15,5	17,8	20,0
AR-081808AL	EFXE-081808AL	5,5	11,0	13,8	19,3	22,1	24,8
AR-082505AL	EFXE-082505AL	5,3	10,7	13,4	18,7	21,4	24,1
AR-082508AL	EFXE-082508AL	7,1	14,2	17,8	24,9	28,5	32,1
AQ-101008AL	EFXE-101008AL	4,3	8,7	10,8	15,2	17,4	19,6
AR-101508AL	EFXE-101508AL	5,5	11,1	13,8	19,4	22,2	24,9
AR-101608AL	EFXE-101608AL	5,7	11,5	14,4	20,2	23,1	26,0
AR-102008AL	EFXE-102008AL	6,7	13,4	16,7	23,5	26,8	30,2
AQ-121208AL	EFXE-121208AL	5,4	10,8	13,5	18,9	21,6	24,3
AR-122209AL	EFXE-122209AL	8,4	16,8	21,0	29,5	33,7	37,9
AQ-141409AL	EFXE-141409AL	6,8	13,7	17,2	24,1	27,5	31,0
AR-142009AL	EFXE-142009AL	8,5	17,1	21,4	30,0	34,2	38,5
AQ-161609AL	EFXE-161609AL	8,6	17,2	21,5	30,1	34,4	38,7
AR-162410AL	EFXE-162410AL	11,0	22,1	27,6	38,7	44,2	49,7
AR-162609AL	EFXE-162609AL	10,9	21,9	27,4	38,3	43,8	49,3
AQ-181810AL	EFXE-181810AL	9,8	19,7	24,6	34,5	39,5	44,4
AR-182810AL	EFXE-182810AL	13,0	26,1	32,6	45,7	52,2	58,7
AR-202311AL	EFXE-202311AL	12,9	25,8	32,2	45,1	51,6	58,0
AR-202318AL	EFXE-202318AL	17,7	35,5	44,4	62,2	71,1	80,0
AR-232811AL	EFXE-232811AL	15,8	31,6	39,6	55,4	63,3	71,3
AR-233312AL	EFXE-233312AL	18,5	37,0	46,3	64,8	74,1	83,4
AR-233318AL	EFXE-233318AL	23,7	47,5	59,4	83,2	95,1	107,0

Enclosure types (aluminium)		Maximum power dissipation (W) – Tamb. up to **95**°C	
		INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
AQ-080806AL	EFXE-080806AL	1,3	2,6
AR-081306AL	EFXE-081306AL	1,7	3,5
AR-081806AL	EFXE-081806AL	2,2	4,4
AR-081808AL	EFXE-081808AL	2,7	5,5
AR-082505AL	EFXE-082505AL	2,6	5,3
AR-082508AL	EFXE-082508AL	3,5	7,1
AQ-101008AL	EFXE-101008AL	2,1	4,3
AR-101508AL	EFXE-101508AL	2,7	5,5
AR-101608AL	EFXE-101608AL	2,8	5,7
AR-102008AL	EFXE-102008AL	3,3	6,7
AQ-121208AL	EFXE-121208AL	2,7	5,4
AR-122209AL	EFXE-122209AL	4,2	8,4
AQ-141409AL	EFXE-141409AL	3,4	6,8
AR-142009AL	EFXE-142009AL	4,2	8,5
AQ-161609AL	EFXE-161609AL	4,3	8,6
AR-162410AL	EFXE-162410AL	5,5	11,0
AR-162609AL	EFXE-162609AL	5,4	10,9
AQ-181810AL	EFXE-181810AL	4,9	9,8
AR-182810AL	EFXE-182810AL	6,5	13,0
AR-202311AL	EFXE-202311AL	6,4	12,9
AR-202318AL	EFXE-202318AL	8,8	17,7
AR-232811AL	EFXE-232811AL	7,9	15,8
AR-233312AL	EFXE-233312AL	9,2	18,5
AR-233318AL	EFXE-233318AL	11,8	23,7

Power dissipation – Stainless steel enclosures SB series

Enclosure types (stainless steel)		Maximum power dissipation (W) – Tamb. up to **40**°C						
		INTERNAL TEMP.60°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
SB-101210	EFXE-101210SB	5,5	8,3	11,1	12,5	15,3	16,7	18,1
SB-151510	EFXE-151510SB	8,0	12,0	16,0	18,0	22,0	24,0	26,1
SB-142013	EFXE-142013SB	10,4	15,7	20,9	23,5	28,8	31,4	34,0
SB-202010	EFXE-202010SB	10,7	16,1	21,4	24,1	29,5	32,2	34,8
SB-202016	EFXE-202016SB	13,9	20,8	27,8	31,3	38,3	41,7	45,2
SB-202713	EFXE-202713SB	14,4	21,6	28,9	32,5	39,7	43,3	46,9
SB-272713	EFXE-272713SB	16,7	25,1	33,5	37,7	46,0	50,2	54,4
SB-203016	EFXE-203016SB	17,1	25,7	34,3	38,6	47,2	51,4	55,7
SB-273513	EFXE-273513SB	19,2	28,9	38,5	43,3	53,0	57,8	62,6
SB-282816	EFXE-282816SB	19,3	29,0	38,7	43,6	53,3	58,1	63,0
SB-204016	EFXE-204016SB	20,2	30,3	40,4	45,5	55,6	60,6	65,7
SB-353516	EFXE-353516SB	24,4	36,6	48,8	54,9	67,1	73,2	79,3
SB-282827	EFXE-282827SB	26,2	39,3	52,5	59,0	72,2	78,7	85,3
SB-355016	EFXE-355016SB	29,7	44,5	59,4	66,8	81,7	89,1	96,6
SB-383816	EFXE-383816SB	26,6	39,9	53,2	59,8	73,1	79,8	86,5
SB-384516	EFXE-384516SB	29,1	43,7	58,3	65,6	80,2	87,5	94,8
SB-385716	EFXE-385716SB	33,4	50,1	66,8	75,2	91,9	100,3	108,7
SB-505016	EFXE-505016SB	35,8	53,8	71,7	80,7	98,6	107,6	116,6
SB-383827	EFXE-383827SB	35,1	52,7	70,2	79,0	96,6	105,4	114,2
SB-575716	EFXE-575716SB	41,5	62,3	83,1	93,5	114,3	124,7	135,1
SB-577620	EFXE-577620SB	53,9	80,9	107,9	121,3	148,3	161,8	175,3
SB-575730	EFXE-575730SB	55,8	83,7	111,6	125,6	153,5	167,5	181,4
SB-769520	EFXE-769520SB	72,2	108,3	144,4	162,4	198,5	216,6	234,6
SB-1258040	EFXE-1258040SB	72,2	108,3	144,4	162,4	198,5	216,6	234,6

Enclosure types (Stainless steel)		Maximum power dissipation (W) – Tamb. up to **50**°C						
		INTERNAL TEMP.60°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
SB-101210	EFXE-101210SB	2,7	5,5	8,3	9,7	12,5	13,9	15,3
SB-151510	EFXE-151510SB	4,0	8,0	12,0	14,0	18,0	20,0	22,0
SB-142013	EFXE-142013SB	5,2	10,4	15,7	18,3	23,5	26,2	28,8
SB-202010	EFXE-202010SB	5,3	10,7	16,1	18,7	24,1	26,8	29,5
SB-202016	EFXE-202016SB	6,9	13,9	20,8	24,3	31,3	34,8	38,3
SB-202713	EFXE-202713SB	7,2	14,4	21,6	25,2	32,5	36,1	39,7
SB-272713	EFXE-272713SB	8,3	16,7	25,1	29,3	37,7	41,8	46,0
SB-203016	EFXE-203016SB	8,5	17,1	25,7	30,0	38,6	42,9	47,2
SB-273513	EFXE-273513SB	9,6	19,2	28,9	33,7	43,3	48,2	53,0
SB-282816	EFXE-282816SB	9,6	19,3	29,0	33,9	43,6	48,4	53,3
SB-204016	EFXE-204016SB	10,1	20,2	30,3	35,4	45,5	50,5	55,6
SB-353516	EFXE-353516SB	12,2	24,4	36,6	42,7	54,9	61,0	67,1
SB-282827	EFXE-282827SB	13,1	26,2	39,3	45,9	59,0	65,6	72,2
SB-355016	EFXE-355016SB	14,8	29,7	44,5	52,0	66,8	74,3	81,7
SB-383816	EFXE-383816SB	13,3	26,6	39,9	46,5	59,8	66,5	73,1
SB-384516	EFXE-384516SB	14,5	29,1	43,7	51,0	65,6	72,9	80,2
SB-385716	EFXE-385716SB	16,7	33,4	50,1	58,5	75,2	83,6	91,9
SB-505016	EFXE-505016SB	17,9	35,8	53,8	62,7	80,7	89,7	98,6
SB-383827	EFXE-383827SB	17,5	35,1	52,7	61,4	79,0	87,8	96,6
SB-575716	EFXE-575716SB	20,7	41,5	62,3	72,7	93,5	103,9	114,3
SB-577620	EFXE-577620SB	26,9	53,9	80,9	94,4	121,3	134,8	148,3
SB-575730	EFXE-575730SB	27,9	55,8	83,7	97,7	125,6	139,5	153,5
SB-769520	EFXE-769520SB	36,1	72,2	108,3	126,3	162,4	180,5	198,5
SB-1258040	EFXE-1258040SB	36,1	72,2	108,3	126,3	162,4	180,5	198,5

Enclosure types (Stainless steel)		Maximum power dissipation (W) – Tamb. up to **55**°C						
		INTERNAL TEMP.65°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
SB-101210	EFXE-101210SB	2,7	4,1	6,9	8,3	11,1	12,5	13,9
SB-151510	EFXE-151510SB	4,0	6,0	10,0	12,0	16,0	18,0	20,0
SB-142013	EFXE-142013SB	5,2	7,8	13,1	15,7	20,9	23,5	26,2
SB-202010	EFXE-202010SB	5,3	8,0	13,4	16,1	21,4	24,1	26,8
SB-202016	EFXE-202016SB	6,9	10,4	17,4	20,8	27,8	31,3	34,8
SB-202713	EFXE-202713SB	7,2	10,8	18,0	21,6	28,9	32,5	36,1
SB-272713	EFXE-272713SB	8,3	12,5	20,9	25,1	33,5	37,7	41,8
SB-203016	EFXE-203016SB	8,5	12,8	21,4	25,7	34,3	38,6	42,9
SB-273513	EFXE-273513SB	9,6	14,4	24,1	28,9	38,5	43,3	48,2
SB-282816	EFXE-282816SB	9,6	14,5	24,2	29,0	38,7	43,6	48,4
SB-204016	EFXE-204016SB	10,1	15,1	25,2	30,3	40,4	45,5	50,5
SB-353516	EFXE-353516SB	12,2	18,3	30,5	36,6	48,8	54,9	61,0
SB-282827	EFXE-282827SB	13,1	19,6	32,8	39,3	52,5	59,0	65,6
SB-355016	EFXE-355016SB	14,8	22,2	37,1	44,5	59,4	66,8	74,3
SB-383816	EFXE-383816SB	13,3	19,9	33,2	39,9	53,2	59,8	66,5
SB-384516	EFXE-384516SB	14,5	21,8	36,4	43,7	58,3	65,6	72,9
SB-385716	EFXE-385716SB	16,7	25,0	41,8	50,1	66,8	75,2	83,6
SB-505016	EFXE-505016SB	17,9	26,9	44,8	53,8	71,7	80,7	89,7
SB-383827	EFXE-383827SB	17,5	26,3	43,9	52,7	70,2	79,0	87,8
SB-575716	EFXE-575716SB	20,7	31,1	51,9	62,3	83,1	93,5	103,9
SB-577620	EFXE-577620SB	26,9	40,4	67,4	80,9	107,9	121,3	134,8
SB-575730	EFXE-575730SB	27,9	41,8	69,7	83,7	111,6	125,6	139,5
SB-769520	EFXE-769520SB	36,1	54,1	90,2	108,3	144,4	162,4	180,5
SB-1258040	EFXE-1258040SB	36,1	54,1	90,2	108,3	144,4	162,4	180,5

Enclosure types (Stainless steel)		Maximum power dissipation (W) – Tamb. up to **60**°C					
		INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
SB-101210	EFXE-101210SB	2,7	5,5	6,9	9,7	11,1	12,5
SB-151510	EFXE-151510SB	4,0	8,0	10,0	14,0	16,0	18,0
SB-142013	EFXE-142013SB	5,2	10,4	13,1	18,3	20,9	23,5
SB-202010	EFXE-202010SB	5,3	10,7	13,4	18,7	21,4	24,1
SB-202016	EFXE-202016SB	6,9	13,9	17,4	24,3	27,8	31,3
SB-202713	EFXE-202713SB	7,2	14,4	18,0	25,2	28,9	32,5
SB-272713	EFXE-272713SB	8,3	16,7	20,9	29,3	33,5	37,7
SB-203016	EFXE-203016SB	8,5	17,1	21,4	30,0	34,3	38,6
SB-273513	EFXE-273513SB	9,6	19,2	24,1	33,7	38,5	43,3
SB-282816	EFXE-282816SB	9,6	19,3	24,2	33,9	38,7	43,6
SB-204016	EFXE-204016SB	10,1	20,2	25,2	35,4	40,4	45,5
SB-353516	EFXE-353516SB	12,2	24,4	30,5	42,7	48,8	54,9
SB-282827	EFXE-282827SB	13,1	26,2	32,8	45,9	52,5	59,0
SB-355016	EFXE-355016SB	14,8	29,7	37,1	52,0	59,4	66,8
SB-383816	EFXE-383816SB	13,3	26,6	33,2	46,5	53,2	59,8
SB-384516	EFXE-384516SB	14,5	29,1	36,4	51,0	58,3	65,6
SB-385716	EFXE-385716SB	16,7	33,4	41,8	58,5	66,8	75,2
SB-505016	EFXE-505016SB	17,9	35,8	44,8	62,7	71,7	80,7
SB-383827	EFXE-383827SB	17,5	35,1	43,9	61,4	70,2	79,0
SB-575716	EFXE-575716SB	20,7	41,5	51,9	72,7	83,1	93,5
SB-577620	EFXE-577620SB	26,9	53,9	67,4	94,4	107,9	121,3
SB-575730	EFXE-575730SB	27,9	55,8	69,7	97,7	111,6	125,6
SB-769520	EFXE-769520SB	36,1	72,2	90,2	126,3	144,4	162,4
SB-1258040	EFXE-1258040SB	36,1	72,2	90,2	126,3	144,4	162,4

Enclosure types (Stainless steel)		Maximum power dissipation (W) – Tamb. up to **95**°C	
		INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
SB-101210	EFXE-101210SB	1,3	2,7
SB-151510	EFXE-151510SB	2,0	4,0
SB-142013	EFXE-142013SB	2,6	5,2
SB-202010	EFXE-202010SB	2,6	5,3
SB-202016	EFXE-202016SB	3,4	6,9
SB-202713	EFXE-202713SB	3,6	7,2
SB-272713	EFXE-272713SB	4,1	8,3
SB-203016	EFXE-203016SB	4,2	8,5
SB-273513	EFXE-273513SB	4,8	9,6
SB-282816	EFXE-282816SB	4,8	9,6
SB-204016	EFXE-204016SB	5,0	10,1
SB-353516	EFXE-353516SB	6,1	12,2
SB-282827	EFXE-282827SB	6,5	13,1
SB-355016	EFXE-355016SB	7,4	14,8
SB-383816	EFXE-383816SB	6,6	13,3
SB-384516	EFXE-384516SB	7,2	14,5
SB-385716	EFXE-385716SB	8,3	16,7
SB-505016	EFXE-505016SB	8,9	17,9
SB-383827	EFXE-383827SB	8,7	17,5
SB-575716	EFXE-575716SB	10,3	20,7
SB-577620	EFXE-577620SB	13,4	26,9
SB-575730	EFXE-575730SB	13,9	27,9
SB-769520	EFXE-769520SB	18,0	36,1
SB-1258040	EFXE-1258040SB	18,0	36,1

Power dissipation – Stainless steel enclosures ST series

Enclosure types (Stainless steel)		Maximum power dissipation (W) – Tamb. up to **40**°C						
		INTERNAL TEMP.60°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
ST-101210	EFXE-101210ST	5,5	8,3	11,1	12,5	15,3	16,7	18,1
ST-151510	EFXE-151510ST	8,0	12,0	16,0	18,0	22,0	24,0	26,1
ST-142013	EFXE-142013ST	10,4	15,7	20,9	23,5	28,8	31,4	34,0
ST-202010	EFXE-202010ST	10,7	16,1	21,4	24,1	29,5	32,2	34,8
ST-202016	EFXE-202016ST	13,9	20,8	27,8	31,3	38,3	41,7	45,2
ST-202713	EFXE-202713ST	14,4	21,6	28,9	32,5	39,7	43,3	46,9
ST-272713	EFXE-272713ST	16,7	25,1	33,5	37,7	46,0	50,2	54,4
ST-203016	EFXE-203016ST	17,1	25,7	34,3	38,6	47,2	51,4	55,7
ST-273513	EFXE-273513ST	19,2	28,9	38,5	43,3	53,0	57,8	62,6
ST-282816	EFXE-282816ST	19,3	29,0	38,7	43,6	53,3	58,1	63,0
ST-204016	EFXE-204016ST	20,2	30,3	40,4	45,5	55,6	60,6	65,7
ST-353516	EFXE-353516ST	24,4	36,6	48,8	54,9	67,1	73,2	79,3
ST-282827	EFXE-282827ST	26,2	39,3	52,5	59,0	72,2	78,7	85,3
ST-355016	EFXE-355016ST	29,7	44,5	59,4	66,8	81,7	89,1	96,6
ST-383816	EFXE-383816ST	26,6	39,9	53,2	59,8	73,1	79,8	86,5
ST-384516	EFXE-384516ST	29,1	43,7	58,3	65,6	80,2	87,5	94,8
ST-385716	EFXE-385716ST	33,4	50,1	66,8	75,2	91,9	100,3	108,7
ST-505016	EFXE-505016ST	35,8	53,8	71,7	80,7	98,6	107,6	116,6
ST-383827	EFXE-383827ST	35,1	52,7	70,2	79,0	96,6	105,4	114,2
ST-575716	EFXE-575716ST	41,5	62,3	83,1	93,5	114,3	124,7	135,1
ST-577620	EFXE-577620ST	53,9	80,9	107,9	121,3	148,3	161,8	175,3
ST-575730	EFXE-575730ST	55,8	83,7	111,6	125,6	153,5	167,5	181,4
ST-769520	EFXE-769520ST	72,2	108,3	144,4	162,4	198,5	216,6	234,6
ST-1258040	EFXE-1258040ST	72,2	108,3	144,4	162,4	198,5	216,6	234,6

Enclosure types (Stainless steel)		Maximum power dissipation (W) – Tamb. up to **50**°C						
		INTERNAL TEMP.60°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
ST-101210	EFXE-101210ST	2,7	5,5	8,3	9,7	12,5	13,9	15,3
ST-151510	EFXE-151510ST	4,0	8,0	12,0	14,0	18,0	20,0	22,0
ST-142013	EFXE-142013ST	5,2	10,4	15,7	18,3	23,5	26,2	28,8
ST-202010	EFXE-202010ST	5,3	10,7	16,1	18,7	24,1	26,8	29,5
ST-202016	EFXE-202016ST	6,9	13,9	20,8	24,3	31,3	34,8	38,3
ST-202713	EFXE-202713ST	7,2	14,4	21,6	25,2	32,5	36,1	39,7
ST-272713	EFXE-272713ST	8,3	16,7	25,1	29,3	37,7	41,8	46,0
ST-203016	EFXE-203016ST	8,5	17,1	25,7	30,0	38,6	42,9	47,2
ST-273513	EFXE-273513ST	9,6	19,2	28,9	33,7	43,3	48,2	53,0
ST-282816	EFXE-282816ST	9,6	19,3	29,0	33,9	43,6	48,4	53,3
ST-204016	EFXE-204016ST	10,1	20,2	30,3	35,4	45,5	50,5	55,6
ST-353516	EFXE-353516ST	12,2	24,4	36,6	42,7	54,9	61,0	67,1
ST-282827	EFXE-282827ST	13,1	26,2	39,3	45,9	59,0	65,6	72,2
ST-355016	EFXE-355016ST	14,8	29,7	44,5	52,0	66,8	74,3	81,7
ST-383816	EFXE-383816ST	13,3	26,6	39,9	46,5	59,8	66,5	73,1
ST-384516	EFXE-384516ST	14,5	29,1	43,7	51,0	65,6	72,9	80,2
ST-385716	EFXE-385716ST	16,7	33,4	50,1	58,5	75,2	83,6	91,9
ST-505016	EFXE-505016ST	17,9	35,8	53,8	62,7	80,7	89,7	98,6
ST-383827	EFXE-383827ST	17,5	35,1	52,7	61,4	79,0	87,8	96,6
ST-575716	EFXE-575716ST	20,7	41,5	62,3	72,7	93,5	103,9	114,3
ST-577620	EFXE-577620ST	26,9	53,9	80,9	94,4	121,3	134,8	148,3
ST-575730	EFXE-575730ST	27,9	55,8	83,7	97,7	125,6	139,5	153,5
ST-769520	EFXE-769520ST	36,1	72,2	108,3	126,3	162,4	180,5	198,5
ST-1258040	EFXE-1258040ST	36,1	72,2	108,3	126,3	162,4	180,5	198,5

Enclosure types (Stainless steel)		Maximum power dissipation (W) – Tamb. up to **55**°C						
		INTERNAL TEMP.65°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
ST-101210	EFXE-101210ST	2,7	4,1	6,9	8,3	11,1	12,5	13,9
ST-151510	EFXE-151510ST	4,0	6,0	10,0	12,0	16,0	18,0	20,0
ST-142013	EFXE-142013ST	5,2	7,8	13,1	15,7	20,9	23,5	26,2
ST-202010	EFXE-202010ST	5,3	8,0	13,4	16,1	21,4	24,1	26,8
ST-202016	EFXE-202016ST	6,9	10,4	17,4	20,8	27,8	31,3	34,8
ST-202713	EFXE-202713ST	7,2	10,8	18,0	21,6	28,9	32,5	36,1
ST-272713	EFXE-272713ST	8,3	12,5	20,9	25,1	33,5	37,7	41,8
ST-203016	EFXE-203016ST	8,5	12,8	21,4	25,7	34,3	38,6	42,9
ST-273513	EFXE-273513ST	9,6	14,4	24,1	28,9	38,5	43,3	48,2
ST-282816	EFXE-282816ST	9,6	14,5	24,2	29,0	38,7	43,6	48,4
ST-204016	EFXE-204016ST	10,1	15,1	25,2	30,3	40,4	45,5	50,5
ST-353516	EFXE-353516ST	12,2	18,3	30,5	36,6	48,8	54,9	61,0
ST-282827	EFXE-282827ST	13,1	19,6	32,8	39,3	52,5	59,0	65,6
ST-355016	EFXE-355016ST	14,8	22,2	37,1	44,5	59,4	66,8	74,3
ST-383816	EFXE-383816ST	13,3	19,9	33,2	39,9	53,2	59,8	66,5
ST-384516	EFXE-384516ST	14,5	21,8	36,4	43,7	58,3	65,6	72,9
ST-385716	EFXE-385716ST	16,7	25,0	41,8	50,1	66,8	75,2	83,6
ST-505016	EFXE-505016ST	17,9	26,9	44,8	53,8	71,7	80,7	89,7
ST-383827	EFXE-383827ST	17,5	26,3	43,9	52,7	70,2	79,0	87,8
ST-575716	EFXE-575716ST	20,7	31,1	51,9	62,3	83,1	93,5	103,9
ST-577620	EFXE-577620ST	26,9	40,4	67,4	80,9	107,9	121,3	134,8
ST-575730	EFXE-575730ST	27,9	41,8	69,7	83,7	111,6	125,6	139,5
ST-769520	EFXE-769520ST	36,1	54,1	90,2	108,3	144,4	162,4	180,5
ST-1258040	EFXE-1258040ST	36,1	54,1	90,2	108,3	144,4	162,4	180,5

Enclosure types (Stainless steel)		Maximum power dissipation (W) – Tamb. up to **60**°C					
		INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
ST-101210	EFXE-101210ST	2,7	5,5	6,9	9,7	11,1	12,5
ST-151510	EFXE-151510ST	4,0	8,0	10,0	14,0	16,0	18,0
ST-142013	EFXE-142013ST	5,2	10,4	13,1	18,3	20,9	23,5
ST-202010	EFXE-202010ST	5,3	10,7	13,4	18,7	21,4	24,1
ST-202016	EFXE-202016ST	6,9	13,9	17,4	24,3	27,8	31,3
ST-202713	EFXE-202713ST	7,2	14,4	18,0	25,2	28,9	32,5
ST-272713	EFXE-272713ST	8,3	16,7	20,9	29,3	33,5	37,7
ST-203016	EFXE-203016ST	8,5	17,1	21,4	30,0	34,3	38,6
ST-273513	EFXE-273513ST	9,6	19,2	24,1	33,7	38,5	43,3
ST-282816	EFXE-282816ST	9,6	19,3	24,2	33,9	38,7	43,6
ST-204016	EFXE-204016ST	10,1	20,2	25,2	35,4	40,4	45,5
ST-353516	EFXE-353516ST	12,2	24,4	30,5	42,7	48,8	54,9
ST-282827	EFXE-282827ST	13,1	26,2	32,8	45,9	52,5	59,0
ST-355016	EFXE-355016ST	14,8	29,7	37,1	52,0	59,4	66,8
ST-383816	EFXE-383816ST	13,3	26,6	33,2	46,5	53,2	59,8
ST-384516	EFXE-384516ST	14,5	29,1	36,4	51,0	58,3	65,6
ST-385716	EFXE-385716ST	16,7	33,4	41,8	58,5	66,8	75,2
ST-505016	EFXE-505016ST	17,9	35,8	44,8	62,7	71,7	80,7
ST-383827	EFXE-383827ST	17,5	35,1	43,9	61,4	70,2	79,0
ST-575716	EFXE-575716ST	20,7	41,5	51,9	72,7	83,1	93,5
ST-577620	EFXE-577620ST	26,9	53,9	67,4	94,4	107,9	121,3
ST-575730	EFXE-575730ST	27,9	55,8	69,7	97,7	111,6	125,6
ST-769520	EFXE-769520ST	36,1	72,2	90,2	126,3	144,4	162,4
ST-1258040	EFXE-1258040ST	36,1	72,2	90,2	126,3	144,4	162,4

Enclosure types (Stainless steel)		Maximum power dissipation (W) – Tamb. up to **95**°C	
		INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
ST-101210	EFXE-101210ST	1,3	2,7
ST-151510	EFXE-151510ST	2,0	4,0
ST-142013	EFXE-142013ST	2,6	5,2
ST-202010	EFXE-202010ST	2,6	5,3
ST-202016	EFXE-202016ST	3,4	6,9
ST-202713	EFXE-202713ST	3,6	7,2
ST-272713	EFXE-272713ST	4,1	8,3
ST-203016	EFXE-203016ST	4,2	8,5
ST-273513	EFXE-273513ST	4,8	9,6
ST-282816	EFXE-282816ST	4,8	9,6
ST-204016	EFXE-204016ST	5,0	10,1
ST-353516	EFXE-353516ST	6,1	12,2
ST-282827	EFXE-282827ST	6,5	13,1
ST-355016	EFXE-355016ST	7,4	14,8
ST-383816	EFXE-383816ST	6,6	13,3
ST-384516	EFXE-384516ST	7,2	14,5
ST-385716	EFXE-385716ST	8,3	16,7
ST-505016	EFXE-505016ST	8,9	17,9
ST-383827	EFXE-383827ST	8,7	17,5
ST-575716	EFXE-575716ST	10,3	20,7
ST-577620	EFXE-577620ST	13,4	26,9
ST-575730	EFXE-575730ST	13,9	27,9
ST-769520	EFXE-769520ST	18,0	36,1
ST-1258040	EFXE-1258040ST	18,0	36,1

Maximum Power Dissipation calculation

The values specified in the tables as per clause 2.1.1 may be modified within the maximum admitted Tamb and maximum admitted internal temperature as follows.

$$Pdiss\ (W) = \frac{Tmax - Tamb}{Rth}$$

$Rth = A \times (\text{enclosure surface in } mm^2 \text{ except enclosure bottom})^B$

Legend:
Rth – Thermal resistance [K/W].
Tmax – Maximum allowed temperature inside enclosure.
Tamb – Ambient temperature of enclosure
A and B - coefficients determined for each series of enclosure. Exact values are given in manufacturer's documentation.

Warning labels:

WARNING – DO NOT OPEN WHEN ENERGIZED (*)
(*) Not mandatory for apparatus with protection type Ex ia Ga and Ex ib Gb.

WARNING – POTENTIAL ELECTROSTATIC CHARGING HAZARD – SEE INSTRUCTIONS

To be added when the enclosures or parts of them have a surface resistance more than 10^9 Ω or 10^{11} Ω according to IEC 60079-0 Clause 7.4.2 a), as applicable, and as per following cases:

- are equipped with transparent parts made of polycarbonate.
- for category II 2 G / EPL Gb Gas group IIC: are painted and the paint layer thickness is > 0.2mm.
- for category II 2 G / EPL Gb Gas group IIB: are painted and the paint layer thickness is > 2mm.
- for category II 2 D / EPL Db: are painted and the paint layer thickness is > 2mm.
- for category II 2 G / EPL Gb Gas group IIC: not conductive individual materials (labels), applied on painted enclosures, have exposed (chargeable area) > 2000mm^2 or, not conductive individual materials (labels), applied on unpainted (conductive earthed surface) enclosures, have exposed (chargeable area) > 8000mm^2.
- for category II 2 G /EPL Gb Gas group IIB: not conductive individual materials (labels), applied on painted enclosures, have exposed (chargeable area) > 10000mm^2 or, not conductive individual materials (labels), applied on unpainted (conductive earthed surface) enclosures, have exposed (chargeable area) > 40000mm^2.

OPEN THE VALVE ONLY WHEN THE APPARATUS IS DE-ENERGIZED AND ONLY WHEN AN EXPLOSIVE DUST ATMOSPHERE IS NOT PRESENT
To be added on Ex tb apparatus equipped with the drain / venting device ECR3.

Other warnings depend on the components actually mounted, according to the component manufacturer's documentation.

The tables below state the maximum power dissipation values (W) related to the internal temperature (Tint) and ambient temperature (Tamb).

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[1] # EU – TYPE EXAMINATION CERTIFICATE

[2] Equipment or Protective Systems Intended for use in Potentially Explosive Atmospheres Directive 2014/34/EU.

[3] EU-Type Examination Certificate Number: **FIDI 21 ATEX 0090X** Issue: **1**

[4] Product: **Junction boxes, local control stations and local control panels**

Type: **AQ-***P / AQ-***AL / AR-***P / AR-***AL**
AQ-*P-HT / AQ-***AL-HT / AR-***P-HT / AR-***AL-HT**
SB-* / ST-***
EFE-* / EFXE-*** AL / EFXE-***SB / EFXE-***ST**
EFE-*-HT / EFXE-***AL-HT**

[5] Manufacturer: **Technor Italsmea S.p.A.**

[6] Address: **Via Italia 33, 20060 Gessate (MI), Italy**

[7] This product and any acceptable variation thereto is specified in the schedule to this certificate and documents therein referred to.

[8] FIDITAS Ltd., Notified Body number 2829 in accordance with Article 17 of Directive 2014/34/EU of the European Parliament and of the Council, dated 26 February 2014, certifies that this product has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of products intended for use in potentially explosive atmospheres given in Annex II of the Directive.

The examination and test results are recorded in confidential Report No: **FIDI 21 CR 075**

[9] Compliance with the Essential Health and Safety Requirements has been assured by compliance with:

EN IEC 60079-0:2018	**EN 60079-1:2014**	**EN IEC 60079-7:2015 / A1:2018**
EN 60079-11:2012	**EN 60079-18:2015/A1:2017**	**EN 60079-31:2014**

except in respect of those requirements listed at item 18 of the Schedule.

[10] If the sign 'X' is placed after the certificate number, it indicates that the product is subject to Specific Conditions of Use specified in the schedule to this certificate.

[11] This EU-Type Examination Certificate relates only to the design, examination and test of the specified product in accordance with Annex III. Further requirements of the Directive apply to the manufacturing process and supply of this products. These are not covered by this certificate.

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This certificate may only be reproduced in its entirety, without any change, schedule included

[12] The marking of the product shall include the following:



II 1 G	**Ex ia IIC/IIB T6...T4 Ga**(2) or
II 2(1) G or **II 2(2) G**	**Ex db eb ia/ib mb [**(3)**] IIC/IIB T6...T4 Gb**(1) or
II 2 G	**Ex eb IIC/IIB T6...T4 Gb**(1) or
II 2 D	**Ex tb IIIC T85°C...T135°C Db**

(1) Others type of protection additional to 'eb' depending to the components actually mounted.

(2) In case of enclosures containing 'eb' terminals and/or 'ia Ga' already certified components (with compatible marking) only.

(3) Associated equipment protection depending on the components actually mounted (see lists): e.g. [ia/ib/ia Ga/ia IIIC Da] and/or [ia IIIC Da] or [ia/ib/ia Ga/ia IIIC Da] and/or [ia/ib/ia Ga] [ia IIIC Da]

Our ref.: 21.CRT.400

Date: 23. 12.2021.

Fiditas d.o.o. ZAGREB

FIDITAS Ltd.
Certification department
Approved:

Marino Kelava, M.E.Eng.

Fiditas Ltd. Karlovačka cesta 197, 10250 Zagreb-Lučko, Croatia
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[13] **SCHEDULE**

[14] **EU - TYPE EXAMINATION CERTIFICATE No.:** **FIDI 21 ATEX 0090X**

[15] **Description of product**

Junction boxes, local control stations and local control panels are made of 'eb' and 'tb' enclosures in stainless steel, aluminium alloy or glass fiber reinforced polyester resin, of various dimensions, which shall house 'eb' and/or 'ia/ib' terminals and/or Ex components or Ex equipment made in different type of Ex protection. All Ex terminals, Ex components and Ex equipment are covered by their own ATEX certificates.

The terminals and components are be used according to data available in related component certificates, in relevant temperature range, voltage and current limitations. The terminals must be fitted in accordance with EN IEC 60079-0 and EN IEC 60079-7 with regards to creepage and clearance distances, and according to related safety instructions.

The cover is fixed to the body with screw, between body and cover a gasket guarantee the protection degree IP66 (IP66/67 depending on models). The cover of stainless-steel enclosure can be also fixed the body with looking devices, between body and cover a gasket guarantee the protection degree IP66. The IP degree of junction boxes, local control stations and local control panels depend on the components actually mounted. The walls and the bottom of the boxes can be drilled and taped with maximum size and maximum number of holes as specified in the manufacturer documents.

The cable glands or plugs, with separate ATEX certificate, made in type of protection 'eb' and/or 'tb' with appropriate IP protection are mounted according to related manufacturer's installation instructions. Each enclosure is provided with internal earthing certified terminal or earthing screw or bolt. Metal enclosures are provided by external earthing screw or bolt. Metal and polyester enclosures can be provided by passing through earthing terminals.

All enclosures can be provided by:
- Externally installed accessories as specified in manufacturer documents,
- Drain breath device type ECR3, included in this certificate,
- Internal/external earthing plate.

Model identification

Junction boxes

A(1)-(2) (3) (4) (5) (6)	(1) –	**Q**: Square size **R**: Rectangular size
	(2) (3) (4)	dimension, in cm
	(5)	Material **P**: Glass fiber reinforced polyester resin **AL**: Aluminium Alloy
	(6)	None: up to internal temperature of 105°C **HT**: up to internal temperature of 130°C
SB- (2) (3) (4)	(2) (3) (4)	dimension, in cm
ST- (2) (3) (4)	(2) (3) (4)	dimension, in cm

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Panel boards

EFE- (2) (3) (4) (6)	(2) (3) (4)	dimension, in cm
	(6)	None: up to internal temperature of 105°C **HT**: up to internal temperature of 130°C
EFXE- (2) (3) (4) (5) (6)	(2) (3) (4)	dimension, in cm
		Material
	(5)	**SB** or **ST**: stainless steel **AL**: Aluminium Alloy
	(6)	None: up to internal temperature of 105°C **HT**: up to internal temperature of 130°C

Technical data:

Electrical data:	According to Ex component to actually installed
Ambient temperature:	-50°C ÷ +95°C Other possible ranges are with: - min temperature: -50°C to -20 °C - max temperature of +40 °C to +95 °C
Mechanical protection:	IP66/IP67 depending on models IP66 without swing handle element IP55 with swing handle element

Temperature class and/or maximum surface temperature of any junction box or control panel depend on ambient temperature and internal power dissipation. The values that must be observed are given in relevant tables in this certificate.

For commercial reasons model name listed in the tables below can be modified as follows: first (2) and second (3) pair of digits can be reversed.

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Model sizes

Polyester High Temperature		Aluminium High Temperature	
AQ-080806P-HT	EFE-080806-HT	AQ-080806AL-HT	EFXE-080806AL-HT
AQ-080808P-HT	EFE-080808-HT	AR-081306AL-HT	EFXE-081306AL-HT
AR-081106P-HT	EFE-081106-HT	AR-081806AL-HT	EFXE-081806AL-HT
AR-081108P-HT	EFE-081108-HT	AR-082505AL-HT	EFXE-082505AL-HT
AR-081606P-HT	EFE-081606-HT	AQ-101008AL-HT	EFXE-101008AL-HT
AR-081608P-HT	EFE-081608-HT	AR-101608AL-HT	EFXE-101608AL-HT
AR-081906P-HT	EFE-081906-HT	AR-102008AL-HT	EFXE-102008AL-HT
AR-081908P-HT	EFE-081908-HT	AQ-121208AL-HT	EFXE-121208AL-HT
AR-082306P-HT	EFE-082306-HT	AQ-121209AL-HT	EFXE-121209AL-HT
AR-082308P-HT	EFE-082308-HT	AR-122208AL-HT	EFXE-122208AL-HT
AQ-121209P-HT	EFE-121209-HT	AR-122209AL-HT	EFXE-122209AL-HT
AR-122209P-HT	EFE-122209-HT	AR-123608AL-HT	EFXE-123608AL-HT
AQ-161609P-HT	EFE-161609-HT	AQ-141409AL-HT	EFXE-141409AL-HT
AR-162609P-HT	EFE-162609-HT	AR-142009AL-HT	EFXE-142009AL-HT
AR-163609P-HT	EFE-163609-HT	AQ-161609AL-HT	EFXE-161609AL-HT
AR-165609P-HT	EFE-165609-HT	AR-162609AL-HT	EFXE-162609AL-HT
AQ-202017P-HT	EFE-202017-HT	AR-163609AL-HT	EFXE-163609AL-HT
AR-203017P-HT	EFE-203017-HT	AR-165609AL-HT	EFXE-165609AL-HT
AQ-252612P-HT	EFE-252612-HT	AQ-181810AL-HT	EFXE-181810AL-HT
AQ-252616P-HT	EFE-252616-HT	AR-182810AL-HT	EFXE-182810AL-HT
AR-254012P-HT	EFE-254012-HT	AR-102311AL-HT	EFXE-102311AL-HT
AR-254016P-HT	EFE-254016-HT	AR-202311AL-HT	EFXE-202311AL-HT
AR-256012P-HT	EFE-256012-HT	AR-202318AL-HT	EFXE-202318AL-HT
AR-304020P-HT	EFE-304020-HT	AR-232811AL-HT	EFXE-232811AL-HT
AQ-363609P-HT	EFE-363609-HT	AR-233311AL-HT	EFXE-233311AL-HT
AR-406025P-HT	EFE-406025-HT	AR-233318AL-HT	EFXE-233318AL-HT
AQ-414012P-HT	EFE-414012-HT	AR-234011AL-HT	EFXE-234011AL-HT
AQ-414020P-HT	EFE-414020-HT	AR-234023AL-HT	EFXE-234023AL-HT
		AR-236011AL-HT	EFXE-236011AL-HT
		AR-314011AL-HT	EFXE-314011AL-HT
		AR-314014AL-HT	EFXE-314014AL-HT
		AR-314018AL-HT	EFXE-314018AL-HT
		AR-314023AL-HT	EFXE-314023AL-HT
		AR-316011AL-HT	EFXE-316011AL-HT
		AR-316018AL-HT	EFXE-316018AL-HT
		AQ-606020AL-HT	EFXE-606020AL-HT

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Polyester		Aluminium		Stainless steel	
AQ-080806P	EFE-080806	AQ-080806AL	EFXE-080806AL	SB-101210	EFXE-101210SB
AQ-080808P	EFE-080808	AR-081306AL	EFXE-081306AL	SB-151510	EFXE-151510SB
AR-081106P	EFE-081106	AR-081806AL	EFXE-081806AL	SB-142013	EFXE-142013SB
AR-081606P	EFE-081606	AR-081808AL	EFXE-081808AL	SB-202010	EFXE-202010SB
AR-081906P	EFE-081906	AR-082505AL	EFXE-082505AL	SB-202016	EFXE-202016SB
AQ-121209P	EFE-121209	AR-082508AL	EFXE-082508AL	SB-202713	EFXE-202713SB
AR-122209P	EFE-122209	AQ-101008AL	EFXE-101008AL	SB-272713	EFXE-272713SB
AQ-161609P	EFE-161609	AR-101508AL	EFXE-101508AL	SB-203016	EFXE-203016SB
AR-162609P	EFE-162609	AR-101608AL	EFXE-101608AL	SB-273513	EFXE-273513SB
AR-163609P	EFE-163609	AR-102008AL	EFXE-102008AL	SB-282816	EFXE-282816SB
AQ-252612P	EFE-252612	AQ-121208AL	EFXE-121208AL	SB-204016	EFXE-204016SB
AQ-252616P	EFE-252616	AR-122209AL	EFXE-122209AL	SB-353516	EFXE-353516SB
AR-254012P	EFE-254012	AQ-141409AL	EFXE-141409AL	SB-282827	EFXE-282827SB
AR-254016P	EFE-254016	AR-142009AL	EFXE-142009AL	SB-355016	EFXE-355016SB
AR-256012P	EFE-256012	AQ-161609AL	EFXE-161609AL	SB-383816	EFXE-383816SB
AQ-414012P	EFE-414012	AR-162410AL	EFXE-162410AL	SB-384516	EFXE-384516SB
		AR-162609AL	EFXE-162609AL	SB-385716	EFXE-385716SB
		AQ-181810AL	EFXE-181810AL	SB-505016	EFXE-505016SB
		AR-182810AL	EFXE-182810AL	SB-383827	EFXE-383827SB
		AR-202311AL	EFXE-202311AL	SB-575716	EFXE-575716SB
		AR-202318AL	EFXE-202318AL	SB-577620	EFXE-577620SB
		AR-232811AL	EFXE-232811AL	SB-575730	EFXE-575730SB
		AR-233312AL	EFXE-233312AL	SB-769520	EFXE-769520SB
		AR-233318AL	EFXE-233318AL	SB-1258040	EFXE-1258040SB

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Enclosure types (Stainless steel)	
ST-101210	EFXE-101210ST
ST-151510	EFXE-151510ST
ST-142013	EFXE-142013ST
ST-202010	EFXE-202010ST
ST-202016	EFXE-202016ST
ST-202713	EFXE-202713ST
ST-272713	EFXE-272713ST
ST-203016	EFXE-203016ST
ST-273513	EFXE-273513ST
ST-282816	EFXE-282816ST
ST-204016	EFXE-204016ST
ST-353516	EFXE-353516ST
ST-282827	EFXE-282827ST
ST-355016	EFXE-355016ST
ST-383816	EFXE-383816ST
ST-384516	EFXE-384516ST
ST-385716	EFXE-385716ST
ST-505016	EFXE-505016ST
ST-383827	EFXE-383827ST
ST-575716	EFXE-575716ST
ST-577620	EFXE-577620ST
ST-575730	EFXE-575730ST
ST-769520	EFXE-769520ST
ST-1258040	EFXE-1258040ST

Note 2 For stainless steel enclosures: dimensions (2) and (3) can be decreased or increased up to 20%, dimensions (4) can be increased up to 500 mm. Model name changes consequently.

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Power dissipation – HT glass fiber reinforced polyester resin enclosures

Enclosure types (polyester)		Maximum power dissipation (W) – Tamb. up to **40**°C							
		INTERNAL TEMP.60°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)	INTERNAL TEMP.127°C (T4/T135°C)
AQ-080806P-HT	EFE-080806-HT	3,5	5,2	7,0	7,8	9,6	10,4	11,3	15,2
AQ-080808P-HT	EFE-080808-HT	4,6	6,8	9,1	10,2	12,5	13,7	14,8	19,8
AR-081106P-HT	EFE-081106-HT	4,3	6,4	8,5	9,6	11,8	12,8	13,9	18,6
AR-081108P-HT	EFE-081108-HT	5,6	8,4	11,2	12,6	15,3	16,7	18,1	24,2
AR-081606P-HT	EFE-081606-HT	5,8	8,7	11,6	13,0	15,9	17,4	18,8	25.2
AR-081608P-HT	EFE-081608-HT	6,8	10,2	13,7	15,4	18,8	20,5	22,2	29,7
AR-081906P-HT	EFE-081906-HT	6,4	9,6	12,8	14,4	17,6	19,2	20,8	27,8
AR-081908P-HT	EFE-081908-HT	7,5	11,3	15,1	17,0	20,7	22,6	24,5	32,7
AR-082306P-HT	EFE-082306-HT	7,2	10,8	14,4	16,2	19,8	21,6	23,4	31,3
AR-082308P-HT	EFE-082308-HT	8,5	12,7	16,9	19,0	23,3	25,4	27,5	36,7
AQ-121209P-HT	EFE-121209-HT	8,0	12,0	15,9	17,9	21,9	23,9	25,9	34,7
AR-122209P-HT	EFE-122209-HT	10,8	16,2	21,6	24,3	29,7	32,4	35,1	47,0
AQ-161609P-HT	EFE-161609-HT	10,4	15,6	20,8	23,4	28,6	31,2	33,8	45,2
AR-162609P-HT	EFE-162609-HT	13,4	20,1	26,8	30,2	36,9	40,2	43,6	58,3
AR-163609P-HT	EFE-163609-HT	16,2	24,3	32,4	36,5	44,6	48,6	52,7	70,5
AR-165609P-HT	EFE-165609-HT	21,4	32,0	42,7	48,1	58,7	64,1	69,4	92,9
AQ-202017P-HT	EFE-202017-HT	18,0	26,9	35,9	40,4	49,4	53,9	58,4	78,1
AR-203017P-HT	EFE-203017-HT	20,9	31,3	41,7	47,0	57,4	62,6	67,8	90,8
AQ-252612P-HT	EFE-252612-HT	18,8	28,2	37,6	42,4	51,8	56,5	61,2	81,9
AQ-252616P-HT	EFE-252616-HT	20,8	31,1	41,5	46,7	57,1	62,3	67,5	90,3
AR-254012P-HT	EFE-254012-HT	22,8	34,2	45,7	51,4	62,8	68,5	74,2	99,3
AR-254016P-HT	EFE-254016-HT	26,2	39,3	52,4	58,9	72,0	78,6	85,1	113,9
AR-256012P-HT	EFE-256012-HT	29,0	43,6	58,1	65,3	79,9	87,1	94,4	126,3
AR-304020P-HT	EFE-304020-HT	32,3	48,5	64,7	72,7	88,9	97,0	105,1	140,7
AQ-363609P-HT	EFE-363609-HT	23,0	34,6	46,1	51,8	63,4	69,1	74,9	100,2
AR-406025P-HT	EFE-406025-HT	50,3	75,5	100,7	113,3	138,4	151,0	163,6	218,9
AQ-414012P-HT	EFE-414012-HT	29,1	43,7	58,2	65,5	80,1	87,3	94,6	126,6
AQ-414020P-HT	EFE-414020-HT	36,6	55,0	73,3	82,4	100,8	109,9	119,1	159,4

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Enclosure types (polyester)		Maximum power dissipation (W) – Tamb. up to **50**°C							
		INTERNAL TEMP.60°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)	INTERNAL TEMP.127°C (T4/T135°C)
AQ-080806P-HT	EFE-080806-HT	1,7	3,5	5,2	6,1	7,8	8,7	9,6	13,4
AQ-080808P-HT	EFE-080808-HT	2,3	4,6	6,8	8,0	10,2	11,4	12,5	17,5
AR-081106P-HT	EFE-081106-HT	2,1	4,3	6,4	7,5	9,6	10,7	11,8	16,5
AR-081108P-HT	EFE-081108-HT	2,8	5,6	8,4	9,8	12,6	13,9	15,3	21.5
AR-081606P-HT	EFE-081606-HT	2,9	5,8	8,7	10,1	13,0	14,5	15,9	22,3
AR-081608P-HT	EFE-081608-HT	3,4	6,8	10,2	11,9	15,4	17,1	18,8	26,3
AR-081906P-HT	EFE-081906-HT	3,2	6,4	9,6	11,2	14,4	16,0	17,6	24,6
AR-081908P-HT	EFE-081908-HT	3,8	7,5	11,3	13,2	17,0	18,8	20,7	29,0
AR-082306P-HT	EFE-082306-HT	3,6	7,2	10,8	12,6	16,2	18,0	19,8	27,7
AR-082308P-HT	EFE-082308-HT	4,2	8,5	12,7	14,8	19,0	21,1	23,3	32,5
AQ-121209P-HT	EFE-121209-HT	4,0	8,0	12,0	14,0	17,9	19,9	21,9	30,7
AR-122209P-HT	EFE-122209-HT	5,4	10,8	16,2	18,9	24,3	27,0	29,7	41,6
AQ-161609P-HT	EFE-161609-HT	5,2	10,4	15,6	18,2	23,4	26,0	28,6	40,0
AR-162609P-HT	EFE-162609-HT	6,7	13,4	20,1	23,5	30,2	33,5	36,9	51,6
AR-163609P-HT	EFE-163609-HT	8,1	16,2	24,3	28,4	36,5	40,5	44,6	62,3
AR-165609P-HT	EFE-165609-HT	10,7	21,4	32,0	37,4	48,1	53,4	58,7	82,2
AQ-202017P-HT	EFE-202017-HT	9,0	18,0	26,9	31,4	40,4	44,9	49,4	69,1
AR-203017P-HT	EFE-203017-HT	10,4	20,9	31,3	36,5	47,0	52,2	57,4	80,4
AQ-252612P-HT	EFE-252612-HT	9,4	18,8	28,2	32,9	42,4	47,1	51,8	72,5
AQ-252616P-HT	EFE-252616-HT	10,4	20,8	31,1	36,3	46,7	51,9	57,1	79,9
AR-254012P-HT	EFE-254012-HT	11,4	22,8	34,2	39,9	51,4	57,1	62,8	87,9
AR-254016P-HT	EFE-254016-HT	13,1	26,2	39,3	45,8	58,9	65,5	72,0	100,8
AR-256012P-HT	EFE-256012-HT	14,5	29,0	43,6	50,8	65,3	72,6	79,9	111,8
AR-304020P-HT	EFE-304020-HT	16,2	32,3	48,5	56,6	72,7	80,8	88,9	124,4
AQ-363609P-HT	EFE-363609-HT	11,5	23,0	34,6	40,3	51,8	57,6	63,4	88,7
AR-406025P-HT	EFE-406025-HT	25,2	50,3	75,5	88,1	113,3	125,8	138,4	193,8
AQ-414012P-HT	EFE-414012-HT	14,6	29,1	43,7	51,0	65,5	72,8	80,1	112,1
AQ-414020P-HT	EFE-414020-HT	18,3	36,6	55,0	64,1	82,4	91,6	100,8	141,1

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Enclosure types (polyester)		Maximum power dissipation (W) – Tamb. up to **55**°C							
		INTERNAL TEMP.65°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)	INTERNAL TEMP.127°C (T4/T135°C)
AQ-080806P-HT	EFE-080806-HT	1,7	2,6	4,4	5,2	7,0	7,8	8,7	12,5
AQ-080808P-HT	EFE-080808-HT	2,3	3,4	5,7	6,8	9,1	10,2	11,4	16,2
AR-081106P-HT	EFE-081106-HT	2,1	3,2	5,3	6,4	8,5	9,6	10,7	15,2
AR-081108P-HT	EFE-081108-HT	2,8	4,2	7,0	8,4	11,2	12,6	13,9	19,8
AR-081606P-HT	EFE-081606-HT	2,9	4,3	7,2	8,7	11,6	13,0	14,5	20,6
AR-081608P-HT	EFE-081608-HT	3,4	5,1	8,5	10,2	13,7	15,4	17,1	24,3
AR-081906P-HT	EFE-081906-HT	3,2	4,8	8,0	9,6	12,8	14,4	16,0	22,8
AR-081908P-HT	EFE-081908-HT	3,8	5,7	9,4	11,3	15,1	17,0	18,8	26,8
AR-082306P-HT	EFE-082306-HT	3,6	5,4	9,0	10,8	14,4	16,2	18,0	25,6
AR-082308P-HT	EFE-082308-HT	4,2	6,3	10,6	12,7	16,9	19,0	21,1	30,0
AQ-121209P-HT	EFE-121209-HT	4,0	6,0	10,0	12,0	15,9	17,9	19,9	28,3
AR-122209P-HT	EFE-122209-HT	5,4	8,1	13,5	16,2	21,6	24,3	27,0	38,3
AQ-161609P-HT	EFE-161609-HT	5,2	7,8	13,0	15,6	20,8	23,4	26,0	36,9
AR-162609P-HT	EFE-162609-HT	6,7	10,1	16,8	20,1	26,8	30,2	33,5	47,6
AR-163609P-HT	EFE-163609-HT	8,1	12,2	20,3	24,3	32,4	36,5	40,5	57,5
AR-165609P-HT	EFE-165609-HT	10,7	16,0	26,7	32,0	42,7	48,1	53,4	75,8
AQ-202017P-HT	EFE-202017-HT	9,0	13,5	22,4	26,9	35,9	40,4	44,9	63,7
AR-203017P-HT	EFE-203017-HT	10,4	15,7	26,1	31,3	41,7	47,0	52,2	74,0
AQ-252612P-HT	EFE-252612-HT	9,4	14,1	23,5	28,2	37,6	42,4	47,1	66,8
AQ-252616P-HT	EFE-252616-HT	10,4	15,6	26,0	31,1	41,5	46,7	51,9	73,7
AR-254012P-HT	EFE-254012-HT	11,4	17,1	28,5	34,2	45,7	51,4	57,1	81,0
AR-254016P-HT	EFE-254016-HT	13,1	19,6	32,7	39,3	52,4	58,9	65,5	92,9
AR-256012P-HT	EFE-256012-HT	14,5	21,8	36,3	43,6	58,1	65,3	72,6	103,0
AR-304020P-HT	EFE-304020-HT	16,2	24,2	40,4	48,5	64,7	72,7	80,8	114,7
AQ-363609P-HT	EFE-363609-HT	11,5	17,3	28,8	34,6	46,1	51,8	57,6	81,8
AR-406025P-HT	EFE-406025-HT	25,2	37,8	62,9	75,5	100,7	113,3	125,8	178,6
AQ-414012P-HT	EFE-414012-HT	14,6	21,8	36,4	43,7	58,2	65,5	72,8	103,0
AQ-414020P-HT	EFE-414020-HT	18,3	27,5	45,8	55,0	73,3	82,4	91,6	130,0

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Enclosure types (polyester)		Maximum power dissipation (W) – Tamb. up to **60**°C						
		INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)	INTERNAL TEMP.127°C (T4/T135°C)
AQ-080806P-HT	EFE-080806-HT	1,7	3,5	4,4	6,1	7,0	7,8	11,7
AQ-080808P-HT	EFE-080808-HT	2,3	4,6	5,7	8,0	9,1	10,2	15,2
AR-081106P-HT	EFE-081106-HT	2,1	4,3	5,3	7,5	8,5	9,6	14,3
AR-081108P-HT	EFE-081108-HT	2,8	5,6	7,0	9,8	11,2	12,6	18,7
AR-081606P-HT	EFE-081606-HT	2,9	5,8	7,2	10,1	11,6	13,0	19,4
AR-081608P-HT	EFE-081608-HT	3,4	6,8	8,5	11,9	13,7	15,4	22,9
AR-081906P-HT	EFE-081906-HT	3,2	6,4	8,0	11,2	12,8	14,4	21,4
AR-081908P-HT	EFE-081908-HT	3,8	7,5	9,4	13,2	15,1	17,0	25,3
AR-082306P-HT	EFE-082306-HT	3,6	7,2	9,0	12,6	14,4	16,2	24,1
AR-082308P-HT	EFE-082308-HT	4,2	8,5	10,6	14,8	16,9	19,0	28,3
AQ-121209P-HT	EFE-121209-HT	4,0	8,0	10,0	14,0	15,9	17,9	26,7
AR-122209P-HT	EFE-122209-HT	5,4	10,8	13,5	18,9	21,6	24,3	36,2
AQ-161609P-HT	EFE-161609-HT	5,2	10,4	13,0	18,2	20,8	23,4	34,8
AR-162609P-HT	EFE-162609-HT	6,7	13,4	16,8	23,5	26,8	30,2	44,9
AR-163609P-HT	EFE-163609-HT	8,1	16,2	20,3	28,4	32,4	36,5	54,2
AR-165609P-HT	EFE-165609-HT	10,7	21,4	26,7	37,4	42,7	48,1	71,5
AQ-202017P-HT	EFE-202017-HT	9,0	18,0	22,4	31,4	35,9	40,4	60,1
AR-203017P-HT	EFE-203017-HT	10,4	20,9	26,1	36,5	41,7	47,0	69,9
AQ-252612P-HT	EFE-252612-HT	9,4	18,8	23,5	32,9	37,6	42,4	63,0
AQ-252616P-HT	EFE-252616-HT	10,4	20,8	26,0	36,3	41,5	46,7	69,5
AR-254012P-HT	EFE-254012-HT	11,4	22,8	28,5	39,9	45,7	51,4	76,5
AR-254016P-HT	EFE-254016-HT	13,1	26,2	32,7	45,8	52,4	58,9	87,7
AR-256012P-HT	EFE-256012-HT	14,5	29,0	36,3	50,8	58,1	65,3	97,2
AR-304020P-HT	EFE-304020-HT	16,2	32,3	40,4	56,6	64,7	72,7	108,3
AQ-363609P-HT	EFE-363609-HT	11,5	23,0	28,8	40,3	46,1	51,8	77,1
AR-406025P-HT	EFE-406025-HT	25,2	50,3	62,9	88,1	100,7	113,3	168,7
AQ-414012P-HT	EFE-414012-HT	14,6	29,1	36,4	51,0	58,2	65,5	97,5
AQ-414020P-HT	EFE-414020-HT	18,3	36,6	45,8	64,1	73,3	82,4	122,7

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Enclosure types (polyester)		Maximum power dissipation (W) Tamb. up to **95**°C		
		INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)	INTERNAL TEMP.127°C (T4/T135°C)
AQ-080806P-HT	EFE-080806-HT	0,9	1,7	5,6
AQ-080808P-HT	EFE-080808-HT	1,1	2,3	7,3
AR-081106P-HT	EFE-081106-HT	1,1	2,1	6,5
AR-081108P-HT	EFE-081108-HT	1,4	2,8	9,0
AR-081606P-HT	EFE-081606-HT	1,4	2,9	9,2
AR-081608P-HT	EFE-081608-HT	1,7	3,4	10,9
AR-081906P-HT	EFE-081906-HT	1,6	3,2	10,2
AR-081908P-HT	EFE-081908-HT	1,9	3,8	12,1
AR-082306P-HT	EFE-082306-HT	1,8	3,6	11,5
AR-082308P-HT	EFE-082308-HT	2,1	4,2	13,5
AQ-121209P-HT	EFE-121209-HT	2,0	4,0	12,8
AR-122209P-HT	EFE-122209-HT	2,7	5,4	17,3
AQ-161609P-HT	EFE-161609-HT	2,6	5,2	16,6
AR-162609P-HT	EFE-162609-HT	3,4	6,7	21,5
AR-163609P-HT	EFE-163609-HT	4,1	8,1	26,0
AR-165609P-HT	EFE-165609-HT	5,3	10,7	34,2
AQ-202017P-HT	EFE-202017-HT	4,5	9,0	28,7
AR-203017P-HT	EFE-203017-HT	5,2	10,4	33,4
AQ-252612P-HT	EFE-252612-HT	4,7	9,4	30,1
AQ-252616P-HT	EFE-252616-HT	5,2	10,4	33,2
AR-254012P-HT	EFE-254012-HT	5,7	11,4	36,5
AR-254016P-HT	EFE-254016-HT	6,5	13,1	41,9
AR-256012P-HT	EFE-256012-HT	7,3	14,5	46,4
AR-304020P-HT	EFE-304020-HT	8,1	16,2	51,8
AQ-363609P-HT	EFE-363609-HT	5,8	11,5	36,8
AR-406025P-HT	EFE-406025-HT	12,6	25,2	80,6
AQ-414012P-HT	EFE-414012-HT	7,3	14,6	46,6
AQ-414020P-HT	EFE-414020-HT	9,2	18,3	58,6

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Power dissipation – HT aluminum alloy enclosures

Enclosure types (aluminium)		Maximum power dissipation (W) – Tamb. up to **40**°C							
		INTERNAL TEMP.60°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)	INTERNAL TEMP.130°C (T4/T135°C)
AQ-080806AL-HT	EFXE-080806AL-HT	5,2	7,8	10,4	11,7	14,3	15,6	16,9	23,4
AR-081306AL-HT	EFXE-081306AL-HT	7,0	10,6	14,1	15,9	19,4	21,2	23,0	31,8
AR-081806AL-HT	EFXE-081806AL-HT	8,9	13,3	17,8	20,0	24,5	26,7	28,9	40,0
AR-082505AL-HT	EFXE-082505AL-HT	10,9	16,4	21,9	24,7	30,1	32,9	35,6	49,4
AQ-101008AL-HT	EFXE-101008AL-HT	8,7	13,0	17,4	19,6	23,9	26,1	28,3	39,2
AR-101608AL-HT	EFXE-101608AL-HT	11,5	17,3	23,1	26,0	31,8	34,7	37,6	52,0
AR-102008AL-HT	EFXE-102008AL-HT	13,4	20,1	26,8	30,2	36,9	40,3	43,6	60,4
AQ-121208AL-HT	EFXE-121208AL-HT	10,8	16,2	21,6	24,3	29,7	32,4	35,1	48,6
AQ-121209AL-HT	EFXE-121209AL-HT	11,6	17,5	23,3	26,2	32,1	35,0	37,9	52,5
AR-122208AL-HT	EFXE-122208AL-HT	15,6	23,5	31,3	35,3	43,1	47,0	50,9	70,6
AR-122209AL-HT	EFXE-122209AL-HT	16,8	25,3	33,7	37,9	46,3	50,6	54,8	75,9
AR-123608AL-HT	EFXE-123608AL-HT	22,3	33,5	44,7	50,3	61,5	67,1	72,7	100,7
AQ-141409AL-HT	EFXE-141409AL-HT	13,7	20,6	27,5	31,0	37,9	41,3	44,8	62,0
AR-142009AL-HT	EFXE-142009AL-HT	17,1	25,7	34,2	38,5	47,1	51,4	55,7	77,1
AQ-161609AL-HT	EFXE-161609AL-HT	16,1	24,1	32,2	36,2	44,2	48,3	52,3	72,4
AR-162609AL-HT	EFXE-162609AL-HT	21,9	32,8	43,8	49,3	60,2	65,7	71,2	98,6
AR-163609AL-HT	EFXE-163609AL-HT	27,5	41,3	55,1	62,0	75,7	82,6	89,5	124,0
AR-165609AL-HT	EFXE-165609AL-HT	38,4	57,7	76,9	86,6	105,8	115,4	125,0	173,2
AQ-181810AL-HT	EFXE-181810AL-HT	19,7	29,6	39,5	44,4	54,3	59,2	64,2	88,8
AR-182810AL-HT	EFXE-182810AL-HT	26,1	39,1	52,2	58,7	71,8	78,3	84,8	117,5
AR-102311AL-HT	EFXE-102311AL-HT	18,2	27,3	36,5	41,0	50,1	54,7	59,3	82,1
AR-202311AL-HT	EFXE-202311AL-HT	26,1	39,1	52,2	58,7	71,7	78,3	84,8	117,4
AR-202318AL-HT	EFXE-202318AL-HT	35,9	53,9	71,8	80,8	98,8	107,8	116,8	161,7
AR-232811AL-HT	EFXE-232811AL-HT	31,6	47,5	63,3	71,3	87,1	95,0	103,0	142,6
AR-233311AL-HT	EFXE-233311AL-HT	35,3	52,9	70,6	79,4	97,0	105,9	114,7	158,8
AR-233318AL-HT	EFXE-233318AL-HT	47,5	71,3	95,1	107,0	130,8	142,7	154,6	214,1
AR-234011AL-HT	EFXE-234011AL-HT	40,2	60,4	80,5	90,6	110,7	120,8	130,9	181,2
AR-234023AL-HT	EFXE-234023AL-HT	62,2	93,3	124,5	140,0	171,2	186,7	202,3	280,1
AR-236011AL-HT	EFXE-236011AL-HT	54,1	81,2	108,3	121,9	148,9	162,5	176,0	243,8
AR-314011AL-HT	EFXE-314011AL-HT	48,6	72,9	97,2	109,3	133,6	145,8	157,9	218,7
AR-314014AL-HT	EFXE-314014AL-HT	54,9	82,4	109,9	123,7	151,2	164,9	178,7	247,4
AR-314018AL-HT	EFXE-314018AL-HT	63,8	95,7	127,6	143,5	175,4	191,4	207,3	287,1
AR-314023AL-HT	EFXE-314023AL-HT	73,5	110,3	147,1	165,5	202,3	220,7	239,1	331,0
AR-316011AL-HT	EFXE-316011AL-HT	64,0	96,0	128,1	144,1	176,1	192,1	208,1	288,2
AR-316018AL-HT	EFXE-316018AL-HT	82,7	124,1	165,5	186,2	227,6	248,3	268,9	372,4
AQ-606020AL-HT	EFXE-606020AL-HT	129,1	193,7	258,3	290,5	355,1	387,4	419,7	581,1

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Enclosure types (aluminium)		Maximum power dissipation (W) – Tamb. up to **50**°C							
		INTERNAL TEMP.60°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)	INTERNAL TEMP.130°C (T4/T135°C)
AQ-080806AL-HT	EFXE-080806AL-HT	2,6	5,2	7,8	9,1	11,7	13,0	14,3	20,8
AR-081306AL-HT	EFXE-081306AL-HT	3,5	7,0	10,6	12,3	15,9	17,7	19,4	28,3
AR-081806AL-HT	EFXE-081806AL-HT	4,4	8,9	13,3	15,5	20,0	22,2	24,5	35,6
AR-082505AL-HT	EFXE-082505AL-HT	5,4	10,9	16,4	19,2	24,7	27,4	30,1	43,9
AQ-101008AL-HT	EFXE-101008AL-HT	4,3	8,7	13,0	15,2	19,6	21,7	23,9	34,8
AR-101608AL-HT	EFXE-101608AL-HT	5,7	11,5	17,3	20,2	26,0	28,9	31,8	46,2
AR-102008AL-HT	EFXE-102008AL-HT	6,7	13,4	20,1	23,5	30,2	33,5	36,9	53,7
AQ-121208AL-HT	EFXE-121208AL-HT	5,4	10,8	16,2	18,9	24,3	27,0	29,7	43,2
AQ-121209AL-HT	EFXE-121209AL-HT	5,8	11,6	17,5	20,4	26,2	29,2	32,1	46,7
AR-122208AL-HT	EFXE-122208AL-HT	7,8	15,6	23,5	27,4	35,3	39,2	43,1	62,7
AR-122209AL-HT	EFXE-122209AL-HT	8,4	16,8	25,3	29,5	37,9	42,1	46,3	67,4
AR-123608AL-HT	EFXE-123608AL-HT	11,1	22,3	33,5	39,1	50,3	55,9	61,5	89,5
AQ-141409AL-HT	EFXE-141409AL-HT	6,8	13,7	20,6	24,1	31,0	34,4	37,9	55,1
AR-142009AL-HT	EFXE-142009AL-HT	8,5	17,1	25,7	30,0	38,5	42,8	47,1	68,5
AQ-161609AL-HT	EFXE-161609AL-HT	8,0	16,1	24,1	28,1	36,2	40,2	44,2	64,4
AR-162609AL-HT	EFXE-162609AL-HT	10,9	21,9	32,8	38,3	49,3	54,8	60,2	87,6
AR-163609AL-HT	EFXE-163609AL-HT	13,7	27,5	41,3	48,2	62,0	68,9	75,7	110,2
AR-165609AL-HT	EFXE-165609AL-HT	19,2	38,4	57,7	67,3	86,6	96,2	105,8	153,9
AQ-181810AL-HT	EFXE-181810AL-HT	9,8	19,7	29,6	34,5	44,4	49,3	54,3	79,0
AR-182810AL-HT	EFXE-182810AL-HT	13,0	26,1	39,1	45,7	58,7	65,2	71,8	104,4
AR-102311AL-HT	EFXE-102311AL-HT	9,1	18,2	27,3	31,9	41,0	45,6	50,1	73,0
AR-202311AL-HT	EFXE-202311AL-HT	13,0	26,1	39,1	45,6	58,7	65,2	71,7	104,4
AR-202318AL-HT	EFXE-202318AL-HT	17,9	35,9	53,9	62,8	80,8	89,8	98,8	143,7
AR-232811AL-HT	EFXE-232811AL-HT	15,8	31,6	47,5	55,4	71,3	79,2	87,1	126,7
AR-233311AL-HT	EFXE-233311AL-HT	17,6	35,3	52,9	61,7	79,4	88,2	97,0	141,2
AR-233318AL-HT	EFXE-233318AL-HT	23,7	47,5	71,3	83,2	107,0	118,9	130,8	190,3
AR-234011AL-HT	EFXE-234011AL-HT	20,1	40,2	60,4	70,5	90,6	100,7	110,7	161,1
AR-234023AL-HT	EFXE-234023AL-HT	31,1	62,2	93,3	108,9	140,0	155,6	171,2	249,0
AR-236011AL-HT	EFXE-236011AL-HT	27,0	54,1	81,2	94,8	121,9	135,4	148,9	216,7
AR-314011AL-HT	EFXE-314011AL-HT	24,3	48,6	72,9	85,0	109,3	121,5	133,6	194,4
AR-314014AL-HT	EFXE-314014AL-HT	27,4	54,9	82,4	96,2	123,7	137,4	151,2	219,9
AR-314018AL-HT	EFXE-314018AL-HT	31,9	63,8	95,7	111,6	143,5	159,5	175,4	255,2
AR-314023AL-HT	EFXE-314023AL-HT	36,7	73,5	110,3	128,7	165,5	183,9	202,3	294,2
AR-316011AL-HT	EFXE-316011AL-HT	32,0	64,0	96,0	112,0	144,1	160,1	176,1	256,2
AR-316018AL-HT	EFXE-316018AL-HT	41,3	82,7	124,1	144,8	186,2	206,9	227,6	331,0
AQ-606020AL-HT	EFXE-606020AL-HT	64,5	129,1	193,7	226,0	290,5	322,8	355,1	516,6

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Enclosure types (aluminium)		Maximum power dissipation (W) – Tamb. up to **55**°C							
		INTERNAL TEMP.65°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)	INTERNAL TEMP.130°C (T4/T135°C)
AQ-080806AL-HT	EFXE-080806AL-HT	2,6	3,9	6,5	7,8	10,4	11,7	13,0	19,5
AR-081306AL-HT	EFXE-081306AL-HT	3,5	5,3	8,8	10,6	14,1	15,9	17,7	26,5
AR-081806AL-HT	EFXE-081806AL-HT	4,4	6,6	11,1	13,3	17,8	20,0	22,2	33,4
AR-082505AL-HT	EFXE-082505AL-HT	5,4	8,2	13,7	16,4	21,9	24,7	27,4	41,1
AQ-101008AL-HT	EFXE-101008AL-HT	4,3	6,5	10,8	13,0	17,4	19,6	21,7	32,6
AR-101608AL-HT	EFXE-101608AL-HT	5,7	8,6	14,4	17,3	23,1	26,0	28,9	43,3
AR-102008AL-HT	EFXE-102008AL-HT	6,7	10,0	16,7	20,1	26,8	30,2	33,5	50,3
AQ-121208AL-HT	EFXE-121208AL-HT	5,4	8,1	13,5	16,2	21,6	24,3	27,0	40,5
AQ-121209AL-HT	EFXE-121209AL-HT	5,8	8,7	14,6	17,5	23,3	26,2	29,2	43,8
AR-122208AL-HT	EFXE-122208AL-HT	7,8	11,7	19,6	23,5	31,3	35,3	39,2	58,8
AR-122209AL-HT	EFXE-122209AL-HT	8,4	12,6	21,0	25,3	33,7	37,9	42,1	63,2
AR-123608AL-HT	EFXE-123608AL-HT	11,1	16,7	27,9	33,5	44,7	50,3	55,9	83,9
AQ-141409AL-HT	EFXE-141409AL-HT	6,8	10,3	17,2	20,6	27,5	31,0	34,4	51,7
AR-142009AL-HT	EFXE-142009AL-HT	8,5	12,8	21,4	25,7	34,2	38,5	42,8	64,3
AQ-161609AL-HT	EFXE-161609AL-HT	8,0	12,0	20,1	24,1	32,2	36,2	40,2	60,4
AR-162609AL-HT	EFXE-162609AL-HT	10,9	16,4	27,4	32,8	43,8	49,3	54,8	82,2
AR-163609AL-HT	EFXE-163609AL-HT	13,7	20,6	34,4	41,3	55,1	62,0	68,9	103,3
AR-165609AL-HT	EFXE-165609AL-HT	19,2	28,8	48,1	57,7	76,9	86,6	96,2	144,3
AQ-181810AL-HT	EFXE-181810AL-HT	9,8	14,8	24,6	29,6	39,5	44,4	49,3	74,0
AR-182810AL-HT	EFXE-182810AL-HT	13,0	19,5	32,6	39,1	52,2	58,7	65,2	97,9
AR-102311AL-HT	EFXE-102311AL-HT	9,1	13,6	22,8	27,3	36,5	41,0	45,6	68,4
AR-202311AL-HT	EFXE-202311AL-HT	13,0	19,5	32,6	39,1	52,2	58,7	65,2	97,9
AR-202318AL-HT	EFXE-202318AL-HT	17,9	26,9	44,9	53,9	71,8	80,8	89,8	134,7
AR-232811AL-HT	EFXE-232811AL-HT	15,8	23,7	39,6	47,5	63,3	71,3	79,2	118,8
AR-233311AL-HT	EFXE-233311AL-HT	17,6	26,4	44,1	52,9	70,6	79,4	88,2	132,3
AR-233318AL-HT	EFXE-233318AL-HT	23,7	35,6	59,4	71,3	95,1	107,0	118,9	178,4
AR-234011AL-HT	EFXE-234011AL-HT	20,1	30,2	50,3	60,4	80,5	90,6	100,7	151,0
AR-234023AL-HT	EFXE-234023AL-HT	31,1	46,6	77,8	93,3	124,5	140,0	155,6	233,4
AR-236011AL-HT	EFXE-236011AL-HT	27,0	40,6	67,7	81,2	108,3	121,9	135,4	203,1
AR-314011AL-HT	EFXE-314011AL-HT	24,3	36,4	60,7	72,9	97,2	109,3	121,5	182,3
AR-314014AL-HT	EFXE-314014AL-HT	27,4	41,2	68,7	82,4	109,9	123,7	137,4	206,2
AR-314018AL-HT	EFXE-314018AL-HT	31,9	47,8	79,7	95,7	127,6	143,5	159,5	239,2
AR-314023AL-HT	EFXE-314023AL-HT	36,7	55,1	91,9	110,3	147,1	165,5	183,9	275,8
AR-316011AL-HT	EFXE-316011AL-HT	32,0	48,0	80,0	96,0	128,1	144,1	160,1	240,1
AR-316018AL-HT	EFXE-316018AL-HT	41,3	62,0	103,4	124,1	165,5	186,2	206,9	310,3
AQ-606020AL-HT	EFXE-606020AL-HT	64,5	96,8	161,4	193,7	258,3	290,5	322,8	484,3

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Enclosure types (aluminium)		Maximum power dissipation (W) – Tamb. up to **60**°C						
		INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)	INTERNAL TEMP.130°C (T4/T135°C)
AQ-080806AL-HT	EFXE-080806AL-HT	2,6	5,2	6,5	9,1	10,4	11,7	18,2
AR-081306AL-HT	EFXE-081306AL-HT	3,5	7,0	8,8	12,3	14,1	15,9	24,7
AR-081806AL-HT	EFXE-081806AL-HT	4,4	8,9	11,1	15,5	17,8	20,0	31,1
AR-082505AL-HT	EFXE-082505AL-HT	5,4	10,9	13,7	19,2	21,9	24,7	38,4
AQ-101008AL-HT	EFXE-101008AL-HT	4,3	8,7	10,8	15,2	17,4	19,6	30,4
AR-101608AL-HT	EFXE-101608AL-HT	5,7	11,5	14,4	20,2	23,1	26,0	40,5
AR-102008AL-HT	EFXE-102008AL-HT	6,7	13,4	16,7	23,5	26,8	30,2	47,0
AQ-121208AL-HT	EFXE-121208AL-HT	5,4	10,8	13,5	18,9	21,6	24,3	37,8
AQ-121209AL-HT	EFXE-121209AL-HT	5,8	11,6	14,6	20,4	23,3	26,2	40,8
AR-122208AL-HT	EFXE-122208AL-HT	7,8	15,6	19,6	27,4	31,3	35,3	54,9
AR-122209AL-HT	EFXE-122209AL-HT	8,4	16,8	21,0	29,5	33,7	37,9	59,0
AR-123608AL-HT	EFXE-123608AL-HT	11,1	22,3	27,9	39,1	44,7	50,3	78,3
AQ-141409AL-HT	EFXE-141409AL-HT	6,8	13,7	17,2	24,1	27,5	31,0	48,2
AR-142009AL-HT	EFXE-142009AL-HT	8,5	17,1	21,4	30,0	34,2	38,5	60,0
AQ-161609AL-HT	EFXE-161609AL-HT	8,0	16,1	20,1	28,1	32,2	36,2	56,3
AR-162609AL-HT	EFXE-162609AL-HT	10,9	21,9	27,4	38,3	43,8	49,3	76,7
AR-163609AL-HT	EFXE-163609AL-HT	13,7	27,5	34,4	48,2	55,1	62,0	96,4
AR-165609AL-HT	EFXE-165609AL-HT	19,2	38,4	48,1	67,3	76,9	86,6	134,7
AQ-181810AL-HT	EFXE-181810AL-HT	9,8	19,7	24,6	34,5	39,5	44,4	69,1
AR-182810AL-HT	EFXE-182810AL-HT	13,0	26,1	32,6	45,7	52,2	58,7	91,4
AR-102311AL-HT	EFXE-102311AL-HT	9,1	18,2	22,8	31,9	36,5	41,0	63,8
AR-202311AL-HT	EFXE-202311AL-HT	13,0	26,1	32,6	45,6	52,2	58,7	91,3
AR-202318AL-HT	EFXE-202318AL-HT	17,9	35,9	44,9	62,8	71,8	80,8	125,7
AR-232811AL-HT	EFXE-232811AL-HT	15,8	31,6	39,6	55,4	63,3	71,3	110,9
AR-233311AL-HT	EFXE-233311AL-HT	17,6	35,3	44,1	61,7	70,6	79,4	123,5
AR-233318AL-HT	EFXE-233318AL-HT	23,7	47,5	59,4	83,2	95,1	107,0	166,5
AR-234011AL-HT	EFXE-234011AL-HT	20,1	40,2	50,3	70,5	80,5	90,6	141,0
AR-234023AL-HT	EFXE-234023AL-HT	31,1	62,2	77,8	108,9	124,5	140,0	217,9
AR-236011AL-HT	EFXE-236011AL-HT	27,0	54,1	67,7	94,8	108,3	121,9	189,6
AR-314011AL-HT	EFXE-314011AL-HT	24,3	48,6	60,7	85,0	97,2	109,3	170,1
AR-314014AL-HT	EFXE-314014AL-HT	27,4	54,9	68,7	96,2	109,9	123,7	192,4
AR-314018AL-HT	EFXE-314018AL-HT	31,9	63,8	79,7	111,6	127,6	143,5	223,3
AR-314023AL-HT	EFXE-314023AL-HT	36,7	73,5	91,9	128,7	147,1	165,5	257,4
AR-316011AL-HT	EFXE-316011AL-HT	32,0	64,0	80,0	112,0	128,1	144,1	224,1
AR-316018AL-HT	EFXE-316018AL-HT	41,3	82,7	103,4	144,8	165,5	186,2	289,6
AQ-606020AL-HT	EFXE-606020AL-HT	64,5	129,1	161,4	226,0	258,3	290,5	452,0

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Enclosure types (aluminium)		Maximum power dissipation (W) Tamb. up to **95**°C		
		INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)	INTERNAL TEMP.130°C (T4/T135°C)
AQ-080806AL-HT	EFXE-080806AL-HT	1,3	2,6	9,1
AR-081306AL-HT	EFXE-081306AL-HT	1,7	3,5	12,3
AR-081806AL-HT	EFXE-081806AL-HT	2,2	4,4	15,5
AR-082505AL-HT	EFXE-082505AL-HT	2,7	5,4	19,2
AQ-101008AL-HT	EFXE-101008AL-HT	2,1	4,3	15,2
AR-101608AL-HT	EFXE-101608AL-HT	2,8	5,7	20,2
AR-102008AL-HT	EFXE-102008AL-HT	3,3	6,7	23,5
AQ-121208AL-HT	EFXE-121208AL-HT	2,7	5,4	18,9
AQ-121209AL-HT	EFXE-121209AL-HT	2,9	5,8	20,4
AR-122208AL-HT	EFXE-122208AL-HT	3,9	7,8	27,4
AR-122209AL-HT	EFXE-122209AL-HT	4,2	8,4	29,5
AR-123608AL-HT	EFXE-123608AL-HT	5,5	11,1	39,1
AQ-141409AL-HT	EFXE-141409AL-HT	3,4	6,8	24,1
AR-142009AL-HT	EFXE-142009AL-HT	4,2	8,5	30,0
AQ-161609AL-HT	EFXE-161609AL-HT	4,0	8,0	28,1
AR-162609AL-HT	EFXE-162609AL-HT	5,4	10,9	38,3
AR-163609AL-HT	EFXE-163609AL-HT	6,8	13,7	48,2
AR-165609AL-HT	EFXE-165609AL-HT	9,6	19,2	67,3
AQ-181810AL-HT	EFXE-181810AL-HT	4,9	9,8	34,5
AR-182810AL-HT	EFXE-182810AL-HT	6,5	13,0	45,7
AR-102311AL-HT	EFXE-102311AL-HT	4,5	9,1	31,9
AR-202311AL-HT	EFXE-202311AL-HT	6,5	13,0	45,6
AR-202318AL-HT	EFXE-202318AL-HT	8,9	17,9	62,8
AR-232811AL-HT	EFXE-232811AL-HT	7,9	15,8	55,4
AR-233311AL-HT	EFXE-233311AL-HT	8,8	17,6	61,7
AR-233318AL-HT	EFXE-233318AL-HT	11,8	23,7	83,2
AR-234011AL-HT	EFXE-234011AL-HT	10,0	20,1	70,5
AR-234023AL-HT	EFXE-234023AL-HT	15,5	31,1	108,9
AR-236011AL-HT	EFXE-236011AL-HT	13,5	27,0	94,8
AR-314011AL-HT	EFXE-314011AL-HT	12,1	24,3	85,0
AR-314014AL-HT	EFXE-314014AL-HT	13,7	27,4	96,2
AR-314018AL-HT	EFXE-314018AL-HT	15,9	31,9	111,6
AR-314023AL-HT	EFXE-314023AL-HT	18,3	36,7	128,7
AR-316011AL-HT	EFXE-316011AL-HT	16,0	32,0	112,0
AR-316018AL-HT	EFXE-316018AL-HT	20,6	41,3	144,8
AQ-606020AL-HT	EFXE-606020AL-HT	32,2	64,5	226,0

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Power dissipation – Glass fiber reinforced polyester resin enclosures

Enclosure types (polyester)		Maximum power dissipation (W) – Tamb. up to **40**°C						
		INTERNAL TEMP.60°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
AQ-080806P	EFE-080806	3,4	5,2	6,9	7,8	9,5	10,4	11,3
AQ-080808P	EFE-080808	4,5	6,8	9,1	10,2	12,5	13,6	14,7
AR-081106P	EFE-081106	4,2	6,4	8,5	9,6	11,7	12,8	13,8
AR-081606P	EFE-081606	5,7	8,6	11,5	13,0	15,9	17,3	18,8
AR-081906P	EFE-081906	6,4	9,6	12,8	14,4	17,6	19,2	20,8
AQ-121209P	EFE-121209	7,9	11,9	15,9	17,9	21,9	23,9	25,9
AR-122209P	EFE-122209	10,8	16,2	21,6	24,3	29,7	32,4	35,1
AQ-161609P	EFE-161609	10,3	15,5	20,7	23,3	28,5	31,1	33,7
AR-162609P	EFE-162609	13,4	20,1	26,8	30,1	36,8	40,2	43,5
AR-163609P	EFE-163609	16,2	24,3	32,4	36,4	44,5	48,6	52,6
AQ-252612P	EFE-252612	18,8	28,2	37,6	42,3	51,7	56,4	61,1
AQ-252616P	EFE-252616	21,7	32,6	43,5	49,0	59,9	65,3	70,8
AR-254012P	EFE-254012	23,9	35,9	47,9	53,9	65,9	71,8	77,8
AR-254016P	EFE-254016	27,4	41,2	54,9	61,8	75,6	82,4	89,3
AR-256012P	EFE-256012	29,0	43,5	58,0	65,3	79,8	87,1	94,3
AQ-414012P	EFE-414012	29,1	43,6	58,2	65,5	80,0	87,3	94,6
AQ-414016P	EFE-414016	32,9	49,4	65,9	74,1	90,6	98,8	107,0

Enclosure types (polyester)		Maximum power dissipation (W) – Tamb. up to **50**°C						
		INTERNAL TEMP.60°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
AQ-080806P	EFE-080806	1,7	3,4	5,2	6,0	7,8	8,7	9,5
AQ-080808P	EFE-080808	2,2	4,5	6,8	7,9	10,2	11,3	12,5
AR-081106P	EFE-081106	2,1	4,2	6,4	7,4	9,6	10,6	11,7
AR-081606P	EFE-081606	2,8	5,7	8,6	10,1	13,0	14,4	15,9
AR-081906P	EFE-081906	3,2	6,4	9,6	11,2	14,4	16,0	17,6
AQ-121209P	EFE-121209	3,9	7,9	11,9	13,9	17,9	19,9	21,9
AR-122209P	EFE-122209	5,4	10,8	16,2	18,9	24,3	27,0	29,7
AQ-161609P	EFE-161609	5,1	10,3	15,5	18,1	23,3	25,9	28,5
AR-162609P	EFE-162609	6,7	13,4	20,1	23,4	30,1	33,5	36,8
AR-163609P	EFE-163609	8,1	16,2	24,3	28,3	36,4	40,5	44,5
AQ-252612P	EFE-252612	9,4	18,8	28,2	32,9	42,3	47,0	51,7
AQ-252616P	EFE-252616	10,8	21,7	32,6	38,1	49,0	54,4	59,9
AR-254012P	EFE-254012	11,9	23,9	35,9	41,9	53,9	59,9	65,9
AR-254016P	EFE-254016	13,7	27,4	41,2	48,1	61,8	68,7	75,6
AR-256012P	EFE-256012	14,5	29,0	43,5	50,8	65,3	72,6	79,8
AQ-414012P	EFE-414012	14,5	29,1	43,6	50,9	65,5	72,7	80,0
AQ-414016P	EFE-414016	16,4	32,9	49,4	57,6	74,1	82,3	90,6

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Enclosure types (polyester)		Maximum power dissipation (W) – Tamb. up to **55**°C						
		INTERNAL TEMP.65°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
AQ-080806P	EFE-080806	1,7	2,6	4,3	5,2	6,9	7,8	8,7
AQ-080808P	EFE-080808	2,2	3,4	5,6	6,8	9,1	10,2	11,3
AR-081106P	EFE-081106	2,1	3,2	5,3	6,4	8,5	9,6	10,6
AR-081606P	EFE-081606	2,8	4,3	7,2	8,6	11,5	13,0	14,4
AR-081906P	EFE-081906	3,2	4,8	8,0	9,6	12,8	14,4	16,0
AQ-121209P	EFE-121209	3,9	5,9	9,9	11,9	15,9	17,9	19,9
AR-122209P	EFE-122209	5,4	8,1	13,5	16,2	21,6	24,3	27,0
AQ-161609P	EFE-161609	5,1	7,7	12,9	15,5	20,7	23,3	25,9
AR-162609P	EFE-162609	6,7	10,0	16,7	20,1	26,8	30,1	33,5
AR-163609P	EFE-163609	8,1	12,1	20,2	24,3	32,4	36,4	40,5
AQ-252612P	EFE-252612	9,4	14,1	23,5	28,2	37,6	42,3	47,0
AQ-252616P	EFE-252616	10,8	16,3	27,2	32,6	43,5	49,0	54,4
AR-254012P	EFE-254012	11,9	17,9	29,9	35,9	47,9	53,9	59,9
AR-254016P	EFE-254016	13,7	20,6	34,3	41,2	54,9	61,8	68,7
AR-256012P	EFE-256012	14,5	21,7	36,3	43,5	58,0	65,3	72,6
AQ-414012P	EFE-414012	14,5	21,8	36,3	43,6	58,2	65,5	72,7
AQ-414016P	EFE-414016	16,4	24,7	41,1	49,4	65,9	74,1	82,3

Enclosure types (polyester)		Maximum power dissipation (W) – Tamb. up to **60**°C					
		INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
AQ-080806P	EFE-080806	1,7	3,4	4,3	6,0	6,9	7,8
AQ-080808P	EFE-080808	2,2	4,5	5,6	7,9	9,1	10,2
AR-081106P	EFE-081106	2,1	4,2	5,3	7,4	8,5	9,6
AR-081606P	EFE-081606	2,8	5,7	7,2	10,1	11,5	13,0
AR-081906P	EFE-081906	3,2	6,4	8,0	11,2	12,8	14,4
AQ-121209P	EFE-121209	3,9	7,9	9,9	13,9	15,9	17,9
AR-122209P	EFE-122209	5,4	10,8	13,5	18,9	21,6	24,3
AQ-161609P	EFE-161609	5,1	10,3	12,9	18,1	20,7	23,3
AR-162609P	EFE-162609	6,7	13,4	16,7	23,4	26,8	30,1
AR-163609P	EFE-163609	8,1	16,2	20,2	28,3	32,4	36,4
AQ-252612P	EFE-252612	9,4	18,8	23,5	32,9	37,6	42,3
AQ-252616P	EFE-252616	10,8	21,7	27,2	38,1	43,5	49,0
AR-254012P	EFE-254012	11,9	23,9	29,9	41,9	47,9	53,9
AR-254016P	EFE-254016	13,7	27,4	34,3	48,1	54,9	61,8
AR-256012P	EFE-256012	14,5	29,0	36,3	50,8	58,0	65,3
AQ-414012P	EFE-414012	14,5	29,1	36,3	50,9	58,2	65,5
AQ-414016P	EFE-414016	16,4	32,9	41,1	57,6	65,9	74,1

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Enclosure types (polyester)		Maximum power dissipation (W) – Tamb. up to **95**°C	
		INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
AQ-080806P	EFE-080806	0,8	1,7
AQ-080808P	EFE-080808	1,1	2,2
AR-081106P	EFE-081106	1,0	2,1
AR-081606P	EFE-081606	1,4	2,8
AR-081906P	EFE-081906	1,6	3,2
AQ-121209P	EFE-121209	1,9	3,9
AR-122209P	EFE-122209	2,7	5,4
AQ-161609P	EFE-161609	2,5	5,1
AR-162609P	EFE-162609	3,3	6,7
AR-163609P	EFE-163609	4,0	8,1
AQ-252612P	EFE-252612	4,7	9,4
AQ-252616P	EFE-252616	5,4	10,8
AR-254012P	EFE-254012	5,9	11,9
AR-254016P	EFE-254016	6,8	13,7
AR-256012P	EFE-256012	7,2	14,5
AQ-414012P	EFE-414012	7,2	14,5
AQ-414016P	EFE-414016	8,2	16,4

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Power dissipation – Aluminum alloy enclosures

Enclosure types (aluminium)		Maximum power dissipation (W) – Tamb. up to **40**°C						
		INTERNAL TEMP.60°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
AQ-080806AL	EFXE-080806AL	5,2	7,8	10,4	11,7	14,3	15,6	16,9
AR-081306AL	EFXE-081306AL	7,0	10,6	14,1	15,9	19,4	21,2	23,0
AR-081806AL	EFXE-081806AL	8,9	13,3	17,8	20,0	24,5	26,7	28,9
AR-081808AL	EFXE-081808AL	11,0	16,5	22,1	24,8	30,4	33,1	35,9
AR-082505AL	EFXE-082505AL	10,7	16,1	21,4	24,1	29,5	32,2	34,8
AR-082508AL	EFXE-082508AL	14,2	21,4	28,5	32,1	39,2	42,8	46,4
AQ-101008AL	EFXE-101008AL	8,7	13,0	17,4	19,6	23,9	26,1	28,3
AR-101508AL	EFXE-101508AL	11,1	16,6	22,2	24,9	30,5	33,3	36,0
AR-101608AL	EFXE-101608AL	11,5	17,3	23,1	26,0	31,8	34,7	37,6
AR-102008AL	EFXE-102008AL	13,4	20,1	26,8	30,2	36,9	40,3	43,6
AQ-121208AL	EFXE-121208AL	10,8	16,2	21,6	24,3	29,7	32,4	35,1
AR-122209AL	EFXE-122209AL	16,8	25,3	33,7	37,9	46,3	50,6	54,8
AQ-141409AL	EFXE-141409AL	13,7	20,6	27,5	31,0	37,9	41,3	44,8
AR-142009AL	EFXE-142009AL	17,1	25,7	34,2	38,5	47,1	51,4	55,7
AQ-161609AL	EFXE-161609AL	17,2	25,8	34,4	38,7	47,3	51,6	55,9
AR-162410AL	EFXE-162410AL	22,1	33,1	44,2	49,7	60,8	66,3	71,8
AR-162609AL	EFXE-162609AL	21,9	32,8	43,8	49,3	60,2	65,7	71,2
AQ-181810AL	EFXE-181810AL	19,7	29,6	39,5	44,4	54,3	59,2	64,2
AR-182810AL	EFXE-182810AL	26,1	39,1	52,2	58,7	71,8	78,3	84,8
AR-202311AL	EFXE-202311AL	25,8	38,7	51,6	58,0	71,0	77,4	83,9
AR-202318AL	EFXE-202318AL	35,5	53,3	71,1	80,0	97,8	106,7	115,6
AR-232811AL	EFXE-232811AL	31,6	47,5	63,3	71,3	87,1	95,0	103,0
AR-233312AL	EFXE-233312AL	37,0	55,6	74,1	83,4	101,9	111,2	120,5
AR-233318AL	EFXE-233318AL	47,5	71,3	95,1	107,0	130,8	142,7	154,6

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Enclosure types (aluminium)		Maximum power dissipation (W) – Tamb. up to **50**°C						
		INTERNAL TEMP.60°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
AQ-080806AL	EFXE-080806AL	2,6	5,2	7,8	9,1	11,7	13,0	14,3
AR-081306AL	EFXE-081306AL	3,5	7,0	10,6	12,3	15,9	17,7	19,4
AR-081806AL	EFXE-081806AL	4,4	8,9	13,3	15,5	20,0	22,2	24,5
AR-081808AL	EFXE-081808AL	5,5	11,0	16,5	19,3	24,8	27,6	30,4
AR-082505AL	EFXE-082505AL	5,3	10,7	16,1	18,7	24,1	26,8	29,5
AR-082508AL	EFXE-082508AL	7,1	14,2	21,4	24,9	32,1	35,7	39,2
AQ-101008AL	EFXE-101008AL	4,3	8,7	13,0	15,2	19,6	21,7	23,9
AR-101508AL	EFXE-101508AL	5,5	11,1	16,6	19,4	24,9	27,7	30,5
AR-101608AL	EFXE-101608AL	5,7	11,5	17,3	20,2	26,0	28,9	31,8
AR-102008AL	EFXE-102008AL	6,7	13,4	20,1	23,5	30,2	33,5	36,9
AQ-121208AL	EFXE-121208AL	5,4	10,8	16,2	18,9	24,3	27,0	29,7
AR-122209AL	EFXE-122209AL	8,4	16,8	25,3	29,5	37,9	42,1	46,3
AQ-141409AL	EFXE-141409AL	6,8	13,7	20,6	24,1	31,0	34,4	37,9
AR-142009AL	EFXE-142009AL	8,5	17,1	25,7	30,0	38,5	42,8	47,1
AQ-161609AL	EFXE-161609AL	8,6	17,2	25,8	30,1	38,7	43,0	47,3
AR-162410AL	EFXE-162410AL	11,0	22,1	33,1	38,7	49,7	55,3	60,8
AR-162609AL	EFXE-162609AL	10,9	21,9	32,8	38,3	49,3	54,8	60,2
AQ-181810AL	EFXE-181810AL	9,8	19,7	29,6	34,5	44,4	49,3	54,3
AR-182810AL	EFXE-182810AL	13,0	26,1	39,1	45,7	58,7	65,2	71,8
AR-202311AL	EFXE-202311AL	12,9	25,8	38,7	45,1	58,0	64,5	71,0
AR-202318AL	EFXE-202318AL	17,7	35,5	53,3	62,2	80,0	88,9	97,8
AR-232811AL	EFXE-232811AL	15,8	31,6	47,5	55,4	71,3	79,2	87,1
AR-233312AL	EFXE-233312AL	18,5	37,0	55,6	64,8	83,4	92,7	101,9
AR-233318AL	EFXE-233318AL	23,7	47,5	71,3	83,2	107,0	118,9	130,8

Enclosure types (aluminium)		Maximum power dissipation (W) – Tamb. up to **55**°C						
		INTERNAL TEMP.65°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
AQ-080806AL	EFXE-080806AL	2,6	3,9	6,5	7,8	10,4	11,7	13,0
AR-081306AL	EFXE-081306AL	3,5	5,3	8,8	10,6	14,1	15,9	17,7
AR-081806AL	EFXE-081806AL	4,4	6,6	11,1	13,3	17,8	20,0	22,2
AR-081808AL	EFXE-081808AL	5,5	8,2	13,8	16,5	22,1	24,8	27,6
AR-082505AL	EFXE-082505AL	5,3	8,0	13,4	16,1	21,4	24,1	26,8
AR-082508AL	EFXE-082508AL	7,1	10,7	17,8	21,4	28,5	32,1	35,7
AQ-101008AL	EFXE-101008AL	4,3	6,5	10,8	13,0	17,4	19,6	21,7
AR-101508AL	EFXE-101508AL	5,5	8,3	13,8	16,6	22,2	24,9	27,7
AR-101608AL	EFXE-101608AL	5,7	8,6	14,4	17,3	23,1	26,0	28,9
AR-102008AL	EFXE-102008AL	6,7	10,0	16,7	20,1	26,8	30,2	33,5
AQ-121208AL	EFXE-121208AL	5,4	8,1	13,5	16,2	21,6	24,3	27,0
AR-122209AL	EFXE-122209AL	8,4	12,6	21,0	25,3	33,7	37,9	42,1
AQ-141409AL	EFXE-141409AL	6,8	10,3	17,2	20,6	27,5	31,0	34,4
AR-142009AL	EFXE-142009AL	8,5	12,8	21,4	25,7	34,2	38,5	42,8
AQ-161609AL	EFXE-161609AL	8,6	12,9	21,5	25,8	34,4	38,7	43,0
AR-162410AL	EFXE-162410AL	11,0	16,5	27,6	33,1	44,2	49,7	55,3
AR-162609AL	EFXE-162609AL	10,9	16,4	27,4	32,8	43,8	49,3	54,8
AQ-181810AL	EFXE-181810AL	9,8	14,8	24,6	29,6	39,5	44,4	49,3
AR-182810AL	EFXE-182810AL	13,0	19,5	32,6	39,1	52,2	58,7	65,2
AR-202311AL	EFXE-202311AL	12,9	19,3	32,2	38,7	51,6	58,0	64,5
AR-202318AL	EFXE-202318AL	17,7	26,6	44,4	53,3	71,1	80,0	88,9
AR-232811AL	EFXE-232811AL	15,8	23,7	39,6	47,5	63,3	71,3	79,2
AR-233312AL	EFXE-233312AL	18,5	27,8	46,3	55,6	74,1	83,4	92,7
AR-233318AL	EFXE-233318AL	23,7	35,6	59,4	71,3	95,1	107,0	118,9

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Enclosure types (aluminium)		Maximum power dissipation (W) – Tamb. up to **60**°C					
		INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
AQ-080806AL	EFXE-080806AL	2,6	5,2	6,5	9,1	10,4	11,7
AR-081306AL	EFXE-081306AL	3,5	7,0	8,8	12,3	14,1	15,9
AR-081806AL	EFXE-081806AL	4,4	8,9	11,1	15,5	17,8	20,0
AR-081808AL	EFXE-081808AL	5,5	11,0	13,8	19,3	22,1	24,8
AR-082505AL	EFXE-082505AL	5,3	10,7	13,4	18,7	21,4	24,1
AR-082508AL	EFXE-082508AL	7,1	14,2	17,8	24,9	28,5	32,1
AQ-101008AL	EFXE-101008AL	4,3	8,7	10,8	15,2	17,4	19,6
AR-101508AL	EFXE-101508AL	5,5	11,1	13,8	19,4	22,2	24,9
AR-101608AL	EFXE-101608AL	5,7	11,5	14,4	20,2	23,1	26,0
AR-102008AL	EFXE-102008AL	6,7	13,4	16,7	23,5	26,8	30,2
AQ-121208AL	EFXE-121208AL	5,4	10,8	13,5	18,9	21,6	24,3
AR-122209AL	EFXE-122209AL	8,4	16,8	21,0	29,5	33,7	37,9
AQ-141409AL	EFXE-141409AL	6,8	13,7	17,2	24,1	27,5	31,0
AR-142009AL	EFXE-142009AL	8,5	17,1	21,4	30,0	34,2	38,5
AQ-161609AL	EFXE-161609AL	8,6	17,2	21,5	30,1	34,4	38,7
AR-162410AL	EFXE-162410AL	11,0	22,1	27,6	38,7	44,2	49,7
AR-162609AL	EFXE-162609AL	10,9	21,9	27,4	38,3	43,8	49,3
AQ-181810AL	EFXE-181810AL	9,8	19,7	24,6	34,5	39,5	44,4
AR-182810AL	EFXE-182810AL	13,0	26,1	32,6	45,7	52,2	58,7
AR-202311AL	EFXE-202311AL	12,9	25,8	32,2	45,1	51,6	58,0
AR-202318AL	EFXE-202318AL	17,7	35,5	44,4	62,2	71,1	80,0
AR-232811AL	EFXE-232811AL	15,8	31,6	39,6	55,4	63,3	71,3
AR-233312AL	EFXE-233312AL	18,5	37,0	46,3	64,8	74,1	83,4
AR-233318AL	EFXE-233318AL	23,7	47,5	59,4	83,2	95,1	107,0

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Enclosure types (aluminium)		Maximum power dissipation (W) – Tamb. up to **95**°C	
		INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
AQ-080806AL	EFXE-080806AL	1,3	2,6
AR-081306AL	EFXE-081306AL	1,7	3,5
AR-081806AL	EFXE-081806AL	2,2	4,4
AR-081808AL	EFXE-081808AL	2,7	5,5
AR-082505AL	EFXE-082505AL	2,6	5,3
AR-082508AL	EFXE-082508AL	3,5	7,1
AQ-101008AL	EFXE-101008AL	2,1	4,3
AR-101508AL	EFXE-101508AL	2,7	5,5
AR-101608AL	EFXE-101608AL	2,8	5,7
AR-102008AL	EFXE-102008AL	3,3	6,7
AQ-121208AL	EFXE-121208AL	2,7	5,4
AR-122209AL	EFXE-122209AL	4,2	8,4
AQ-141409AL	EFXE-141409AL	3,4	6,8
AR-142009AL	EFXE-142009AL	4,2	8,5
AQ-161609AL	EFXE-161609AL	4,3	8,6
AR-162410AL	EFXE-162410AL	5,5	11,0
AR-162609AL	EFXE-162609AL	5,4	10,9
AQ-181810AL	EFXE-181810AL	4,9	9,8
AR-182810AL	EFXE-182810AL	6,5	13,0
AR-202311AL	EFXE-202311AL	6,4	12,9
AR-202318AL	EFXE-202318AL	8,8	17,7
AR-232811AL	EFXE-232811AL	7,9	15,8
AR-233312AL	EFXE-233312AL	9,2	18,5
AR-233318AL	EFXE-233318AL	11,8	23,7

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Power dissipation – Stainless steel enclosures SB series

Enclosure types (stainless steel)		Maximum power dissipation (W) – Tamb. up to **40**°C						
		INTERNAL TEMP.60°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
SB-101210	EFXE-101210SB	5,5	8,3	11,1	12,5	15,3	16,7	18,1
SB-151510	EFXE-151510SB	8,0	12,0	16,0	18,0	22,0	24,0	26,1
SB-142013	EFXE-142013SB	10,4	15,7	20,9	23,5	28,8	31,4	34,0
SB-202010	EFXE-202010SB	10,7	16,1	21,4	24,1	29,5	32,2	34,8
SB-202016	EFXE-202016SB	13,9	20,8	27,8	31,3	38,3	41,7	45,2
SB-202713	EFXE-202713SB	14,4	21,6	28,9	32,5	39,7	43,3	46,9
SB-272713	EFXE-272713SB	16,7	25,1	33,5	37,7	46,0	50,2	54,4
SB-203016	EFXE-203016SB	17,1	25,7	34,3	38,6	47,2	51,4	55,7
SB-273513	EFXE-273513SB	19,2	28,9	38,5	43,3	53,0	57,8	62,6
SB-282816	EFXE-282816SB	19,3	29,0	38,7	43,6	53,3	58,1	63,0
SB-204016	EFXE-204016SB	20,2	30,3	40,4	45,5	55,6	60,6	65,7
SB-353516	EFXE-353516SB	24,4	36,6	48,8	54,9	67,1	73,2	79,3
SB-282827	EFXE-282827SB	26,2	39,3	52,5	59,0	72,2	78,7	85,3
SB-355016	EFXE-355016SB	29,7	44,5	59,4	66,8	81,7	89,1	96,6
SB-383816	EFXE-383816SB	26,6	39,9	53,2	59,8	73,1	79,8	86,5
SB-384516	EFXE-384516SB	29,1	43,7	58,3	65,6	80,2	87,5	94,8
SB-385716	EFXE-385716SB	33,4	50,1	66,8	75,2	91,9	100,3	108,7
SB-505016	EFXE-505016SB	35,8	53,8	71,7	80,7	98,6	107,6	116,6
SB-383827	EFXE-383827SB	35,1	52,7	70,2	79,0	96,6	105,4	114,2
SB-575716	EFXE-575716SB	41,5	62,3	83,1	93,5	114,3	124,7	135,1
SB-577620	EFXE-577620SB	53,9	80,9	107,9	121,3	148,3	161,8	175,3
SB-575730	EFXE-575730SB	55,8	83,7	111,6	125,6	153,5	167,5	181,4
SB-769520	EFXE-769520SB	72,2	108,3	144,4	162,4	198,5	216,6	234,6
SB-1258040	EFXE-1258040SB	72,2	108,3	144,4	162,4	198,5	216,6	234,6

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Enclosure types (Stainless steel)		Maximum power dissipation (W) – Tamb. up to **50**°C						
		INTERNAL TEMP.60°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
SB-101210	EFXE-101210SB	2,7	5,5	8,3	9,7	12,5	13,9	15,3
SB-151510	EFXE-151510SB	4,0	8,0	12,0	14,0	18,0	20,0	22,0
SB-142013	EFXE-142013SB	5,2	10,4	15,7	18,3	23,5	26,2	28,8
SB-202010	EFXE-202010SB	5,3	10,7	16,1	18,7	24,1	26,8	29,5
SB-202016	EFXE-202016SB	6,9	13,9	20,8	24,3	31,3	34,8	38,3
SB-202713	EFXE-202713SB	7,2	14,4	21,6	25,2	32,5	36,1	39,7
SB-272713	EFXE-272713SB	8,3	16,7	25,1	29,3	37,7	41,8	46,0
SB-203016	EFXE-203016SB	8,5	17,1	25,7	30,0	38,6	42,9	47,2
SB-273513	EFXE-273513SB	9,6	19,2	28,9	33,7	43,3	48,2	53,0
SB-282816	EFXE-282816SB	9,6	19,3	29,0	33,9	43,6	48,4	53,3
SB-204016	EFXE-204016SB	10,1	20,2	30,3	35,4	45,5	50,5	55,6
SB-353516	EFXE-353516SB	12,2	24,4	36,6	42,7	54,9	61,0	67,1
SB-282827	EFXE-282827SB	13,1	26,2	39,3	45,9	59,0	65,6	72,2
SB-355016	EFXE-355016SB	14,8	29,7	44,5	52,0	66,8	74,3	81,7
SB-383816	EFXE-383816SB	13,3	26,6	39,9	46,5	59,8	66,5	73,1
SB-384516	EFXE-384516SB	14,5	29,1	43,7	51,0	65,6	72,9	80,2
SB-385716	EFXE-385716SB	16,7	33,4	50,1	58,5	75,2	83,6	91,9
SB-505016	EFXE-505016SB	17,9	35,8	53,8	62,7	80,7	89,7	98,6
SB-383827	EFXE-383827SB	17,5	35,1	52,7	61,4	79,0	87,8	96,6
SB-575716	EFXE-575716SB	20,7	41,5	62,3	72,7	93,5	103,9	114,3
SB-577620	EFXE-577620SB	26,9	53,9	80,9	94,4	121,3	134,8	148,3
SB-575730	EFXE-575730SB	27,9	55,8	83,7	97,7	125,6	139,5	153,5
SB-769520	EFXE-769520SB	36,1	72,2	108,3	126,3	162,4	180,5	198,5
SB-1258040	EFXE-1258040SB	36,1	72,2	108,3	126,3	162,4	180,5	198,5

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Enclosure types (Stainless steel)		Maximum power dissipation (W) – Tamb. up to **55**°C						
		INTERNAL TEMP.65°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
SB-101210	EFXE-101210SB	2,7	4,1	6,9	8,3	11,1	12,5	13,9
SB-151510	EFXE-151510SB	4,0	6,0	10,0	12,0	16,0	18,0	20,0
SB-142013	EFXE-142013SB	5,2	7,8	13,1	15,7	20,9	23,5	26,2
SB-202010	EFXE-202010SB	5,3	8,0	13,4	16,1	21,4	24,1	26,8
SB-202016	EFXE-202016SB	6,9	10,4	17,4	20,8	27,8	31,3	34,8
SB-202713	EFXE-202713SB	7,2	10,8	18,0	21,6	28,9	32,5	36,1
SB-272713	EFXE-272713SB	8,3	12,5	20,9	25,1	33,5	37,7	41,8
SB-203016	EFXE-203016SB	8,5	12,8	21,4	25,7	34,3	38,6	42,9
SB-273513	EFXE-273513SB	9,6	14,4	24,1	28,9	38,5	43,3	48,2
SB-282816	EFXE-282816SB	9,6	14,5	24,2	29,0	38,7	43,6	48,4
SB-204016	EFXE-204016SB	10,1	15,1	25,2	30,3	40,4	45,5	50,5
SB-353516	EFXE-353516SB	12,2	18,3	30,5	36,6	48,8	54,9	61,0
SB-282827	EFXE-282827SB	13,1	19,6	32,8	39,3	52,5	59,0	65,6
SB-355016	EFXE-355016SB	14,8	22,2	37,1	44,5	59,4	66,8	74,3
SB-383816	EFXE-383816SB	13,3	19,9	33,2	39,9	53,2	59,8	66,5
SB-384516	EFXE-384516SB	14,5	21,8	36,4	43,7	58,3	65,6	72,9
SB-385716	EFXE-385716SB	16,7	25,0	41,8	50,1	66,8	75,2	83,6
SB-505016	EFXE-505016SB	17,9	26,9	44,8	53,8	71,7	80,7	89,7
SB-383827	EFXE-383827SB	17,5	26,3	43,9	52,7	70,2	79,0	87,8
SB-575716	EFXE-575716SB	20,7	31,1	51,9	62,3	83,1	93,5	103,9
SB-577620	EFXE-577620SB	26,9	40,4	67,4	80,9	107,9	121,3	134,8
SB-575730	EFXE-575730SB	27,9	41,8	69,7	83,7	111,6	125,6	139,5
SB-769520	EFXE-769520SB	36,1	54,1	90,2	108,3	144,4	162,4	180,5
SB-1258040	EFXE-1258040SB	36,1	54,1	90,2	108,3	144,4	162,4	180,5

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Enclosure types (Stainless steel)		Maximum power dissipation (W) – Tamb. up to **60**°C					
		INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
SB-101210	EFXE-101210SB	2,7	5,5	6,9	9,7	11,1	12,5
SB-151510	EFXE-151510SB	4,0	8,0	10,0	14,0	16,0	18,0
SB-142013	EFXE-142013SB	5,2	10,4	13,1	18,3	20,9	23,5
SB-202010	EFXE-202010SB	5,3	10,7	13,4	18,7	21,4	24,1
SB-202016	EFXE-202016SB	6,9	13,9	17,4	24,3	27,8	31,3
SB-202713	EFXE-202713SB	7,2	14,4	18,0	25,2	28,9	32,5
SB-272713	EFXE-272713SB	8,3	16,7	20,9	29,3	33,5	37,7
SB-203016	EFXE-203016SB	8,5	17,1	21,4	30,0	34,3	38,6
SB-273513	EFXE-273513SB	9,6	19,2	24,1	33,7	38,5	43,3
SB-282816	EFXE-282816SB	9,6	19,3	24,2	33,9	38,7	43,6
SB-204016	EFXE-204016SB	10,1	20,2	25,2	35,4	40,4	45,5
SB-353516	EFXE-353516SB	12,2	24,4	30,5	42,7	48,8	54,9
SB-282827	EFXE-282827SB	13,1	26,2	32,8	45,9	52,5	59,0
SB-355016	EFXE-355016SB	14,8	29,7	37,1	52,0	59,4	66,8
SB-383816	EFXE-383816SB	13,3	26,6	33,2	46,5	53,2	59,8
SB-384516	EFXE-384516SB	14,5	29,1	36,4	51,0	58,3	65,6
SB-385716	EFXE-385716SB	16,7	33,4	41,8	58,5	66,8	75,2
SB-505016	EFXE-505016SB	17,9	35,8	44,8	62,7	71,7	80,7
SB-383827	EFXE-383827SB	17,5	35,1	43,9	61,4	70,2	79,0
SB-575716	EFXE-575716SB	20,7	41,5	51,9	72,7	83,1	93,5
SB-577620	EFXE-577620SB	26,9	53,9	67,4	94,4	107,9	121,3
SB-575730	EFXE-575730SB	27,9	55,8	69,7	97,7	111,6	125,6
SB-769520	EFXE-769520SB	36,1	72,2	90,2	126,3	144,4	162,4
SB-1258040	EFXE-1258040SB	36,1	72,2	90,2	126,3	144,4	162,4

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Enclosure types (Stainless steel)		Maximum power dissipation (W) – Tamb. up to **95**°C	
		INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
SB-101210	EFXE-101210SB	1,3	2,7
SB-151510	EFXE-151510SB	2,0	4,0
SB-142013	EFXE-142013SB	2,6	5,2
SB-202010	EFXE-202010SB	2,6	5,3
SB-202016	EFXE-202016SB	3,4	6,9
SB-202713	EFXE-202713SB	3,6	7,2
SB-272713	EFXE-272713SB	4,1	8,3
SB-203016	EFXE-203016SB	4,2	8,5
SB-273513	EFXE-273513SB	4,8	9,6
SB-282816	EFXE-282816SB	4,8	9,6
SB-204016	EFXE-204016SB	5,0	10,1
SB-353516	EFXE-353516SB	6,1	12,2
SB-282827	EFXE-282827SB	6,5	13,1
SB-355016	EFXE-355016SB	7,4	14,8
SB-383816	EFXE-383816SB	6,6	13,3
SB-384516	EFXE-384516SB	7,2	14,5
SB-385716	EFXE-385716SB	8,3	16,7
SB-505016	EFXE-505016SB	8,9	17,9
SB-383827	EFXE-383827SB	8,7	17,5
SB-575716	EFXE-575716SB	10,3	20,7
SB-577620	EFXE-577620SB	13,4	26,9
SB-575730	EFXE-575730SB	13,9	27,9
SB-769520	EFXE-769520SB	18,0	36,1
SB-1258040	EFXE-1258040SB	18,0	36,1

Power dissipation – Stainless steel enclosures ST series

Enclosure types (Stainless steel)		Maximum power dissipation (W) – Tamb. up to **40**°C						
		INTERNAL TEMP.60°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
ST-101210	EFXE-101210ST	5,5	8,3	11,1	12,5	15,3	16,7	18,1
ST-151510	EFXE-151510ST	8,0	12,0	16,0	18,0	22,0	24,0	26,1
ST-142013	EFXE-142013ST	10,4	15,7	20,9	23,5	28,8	31,4	34,0
ST-202010	EFXE-202010ST	10,7	16,1	21,4	24,1	29,5	32,2	34,8
ST-202016	EFXE-202016ST	13,9	20,8	27,8	31,3	38,3	41,7	45,2
ST-202713	EFXE-202713ST	14,4	21,6	28,9	32,5	39,7	43,3	46,9
ST-272713	EFXE-272713ST	16,7	25,1	33,5	37,7	46,0	50,2	54,4
ST-203016	EFXE-203016ST	17,1	25,7	34,3	38,6	47,2	51,4	55,7
ST-273513	EFXE-273513ST	19,2	28,9	38,5	43,3	53,0	57,8	62,6
ST-282816	EFXE-282816ST	19,3	29,0	38,7	43,6	53,3	58,1	63,0
ST-204016	EFXE-204016ST	20,2	30,3	40,4	45,5	55,6	60,6	65,7
ST-353516	EFXE-353516ST	24,4	36,6	48,8	54,9	67,1	73,2	79,3
ST-282827	EFXE-282827ST	26,2	39,3	52,5	59,0	72,2	78,7	85,3
ST-355016	EFXE-355016ST	29,7	44,5	59,4	66,8	81,7	89,1	96,6
ST-383816	EFXE-383816ST	26,6	39,9	53,2	59,8	73,1	79,8	86,5
ST-384516	EFXE-384516ST	29,1	43,7	58,3	65,6	80,2	87,5	94,8
ST-385716	EFXE-385716ST	33,4	50,1	66,8	75,2	91,9	100,3	108,7
ST-505016	EFXE-505016ST	35,8	53,8	71,7	80,7	98,6	107,6	116,6
ST-383827	EFXE-383827ST	35,1	52,7	70,2	79,0	96,6	105,4	114,2
ST-575716	EFXE-575716ST	41,5	62,3	83,1	93,5	114,3	124,7	135,1
ST-577620	EFXE-577620ST	53,9	80,9	107,9	121,3	148,3	161,8	175,3
ST-575730	EFXE-575730ST	55,8	83,7	111,6	125,6	153,5	167,5	181,4
ST-769520	EFXE-769520ST	72,2	108,3	144,4	162,4	198,5	216,6	234,6
ST-1258040	EFXE-1258040ST	72,2	108,3	144,4	162,4	198,5	216,6	234,6

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Enclosure types (Stainless steel)		Maximum power dissipation (W) – Tamb. up to **50**°C						
		INTERNAL TEMP.60°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
ST-101210	EFXE-101210ST	2,7	5,5	8,3	9,7	12,5	13,9	15,3
ST-151510	EFXE-151510ST	4,0	8,0	12,0	14,0	18,0	20,0	22,0
ST-142013	EFXE-142013ST	5,2	10,4	15,7	18,3	23,5	26,2	28,8
ST-202010	EFXE-202010ST	5,3	10,7	16,1	18,7	24,1	26,8	29,5
ST-202016	EFXE-202016ST	6,9	13,9	20,8	24,3	31,3	34,8	38,3
ST-202713	EFXE-202713ST	7,2	14,4	21,6	25,2	32,5	36,1	39,7
ST-272713	EFXE-272713ST	8,3	16,7	25,1	29,3	37,7	41,8	46,0
ST-203016	EFXE-203016ST	8,5	17,1	25,7	30,0	38,6	42,9	47,2
ST-273513	EFXE-273513ST	9,6	19,2	28,9	33,7	43,3	48,2	53,0
ST-282816	EFXE-282816ST	9,6	19,3	29,0	33,9	43,6	48,4	53,3
ST-204016	EFXE-204016ST	10,1	20,2	30,3	35,4	45,5	50,5	55,6
ST-353516	EFXE-353516ST	12,2	24,4	36,6	42,7	54,9	61,0	67,1
ST-282827	EFXE-282827ST	13,1	26,2	39,3	45,9	59,0	65,6	72,2
ST-355016	EFXE-355016ST	14,8	29,7	44,5	52,0	66,8	74,3	81,7
ST-383816	EFXE-383816ST	13,3	26,6	39,9	46,5	59,8	66,5	73,1
ST-384516	EFXE-384516ST	14,5	29,1	43,7	51,0	65,6	72,9	80,2
ST-385716	EFXE-385716ST	16,7	33,4	50,1	58,5	75,2	83,6	91,9
ST-505016	EFXE-505016ST	17,9	35,8	53,8	62,7	80,7	89,7	98,6
ST-383827	EFXE-383827ST	17,5	35,1	52,7	61,4	79,0	87,8	96,6
ST-575716	EFXE-575716ST	20,7	41,5	62,3	72,7	93,5	103,9	114,3
ST-577620	EFXE-577620ST	26,9	53,9	80,9	94,4	121,3	134,8	148,3
ST-575730	EFXE-575730ST	27,9	55,8	83,7	97,7	125,6	139,5	153,5
ST-769520	EFXE-769520ST	36,1	72,2	108,3	126,3	162,4	180,5	198,5
ST-1258040	EFXE-1258040ST	36,1	72,2	108,3	126,3	162,4	180,5	198,5

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Enclosure types (Stainless steel)		Maximum power dissipation (W) – Tamb. up to **55**°C						
		INTERNAL TEMP.65°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
ST-101210	EFXE-101210ST	2,7	4,1	6,9	8,3	11,1	12,5	13,9
ST-151510	EFXE-151510ST	4,0	6,0	10,0	12,0	16,0	18,0	20,0
ST-142013	EFXE-142013ST	5,2	7,8	13,1	15,7	20,9	23,5	26,2
ST-202010	EFXE-202010ST	5,3	8,0	13,4	16,1	21,4	24,1	26,8
ST-202016	EFXE-202016ST	6,9	10,4	17,4	20,8	27,8	31,3	34,8
ST-202713	EFXE-202713ST	7,2	10,8	18,0	21,6	28,9	32,5	36,1
ST-272713	EFXE-272713ST	8,3	12,5	20,9	25,1	33,5	37,7	41,8
ST-203016	EFXE-203016ST	8,5	12,8	21,4	25,7	34,3	38,6	42,9
ST-273513	EFXE-273513ST	9,6	14,4	24,1	28,9	38,5	43,3	48,2
ST-282816	EFXE-282816ST	9,6	14,5	24,2	29,0	38,7	43,6	48,4
ST-204016	EFXE-204016ST	10,1	15,1	25,2	30,3	40,4	45,5	50,5
ST-353516	EFXE-353516ST	12,2	18,3	30,5	36,6	48,8	54,9	61,0
ST-282827	EFXE-282827ST	13,1	19,6	32,8	39,3	52,5	59,0	65,6
ST-355016	EFXE-355016ST	14,8	22,2	37,1	44,5	59,4	66,8	74,3
ST-383816	EFXE-383816ST	13,3	19,9	33,2	39,9	53,2	59,8	66,5
ST-384516	EFXE-384516ST	14,5	21,8	36,4	43,7	58,3	65,6	72,9
ST-385716	EFXE-385716ST	16,7	25,0	41,8	50,1	66,8	75,2	83,6
ST-505016	EFXE-505016ST	17,9	26,9	44,8	53,8	71,7	80,7	89,7
ST-383827	EFXE-383827ST	17,5	26,3	43,9	52,7	70,2	79,0	87,8
ST-575716	EFXE-575716ST	20,7	31,1	51,9	62,3	83,1	93,5	103,9
ST-577620	EFXE-577620ST	26,9	40,4	67,4	80,9	107,9	121,3	134,8
ST-575730	EFXE-575730ST	27,9	41,8	69,7	83,7	111,6	125,6	139,5
ST-769520	EFXE-769520ST	36,1	54,1	90,2	108,3	144,4	162,4	180,5
ST-1258040	EFXE-1258040ST	36,1	54,1	90,2	108,3	144,4	162,4	180,5

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Enclosure types (Stainless steel)		Maximum power dissipation (W) – Tamb. up to **60**°C					
		INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
ST-101210	EFXE-101210ST	2,7	5,5	6,9	9,7	11,1	12,5
ST-151510	EFXE-151510ST	4,0	8,0	10,0	14,0	16,0	18,0
ST-142013	EFXE-142013ST	5,2	10,4	13,1	18,3	20,9	23,5
ST-202010	EFXE-202010ST	5,3	10,7	13,4	18,7	21,4	24,1
ST-202016	EFXE-202016ST	6,9	13,9	17,4	24,3	27,8	31,3
ST-202713	EFXE-202713ST	7,2	14,4	18,0	25,2	28,9	32,5
ST-272713	EFXE-272713ST	8,3	16,7	20,9	29,3	33,5	37,7
ST-203016	EFXE-203016ST	8,5	17,1	21,4	30,0	34,3	38,6
ST-273513	EFXE-273513ST	9,6	19,2	24,1	33,7	38,5	43,3
ST-282816	EFXE-282816ST	9,6	19,3	24,2	33,9	38,7	43,6
ST-204016	EFXE-204016ST	10,1	20,2	25,2	35,4	40,4	45,5
ST-353516	EFXE-353516ST	12,2	24,4	30,5	42,7	48,8	54,9
ST-282827	EFXE-282827ST	13,1	26,2	32,8	45,9	52,5	59,0
ST-355016	EFXE-355016ST	14,8	29,7	37,1	52,0	59,4	66,8
ST-383816	EFXE-383816ST	13,3	26,6	33,2	46,5	53,2	59,8
ST-384516	EFXE-384516ST	14,5	29,1	36,4	51,0	58,3	65,6
ST-385716	EFXE-385716ST	16,7	33,4	41,8	58,5	66,8	75,2
ST-505016	EFXE-505016ST	17,9	35,8	44,8	62,7	71,7	80,7
ST-383827	EFXE-383827ST	17,5	35,1	43,9	61,4	70,2	79,0
ST-575716	EFXE-575716ST	20,7	41,5	51,9	72,7	83,1	93,5
ST-577620	EFXE-577620ST	26,9	53,9	67,4	94,4	107,9	121,3
ST-575730	EFXE-575730ST	27,9	55,8	69,7	97,7	111,6	125,6
ST-769520	EFXE-769520ST	36,1	72,2	90,2	126,3	144,4	162,4
ST-1258040	EFXE-1258040ST	36,1	72,2	90,2	126,3	144,4	162,4

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Enclosure types (Stainless steel)		Maximum power dissipation (W) – Tamb. up to **95**°C	
		INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
ST-101210	EFXE-101210ST	1,3	2,7
ST-151510	EFXE-151510ST	2,0	4,0
ST-142013	EFXE-142013ST	2,6	5,2
ST-202010	EFXE-202010ST	2,6	5,3
ST-202016	EFXE-202016ST	3,4	6,9
ST-202713	EFXE-202713ST	3,6	7,2
ST-272713	EFXE-272713ST	4,1	8,3
ST-203016	EFXE-203016ST	4,2	8,5
ST-273513	EFXE-273513ST	4,8	9,6
ST-282816	EFXE-282816ST	4,8	9,6
ST-204016	EFXE-204016ST	5,0	10,1
ST-353516	EFXE-353516ST	6,1	12,2
ST-282827	EFXE-282827ST	6,5	13,1
ST-355016	EFXE-355016ST	7,4	14,8
ST-383816	EFXE-383816ST	6,6	13,3
ST-384516	EFXE-384516ST	7,2	14,5
ST-385716	EFXE-385716ST	8,3	16,7
ST-505016	EFXE-505016ST	8,9	17,9
ST-383827	EFXE-383827ST	8,7	17,5
ST-575716	EFXE-575716ST	10,3	20,7
ST-577620	EFXE-577620ST	13,4	26,9
ST-575730	EFXE-575730ST	13,9	27,9
ST-769520	EFXE-769520ST	18,0	36,1
ST-1258040	EFXE-1258040ST	18,0	36,1

Maximum Power Dissipation calculation

The values specified in the tables as per clause 2.1.1 may be modified within the maximum admitted Tamb and maximum admitted internal temperature as follows.

$$Pdiss\ (W) = \frac{Tmax - Tamb}{Rth}$$

$Rth = A \times (\text{enclosure surface in } mm^2 \text{ except enclosure bottom})^B$

Legend:
Rth – Thermal resistance [K/W].
Tmax – Maximum allowed temperature inside enclosure.
Tamb – Ambient temperature of enclosure
A and B - coefficients determined for each series o enclosure. Exact values are given in manufacturer's documentation.

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[16] Confidential Report No. FIDI 21 CR 075

[16.1] Routine testing

Junction boxes, local control stations and local control panels fitted with wiring, shall be subject to a routine dielectric strength test according to the clause 7.1 of IEC 60079-7.

[17] Specific Conditions of Use

- Enclosures marked with warning label: "WARNING – POTENTIAL ELECTROSTATIC CHARGING HAZARD – SEE INSTRUCTIONS" must be cleaned only by damp cloth or antistatic products.
- Apparatus equipped with drain / venting valve Technor Italsmea model ECR3:
  - the valve cannot be open when an explosive dust atmosphere is present.
  - The valve can be open when an explosive gas atmosphere is present: when open, the equipment reaches the protection degree IP44.
  - When the valve is left in open position, it should be protected from light exposure.
- On the intrinsic safety terminals, the user must only connect devices with compatible intrinsic safety parameters according to EN 60079-14.

[18] Essential Health and Safety Requirements

Covered by the conformity with harmonized standards listed under item 9.

[19] Drawings and Documents

Title:	Drawing No.:	Rev. level:	Date:
Technical note	TN2111	0	17.11.2021
Instruction for use	TN2111 Annex A	0	08.11.2021
Apparatus list	TN2111 Annex B	0	17.11.2021
Drawings:			
Cable entries, plug, adaptors coupling systems	AC2111, sheet 1	0	10.11.2021
Example of operator arrangements for AQ-AR-EFE	AC2111, sheet 2	0	10.11.2021
Example of operator arrangements for SB-ST-EFEXE	AC2111, sheet 3	0	10.11.2021
Example terminals and earth bus bar	AC2111, sheet 4	0	10.11.2021
Drain / breath device type ECR3	AC2111, sheet 5	0	10.11.2021
Marking label SB..., ST..., AQ..., AR...	AC2111, sheet 6	0	10.11.2021
Marking label SB..., ST..., AQ..., AR...	AC2111, sheet 7	0	10.11.2021

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17065 · HAA
3635

[1] **SUPPLEMENTARY EU – TYPE EXAMINATION CERTIFICATE**

[2] Equipment or Protective Systems Intended for use in Potentially Explosive Atmospheres Directive 2014/34/EU.

[3] Supplementary EU-Type Examination Certificate Number: **FIDI 21 ATEX 0090X/1**

[4] Product: **Junction boxes, local control stations and local control panels**

Type: **AQ-***P / AQ-***AL / AR-***P / AR-***AL**
AQ-*P-HT / AQ-***AL-HT / AR-***P-HT / AR-***AL-HT**
SB-* / ST-***
EFE-* / EFXE-*** AL/ EFXE-***SB / EFXE-***ST**
EFE-*-HT / EFXE-***AL-HT**

[5] Manufacturer: **Technor Italsmea S.p.A.**

[6] Address: **Via Italia 33, 20060 Gessate (MI), Italy**

[7] This supplementary certificate extends EU – Type Examination Certificate to apply to product designed and constructed in accordance with the specification set out in the Schedule of the said certificate but having any variations specified in the Schedule to this certificate and the documents therein referred to.

[8] FIDITAS Ltd., Notified Body number 2829 in accordance with Article 17 of Directive 2014/34/EU of the European Parliament and of the Council, dated 26 February 2014, certifies that this product has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of products intended for use in potentially explosive atmospheres given in Annex II of the Directive.

[9] The examination and test results are recorded in confidential Report No: **FIDI 23 CR 019**

[10] The marking of the product shall include the following:

II 1 G	**Ex ia IIC/IIB T6...T4 Ga**(2) or
II 2(1) G or **II 2(2) G**	**Ex db eb ia/ib mb [**(3)**] IIC/IIB T6...T4 Gb**(1) or
II 2 G	**Ex eb IIC/IIB T6...T4 Gb**(1) or
II 2 D	**Ex tb IIIC T85°C...T135°C Db**

(1) Others type of protection additional to 'eb' depending to the components actually mounted.

(2) In case of enclosures containing 'eb' terminals and/or 'ia Ga' already certified components (with compatible marking) only.

(3) Associated equipment protection depending on the components actually mounted (see lists): e.g. [ia/ib/ia Ga/ia IIIC Da] and/or [ia IIIC Da] or [ia/ib/ia Ga/ia IIIC Da] and/or [ia/ib/ia Ga] [ia IIIC Da]

FIDITAS Ltd.
Certification department
Approved:

Marino Kelava, M.E.Eng.

Our ref.: 23.CRT.071

Date: 19.04.2023

Fiditas d.o.o. ZAGREB

Fiditas Ltd. Slavka Tomerlina 44, 10361 Zagreb-Sesvete, Croatia
Phone: +385 1 5578565; info@fiditas.com ; www.fiditas.com

This certificate may only be reproduced in its entirety, without any change, schedule included

[11] **SCHEDULE**

[12] **SUPPLEMENTARY EU - TYPE EXAMINATION CERTIFICATE No.: FIDI 21 ATEX 0090X /1**

[13] Description of the variation to the Product

New Ex products added:

- Surge voltage protection unit type: PLUGTRAB PT2 or PT4 – PHOENIX CONTACT; II 1G> Ex ia IIC T4...T6 Ga; KEMA 00 ATEX 1099X;
- SITRANS TH230/420, type: 7NG0317, 0310; 0410 TR320/TR420 7NG0327; 7NG0320; TYPE 7NG0420; Siemens AG; II 1G Ex ia IIC T6...T4 Ga; II 2(1)G Ex ib [ia Ga] IIC T6...T4 Gb; DEKRA 17 ATEX 0116X
- Enhanced Model 644 Temperature Transmitter, ROSEMOUNT INCORPORATED, II 1G Ex ia IIC T6...T4 Ga; DEKRA 21ATEX0003X,
- Temperature Transmitter type: 5434D; 5431D; 6431D; 5435D; 5437D; 5437D; 5437B; 6437D, II 1G Ex ia IIC T6...T4 Ga; II 2(1)G Ex ib [ia Ga] IIC T6...T4 Gb; DEKRA 16 ATEX 0047X,
- Controls Units and / or Junction Boxes Type: GUB..., TECHNOR ITALSMEA; II 2G Ex db (*) IIC T(*) Gb; INERIS 22 ATEX 0008X
- Cable Transit Device type: CF 8 Ex, CF 32 Ex, CF 16 Ex, C RS T...Ex, RS..B Ex, SF...Ex, SFX...B Ex, B...B Ex, R...B Ex and RO...B; ROXTEC INTERNATIONAL AB, II 2G Ex e IIC Gb, II 2D Ex tb IIC Db; NEMKO 12 ATEX 1278X
- Cable Transit Device type: HD 16 Ex, HD 24 Ex, HD 32 Ex and HDLC Ex, ROXTEC INTERNATIONAL AB, II 2G Ex eb IIC Gb, II 2D Ex tb IIIC Db, PRESAFE 15 ATEX 6419X
- Control stations and junction boxes type: CP..., TECHNOR ITALSMEA, II 2G Ex db IIC T6 or T5 or T4 Gb or II 2(1)G Ex db [ia Ga] IIC T6 Gb(***) or II 2(2)G Ex db [ib] IIC T6 Gb (***); INERIS 03 ATEX 0009X
- Industrial plug and socket type: DXN1, MARECHAL ELECTRIC, II 2G Ex db eb IIC T5 or T6; II 2D Ex tb IIIC T90°C/T70°C; LCIE 99 ATEX6027X
- Industrial plug and socket type: DXN3, MARECHAL ELECTRIC; II 2G Ex db eb IIC T5 or T6; II 2D Ex tb IIIC T90°C/T70°C; LCIE 05 ATEX 6149X
- Industrial plug and socket type: DXN6, MARECHAL ELECTRIC, II 2G Ex db eb IIC T5 or T6; II 2D Ex tb IIIC T90°C/T70°C; LCIE 05 ATEX 6150X
- Industrial plug and socket type: PXN12C, MARECHAL ELECTRIC, II 2G Ex eb IIC T*; II 2G Ex ia or ib IIC T*; II 2D Ex tb IIIC T* Db; LCIE 07 ATEX 6070X
- Industrial plug and socket type: DXN25C, MARECHAL ELECTRIC; II 2G Ex eb IIC T*; II 2G Ex ia or ib IIC T6; II2D Ex tb IIIC T*; LCIE 09ATEX3050X
- Industrial plug and socket type: DXN37C, MARECHAL ELECTRIC; II 2G Ex eb IIC T*; II 2G Ex ia or ib IIC T6; II2D Ex tb IIIC T*; LCIE 07ATEX6071X
- Industrial plug and socket type: SPeX, MARECHAL ELECTRIC, II 2G Ex eb IIC T*; II2D Ex tb IIIC T* Db; LCIE 07ATEX6073X
- Industrial plug and socket type: DXA1, MARECHAL ELECTRIC, II 2G Ex db eb IIC T* Gb; II 2D Ex tb IIC T*°C Db; LCIE 15ATEX 3033X
- Industrial plug and socket type: PNCX, MARECHAL ELECTRIC, II 2G Ex IIC T6 Gb; II 2D Ex tb IIIC T72°C Db; LCIE 16ATEX3001X
- Terminal type: WDU 240, WEIDMULLER, II 2G Ex eb IIC Gb; KEMA 01 ATEX 2186U.

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[14] Confidential Report No. FIDI 23 CR 019

[14.1] Routine testing

No change to specified in the initial certificate.

[15] Specific Conditions of Use

Addditional to those specified the initial certificate:

- Manufacturer must obey relevant specific condition of use of Ex equipment and/or schedule of limitation of Ex components installed in/on the product and forward to the end user if relevant for the installation and use.

[16] Essential Health and Safety Requirements

Compliance with the Essential Health and Safety Requirements is not affected by this variation.

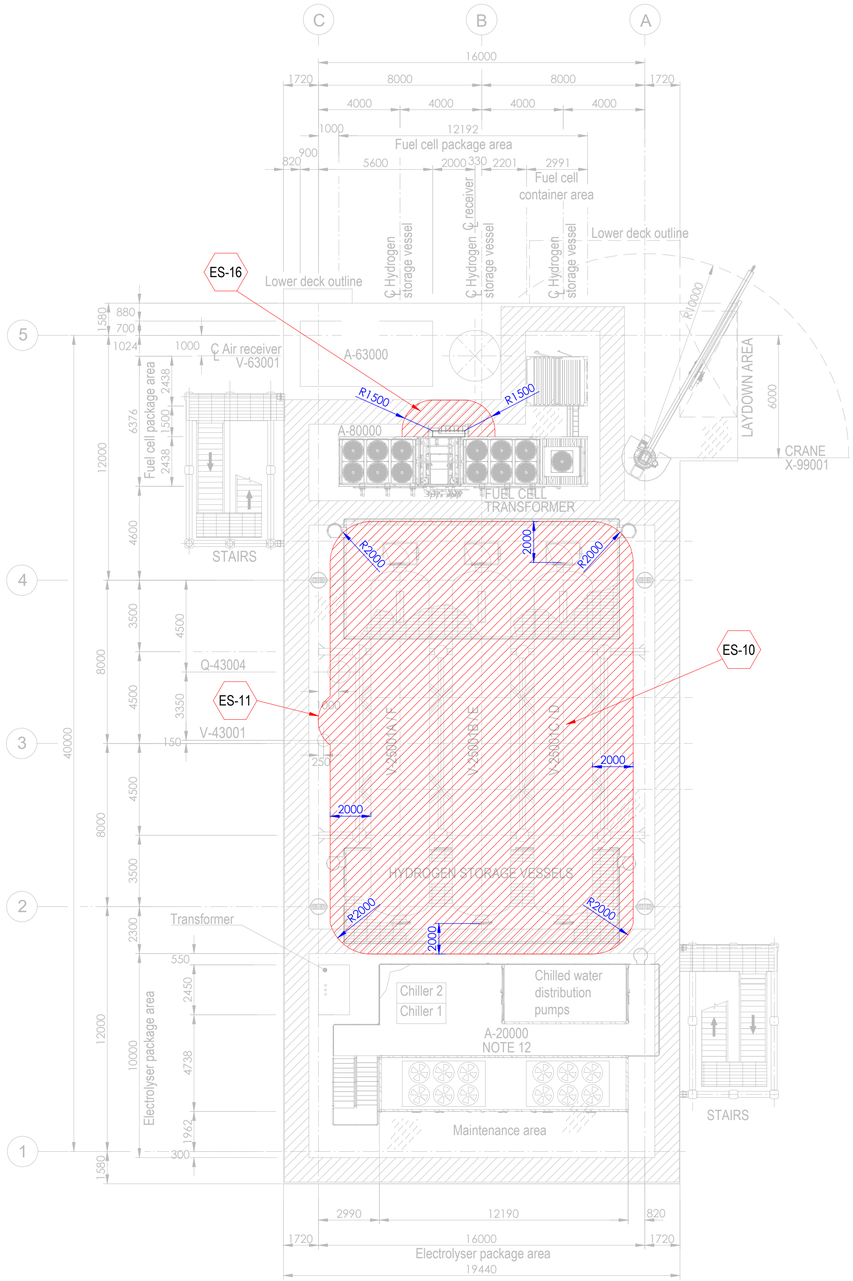
[17] Drawings and Documents

Title:	Drawing No.:	Rev. level:	Date:
Technical note	TN2111	1	20.01.2023
Instruction for use	TN2111 Annex A	1	20.01.2023
Apparatus list	TN2111 Annex B	1	20.01.2023

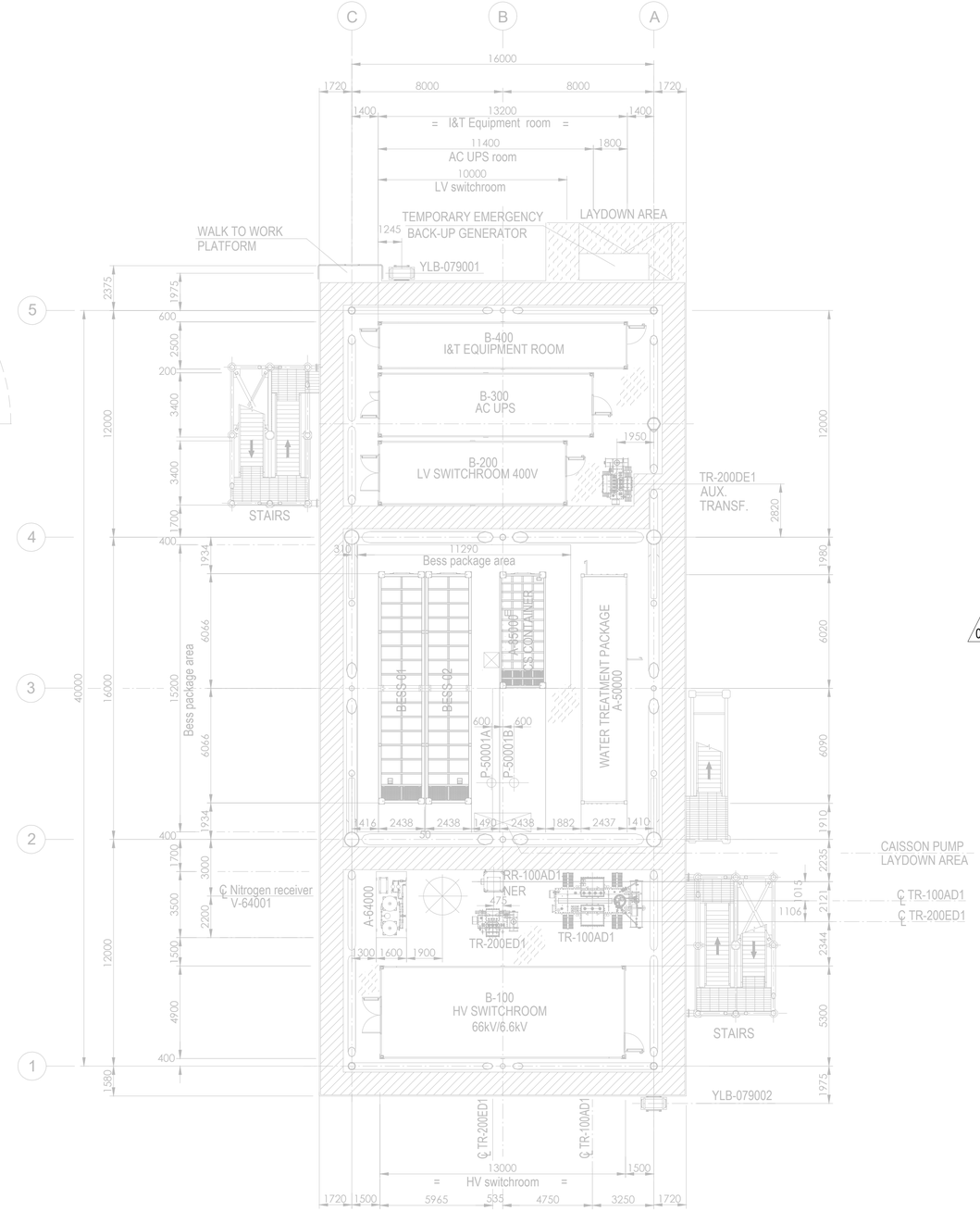
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DRAWING NO. 123A90-DDL-SAF-DL-30022

REV. 02



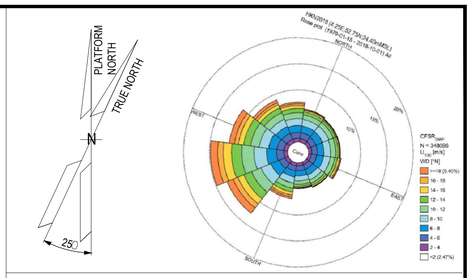
PLAN ON UPPER DECK
EL+30.310 T.O.S.



PLAN ON LOWER DECK
EL+23.310 T.O.S.

Tag No.	Equipment Tag	Description	Material	Ventilation Type
01	P-50001 A/B	SEA WATER LIFT PUMPS	SEA WATER	NATURAL (OPEN AREA)
02	Q-43004	HYDROGEN VENT	HYDROGEN	NATURAL (OPEN AREA)
03	V-43001	HYDROGEN VENT KO DRUM	HYDROGEN	NATURAL (OPEN AREA)
04	V-25001 (A/B/C/D/E/F)	HYDROGEN STORAGE VESSELS	HYDROGEN	NATURAL (OPEN AREA)
05	V-63001	AIR RECEIVER	INSTRUMENT AIR	NATURAL (OPEN AREA)
06	A-20000	ELECTROLYSER PACKAGE		
07	A-63000	INSTRUMENT AIR PACKAGE		
08	A-80000	FUEL CELL PACKAGE		
09	A-85000	BESS PACKAGE		
10	YLB-079001/2	LIFE RAFTS		
11	A-50000	WATER TREATMENT PACKAGE		

Tag No.	Equipment Tag	Description	Material	Ventilation Type
12	A-64000	NITROGEN SYSTEM		
13	B-100	HV SWITCHROOM 66kV/6.6kV		
14	B-200	LV SWITCHROOM 400V		
15	B-300	AC UPS EQUIPMENT ROOM		
16	B-400	I&T EQUIPMENT ROOM		
17	TR-100AD1	TRANSFORMER MAIN 66kV/6.6kV		
18	RR-100AD1-NER	NEUTRAL EARTHING RESISTOR		
19	TR-200DE1	TRANSFORMER AUX. 6.6kV/0.4kV		
20	TR-200ED1	SOLAR TRANSFORMER PV FARM EQUIPMENT		
21	X-99001	CRANE		
22	V-64001	NITROGEN RECEIVER		



NOTES

1. ALL DIMENSIONS IN mm U.N.O.
2. ALL ELEVATIONS IN METERS.
3. PLATFORM NORTH DIRECTION IS N 25°W.
4. VENT TOP SHALL BE REACHEABLE FOR MAINTENANCE PURPOSE.
5. THE BESS IS CONSIDERED SAFE AREA EXCEPT EXTRACTORES FROM BATTERIES , CURRENTLY NOT SHOWN IN DRAWINGS, SINCE INFORMATION FROM VENDOR IS NOT YET AVAILABLE.[ES17].
6. THE LOCATION OF EMISSION SOURCES ON THE LAYOUT ARE ONLY INDICATIVE. EMISSION SOURCES CONSIDERED ARE PRESENT WITHIN THE EXTENSION OF HAZARDOUS CLASSIFIED AREAS SHOWN ON THE LAYOUT. THIS IS BECAUSE VALVES AND FLANGES,WHICH ARE CONSIDERED POTENTIAL SOURCES OF RELEASE POINTS FOR FLAMMABLE GAS ARE NOT SHOWN ON CURRENT LAYOUT PROVIDED. THE SAME APPLIES TO THE EMISSION SOURCES FOR CPI'S ITEM.
7. IDENTIFIED EMISSION SOURCES DETAIL.

02
8. FOR DETAILS RELATED TO ELECTROLYSER PACKAGE INTERNAL ENCLOSURES REFER TO DRAWING 224J10-DDL-PP-DA-00001 REV 0.
9. FOR DETAILS RELATED TO FUELL CELL PACKAGE INTERNAL ENCLOSURES REFER TO DRAWING K559-2254-CWIWP4202202-B01-001 REV 009".
10. THE N.6 HYDROGEN STORAGE VESSELS ARE NOT CLASSIFIED INTERNALLY SINCE THEY ARE DESIGNED TO CONTAIN HYDROGEN OR NITROGEN FOR THE ENTIRE DURATION OF THE 2 YEARS OF OPERATION.

EMISSION SOURCE No.	IDENTIFIED AREAS
ES10	HYDROGEN STORAGE VESSLES
ES11	HYDROGEN VENT KO DRUM
ES16	FUEL CELL

LEGEND

ZONE 0 — ZONE 1

ZONE 2 — ES EMISSION SOURCES

123A90-DDL-PP-DS-70071	PLOT PLAN - BELOW LOWER DECK
123A90-DDL-PP-DS-70072	PLOT PLAN - ELEVATION LOOKING NORTH & EAST

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	15/01/25	MMA	CCA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	27/08/24	MMA	CCA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	08/02/24	MMA	CCA	DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND

ROSETTI MARINO

TITLE :
BASE LOAD POWER HUB (BLPH)
HAZARDOUS AREA CLASSIFICATION
LOWER & UPPER DECK

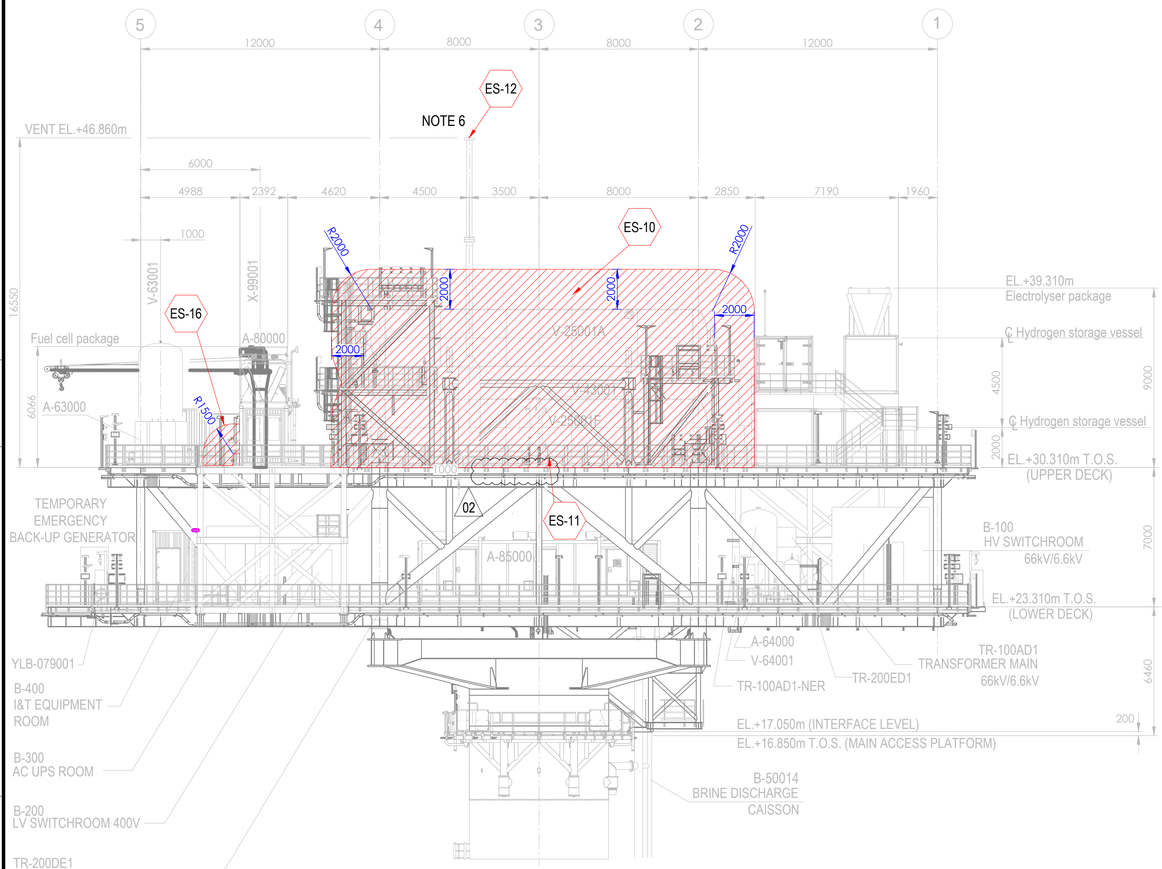
CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK			SCALE 1:150
DRAWN M. MAGNI	CHECKED C. CARACCIOLO	APPROVED D. LO STERZO	DATE 03/07/24

	DRAWING NO.	SHEET	REV.
A1	123A90-DDL-SAF-DL-30022	001	02

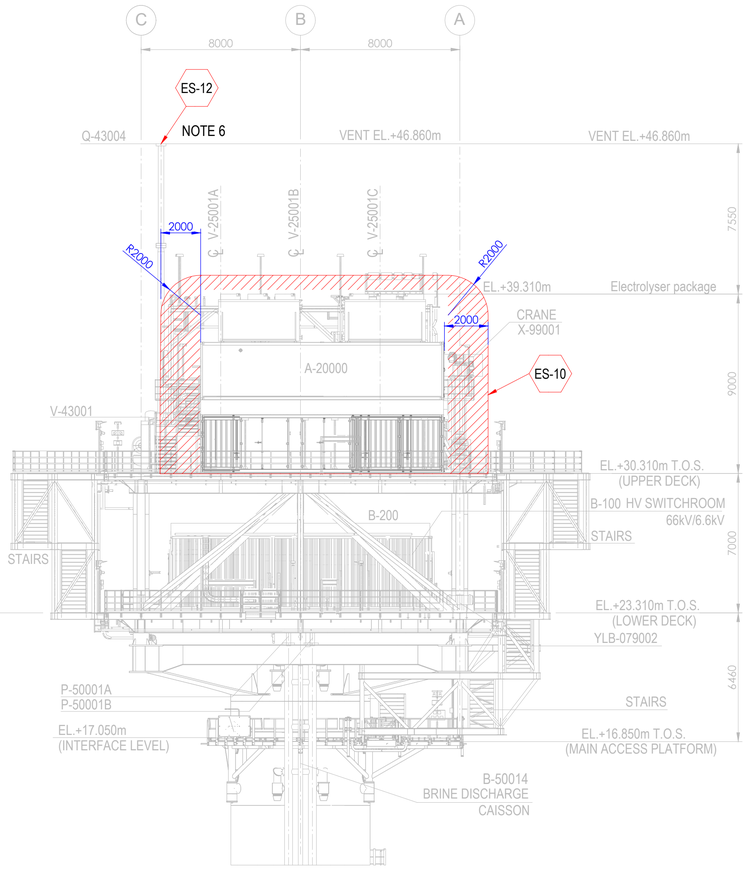
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DRAWING NO. 123A90-DDL-SAF-DL-30024

REV. 02

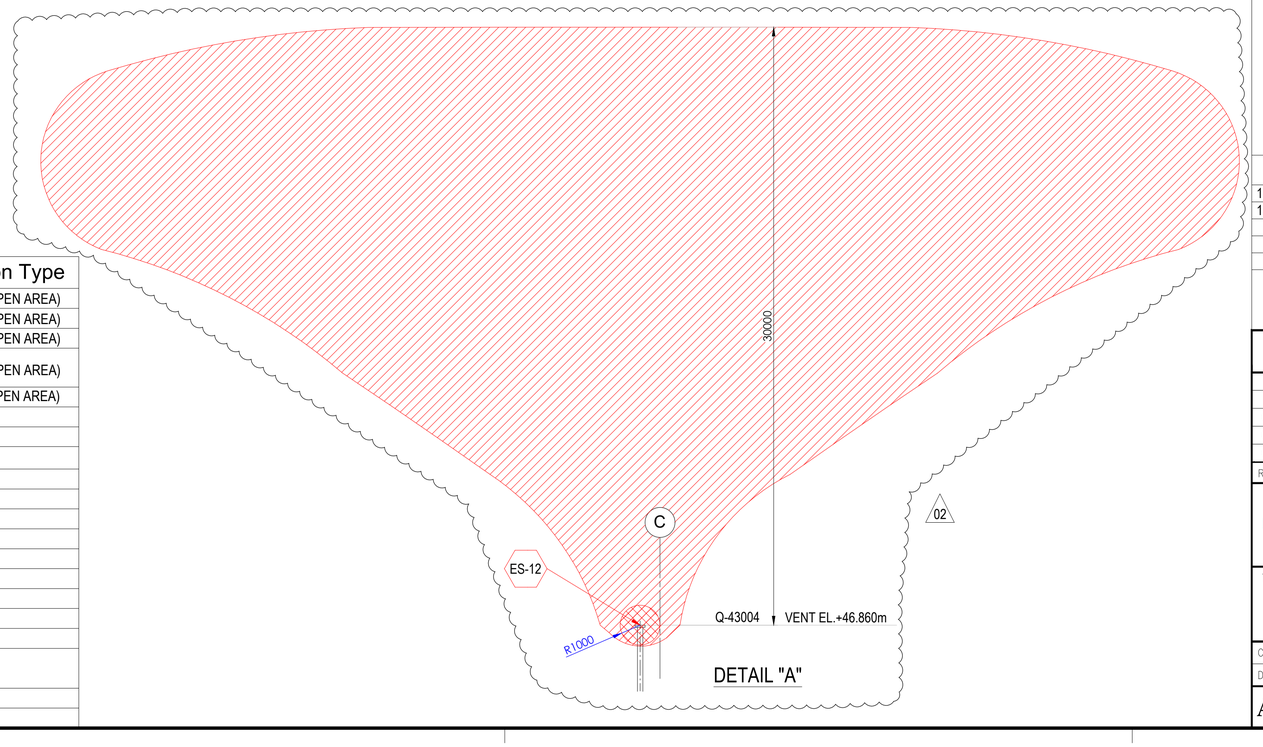


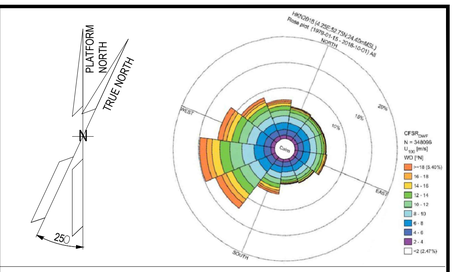
ELEVATION LOOKING EAST



ELEVATION LOOKING NORTH

Tag No.	Equipment Tag	Description	Material	Ventilation Type
01	P-50001 A/B	SEA WATER LIFT PUMPS	SEA WATER	NATURAL (OPEN AREA)
02	Q-43004	HYDROGEN VENT	HYDROGEN	NATURAL (OPEN AREA)
03	V-43001	HYDROGEN VENT KO DRUM	HYDROGEN	NATURAL (OPEN AREA)
04	V-25001 (A/B/C/D/E/F)	HYDROGEN STORAGE VESSELS	HYDROGEN	NATURAL (OPEN AREA)
05	V-63001	INSTRUMENT AIR RECEIVER	INSTRUMENT AIR	NATURAL (OPEN AREA)
06	A-20000	ELECTROLYSER PACKAGE		
07	A-63000	INSTRUMENT AIR PACKAGE		
08	A-80000	FUEL CELL PACKAGE		
09	A-85000	BESS PACKAGE		
10	YLB-079001/2	LIFE RAFTS		
11	B-100	HV SWITCHROOM 66kV/6.6kV		
12	B-200	LV SWITCHROOM 400V		
13	B-300	AC UPS EQUIPMENT ROOM		
14	B-400	I&T EQUIPMENT ROOM		
15	TR-100AD1	TRANSFORMER MAIN 66kV/6.6kV		
16	TR-100AD1-NER	NEUTRAL EARTHING RESISTOR		
17	TR-200DE1	TRANSFORMER AUX. 6.6kV/0.4kV		
18	TR-200ED1	SOLAR TRANSFORMER PV FARM EQUIPMENT		
19	X-99001	CRANE		
20	V-64001	NITROGEN RECEIVER		





NOTES

1. ALL DIMENSIONS IN mm U.N.O
2. ALL ELEVATIONS IN METERS.
3. PLATFORM NORTH DIRECTION IS N 25°W.
4. VENT TOP SHALL BE REACHEABLE FOR MAINTENANCE PURPOSE.
5. THE BESS IS CONSIDERED SAFE AREA EXCEPT EXTRACTORES FROM BATTERIES , CURRENTLY NOT SHOWN IN DRAWINGS, SINCE INFORMATION FROM VENDOR IS NOT YET AVAILABLE.[ES17]
6. FOR ES12 PLUME, PLEASE REFER TO THE DETAIL "A" BELOW. (02)
7. THE LOCATION OF EMISSION SOURCES ON THE LAYOUT ARE ONLY INDICATIVE. EMISSION SOURCES CONSIDERED ARE PRESENT WITHIN THE EXTENSION OF HAZARDOUS CLASSIFIED AREAS SHOWN ON THE LAYOUT. THIS IS BECAUSE VALVES AND FLANGES,WHICH ARE CONSIDERED POTENTIAL SOURCES OF RELEASE POINTS FOR FLAMMABLE GAS ARE NOT SHOWN ON CURRENT LAYOUT PROVIDED. THE SAME APPLIES TO THE EMISSION SOURCES FOR CPI'S ITEM.
8. IDENTIFIED EMISSION SOURCES DETAIL

EMISSION SOURCE No.	IDENTIFIED AREAS
ES10	HYDROGEN STORAGE VESSLES
ES11	HYDROGEN VENT KO DRUM
ES12	HYDROGEN VENT
ES16	FUEL CELL

LEGEND

ZONE 0 — ZONE 1

ZONE 2 — ES EMISSION SOURCES

REFERENCE DOCUMENTS

123A90-DDL-PP-DS-70070	PLOT PLAN - LOWER & UPPER DECK
123A90-DDL-PP-DS-70071	PLOT PLAN - BELOW LOWER DECK

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	15/01/24	MMA	CCA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	27/08/24	MMA	CCA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	08/02/24	MMA	CCA	DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND

ROSETTI MARINO

TITLE :
BASE LOAD POWER HUB (BLPH)
HAZARDOUS AREA CLASSIFICATION
ELEVATION LOOKING NORTH & EAST

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK			SCALE 1:150
DRAWN M. MAGNI	CHECKED C. CARACCIOLO	APPROVED D. LO STERZO	DATE 03/07/24

A1 | DRAWING NO. 123A90-DDL-SAF-DL-30024 | SHEET 001 | REV. 02

File Name : 123A90-DDL-SAF-DL-30024 Rev.02

ITEM	Tag	EJB-200N1-02-L1-03	: JB - NORMAL LIGHTING			Dwg	123A90-DDL-EL-DL-20118
	S/Sys	83-40	: Normal Lighting Upper Deck			Module	UD
TASK	code	C10001653		Location	Onshore Activities	User	Rosetti Marino Quality Control
FORM	Process	MC	Activity CCK	Discipline	ATEX	Form	CJX01
							Hazardous Area Equipment Detailed Inspection

Schedule Ref. #				**Area Code**					
Area Class Drawing	123A90-DDL-SAF-DL-30022			**Serial No.**		24P00297990087			
Manufacturer	TECHNOR ITALSMEA			**Model**		AQ-252612P			
Cert No.	FIDI 21 ATEX 0090X			**Equipment Ambient Temp.**		-20 to + 40 °C			
Area Classification	Hazardous	**Zone**	2	**Gas group**	II C	**Temp class**	T1		
Equipment Protection Type	Ex eb	**EPL**	Gb	**Gas group**	II C	**Temp class**	T6	**IP Rating**	IP66

Detailed Note:

1) Inspection shall only be performed by competent personnel

2) All fields are to be completed. Any non-applicable field shall state “NA”. Comments are required for ‘Failure’ column ONLY.

3) An Inspection Sheet should be completed for EACH individual item of Equipment.

	General Equipment	Detailed	OK/NA/PL	Comments
1	Equipment is appropriate to the EPL / Zone requirements of the area	x	OK	
2	Equipment group is correct	x	OK	
3	Equipment temperature class is correct	x	OK	
4	Degree of IP protection of equipment is appropriate for the level of protection	x	OK	
5	Equipment circuit identification is correct	x	OK	
6	Equipment circuit identification is available	x	NA	
7	Enclosure glass parts and glass-to-metal sealing gaskets and / or compounds are satisfactory	x	OK	
8	There is no damage or unauthorized modifications	x	OK	
9	There is no evidence of unauthorized modifications	x	OK	
10	Bolts, cable entry devices (direct and indirect) & blanking elements are of the correct type, are complete & tight		OK	
	Physical check	x	OK	
11	Threaded covers on enclosures are of the correct type, are tight and secured		NA	
	Physical check	x	NA	
12	Joint surfaces are clean and undamaged and gaskets, if any, are satisfactory and positioned correctly	x	OK	
13	Condition of enclosure gaskets is satisfactory	x	OK	
14	There is no evidence or ingress of water or dust in the enclosure in accordance with the IP rating	x	OK	
15	Electrical connections are tight	x	OK	
16	Bridging links do not reduce creepage / clearance and are allowed	x	OK	
17	Unused terminals are tightened	x	OK	
18	Encapsulated components are undamaged	x	NA	
19	Flameproof components are undamaged	x	NA	
20	Fluorescent lamps are not indicating EOL effects (only for Ex “e” – Ex “n” – Ex “t”)	x	NA	
21	HID lamps are not indicating EOL effects	x	NA	
22	Lamp type, rating, pin configuration and position are correct	x	NA	
23	Breathing and drainage devices are satisfactory	x	OK	
24	Type of cable is appropriate	x	OK	
25	There is no obvious damage to the cables	x	OK	
26	Cable glands are the correct type and installed correctly	x	OK	
27	Sealing of trunking, ducts, pipes and or conduits is satisfactory	x	NA	
28	Stopping boxes and cable boxes are corrected filled	x	OK	

ITEM	Tag	EJB-200N1-02-L1-03	: JB - NORMAL LIGHTING			Dwg	123A90-DDL-EL-DL-20118
	S/Sys	83-40	: Normal Lighting Upper Deck			Module	UD
TASK	code	C10001653		Location	Onshore Activities	User	Rosetti Marino Quality Control
FORM	Process	MC	Activity CCK	Discipline	ATEX	Form	CJX01 Hazardous Area Equipment Detailed Inspection

29	Integrity of conduit system and interface with mixed system maintained	x	NA	
30	Earthing connections, including any supplementary earthing bonding connections are satisfactory (for example connections are tight and conductors are of sufficient cross-section		PL	
	Physical check	x	OK	
31	Automated electric protective devices operate within permitted limits	x	NA	
32	Special conditions (if applicable) have been complied with.	x	NA	
33	All cable cores are uniquely labeled	x	OK	
34	Cable cores not in use are correctly terminated	x	PL	
35	Equipment is adequately protected against corrosion, weather, vibration and other adverse factors	x	OK	
36	No undue accumulation of dust and dirt	x	OK	
37	All equipment housings are clean and dry	x	OK	
38	All moving parts are free and have no mechanical damage	x	OK	
	Applicable for Installation of Heating Systems			
39	Temperature sensors function according to manufacturer's documents (only applicable for Ex-d e Ex-e)	x	NA	
40	Safety cut off devices function according to manufacturer's documents (only applicable for Ex-d e Ex-e)	x	NA	
41	The setting of the safety cut off is sealed (only applicable for Ex-d e Ex-e)	x	NA	
42	Reset of a heating system safety cut off possible with tool only(only applicable for Ex-d e Ex-e)	x	NA	
43	Auto-reset is not possible (only applicable for Ex-d e Ex-e)	x	NA	
44	Reset of a safety cut off under fault conditions is prevented (only applicable for Ex-d e Ex-e)	x	NA	
45	Safety cut off independent from control system (only applicable for Ex-d e Ex-e)	x	NA	
46	Level switch is installed and correctly set, if required (only applicable for Ex-d e Ex-e)	x	NA	
47	Flow switch is installed and correctly set, if required (only applicable for Ex-d e Ex-e)	x	NA	
	Extra Ex d checks			
48	Obstructions adjacent to flame proof flanged joints are in accordance with IEC 60079-14	x	NA	
49	Ex d conduits seals are fitted to all conduits and satisfactorily sealed	x	NA	
50	Cable glands are of the correct type and installed correctly	x	NA	
51	Adaptors, reducers, stop ends, etc. are all certified Ex d	x	NA	
52	Flame path are clean and undamaged	x	NA	
53	Flange gap dimensions are within tolerances	x	NA	
54	Motor fans have sufficient clearance to the enclosure and/or covers, cooling systems are undamaged, motor foundations have no indentations or cracks	x	NA	
55	The ventilation airflow is not impeded	x	NA	
56	Insulation resistance (IR) of the motor windings is satisfactory	x	NA	
57	Fault loop impedance (TN systems) or earthing resistance (IT systems) is satisfactory	x	NA	
58	Variable voltage/frequency installation complies with documentation	x	NA	
	Extra Ex e checks			
59	All Equipment is Ex e certified (including components within enclosure)	x	OK	
60	Power conductors are not bunched together causing possible hot spots	x	OK	
61	Motor fans have sufficient clearance to the enclosure and/or covers, cooling systems are undamaged, motor foundations have no indentations or cracks	x	NA	
62	Insulation resistance (IR) of the motor windings is satisfactory	x	NA	
63	Fault loop impedance (TN systems) or earthing resistance (IT systems) is satisfactory	x	NA	
64	The ventilation airflow is not impeded	x	NA	
65	Motor protection devices operate within the permitted tE or tA time limits.	x	NA	
66	Variable voltage/frequency installation complies with documentation	x	NA	

ROSETTI MARINO | PROVERLIS | CROSSWIND

ITEM	Tag	EJB-200N1-02-L1-03	: JB - NORMAL LIGHTING		Dwg	123A90-DDL-EL-DL-20118	
	S/Sys	83-40	: Normal Lighting Upper Deck		Module	UD	
TASK	code	C10001653	Location	Onshore Activities	User	Rosetti Marino Quality Control	
FORM	Process	MC	Activity CCK	Discipline ATEX	Form	CJX01	Hazardous Area Equipment Detailed Inspection

Extra Ex n (nR, nL) checks				
67	All Terminals are Ex n certified (if required on certificate)	x	NA	
68	Hermetically sealed and enclosed break devices are undamaged	x	NA	
69	Restricted breathing properties satisfactory (conduct vacuum test)	x	NA	
70	Test port, if fitted, is functional (type “nR” only)	x	NA	
71	Breathing operation is satisfactory (type “nR” only)	x	NA	
72	Motor fans have sufficient clearance to the enclosure and/or covers, cooling systems are	x	NA	
73	The ventilation airflow is not impeded	x	NA	
74	Insulation resistance (IR) of the motor windings is satisfactory	x	NA	
75	Motor protection devices operate within the permitted tE or tA time limits.	x	NA	
76	Variable voltage/frequency installation complies with documentation	x	NA	
Extra Ex p checks				
77	Pressurization gas is correct type	x	NA	
78	Actual pressure is within maximum and minimum settings for equipment	x	NA	
79	Timers set as per certification documentation	x	NA	
80	Alarms and trip functions operate correctly as per certification documentation	x	NA	
81	Fault loop impedance (TN systems) or earthing resistance (IT systems) is satisfactory	x	NA	
82	Automatic electrical protective devices operate within permitted limits	x	NA	
83	Automatic electrical protective devices are set correctly	x	NA	
84	Protective gas inlet temperature is below maximum specified	x	NA	
85	Ducts, pipes and enclosures are in good condition	x	NA	
86	Protective gas is substantially free from contaminants	x	NA	
87	Protective gas pressure and/or flow is adequate	x	NA	
88	Pressure and/or flow indicators, alarms and interlocks function correctly	x	NA	
89	Conditions of spark and particle barriers of ducts for exhausting the gas in hazardous area are satisfactory	x	NA	
90	Specific conditions of use (if applicable) are complied with		NA	
Extra Ex i (Intrinsically Safe – IS) checks				
91	Equipment has adequate circuit identification for ‘IS’ Installation	x	NA	
92	Cables are installed in accordance with the documentation	x	NA	
93	Segregation is maintained between IS and non-IS Circuits	x	NA	
94	Cable screens are isolated at one end (field side)	x	NA	
95	Cable screens are earthed in accordance with the documentation	x	NA	
96	Safety barrier units, relays and other energy limiting devices are of the approved type, installed in	x	NA	
97	Equipment installed is the one specified in the documentation	x	NA	
98	Ambient temperature range of the apparatus is correct for the installation	x	NA	
99	Service temperature range of the apparatus is correct for the installation	x	NA	
100	Installation is clearly labelled	x	NA	
101	Printed circuit boards are clean and undamaged	x	NA	
102	The maximum voltage Um of the associated apparatus is not exceeded	x	NA	
103	Point-to-point connections are all correct	x	NA	
104	Earth continuity is satisfactory (e.g. connections are tight, conductors are of sufficient cross-section)	x	NA	
105	Earth connections maintain the integrity of the type of protection	x	NA	
106	Intrinsically safe circuit earthing is satisfactory	x	NA	
107	Insulation resistance is satisfactory	x	NA	
108	Short-circuit protection of the power supply is in accordance with the documentation	x	NA	

	BARRIER:	**Manufacturer:**	NA	**Model:**	NA		
		Authority:	NA	**Cert No:**	NA	**Type:**	NA

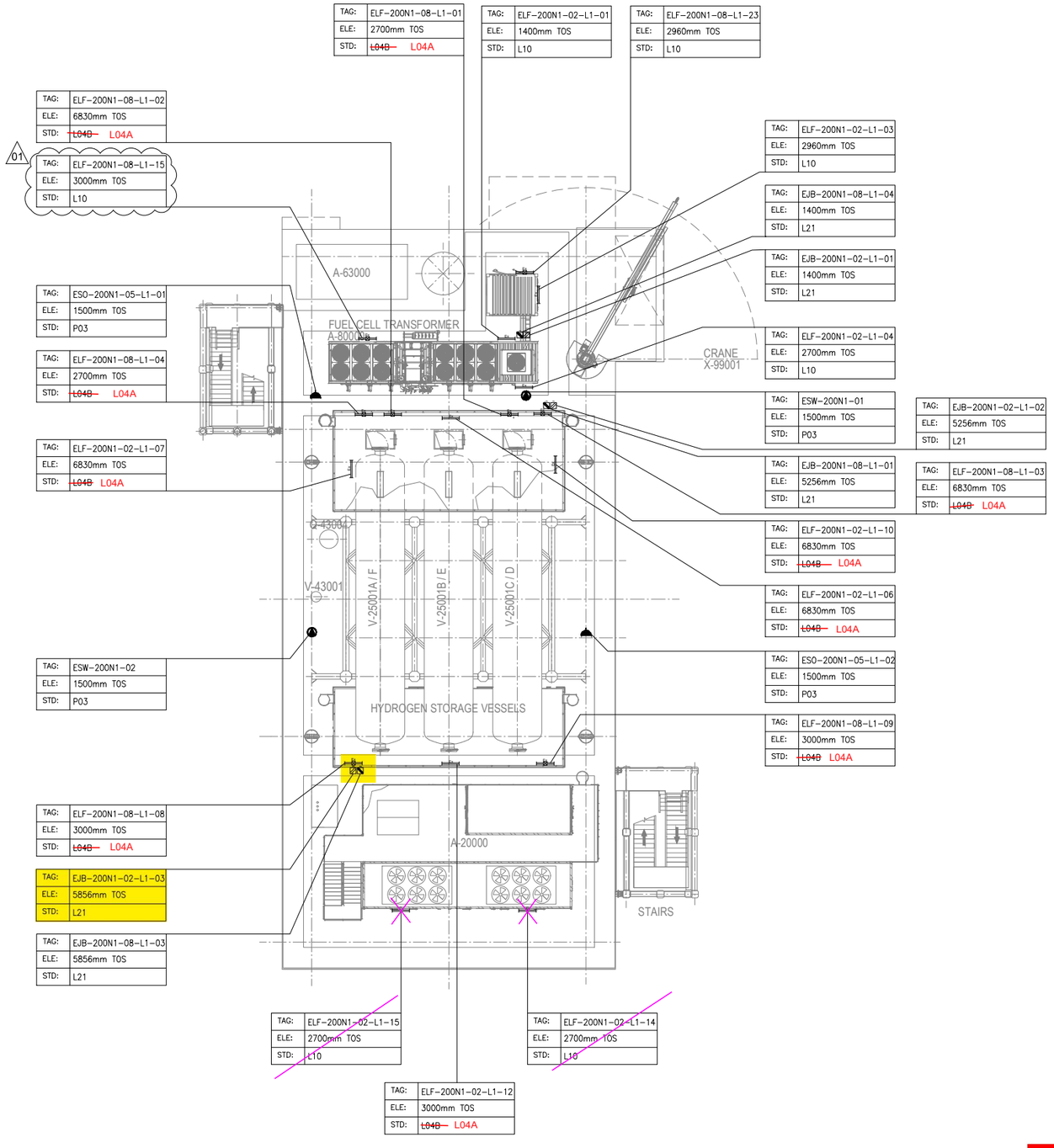
Remarks: Initial inspection should be detailed and carried out before equipment is brought into service as per IEC 60079-17

Please mark only one box as appropriate	
●	**Passed - Complete**
	Failed

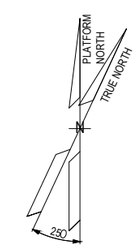
Page 3/3	Performed by	● WITNESS ☐ REVIEW	☐ WITNESS ☐ REVIEW
Company	ICS IMPIANTI	RM(ROSETTI MARINO)	
Name	Michele Tartaglia	Alessio Polo	
Date	2025-01-04	2025-01-18	
Signature	PROVERLIS Digitaly signed by Michele Tartaglia 2025-01-04T10:53:00.083Z	PROVERLIS Digitaly signed by Alessio Polo 2025-01-18T13:10:19.546Z	

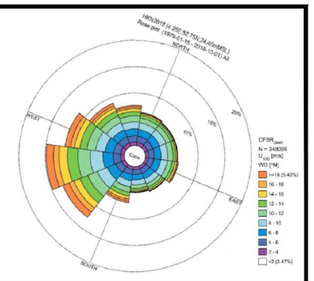
DRAWING NO. 123A90-DDL-EL-DL-20118

REV. 01



PLAN ON UPPER DECK
EL+30.310 T.O.S.





NOTES

1. ALL DIMENSIONS AND ELEVATIONS ARE GIVEN IN mm UNLESS OTHERWISE NOTED.
2. ELEVATIONS REFER TO T.O.S.
3. ELEVATION OF THE LAMPS ARE REFFERED TO THE BOTTOM OF THE LAMP.
4. FOR THE ELEVATION OF JB, REFER TO THE TYPICAL INSTALLATION.

LEGEND

- EMERGENCY LIGHTING JB
- 60W LED EMERGENCY LUMINARIES
- 60W LED EMERGENCY LUMINARIES FIXTURE POLE MOUNTED
- NORMAL LIGHTING JB
- 45W LED NORMAL LUMINARIES
- 45W LED NORMAL LUMINARIES FIXTURE POLE MOUNTED
- WELDING SOCKET WITH INTEGRATED JB
- SMALL POWER SOCKET WITH INTEGRATED JB

JB TAG:	JB-TAG
TAG:	TAG
ELE:	ELEVATION
STD:	STANDARD

REFERENCE DOCUMENTS

123A90-DDL-PP-DL-70070	PLOT PLAN - LOWER & UPPER DECK
123A90-DDL-EL-DL-20100	ELECTRICAL EQUIPMENT LAYOUT - TOP DECK
123A90-DDL-EL-DD-20091	ELECTRICAL TYPICAL INSTALLATION DETAILS - LIGHTING SYSTEM
123A90-DDL-EL-DD-20092	ELECTRICAL TYPICAL INSTALLATION DETAILS - POWER SYSTEM & CABLE INSTALLATION
123A90-DDL-EL-RE-20153	LIGHTING CALCULATION STUDY REPORT
123A90-DDL-ST-DD-90076	IDENTIFICATION PANELS ASSEMBLY AND DETAILS

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	02/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	28/05/24	ASR	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND

ROSETTI MARINO

TITLE :
BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET LAYOUT – TOP DECK

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK			SCALE 1:150
DRAWN ASR	CHECKED FMA/AMA	APPROVED FPA/DLO	DATE 01/08/24
A1	DRAWING NO. 123A90-DDL-EL-DL-20118	SHEET 2of2	REV. 01

VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DL-20118**

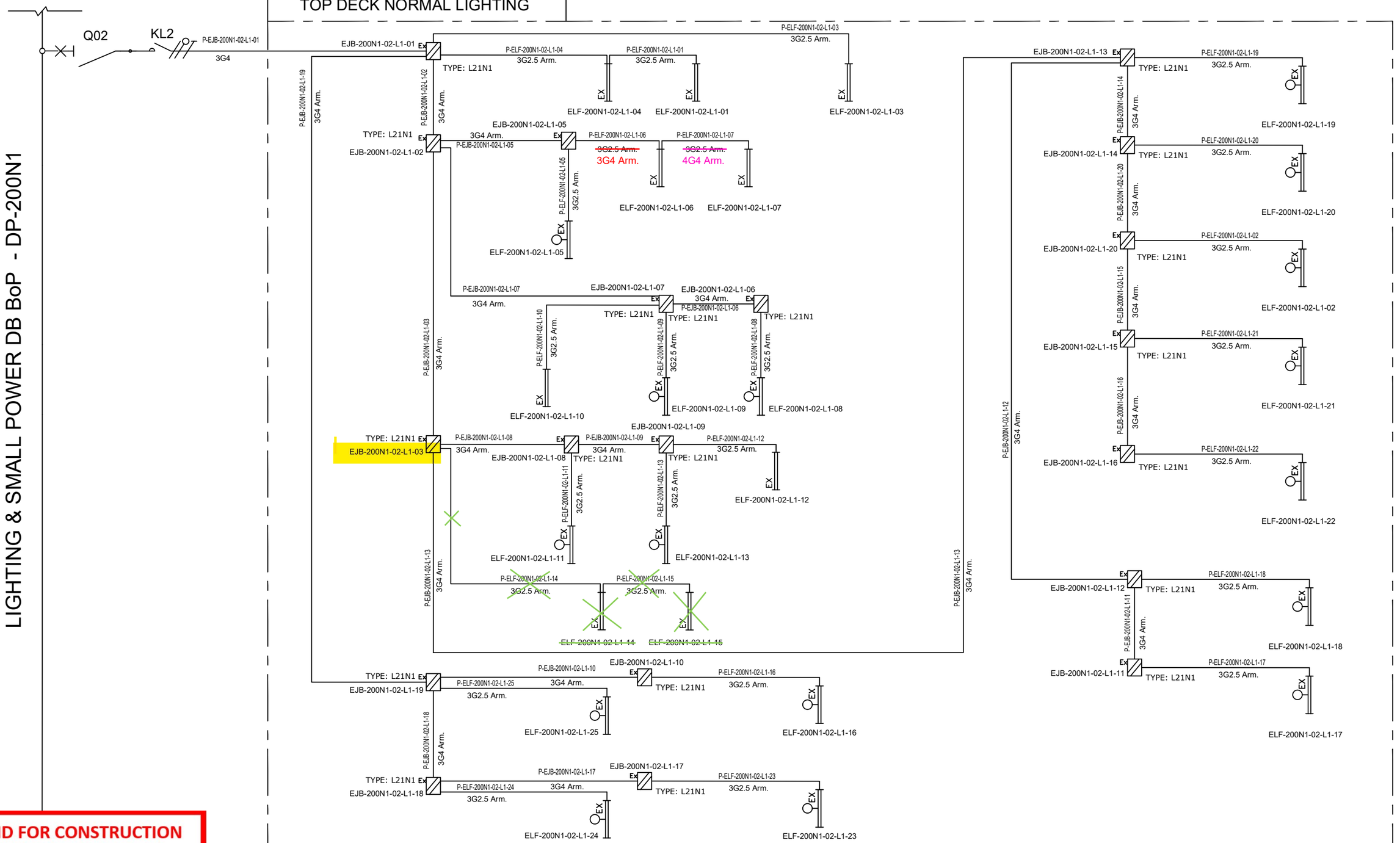
REV.:	DATE:	SIGNATURE:
1_G	09/01/25	V.Ramponi

ROSETTI MARINO SpA

File Name : 123A90-DDL-EL-DL-20118

LIGHTING & SMALL POWER DB BoP - DP-200N1

TOP DECK NORMAL LIGHTING



VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DG-20125**

REV.:	DATE:	SIGNATURE:
2_G	16/01/25	G.Randi

ROSETTI MARINO SpA

CROSSWIND

ROSETTI MARINO

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	08/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	01/07/24	ASR	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

TITLE : BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET CIRCUIT DIAGRAM
TOP DECK–NORMAL LIGHTING

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE : NTS

A3

DRAWING NO. 123A90–DDL–EL–DG–20125

SHEET 010

REV. 01

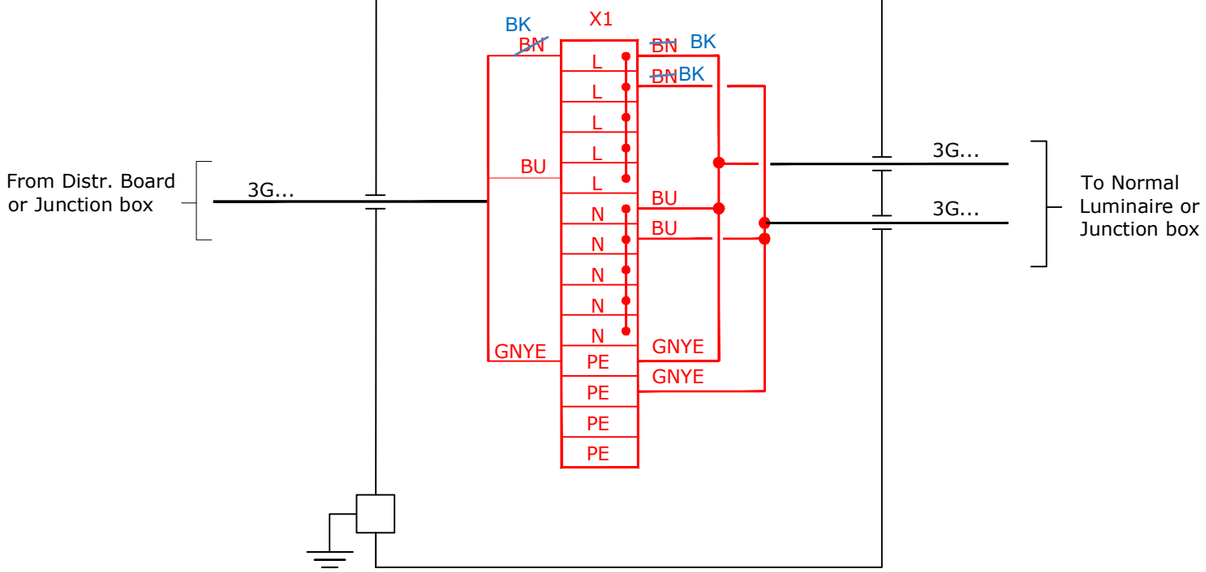
F.to UNI A3: 420mmx297mm

File Name : 123A90–DDL–EL–DG–20125

TYPE : L21N1 & L21N2

ITEM: NORMAL LIGHTING JUNCTION BOX

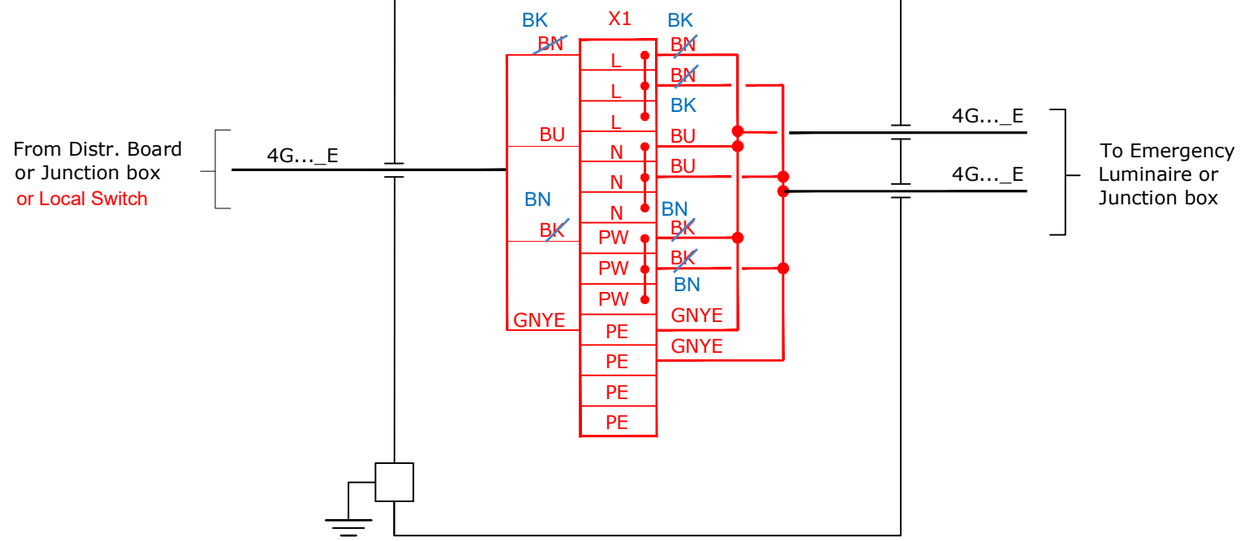
TAG : Typical



TYPE : L21E1 & L21E2

ITEM: EMERGENCY LIGHTING JUNCTION BOX

TAG : Typical



VALID FOR CONSTRUCTION

FDL DWG: **123A90-FDL-EL-DG-20125**

REV.:	DATE:	SIGNATURE:
2_G	16/01/25	G.Randi

ROSETTI MARINO SpA

CROSSWIND

ROSETTI MARINO

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	08/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)

TITLE : BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET CIRCUIT DIAGRAM
TYPICAL JB INTERCONNECTING DIAGRAM

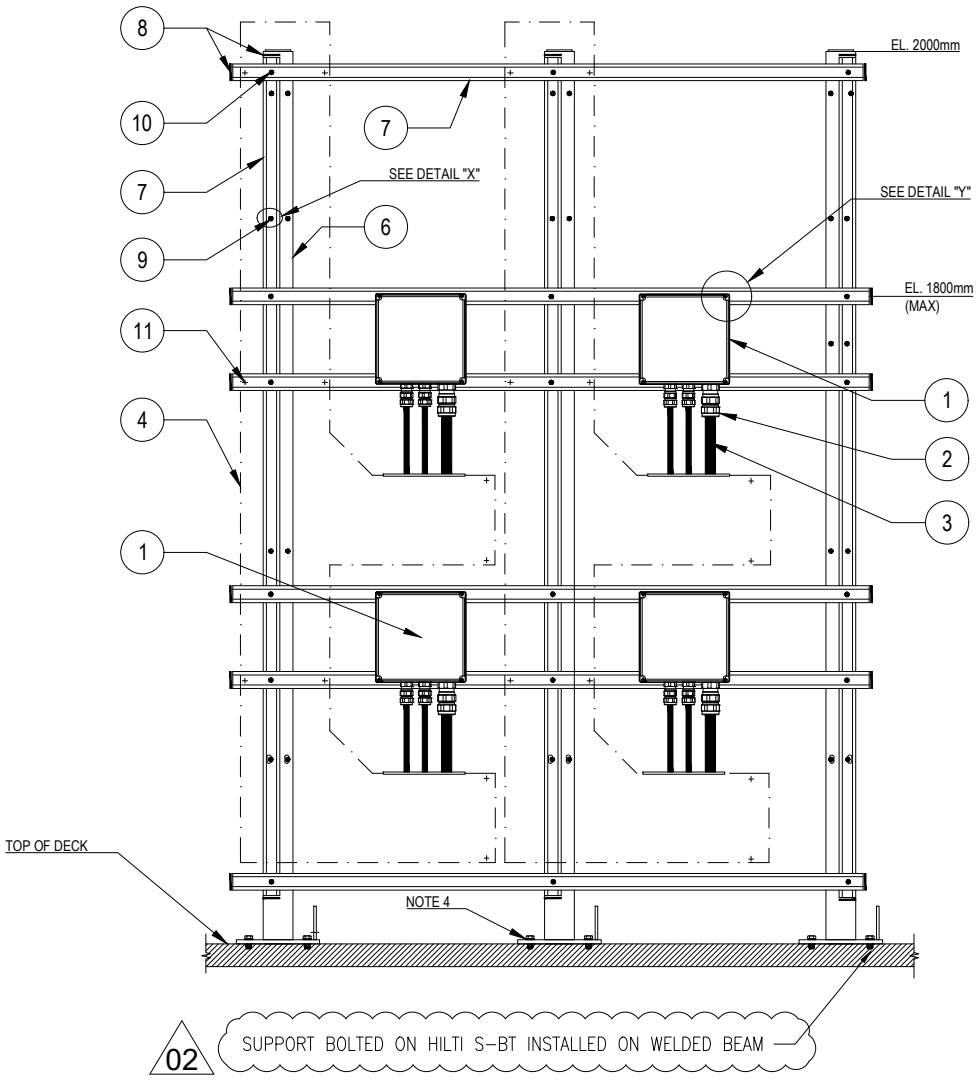
CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK | SCALE : NTS

A3	DRAWING NO.	SHEET	REV.
	123A90-DDL-EL-DG-20125	016	01

F.to UNI A3: 420mmx297mm

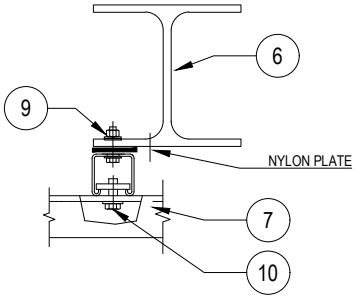
File Name : 123A90-DDL-EL-DG-20125

L21

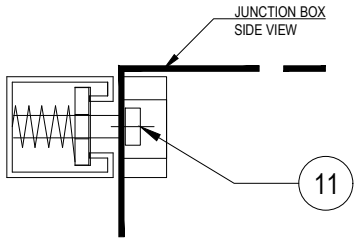


02

POS.	DESCRIPTION	MATERIAL	SIZE	Q.TY	NOTE
1	JUNCTION BOX (Ex)	GRP			
2	CABLE GLAND (Ex) FOR ARMOURED/UNARMOURED CABLE	NICK.PL.BRASS			NOTE 2
3	ARMOURED/UNARMOURED CABLE				
4	CABLE LADDER WITH COVER	AISI 316L			
6	PROFILE SUPPORT	PAINTED C.S			
7	SINGLE U-CHANNEL PERFORATED ON NO. 3 SIDE	AISI 316L	41x41x2		NOTE 1
8	PLUG FOR U-CHANNEL	LPDE			
9	HEXAGONAL BOLT M10X40 WITH LARGE PLANE WASHER, NYLON PLANE WASHER, PLANE WASHERS, GROWER SPRING WASHER AND NUT	AISI 316L	M10x40		
10	HEXAGONAL BOLT M12X30 COMPLETE WITH LARGE PLANE WASHER, PLANE WASHER AND NUT FOR U-CHANNEL WITH SPRING	AISI 316L	M12x30		
11	ALLEN KEY BOLT COMPLETE WITH PLANE WASHER, NUT FOR U-CHANNEL WITH SPRING	AISI 316L	M6x30		NOTE 3



DETAIL "X"



DETAIL "Y"

NOTES:

1) THE EXACT DIMENSIONS WILL BE DEFINED DURING ASSEMBLY PHASE.
2) CABLE GLAND COMPLETE WITH LOCKNUT, NYLON WASHER, SERRATED WASHER, EXTERNAL RUBBER RING AND EARTH TAG (IF NECESSARY).
3) FOR INSTRUMENT JUNCTION BOX USE HEXAGONAL BOLT M10X30 COMPLETE WITH PLANE WASHER, GROWER AND NUT FOR U-CHANNEL WITH SPRING
4) SUPPORT BOLTED ON HILTI S-BT INSTALLED ON THE DECK

VALID FOR CONSTRUCTION

REV.:	DATE:	SIGNATURE:
2_B	12/12/24	C.Pilato

ROSETTI MARINO SpA

CROSSWIND

ROSETTI MARINO

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	30/09/24	GRA	AMA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	04/07/24	NLK	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	21/11/23	SPS	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL TYPICAL INSTALLATION DETAILS-LIGHTING SYSTEM
JUNCTION BOXES MOUNTED RACK SUPPORT

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK | SCALE : NTS

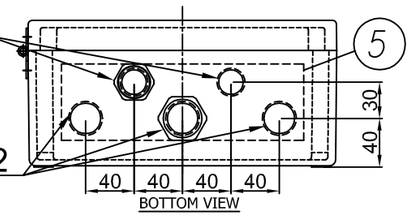
A3 | DRAWING NO. 123A90-DDL-EL-DD-20091 | SHEET 005 | REV. 02

F.to UNI A3: 420mmx297mm

File Name : 123A90-DDL-EL-DD-20091 REV.02.DWG

(10)(4) N°2 PASSING HOLES Ø20.2
C/W N°1 BNK PLUG M20 +
N°1 DUSTPROOF PVC PLUG

(3)(3) N°3 PASSING HOLES Ø25.2
C/W N°1 BNK PLUG M25 +
N°1 DUSTPROOF PVC PLUG



BOTTOM VIEW

(8) I2400722-B015I00029809

TECHNOR ITALSMEA
A COMPANY OF MARECHAL ELECTRIC
Via Italia 33 - 20060 Gessate (MI) ITALY

CE 0080 Ex II 2G II 2D
FIDI 21ATEX 0090X
IECEx FIDI 21.0015X
Year of construction:

MADE IN ITALY

TYPE: AQ-252612P
230VAC 50Hz 20A
Max Dis. P. 6W

Ex eb IIC T6 Gb
Ex tb IIIC T85°C Db
IP66
T.amb. -20/+40°C
Serial Nr.

WARNINGS : DO NOT OPEN WHEN ENERGIZED

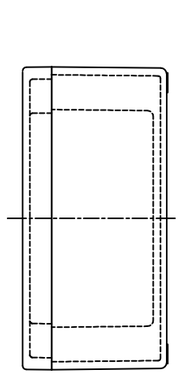
A002MAX

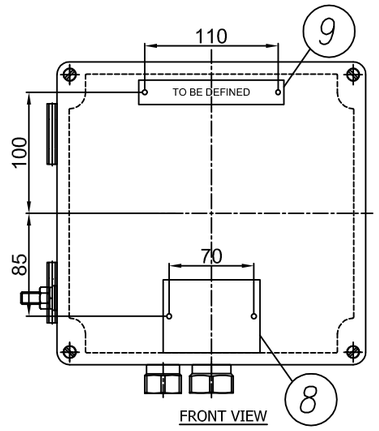
(9) PLATE DETAIL



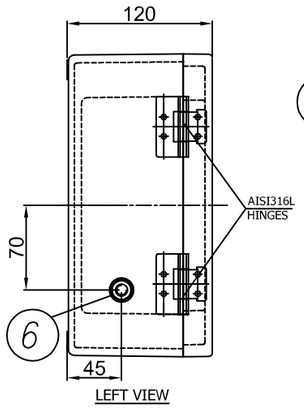
MATERIAL: LAMINATED PLASTIC
BACKGROUND: WHITE
LETTERS: BLACK

(7) Terminals numbered: NOTE 1

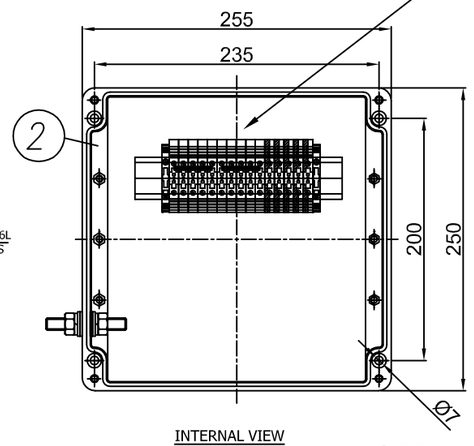

RIGHT VIEW



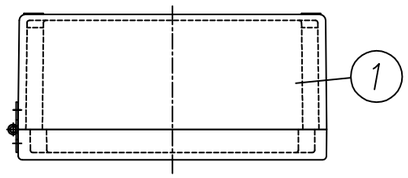
FRONT VIEW



LEFT VIEW



INTERNAL VIEW



TOP VIEW

NOTE1 :
- JB for Normal Lighting have terminals bridge: L-L-L-L-L, N-N-N-N-N, PE-PE-PE-PE-PE - JB for Emergency Lighting have terminals bridge: L-L-L, N-N-N, PW-PW-PW, PE-PE-PE-PE-PE

ITEM	DESCRIPTION	Pcs Q.TY	NOTE/MAT.	CODE	MANUFACTURER
11	DUSTPROOF PVC PLUG Ø25	2	–	.	TECHNOR ITALSMEA
10	DUSTPROOF PVC PLUG Ø20	1	–	.	TECHNOR ITALSMEA
9	LAMINATED PLASTIC TAG 120X20	1	–	.	TECHNOR ITALSMEA
8	AISI316L CERTIFICATE PLATE 80X60	1	–	.	TECHNOR ITALSMEA
7	BEIGE TERMINAL BLOCK SIZE 6 SQMM EARTH TERMINAL BLOCK SIZE 6 SQMM	10 5	WDU–6 WPE–6	.	WEIDMULLER
6	AISI316L INT/EXT EARTH BOLT M10	1	BTP–10	.	TECHNOR ITALSMEA
5	BRASS CONTINUITY PLATE THK. 0.8 MM	1	–	.	TECHNOR ITALSMEA
4	NICKEL PLATED BRASS PLUG M20	1	T20	.	TECHNOR ITALSMEA
3	NICKEL PLATED BRASS PLUG M25	1	T25	.	TECHNOR ITALSMEA
2	INTERNAL MOUNTING PLATE	1	PS–2526	.	TECHNOR ITALSMEA
1	GRP ENCLOSURE	1	AQ–252612P	.	TECHNOR ITALSMEA

-UNPAINTED (BLACK NATURAL)
Q.TY 92, ITEM 20: 2JBXXGPEE, ELEJB02

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
05	20/12/24	FB	OB	OB	ACCEPTED FOR CONSTRUCTION (AFC)
04	26/11/24	FB	OB	OB	ACCEPTED FOR CONSTRUCTION (AFC)
03	25/10/24	FB	OB	OB	ACCEPTED FOR CONSTRUCTION (AFC)
02	12/09/24	FB	OB	OB	ACCEPTED FOR CONSTRUCTION (AFC)
01	03/09/24	FB	OB	OB	ACCEPTED FOR CONSTRUCTION (AFC)
00	30/07/24	FB	OB	OB	ISSUE FOR REVIEW (IFR)

Explosion Proof
Electrical Equipment
Materiali Elettrici Antideflagranti
TECHNOR ITALSMEA
A COMPANY OF MARECHAL ELECTRIC

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)

Junction Box for Normal & Emergency Lighting

CONTRACT NO./TITLE CW–I–WP4–2023–05/HOLLANDSE KUST NOORD WIND PARK

SCALE : NTS

A3

DRAWING NO. 1724001481–EL–DA–00003

SHEET 004

REV. 05

F.to UNI A3: 420mmx297mm

File Name : 1724001481–EL–DA–00003 Rev. 01

ENCLOSURE N°	TAG LIST	NORMAL LIGHTING	EMERGENCY LIGHTING
1	EJB-200N1-03-L2-04	X	
2	EJB-200N1-03-L2-03	X	
3	EJB-200N1-03-L2-01	X	
4	EJB-200N1-03-L2-02	X	
5	EJB-200N1-03-L2-12	X	
6	EJB-200N1-03-L2-11	X	
7	EJB-200N1-03-L2-10	X	
8	EJB-200N1-03-L2-09	X	
9	EJB-200N1-03-L2-08	X	
10	EJB-200N1-03-L2-07	X	
11	EJB-200N1-03-L2-06	X	
12	EJB-200N1-03-L2-05	X	
13	EJB-200N1-03-L2-14	X	
14	EJB-200N1-03-L2-13		X
15	EJB-200N1-09-L2-17		X
16	EJB-200N1-09-L2-01		X
17	EJB-200N1-09-L2-04		X
18	SPARE (TO BE PROVIDED BLANK)		X
19	EJB-200N1-09-L2-02		X
20	EJB-200N1-09-L2-15		X
21	EJB-200N1-09-L2-14		X
22	EJB-200N1-09-L2-13		X
23	EJB-200N1-09-L2-12		X
24	EJB-200N1-09-L2-11		X
25	EJB-200N1-09-L2-10		X
26	EJB-200N1-09-L2-09		X
27	EJB-200N1-09-L2-08		X
28	EJB-200N1-09-L2-07		X
29	EJB-200N1-09-L2-06		X
30	EJB-200N1-09-L2-05		X
31	EJB-200N1-09-L2-16	X	
32	EJB-200N1-04-L3-01	X	
33	EJB-200N1-04-L3-02	X	
34	EJB-200N1-10-L3-05		X
35	EJB-200N1-10-L3-06		X
36	EJB-200N1-10-L3-07		X
37	EJB-200N1-10-L3-08		X
38	EJB-200N1-10-L3-09		X
39	EJB-200N1-10-L3-02		X
40	EJB-200N1-10-L3-01		X
41	EJB-200N1-10-L3-03		X
42	EJB-200N1-10-L3-04		X
43	EJB-200N1-02-L1-03	X	
44	EJB-200N1-02-L1-02	X	
45	EJB-200N1-02-L1-01	X	
46	SPARE (TO BE PROVIDED BLANK)	X	
47	EJB-200N1-02-L1-10	X	
48	EJB-200N1-02-L1-19	X	
49	EJB-200N1-02-L1-18	X	

ENCLOSURE N°	TAG LIST	NORMAL LIGHTING	EMERGENCY LIGHTING
50	EJB-200N1-02-L1-17	X	
51	EJB-200N1-02-L1-16	X	
52	EJB-200N1-02-L1-15	X	
53	EJB-200N1-02-L1-14	X	
54	EJB-200N1-02-L1-13	X	
55	EJB-200N1-02-L1-12	X	
56	EJB-200N1-02-L1-11	X	
57	EJB-200N1-02-L1-06	X	
58	EJB-200N1-02-L1-05	X	
59	EJB-200N1-02-L1-07	X	
60	EJB-200N1-02-L1-08	X	
61	EJB-200N1-02-L1-09	X	
62	EJB-200N1-08-L1-03		X
63	SPARE (TO BE PROVIDED BLANK)		X
64	EJB-200N1-08-L1-01		X
65	EJB-200N1-08-L1-04		X
66	EJB-200N1-08-L1-19		X
67	EJB-200N1-08-L1-18		X
68	EJB-200N1-08-L1-17		X
69	EJB-200N1-08-L1-16		X
70	EJB-200N1-08-L1-15		X
71	EJB-200N1-08-L1-14		X
72	EJB-200N1-02-L1-20	X	
73	EJB-200N1-08-L1-12		X
74	EJB-200N1-08-L1-11		X
75	EJB-200N1-08-L1-10		X
76	EJB-200N1-08-L1-20		X
77	EJB-200N1-08-L1-05		X
78	EJB-200N1-08-L1-06		X
79	EJB-200N1-08-L1-07		X
80	EJB-200N1-08-L1-09		X
81	EJB-200N1-08-L1-08		X
82	EJB-200F2-01	X	
83	EJB-200F2-02	X	
84	SPARE (TO BE PROVIDED BLANK)	X	
85	SPARE (TO BE PROVIDED BLANK)	X	
86	SPARE (TO BE PROVIDED BLANK)	X	
87	SPARE (TO BE PROVIDED BLANK)	X	
88	SPARE (TO BE PROVIDED BLANK)	X	
89	SPARE (TO BE PROVIDED BLANK)		X
90	SPARE (TO BE PROVIDED BLANK)		X
91	SPARE (TO BE PROVIDED BLANK)		X
92	SPARE (TO BE PROVIDED BLANK)		X

Q.TY 92, ITEM 20: 2JBXXGPEE, ELEJB02

Explosion Proof
Electrical Equipment
Materiali Elettrici Antideflagranti

TECHNOR ITALSMEA
A COMPANY OF MARECHAL ELECTRIC

CROSSWIND

ROSETTI MARINO

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
05	20/12/24	FB	OB	OB	ACCEPTED FOR CONSTRUCTION (AFC)
04	26/11/24	FB	OB	OB	ACCEPTED FOR CONSTRUCTION (AFC)
03	25/10/24	FB	OB	OB	ACCEPTED FOR CONSTRUCTION (AFC)
02	12/09/24	FB	OB	OB	ACCEPTED FOR CONSTRUCTION (AFC)
01	03/09/24	FB	OB	OB	ACCEPTED FOR CONSTRUCTION (AFC)
00	30/07/24	FB	OB	OB	ISSUE FOR REVIEW (IFR)

TITLE : BASE LOAD POWER HUB (BLPH)

Junction Box for Normal & Emergency Lighting–Tag List

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE : NTS

A3

DRAWING NO. 1724001481-EL-DA-00003

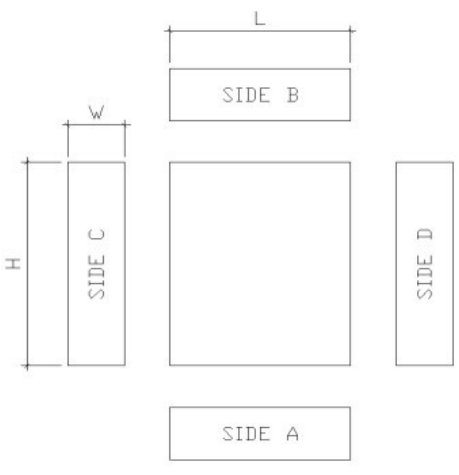
SHEET 005

REV. 05

F.to UNI A3: 420mmx297mm

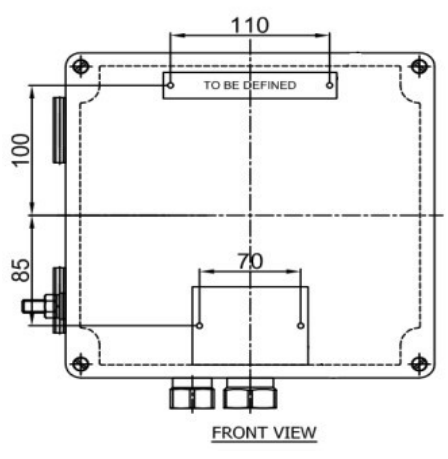
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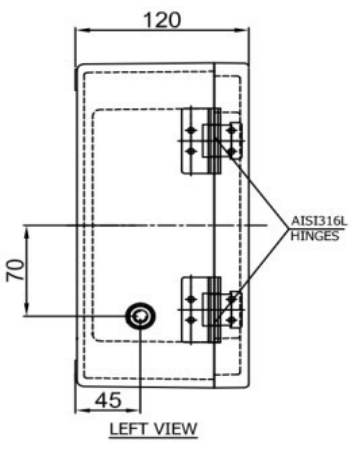
Row	Data Sheet for Control Stations, Junction Boxes and Sockets				Rev.
1	Junction Box for Normal & Emergency Lighting (Exdb)				
2	Item	Required	Manufacturer Proposal	Comments	
3	Model Number	by Vendor	AQ-252612P		01
4	Serial Number	by Vendor	B011041010004		01
5	Quantity	43+5(spare)		(39+9 spare)	01
6	Appkication	Lighting pole JB/Lighting JB			00
7	**Installation area**				
8	Indoor/Outdoor	Outdoor			00
9	Safe Area/Hazardous Area	Hazardous area			00
10	Zone 1/Zone 2	Zone-1			00
11	Temp. Class	Zone 1 Gas Group IIC (or) IIB + H2, T1	Ex eb IIC, T6 Gb		01
12	**Electrical input data**				
13	Voltage	230 V ac	230 V ac		01
14	Number of Phases	1ph + N + PE			00
15	**Material**				
16	Body	GRP	GRP		01
17	Execution	Ex eb	Ex eb		00
18	Protection Degree	IP56	IP 66		01
19	**Accessories**				
20	Hinged Cover	Required	AISI316L Hinges		01
21	Gasket	Required			00
22	Removable Gland Plates	Required	Brass Continuity plate 0.8mm thick		01
23	Internal Mounting Plate	Thickness 3mm threaded		connected to Internal ground bar	00
24	Internal Ground Bar	Required		connected to earth stud	00
25	Earth Stud	Required			00
26	Drainage Valve	Required			00
27	Pad lockable Cover	Required			00
28	Identification Label	Trafolite/ Stainless Steel	Laminated Plastic	for all label	01
29	**Side 'A'**				
30	Hubs Qty.	5	5		01
31	Size	No.3 M25, No.2 M20	No.3 Ø 25.2 mm, No.2 Ø 20.2 mm		01
32	Thread	ISO-M			00
33	Plug	No. 1 M20, No.1 M25	No. 1 Ø 20.2 mm, No.1 Ø 25.2 mm	nickel-plated brass	01
34	**Side 'B'**				
35	Hubs Qty.	Not Required			00
36	Size	NA			00
37	Thread	NA			00
38	**Side 'C'**				
39	Hubs Qty.	Not Required			00
40	Size	NA			00
41	Thread	NA			00
42	**Side 'D'**				
43	Hubs Qty.	Not Required			00
44	Size	NA			00
45	Thread	NA			00
46	**Terminals**				
47	Size [mm^2]	Suitable for 6 Sq.mm & 2.5 Sq.mm Cable	M25 & M20	suitable with wire-end ferrules DIN 46228	01
48	Qty.	n°5 for Ph // n°5 for N // n°5 for PE	n°5 for Ph // n°5 for N // n°5 for PE	Ex - jumpered	01
49	**Bonding Cable (yellow/Green)**				
50	Size [mm^2]	by vendor		6 mm^2	01
51	Qty.	Min. 0.15m			00
52	**Dimension**				
53	Height 'H' [mm]	by vendor	120 mm		01
54	Width 'W' [mm]	by vendor	250 mm		01
55	Length 'L' [mm]	by vendor	255 mm		01
56	Weight [Kg]	by vendor	2.65 Kg		01
57	JB Code (*)	Remarks			
58					



NOTES:

(*) Filled by Vendor





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Tag Number	Tag Description	Location	P.O.	Vendor	Manufacturer	Serial Number	Model Type Catalogue Number	Installation Zone	ATEX Certificate Number	Reference Document	ATEX Certification Marking	Notes / Comments	Skid / Package	Electrical Equip.	Barrier Calculation Ref.	Special Conditions of Safe Use Applicable	3D Location
CB-200F4B	AC UPS F&G - Battery Isolator-B	CONTAINER B-300 (LOWER DECK)	1724000372	3W Power	Cortem Spa		EJBC	Zone 1	EPT 20 ATEX 4075X	1724000372-EL-DG-00011	II 2GDEx db IIC T6 Gb Ex tb IIIC T 85°C Db	-	N/A	True	N/A	False	
EAT-200N1-01	Trace Heating - Remote Ambient Thermostat	LOWER DECK	1724001647	nVent	nVent	1244-022663	ETS-05-A2-E-A	Zone 1	Baseefa 13ATEX0137	1724001647-EL-DD-00004	II 2(1)G Ex eb ia mb [ia Ga] IIC T5 Gb - 40ºC ≤ Ta ≤ +60ºC II 2D Ex tb IIIC T100ºC Db	-	N/A	True	N/A	False	
EHT-1001-A	Self-regulating heat cable	LOWER DECK	1724001647	nVent	nVent	469145-000	3BTV2-CT	Zone 1	SGS20ATEX0048X	1724001647-EL-DD-00004	II 2 GD Ex 60079-30-1 eb IIC T6 Gb	-	N/A	True	N/A	True	
EHT-1002-A	Self-regulating heat cable	LOWER DECK	1724001647	nVent	nVent	469145-000	3BTV2-CT	Zone 1	SGS20ATEX0048X	1724001647-EL-DD-00004	II 2 GD Ex 60079-30-1 eb IIC T6 Gb	-	N/A	True	N/A	True	
EHT-1003-A	Self-regulating heat cable	LOWER DECK	1724001647	nVent	nVent	469145-000	3BTV2-CT	Zone 1	SGS20ATEX0048X	1724001647-EL-DD-00004	II 2 GD Ex 60079-30-1 eb IIC T6 Gb	-	N/A	True	N/A	True	
EHT-1004-A	Self-regulating heat cable	UPPER DECK	1724001647	nVent	nVent	469145-000	3BTV2-CT	Zone 1	SGS20ATEX0048X	1724001647-EL-DD-00004	II 2 GD Ex 60079-30-1 eb IIC T6 Gb	-	N/A	True	N/A	True	
EHT-1004-B	Self-regulating heat cable	UPPER DECK	1724001647	nVent	nVent	469145-000	3BTV2-CT	Zone 1	SGS20ATEX0048X	1724001647-EL-DD-00004	II 2 GD Ex 60079-30-1 eb IIC T6 Gb	-	N/A	True	N/A	True	
EHT-1005-A	Self-regulating heat cable	UPPER DECK	1724001647	nVent	nVent	469145-000	3BTV2-CT	Zone 1	SGS20ATEX0048X	1724001647-EL-DD-00004	II 2 GD Ex 60079-30-1 eb IIC T6 Gb	-	N/A	True	N/A	True	
EHT-1006-A	Self-regulating heat cable	UPPER DECK	1724001647	nVent	nVent	469145-000	3BTV2-CT	Zone 1	SGS20ATEX0048X	1724001647-EL-DD-00004	II 2 GD Ex 60079-30-1 eb IIC T6 Gb	-	N/A	True	N/A	True	
EHT-1007-A	Self-regulating heat cable	LOWER DECK	1724001647	nVent	nVent	469145-000	3BTV2-CT	Zone 1	SGS20ATEX0048X	1724001647-EL-DD-00004	II 2 GD Ex 60079-30-1 eb IIC T6 Gb	-	N/A	True	N/A	True	
EHT-2002-A	Self-regulating heat cable	UPPER DECK	1724001647	nVent	nVent	469145-000	3BTV2-CT	Zone 1	SGS20ATEX0048X	1724001647-EL-DD-00004	II 2 GD Ex 60079-30-1 eb IIC T6 Gb	-	N/A	True	N/A	True	
EJB-200F2-01	Top Obstruction Lights Junction Box	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990082	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	HAZARDOUS-AREA_8 HAZARDOUS-AREA_3
EJB-200F2-02	Intermediate obstruction lights junction box	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990083	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	HAZARDOUS-AREA_4
EJB-200N1-02-L1-01	Normal Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990045	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-02-L1-02	Normal Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990044	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-02-L1-03	Normal Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990043	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	HAZARDOUS-AREA_3
EJB-200N1-02-L1-05	Normal Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990058	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-02-L1-06	Normal Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990057	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-02-L1-07	Normal Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990059	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-02-L1-08	Normal Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990060	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-02-L1-09	Normal Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990061	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-02-L1-10	Normal Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990047	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-02-L1-11	Normal Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990056	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-02-L1-12	Normal Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990055	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-02-L1-13	Normal Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990054	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-02-L1-14	Normal Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990053	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-02-L1-15	Normal Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990052	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-02-L1-16	Normal Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990051	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-02-L1-17	Normal Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990050	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-02-L1-18	Normal Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990049	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-02-L1-19	Normal Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990048	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-02-L1-20	Normal Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990072	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-03-L2-01	Normal Lighting JB	LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990003	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-03-L2-02	Normal Lighting JB	LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990004	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-03-L2-03	Normal Lighting JB	LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990002	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-03-L2-04	Normal Lighting JB	LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990001	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-03-L2-05	Normal Lighting JB	LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990012	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-03-L2-06	Normal Lighting JB	LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990011	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-03-L2-07	Normal Lighting JB	LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990010	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-03-L2-08	Normal Lighting JB	LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990009	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-03-L2-09	Normal Lighting JB	LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990008	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-03-L2-10	Normal Lighting JB	LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990007	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-03-L2-11	Normal Lighting JB	LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990006	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-03-L2-12	Normal Lighting JB	LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990005	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-03-L2-13	Normal Lighting JB	LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990014	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-03-L2-14	Normal Lighting JB	LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990013	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-04-L3-01	Stair Normal Lighting JB	LOWER DECK STAIRS	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990032	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-04-L3-02	Stair Normal Lighting JB	LOWER DECK STAIRS	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990033	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-08-L1-01	Emergency Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990064	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-08-L1-03	Emergency Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990062	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	HAZARDOUS-AREA_3
EJB-200N1-08-L1-04	Emergency Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990065	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-08-L1-05	Emergency Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990077	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-08-L1-06	Emergency Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990078	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	

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explosion safety solutions

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[1] # EU – TYPE EXAMINATION CERTIFICATE

[2] Equipment or Protective Systems Intended for use in Potentially Explosive Atmospheres Directive 2014/34/EU.

[3] EU-Type Examination Certificate Number: **FIDI 21 ATEX 0090X** Issue: **1**

[4] Product: **Junction boxes, local control stations and local control panels**

Type: **AQ-***P / AQ-***AL / AR-***P / AR-***AL**
AQ-*P-HT / AQ-***AL-HT / AR-***P-HT / AR-***AL-HT**
SB-* / ST-***
EFE-* / EFXE-*** AL / EFXE-***SB / EFXE-***ST**
EFE-*-HT / EFXE-***AL-HT**

[5] Manufacturer: **Technor Italsmea S.p.A.**

[6] Address: **Via Italia 33, 20060 Gessate (MI), Italy**

[7] This product and any acceptable variation thereto is specified in the schedule to this certificate and documents therein referred to.

[8] FIDITAS Ltd., Notified Body number 2829 in accordance with Article 17 of Directive 2014/34/EU of the European Parliament and of the Council, dated 26 February 2014, certifies that this product has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of products intended for use in potentially explosive atmospheres given in Annex II of the Directive.

The examination and test results are recorded in confidential Report No: **FIDI 21 CR 075**

[9] Compliance with the Essential Health and Safety Requirements has been assured by compliance with:

EN IEC 60079-0:2018	**EN 60079-1:2014**	**EN IEC 60079-7:2015 / A1:2018**
EN 60079-11:2012	**EN 60079-18:2015/A1:2017**	**EN 60079-31:2014**

except in respect of those requirements listed at item 18 of the Schedule.

[10] If the sign 'X' is placed after the certificate number, it indicates that the product is subject to Specific Conditions of Use specified in the schedule to this certificate.

[11] This EU-Type Examination Certificate relates only to the design, examination and test of the specified product in accordance with Annex III. Further requirements of the Directive apply to the manufacturing process and supply of this products. These are not covered by this certificate.

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This certificate may only be reproduced in its entirety, without any change, schedule included

[12] The marking of the product shall include the following:



II 1 G	**Ex ia IIC/IIB T6...T4 Ga**(2) or
II 2(1) G or **II 2(2) G**	**Ex db eb ia/ib mb [**(3)**] IIC/IIB T6...T4 Gb**(1) or
II 2 G	**Ex eb IIC/IIB T6...T4 Gb**(1) or
II 2 D	**Ex tb IIIC T85°C...T135°C Db**

(1) Others type of protection additional to 'eb' depending to the components actually mounted.

(2) In case of enclosures containing 'eb' terminals and/or 'ia Ga' already certified components (with compatible marking) only.

(3) Associated equipment protection depending on the components actually mounted (see lists): e.g. [ia/ib/ia Ga/ia IIIC Da] and/or [ia IIIC Da] or [ia/ib/ia Ga/ia IIIC Da] and/or [ia/ib/ia Ga] [ia IIIC Da]

Our ref.: 21.CRT.400

Date: 23. 12.2021.

Fiditas d.o.o. ZAGREB

FIDITAS Ltd.
Certification department
Approved:

Marino Kelava, M.E.Eng.

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[13] **SCHEDULE**

[14] **EU - TYPE EXAMINATION CERTIFICATE No.:** **FIDI 21 ATEX 0090X**

[15] **Description of product**

Junction boxes, local control stations and local control panels are made of 'eb' and 'tb' enclosures in stainless steel, aluminium alloy or glass fiber reinforced polyester resin, of various dimensions, which shall house 'eb' and/or 'ia/ib' terminals and/or Ex components or Ex equipment made in different type of Ex protection. All Ex terminals, Ex components and Ex equipment are covered by their own ATEX certificates.

The terminals and components are be used according to data available in related component certificates, in relevant temperature range, voltage and current limitations. The terminals must be fitted in accordance with EN IEC 60079-0 and EN IEC 60079-7 with regards to creepage and clearance distances, and according to related safety instructions.

The cover is fixed to the body with screw, between body and cover a gasket guarantee the protection degree IP66 (IP66/67 depending on models). The cover of stainless-steel enclosure can be also fixed the body with looking devices, between body and cover a gasket guarantee the protection degree IP66. The IP degree of junction boxes, local control stations and local control panels depend on the components actually mounted. The walls and the bottom of the boxes can be drilled and taped with maximum size and maximum number of holes as specified in the manufacturer documents.

The cable glands or plugs, with separate ATEX certificate, made in type of protection 'eb' and/or 'tb' with appropriate IP protection are mounted according to related manufacturer's installation instructions. Each enclosure is provided with internal earthing certified terminal or earthing screw or bolt. Metal enclosures are provided by external earthing screw or bolt. Metal and polyester enclosures can be provided by passing through earthing terminals.

All enclosures can be provided by:
- Externally installed accessories as specified in manufacturer documents,
- Drain breath device type ECR3, included in this certificate,
- Internal/external earthing plate.

Model identification

Junction boxes

A(1)-(2) (3) (4) (5) (6)	(1) –	**Q**: Square size **R**: Rectangular size
	(2) (3) (4)	dimension, in cm
	(5)	Material **P**: Glass fiber reinforced polyester resin **AL**: Aluminium Alloy
	(6)	None: up to internal temperature of 105°C **HT**: up to internal temperature of 130°C
SB- (2) (3) (4)	(2) (3) (4)	dimension, in cm
ST- (2) (3) (4)	(2) (3) (4)	dimension, in cm

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Panel boards

EFE- (2) (3) (4) (6)	(2) (3) (4)	dimension, in cm
	(6)	None: up to internal temperature of 105°C **HT**: up to internal temperature of 130°C
EFXE- (2) (3) (4) (5) (6)	(2) (3) (4)	dimension, in cm
		Material
	(5)	**SB** or **ST**: stainless steel **AL**: Aluminium Alloy
	(6)	None: up to internal temperature of 105°C **HT**: up to internal temperature of 130°C

Technical data:

Electrical data:	According to Ex component to actually installed
Ambient temperature:	-50°C ÷ +95°C Other possible ranges are with: - min temperature: -50°C to -20 °C - max temperature of +40 °C to +95 °C
Mechanical protection:	IP66/IP67 depending on models IP66 without swing handle element IP55 with swing handle element

Temperature class and/or maximum surface temperature of any junction box or control panel depend on ambient temperature and internal power dissipation. The values that must be observed are given in relevant tables in this certificate.

For commercial reasons model name listed in the tables below can be modified as follows: first (2) and second (3) pair of digits can be reversed.

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Model sizes

Polyester High Temperature		Aluminium High Temperature	
AQ-080806P-HT	EFE-080806-HT	AQ-080806AL-HT	EFXE-080806AL-HT
AQ-080808P-HT	EFE-080808-HT	AR-081306AL-HT	EFXE-081306AL-HT
AR-081106P-HT	EFE-081106-HT	AR-081806AL-HT	EFXE-081806AL-HT
AR-081108P-HT	EFE-081108-HT	AR-082505AL-HT	EFXE-082505AL-HT
AR-081606P-HT	EFE-081606-HT	AQ-101008AL-HT	EFXE-101008AL-HT
AR-081608P-HT	EFE-081608-HT	AR-101608AL-HT	EFXE-101608AL-HT
AR-081906P-HT	EFE-081906-HT	AR-102008AL-HT	EFXE-102008AL-HT
AR-081908P-HT	EFE-081908-HT	AQ-121208AL-HT	EFXE-121208AL-HT
AR-082306P-HT	EFE-082306-HT	AQ-121209AL-HT	EFXE-121209AL-HT
AR-082308P-HT	EFE-082308-HT	AR-122208AL-HT	EFXE-122208AL-HT
AQ-121209P-HT	EFE-121209-HT	AR-122209AL-HT	EFXE-122209AL-HT
AR-122209P-HT	EFE-122209-HT	AR-123608AL-HT	EFXE-123608AL-HT
AQ-161609P-HT	EFE-161609-HT	AQ-141409AL-HT	EFXE-141409AL-HT
AR-162609P-HT	EFE-162609-HT	AR-142009AL-HT	EFXE-142009AL-HT
AR-163609P-HT	EFE-163609-HT	AQ-161609AL-HT	EFXE-161609AL-HT
AR-165609P-HT	EFE-165609-HT	AR-162609AL-HT	EFXE-162609AL-HT
AQ-202017P-HT	EFE-202017-HT	AR-163609AL-HT	EFXE-163609AL-HT
AR-203017P-HT	EFE-203017-HT	AR-165609AL-HT	EFXE-165609AL-HT
AQ-252612P-HT	EFE-252612-HT	AQ-181810AL-HT	EFXE-181810AL-HT
AQ-252616P-HT	EFE-252616-HT	AR-182810AL-HT	EFXE-182810AL-HT
AR-254012P-HT	EFE-254012-HT	AR-102311AL-HT	EFXE-102311AL-HT
AR-254016P-HT	EFE-254016-HT	AR-202311AL-HT	EFXE-202311AL-HT
AR-256012P-HT	EFE-256012-HT	AR-202318AL-HT	EFXE-202318AL-HT
AR-304020P-HT	EFE-304020-HT	AR-232811AL-HT	EFXE-232811AL-HT
AQ-363609P-HT	EFE-363609-HT	AR-233311AL-HT	EFXE-233311AL-HT
AR-406025P-HT	EFE-406025-HT	AR-233318AL-HT	EFXE-233318AL-HT
AQ-414012P-HT	EFE-414012-HT	AR-234011AL-HT	EFXE-234011AL-HT
AQ-414020P-HT	EFE-414020-HT	AR-234023AL-HT	EFXE-234023AL-HT
		AR-236011AL-HT	EFXE-236011AL-HT
		AR-314011AL-HT	EFXE-314011AL-HT
		AR-314014AL-HT	EFXE-314014AL-HT
		AR-314018AL-HT	EFXE-314018AL-HT
		AR-314023AL-HT	EFXE-314023AL-HT
		AR-316011AL-HT	EFXE-316011AL-HT
		AR-316018AL-HT	EFXE-316018AL-HT
		AQ-606020AL-HT	EFXE-606020AL-HT

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Polyester		Aluminium		Stainless steel	
AQ-080806P	EFE-080806	AQ-080806AL	EFXE-080806AL	SB-101210	EFXE-101210SB
AQ-080808P	EFE-080808	AR-081306AL	EFXE-081306AL	SB-151510	EFXE-151510SB
AR-081106P	EFE-081106	AR-081806AL	EFXE-081806AL	SB-142013	EFXE-142013SB
AR-081606P	EFE-081606	AR-081808AL	EFXE-081808AL	SB-202010	EFXE-202010SB
AR-081906P	EFE-081906	AR-082505AL	EFXE-082505AL	SB-202016	EFXE-202016SB
AQ-121209P	EFE-121209	AR-082508AL	EFXE-082508AL	SB-202713	EFXE-202713SB
AR-122209P	EFE-122209	AQ-101008AL	EFXE-101008AL	SB-272713	EFXE-272713SB
AQ-161609P	EFE-161609	AR-101508AL	EFXE-101508AL	SB-203016	EFXE-203016SB
AR-162609P	EFE-162609	AR-101608AL	EFXE-101608AL	SB-273513	EFXE-273513SB
AR-163609P	EFE-163609	AR-102008AL	EFXE-102008AL	SB-282816	EFXE-282816SB
AQ-252612P	EFE-252612	AQ-121208AL	EFXE-121208AL	SB-204016	EFXE-204016SB
AQ-252616P	EFE-252616	AR-122209AL	EFXE-122209AL	SB-353516	EFXE-353516SB
AR-254012P	EFE-254012	AQ-141409AL	EFXE-141409AL	SB-282827	EFXE-282827SB
AR-254016P	EFE-254016	AR-142009AL	EFXE-142009AL	SB-355016	EFXE-355016SB
AR-256012P	EFE-256012	AQ-161609AL	EFXE-161609AL	SB-383816	EFXE-383816SB
AQ-414012P	EFE-414012	AR-162410AL	EFXE-162410AL	SB-384516	EFXE-384516SB
		AR-162609AL	EFXE-162609AL	SB-385716	EFXE-385716SB
		AQ-181810AL	EFXE-181810AL	SB-505016	EFXE-505016SB
		AR-182810AL	EFXE-182810AL	SB-383827	EFXE-383827SB
		AR-202311AL	EFXE-202311AL	SB-575716	EFXE-575716SB
		AR-202318AL	EFXE-202318AL	SB-577620	EFXE-577620SB
		AR-232811AL	EFXE-232811AL	SB-575730	EFXE-575730SB
		AR-233312AL	EFXE-233312AL	SB-769520	EFXE-769520SB
		AR-233318AL	EFXE-233318AL	SB-1258040	EFXE-1258040SB

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Enclosure types (Stainless steel)	
ST-101210	EFXE-101210ST
ST-151510	EFXE-151510ST
ST-142013	EFXE-142013ST
ST-202010	EFXE-202010ST
ST-202016	EFXE-202016ST
ST-202713	EFXE-202713ST
ST-272713	EFXE-272713ST
ST-203016	EFXE-203016ST
ST-273513	EFXE-273513ST
ST-282816	EFXE-282816ST
ST-204016	EFXE-204016ST
ST-353516	EFXE-353516ST
ST-282827	EFXE-282827ST
ST-355016	EFXE-355016ST
ST-383816	EFXE-383816ST
ST-384516	EFXE-384516ST
ST-385716	EFXE-385716ST
ST-505016	EFXE-505016ST
ST-383827	EFXE-383827ST
ST-575716	EFXE-575716ST
ST-577620	EFXE-577620ST
ST-575730	EFXE-575730ST
ST-769520	EFXE-769520ST
ST-1258040	EFXE-1258040ST

Note 2 For stainless steel enclosures: dimensions (2) and (3) can be decreased or increased up to 20%, dimensions (4) can be increased up to 500 mm. Model name changes consequently.

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Power dissipation – HT glass fiber reinforced polyester resin enclosures

Enclosure types (polyester)		Maximum power dissipation (W) – Tamb. up to **40**°C							
		INTERNAL TEMP.60°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)	INTERNAL TEMP.127°C (T4/T135°C)
AQ-080806P-HT	EFE-080806-HT	3,5	5,2	7,0	7,8	9,6	10,4	11,3	15,2
AQ-080808P-HT	EFE-080808-HT	4,6	6,8	9,1	10,2	12,5	13,7	14,8	19,8
AR-081106P-HT	EFE-081106-HT	4,3	6,4	8,5	9,6	11,8	12,8	13,9	18,6
AR-081108P-HT	EFE-081108-HT	5,6	8,4	11,2	12,6	15,3	16,7	18,1	24,2
AR-081606P-HT	EFE-081606-HT	5,8	8,7	11,6	13,0	15,9	17,4	18,8	25.2
AR-081608P-HT	EFE-081608-HT	6,8	10,2	13,7	15,4	18,8	20,5	22,2	29,7
AR-081906P-HT	EFE-081906-HT	6,4	9,6	12,8	14,4	17,6	19,2	20,8	27,8
AR-081908P-HT	EFE-081908-HT	7,5	11,3	15,1	17,0	20,7	22,6	24,5	32,7
AR-082306P-HT	EFE-082306-HT	7,2	10,8	14,4	16,2	19,8	21,6	23,4	31,3
AR-082308P-HT	EFE-082308-HT	8,5	12,7	16,9	19,0	23,3	25,4	27,5	36,7
AQ-121209P-HT	EFE-121209-HT	8,0	12,0	15,9	17,9	21,9	23,9	25,9	34,7
AR-122209P-HT	EFE-122209-HT	10,8	16,2	21,6	24,3	29,7	32,4	35,1	47,0
AQ-161609P-HT	EFE-161609-HT	10,4	15,6	20,8	23,4	28,6	31,2	33,8	45,2
AR-162609P-HT	EFE-162609-HT	13,4	20,1	26,8	30,2	36,9	40,2	43,6	58,3
AR-163609P-HT	EFE-163609-HT	16,2	24,3	32,4	36,5	44,6	48,6	52,7	70,5
AR-165609P-HT	EFE-165609-HT	21,4	32,0	42,7	48,1	58,7	64,1	69,4	92,9
AQ-202017P-HT	EFE-202017-HT	18,0	26,9	35,9	40,4	49,4	53,9	58,4	78,1
AR-203017P-HT	EFE-203017-HT	20,9	31,3	41,7	47,0	57,4	62,6	67,8	90,8
AQ-252612P-HT	EFE-252612-HT	18,8	28,2	37,6	42,4	51,8	56,5	61,2	81,9
AQ-252616P-HT	EFE-252616-HT	20,8	31,1	41,5	46,7	57,1	62,3	67,5	90,3
AR-254012P-HT	EFE-254012-HT	22,8	34,2	45,7	51,4	62,8	68,5	74,2	99,3
AR-254016P-HT	EFE-254016-HT	26,2	39,3	52,4	58,9	72,0	78,6	85,1	113,9
AR-256012P-HT	EFE-256012-HT	29,0	43,6	58,1	65,3	79,9	87,1	94,4	126,3
AR-304020P-HT	EFE-304020-HT	32,3	48,5	64,7	72,7	88,9	97,0	105,1	140,7
AQ-363609P-HT	EFE-363609-HT	23,0	34,6	46,1	51,8	63,4	69,1	74,9	100,2
AR-406025P-HT	EFE-406025-HT	50,3	75,5	100,7	113,3	138,4	151,0	163,6	218,9
AQ-414012P-HT	EFE-414012-HT	29,1	43,7	58,2	65,5	80,1	87,3	94,6	126,6
AQ-414020P-HT	EFE-414020-HT	36,6	55,0	73,3	82,4	100,8	109,9	119,1	159,4

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Enclosure types (polyester)		Maximum power dissipation (W) – Tamb. up to **50**°C							
		INTERNAL TEMP.60°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)	INTERNAL TEMP.127°C (T4/T135°C)
AQ-080806P-HT	EFE-080806-HT	1,7	3,5	5,2	6,1	7,8	8,7	9,6	13,4
AQ-080808P-HT	EFE-080808-HT	2,3	4,6	6,8	8,0	10,2	11,4	12,5	17,5
AR-081106P-HT	EFE-081106-HT	2,1	4,3	6,4	7,5	9,6	10,7	11,8	16,5
AR-081108P-HT	EFE-081108-HT	2,8	5,6	8,4	9,8	12,6	13,9	15,3	21.5
AR-081606P-HT	EFE-081606-HT	2,9	5,8	8,7	10,1	13,0	14,5	15,9	22,3
AR-081608P-HT	EFE-081608-HT	3,4	6,8	10,2	11,9	15,4	17,1	18,8	26,3
AR-081906P-HT	EFE-081906-HT	3,2	6,4	9,6	11,2	14,4	16,0	17,6	24,6
AR-081908P-HT	EFE-081908-HT	3,8	7,5	11,3	13,2	17,0	18,8	20,7	29,0
AR-082306P-HT	EFE-082306-HT	3,6	7,2	10,8	12,6	16,2	18,0	19,8	27,7
AR-082308P-HT	EFE-082308-HT	4,2	8,5	12,7	14,8	19,0	21,1	23,3	32,5
AQ-121209P-HT	EFE-121209-HT	4,0	8,0	12,0	14,0	17,9	19,9	21,9	30,7
AR-122209P-HT	EFE-122209-HT	5,4	10,8	16,2	18,9	24,3	27,0	29,7	41,6
AQ-161609P-HT	EFE-161609-HT	5,2	10,4	15,6	18,2	23,4	26,0	28,6	40,0
AR-162609P-HT	EFE-162609-HT	6,7	13,4	20,1	23,5	30,2	33,5	36,9	51,6
AR-163609P-HT	EFE-163609-HT	8,1	16,2	24,3	28,4	36,5	40,5	44,6	62,3
AR-165609P-HT	EFE-165609-HT	10,7	21,4	32,0	37,4	48,1	53,4	58,7	82,2
AQ-202017P-HT	EFE-202017-HT	9,0	18,0	26,9	31,4	40,4	44,9	49,4	69,1
AR-203017P-HT	EFE-203017-HT	10,4	20,9	31,3	36,5	47,0	52,2	57,4	80,4
AQ-252612P-HT	EFE-252612-HT	9,4	18,8	28,2	32,9	42,4	47,1	51,8	72,5
AQ-252616P-HT	EFE-252616-HT	10,4	20,8	31,1	36,3	46,7	51,9	57,1	79,9
AR-254012P-HT	EFE-254012-HT	11,4	22,8	34,2	39,9	51,4	57,1	62,8	87,9
AR-254016P-HT	EFE-254016-HT	13,1	26,2	39,3	45,8	58,9	65,5	72,0	100,8
AR-256012P-HT	EFE-256012-HT	14,5	29,0	43,6	50,8	65,3	72,6	79,9	111,8
AR-304020P-HT	EFE-304020-HT	16,2	32,3	48,5	56,6	72,7	80,8	88,9	124,4
AQ-363609P-HT	EFE-363609-HT	11,5	23,0	34,6	40,3	51,8	57,6	63,4	88,7
AR-406025P-HT	EFE-406025-HT	25,2	50,3	75,5	88,1	113,3	125,8	138,4	193,8
AQ-414012P-HT	EFE-414012-HT	14,6	29,1	43,7	51,0	65,5	72,8	80,1	112,1
AQ-414020P-HT	EFE-414020-HT	18,3	36,6	55,0	64,1	82,4	91,6	100,8	141,1

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Enclosure types (polyester)		Maximum power dissipation (W) – Tamb. up to **55**°C							
		INTERNAL TEMP.65°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)	INTERNAL TEMP.127°C (T4/T135°C)
AQ-080806P-HT	EFE-080806-HT	1,7	2,6	4,4	5,2	7,0	7,8	8,7	12,5
AQ-080808P-HT	EFE-080808-HT	2,3	3,4	5,7	6,8	9,1	10,2	11,4	16,2
AR-081106P-HT	EFE-081106-HT	2,1	3,2	5,3	6,4	8,5	9,6	10,7	15,2
AR-081108P-HT	EFE-081108-HT	2,8	4,2	7,0	8,4	11,2	12,6	13,9	19,8
AR-081606P-HT	EFE-081606-HT	2,9	4,3	7,2	8,7	11,6	13,0	14,5	20,6
AR-081608P-HT	EFE-081608-HT	3,4	5,1	8,5	10,2	13,7	15,4	17,1	24,3
AR-081906P-HT	EFE-081906-HT	3,2	4,8	8,0	9,6	12,8	14,4	16,0	22,8
AR-081908P-HT	EFE-081908-HT	3,8	5,7	9,4	11,3	15,1	17,0	18,8	26,8
AR-082306P-HT	EFE-082306-HT	3,6	5,4	9,0	10,8	14,4	16,2	18,0	25,6
AR-082308P-HT	EFE-082308-HT	4,2	6,3	10,6	12,7	16,9	19,0	21,1	30,0
AQ-121209P-HT	EFE-121209-HT	4,0	6,0	10,0	12,0	15,9	17,9	19,9	28,3
AR-122209P-HT	EFE-122209-HT	5,4	8,1	13,5	16,2	21,6	24,3	27,0	38,3
AQ-161609P-HT	EFE-161609-HT	5,2	7,8	13,0	15,6	20,8	23,4	26,0	36,9
AR-162609P-HT	EFE-162609-HT	6,7	10,1	16,8	20,1	26,8	30,2	33,5	47,6
AR-163609P-HT	EFE-163609-HT	8,1	12,2	20,3	24,3	32,4	36,5	40,5	57,5
AR-165609P-HT	EFE-165609-HT	10,7	16,0	26,7	32,0	42,7	48,1	53,4	75,8
AQ-202017P-HT	EFE-202017-HT	9,0	13,5	22,4	26,9	35,9	40,4	44,9	63,7
AR-203017P-HT	EFE-203017-HT	10,4	15,7	26,1	31,3	41,7	47,0	52,2	74,0
AQ-252612P-HT	EFE-252612-HT	9,4	14,1	23,5	28,2	37,6	42,4	47,1	66,8
AQ-252616P-HT	EFE-252616-HT	10,4	15,6	26,0	31,1	41,5	46,7	51,9	73,7
AR-254012P-HT	EFE-254012-HT	11,4	17,1	28,5	34,2	45,7	51,4	57,1	81,0
AR-254016P-HT	EFE-254016-HT	13,1	19,6	32,7	39,3	52,4	58,9	65,5	92,9
AR-256012P-HT	EFE-256012-HT	14,5	21,8	36,3	43,6	58,1	65,3	72,6	103,0
AR-304020P-HT	EFE-304020-HT	16,2	24,2	40,4	48,5	64,7	72,7	80,8	114,7
AQ-363609P-HT	EFE-363609-HT	11,5	17,3	28,8	34,6	46,1	51,8	57,6	81,8
AR-406025P-HT	EFE-406025-HT	25,2	37,8	62,9	75,5	100,7	113,3	125,8	178,6
AQ-414012P-HT	EFE-414012-HT	14,6	21,8	36,4	43,7	58,2	65,5	72,8	103,0
AQ-414020P-HT	EFE-414020-HT	18,3	27,5	45,8	55,0	73,3	82,4	91,6	130,0

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Enclosure types (polyester)		Maximum power dissipation (W) – Tamb. up to **60**°C						
		INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)	INTERNAL TEMP.127°C (T4/T135°C)
AQ-080806P-HT	EFE-080806-HT	1,7	3,5	4,4	6,1	7,0	7,8	11,7
AQ-080808P-HT	EFE-080808-HT	2,3	4,6	5,7	8,0	9,1	10,2	15,2
AR-081106P-HT	EFE-081106-HT	2,1	4,3	5,3	7,5	8,5	9,6	14,3
AR-081108P-HT	EFE-081108-HT	2,8	5,6	7,0	9,8	11,2	12,6	18,7
AR-081606P-HT	EFE-081606-HT	2,9	5,8	7,2	10,1	11,6	13,0	19,4
AR-081608P-HT	EFE-081608-HT	3,4	6,8	8,5	11,9	13,7	15,4	22,9
AR-081906P-HT	EFE-081906-HT	3,2	6,4	8,0	11,2	12,8	14,4	21,4
AR-081908P-HT	EFE-081908-HT	3,8	7,5	9,4	13,2	15,1	17,0	25,3
AR-082306P-HT	EFE-082306-HT	3,6	7,2	9,0	12,6	14,4	16,2	24,1
AR-082308P-HT	EFE-082308-HT	4,2	8,5	10,6	14,8	16,9	19,0	28,3
AQ-121209P-HT	EFE-121209-HT	4,0	8,0	10,0	14,0	15,9	17,9	26,7
AR-122209P-HT	EFE-122209-HT	5,4	10,8	13,5	18,9	21,6	24,3	36,2
AQ-161609P-HT	EFE-161609-HT	5,2	10,4	13,0	18,2	20,8	23,4	34,8
AR-162609P-HT	EFE-162609-HT	6,7	13,4	16,8	23,5	26,8	30,2	44,9
AR-163609P-HT	EFE-163609-HT	8,1	16,2	20,3	28,4	32,4	36,5	54,2
AR-165609P-HT	EFE-165609-HT	10,7	21,4	26,7	37,4	42,7	48,1	71,5
AQ-202017P-HT	EFE-202017-HT	9,0	18,0	22,4	31,4	35,9	40,4	60,1
AR-203017P-HT	EFE-203017-HT	10,4	20,9	26,1	36,5	41,7	47,0	69,9
AQ-252612P-HT	EFE-252612-HT	9,4	18,8	23,5	32,9	37,6	42,4	63,0
AQ-252616P-HT	EFE-252616-HT	10,4	20,8	26,0	36,3	41,5	46,7	69,5
AR-254012P-HT	EFE-254012-HT	11,4	22,8	28,5	39,9	45,7	51,4	76,5
AR-254016P-HT	EFE-254016-HT	13,1	26,2	32,7	45,8	52,4	58,9	87,7
AR-256012P-HT	EFE-256012-HT	14,5	29,0	36,3	50,8	58,1	65,3	97,2
AR-304020P-HT	EFE-304020-HT	16,2	32,3	40,4	56,6	64,7	72,7	108,3
AQ-363609P-HT	EFE-363609-HT	11,5	23,0	28,8	40,3	46,1	51,8	77,1
AR-406025P-HT	EFE-406025-HT	25,2	50,3	62,9	88,1	100,7	113,3	168,7
AQ-414012P-HT	EFE-414012-HT	14,6	29,1	36,4	51,0	58,2	65,5	97,5
AQ-414020P-HT	EFE-414020-HT	18,3	36,6	45,8	64,1	73,3	82,4	122,7

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Enclosure types (polyester)		Maximum power dissipation (W) Tamb. up to **95**°C		
		INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)	INTERNAL TEMP.127°C (T4/T135°C)
AQ-080806P-HT	EFE-080806-HT	0,9	1,7	5,6
AQ-080808P-HT	EFE-080808-HT	1,1	2,3	7,3
AR-081106P-HT	EFE-081106-HT	1,1	2,1	6,5
AR-081108P-HT	EFE-081108-HT	1,4	2,8	9,0
AR-081606P-HT	EFE-081606-HT	1,4	2,9	9,2
AR-081608P-HT	EFE-081608-HT	1,7	3,4	10,9
AR-081906P-HT	EFE-081906-HT	1,6	3,2	10,2
AR-081908P-HT	EFE-081908-HT	1,9	3,8	12,1
AR-082306P-HT	EFE-082306-HT	1,8	3,6	11,5
AR-082308P-HT	EFE-082308-HT	2,1	4,2	13,5
AQ-121209P-HT	EFE-121209-HT	2,0	4,0	12,8
AR-122209P-HT	EFE-122209-HT	2,7	5,4	17,3
AQ-161609P-HT	EFE-161609-HT	2,6	5,2	16,6
AR-162609P-HT	EFE-162609-HT	3,4	6,7	21,5
AR-163609P-HT	EFE-163609-HT	4,1	8,1	26,0
AR-165609P-HT	EFE-165609-HT	5,3	10,7	34,2
AQ-202017P-HT	EFE-202017-HT	4,5	9,0	28,7
AR-203017P-HT	EFE-203017-HT	5,2	10,4	33,4
AQ-252612P-HT	EFE-252612-HT	4,7	9,4	30,1
AQ-252616P-HT	EFE-252616-HT	5,2	10,4	33,2
AR-254012P-HT	EFE-254012-HT	5,7	11,4	36,5
AR-254016P-HT	EFE-254016-HT	6,5	13,1	41,9
AR-256012P-HT	EFE-256012-HT	7,3	14,5	46,4
AR-304020P-HT	EFE-304020-HT	8,1	16,2	51,8
AQ-363609P-HT	EFE-363609-HT	5,8	11,5	36,8
AR-406025P-HT	EFE-406025-HT	12,6	25,2	80,6
AQ-414012P-HT	EFE-414012-HT	7,3	14,6	46,6
AQ-414020P-HT	EFE-414020-HT	9,2	18,3	58,6

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Power dissipation – HT aluminum alloy enclosures

Enclosure types (aluminium)		Maximum power dissipation (W) – Tamb. up to **40**°C							
		INTERNAL TEMP.60°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)	INTERNAL TEMP.130°C (T4/T135°C)
AQ-080806AL-HT	EFXE-080806AL-HT	5,2	7,8	10,4	11,7	14,3	15,6	16,9	23,4
AR-081306AL-HT	EFXE-081306AL-HT	7,0	10,6	14,1	15,9	19,4	21,2	23,0	31,8
AR-081806AL-HT	EFXE-081806AL-HT	8,9	13,3	17,8	20,0	24,5	26,7	28,9	40,0
AR-082505AL-HT	EFXE-082505AL-HT	10,9	16,4	21,9	24,7	30,1	32,9	35,6	49,4
AQ-101008AL-HT	EFXE-101008AL-HT	8,7	13,0	17,4	19,6	23,9	26,1	28,3	39,2
AR-101608AL-HT	EFXE-101608AL-HT	11,5	17,3	23,1	26,0	31,8	34,7	37,6	52,0
AR-102008AL-HT	EFXE-102008AL-HT	13,4	20,1	26,8	30,2	36,9	40,3	43,6	60,4
AQ-121208AL-HT	EFXE-121208AL-HT	10,8	16,2	21,6	24,3	29,7	32,4	35,1	48,6
AQ-121209AL-HT	EFXE-121209AL-HT	11,6	17,5	23,3	26,2	32,1	35,0	37,9	52,5
AR-122208AL-HT	EFXE-122208AL-HT	15,6	23,5	31,3	35,3	43,1	47,0	50,9	70,6
AR-122209AL-HT	EFXE-122209AL-HT	16,8	25,3	33,7	37,9	46,3	50,6	54,8	75,9
AR-123608AL-HT	EFXE-123608AL-HT	22,3	33,5	44,7	50,3	61,5	67,1	72,7	100,7
AQ-141409AL-HT	EFXE-141409AL-HT	13,7	20,6	27,5	31,0	37,9	41,3	44,8	62,0
AR-142009AL-HT	EFXE-142009AL-HT	17,1	25,7	34,2	38,5	47,1	51,4	55,7	77,1
AQ-161609AL-HT	EFXE-161609AL-HT	16,1	24,1	32,2	36,2	44,2	48,3	52,3	72,4
AR-162609AL-HT	EFXE-162609AL-HT	21,9	32,8	43,8	49,3	60,2	65,7	71,2	98,6
AR-163609AL-HT	EFXE-163609AL-HT	27,5	41,3	55,1	62,0	75,7	82,6	89,5	124,0
AR-165609AL-HT	EFXE-165609AL-HT	38,4	57,7	76,9	86,6	105,8	115,4	125,0	173,2
AQ-181810AL-HT	EFXE-181810AL-HT	19,7	29,6	39,5	44,4	54,3	59,2	64,2	88,8
AR-182810AL-HT	EFXE-182810AL-HT	26,1	39,1	52,2	58,7	71,8	78,3	84,8	117,5
AR-102311AL-HT	EFXE-102311AL-HT	18,2	27,3	36,5	41,0	50,1	54,7	59,3	82,1
AR-202311AL-HT	EFXE-202311AL-HT	26,1	39,1	52,2	58,7	71,7	78,3	84,8	117,4
AR-202318AL-HT	EFXE-202318AL-HT	35,9	53,9	71,8	80,8	98,8	107,8	116,8	161,7
AR-232811AL-HT	EFXE-232811AL-HT	31,6	47,5	63,3	71,3	87,1	95,0	103,0	142,6
AR-233311AL-HT	EFXE-233311AL-HT	35,3	52,9	70,6	79,4	97,0	105,9	114,7	158,8
AR-233318AL-HT	EFXE-233318AL-HT	47,5	71,3	95,1	107,0	130,8	142,7	154,6	214,1
AR-234011AL-HT	EFXE-234011AL-HT	40,2	60,4	80,5	90,6	110,7	120,8	130,9	181,2
AR-234023AL-HT	EFXE-234023AL-HT	62,2	93,3	124,5	140,0	171,2	186,7	202,3	280,1
AR-236011AL-HT	EFXE-236011AL-HT	54,1	81,2	108,3	121,9	148,9	162,5	176,0	243,8
AR-314011AL-HT	EFXE-314011AL-HT	48,6	72,9	97,2	109,3	133,6	145,8	157,9	218,7
AR-314014AL-HT	EFXE-314014AL-HT	54,9	82,4	109,9	123,7	151,2	164,9	178,7	247,4
AR-314018AL-HT	EFXE-314018AL-HT	63,8	95,7	127,6	143,5	175,4	191,4	207,3	287,1
AR-314023AL-HT	EFXE-314023AL-HT	73,5	110,3	147,1	165,5	202,3	220,7	239,1	331,0
AR-316011AL-HT	EFXE-316011AL-HT	64,0	96,0	128,1	144,1	176,1	192,1	208,1	288,2
AR-316018AL-HT	EFXE-316018AL-HT	82,7	124,1	165,5	186,2	227,6	248,3	268,9	372,4
AQ-606020AL-HT	EFXE-606020AL-HT	129,1	193,7	258,3	290,5	355,1	387,4	419,7	581,1

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Enclosure types (aluminium)		Maximum power dissipation (W) – Tamb. up to **50**°C							
		INTERNAL TEMP.60°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)	INTERNAL TEMP.130°C (T4/T135°C)
AQ-080806AL-HT	EFXE-080806AL-HT	2,6	5,2	7,8	9,1	11,7	13,0	14,3	20,8
AR-081306AL-HT	EFXE-081306AL-HT	3,5	7,0	10,6	12,3	15,9	17,7	19,4	28,3
AR-081806AL-HT	EFXE-081806AL-HT	4,4	8,9	13,3	15,5	20,0	22,2	24,5	35,6
AR-082505AL-HT	EFXE-082505AL-HT	5,4	10,9	16,4	19,2	24,7	27,4	30,1	43,9
AQ-101008AL-HT	EFXE-101008AL-HT	4,3	8,7	13,0	15,2	19,6	21,7	23,9	34,8
AR-101608AL-HT	EFXE-101608AL-HT	5,7	11,5	17,3	20,2	26,0	28,9	31,8	46,2
AR-102008AL-HT	EFXE-102008AL-HT	6,7	13,4	20,1	23,5	30,2	33,5	36,9	53,7
AQ-121208AL-HT	EFXE-121208AL-HT	5,4	10,8	16,2	18,9	24,3	27,0	29,7	43,2
AQ-121209AL-HT	EFXE-121209AL-HT	5,8	11,6	17,5	20,4	26,2	29,2	32,1	46,7
AR-122208AL-HT	EFXE-122208AL-HT	7,8	15,6	23,5	27,4	35,3	39,2	43,1	62,7
AR-122209AL-HT	EFXE-122209AL-HT	8,4	16,8	25,3	29,5	37,9	42,1	46,3	67,4
AR-123608AL-HT	EFXE-123608AL-HT	11,1	22,3	33,5	39,1	50,3	55,9	61,5	89,5
AQ-141409AL-HT	EFXE-141409AL-HT	6,8	13,7	20,6	24,1	31,0	34,4	37,9	55,1
AR-142009AL-HT	EFXE-142009AL-HT	8,5	17,1	25,7	30,0	38,5	42,8	47,1	68,5
AQ-161609AL-HT	EFXE-161609AL-HT	8,0	16,1	24,1	28,1	36,2	40,2	44,2	64,4
AR-162609AL-HT	EFXE-162609AL-HT	10,9	21,9	32,8	38,3	49,3	54,8	60,2	87,6
AR-163609AL-HT	EFXE-163609AL-HT	13,7	27,5	41,3	48,2	62,0	68,9	75,7	110,2
AR-165609AL-HT	EFXE-165609AL-HT	19,2	38,4	57,7	67,3	86,6	96,2	105,8	153,9
AQ-181810AL-HT	EFXE-181810AL-HT	9,8	19,7	29,6	34,5	44,4	49,3	54,3	79,0
AR-182810AL-HT	EFXE-182810AL-HT	13,0	26,1	39,1	45,7	58,7	65,2	71,8	104,4
AR-102311AL-HT	EFXE-102311AL-HT	9,1	18,2	27,3	31,9	41,0	45,6	50,1	73,0
AR-202311AL-HT	EFXE-202311AL-HT	13,0	26,1	39,1	45,6	58,7	65,2	71,7	104,4
AR-202318AL-HT	EFXE-202318AL-HT	17,9	35,9	53,9	62,8	80,8	89,8	98,8	143,7
AR-232811AL-HT	EFXE-232811AL-HT	15,8	31,6	47,5	55,4	71,3	79,2	87,1	126,7
AR-233311AL-HT	EFXE-233311AL-HT	17,6	35,3	52,9	61,7	79,4	88,2	97,0	141,2
AR-233318AL-HT	EFXE-233318AL-HT	23,7	47,5	71,3	83,2	107,0	118,9	130,8	190,3
AR-234011AL-HT	EFXE-234011AL-HT	20,1	40,2	60,4	70,5	90,6	100,7	110,7	161,1
AR-234023AL-HT	EFXE-234023AL-HT	31,1	62,2	93,3	108,9	140,0	155,6	171,2	249,0
AR-236011AL-HT	EFXE-236011AL-HT	27,0	54,1	81,2	94,8	121,9	135,4	148,9	216,7
AR-314011AL-HT	EFXE-314011AL-HT	24,3	48,6	72,9	85,0	109,3	121,5	133,6	194,4
AR-314014AL-HT	EFXE-314014AL-HT	27,4	54,9	82,4	96,2	123,7	137,4	151,2	219,9
AR-314018AL-HT	EFXE-314018AL-HT	31,9	63,8	95,7	111,6	143,5	159,5	175,4	255,2
AR-314023AL-HT	EFXE-314023AL-HT	36,7	73,5	110,3	128,7	165,5	183,9	202,3	294,2
AR-316011AL-HT	EFXE-316011AL-HT	32,0	64,0	96,0	112,0	144,1	160,1	176,1	256,2
AR-316018AL-HT	EFXE-316018AL-HT	41,3	82,7	124,1	144,8	186,2	206,9	227,6	331,0
AQ-606020AL-HT	EFXE-606020AL-HT	64,5	129,1	193,7	226,0	290,5	322,8	355,1	516,6

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Enclosure types (aluminium)		Maximum power dissipation (W) – Tamb. up to **55**°C							
		INTERNAL TEMP.65°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)	INTERNAL TEMP.130°C (T4/T135°C)
AQ-080806AL-HT	EFXE-080806AL-HT	2,6	3,9	6,5	7,8	10,4	11,7	13,0	19,5
AR-081306AL-HT	EFXE-081306AL-HT	3,5	5,3	8,8	10,6	14,1	15,9	17,7	26,5
AR-081806AL-HT	EFXE-081806AL-HT	4,4	6,6	11,1	13,3	17,8	20,0	22,2	33,4
AR-082505AL-HT	EFXE-082505AL-HT	5,4	8,2	13,7	16,4	21,9	24,7	27,4	41,1
AQ-101008AL-HT	EFXE-101008AL-HT	4,3	6,5	10,8	13,0	17,4	19,6	21,7	32,6
AR-101608AL-HT	EFXE-101608AL-HT	5,7	8,6	14,4	17,3	23,1	26,0	28,9	43,3
AR-102008AL-HT	EFXE-102008AL-HT	6,7	10,0	16,7	20,1	26,8	30,2	33,5	50,3
AQ-121208AL-HT	EFXE-121208AL-HT	5,4	8,1	13,5	16,2	21,6	24,3	27,0	40,5
AQ-121209AL-HT	EFXE-121209AL-HT	5,8	8,7	14,6	17,5	23,3	26,2	29,2	43,8
AR-122208AL-HT	EFXE-122208AL-HT	7,8	11,7	19,6	23,5	31,3	35,3	39,2	58,8
AR-122209AL-HT	EFXE-122209AL-HT	8,4	12,6	21,0	25,3	33,7	37,9	42,1	63,2
AR-123608AL-HT	EFXE-123608AL-HT	11,1	16,7	27,9	33,5	44,7	50,3	55,9	83,9
AQ-141409AL-HT	EFXE-141409AL-HT	6,8	10,3	17,2	20,6	27,5	31,0	34,4	51,7
AR-142009AL-HT	EFXE-142009AL-HT	8,5	12,8	21,4	25,7	34,2	38,5	42,8	64,3
AQ-161609AL-HT	EFXE-161609AL-HT	8,0	12,0	20,1	24,1	32,2	36,2	40,2	60,4
AR-162609AL-HT	EFXE-162609AL-HT	10,9	16,4	27,4	32,8	43,8	49,3	54,8	82,2
AR-163609AL-HT	EFXE-163609AL-HT	13,7	20,6	34,4	41,3	55,1	62,0	68,9	103,3
AR-165609AL-HT	EFXE-165609AL-HT	19,2	28,8	48,1	57,7	76,9	86,6	96,2	144,3
AQ-181810AL-HT	EFXE-181810AL-HT	9,8	14,8	24,6	29,6	39,5	44,4	49,3	74,0
AR-182810AL-HT	EFXE-182810AL-HT	13,0	19,5	32,6	39,1	52,2	58,7	65,2	97,9
AR-102311AL-HT	EFXE-102311AL-HT	9,1	13,6	22,8	27,3	36,5	41,0	45,6	68,4
AR-202311AL-HT	EFXE-202311AL-HT	13,0	19,5	32,6	39,1	52,2	58,7	65,2	97,9
AR-202318AL-HT	EFXE-202318AL-HT	17,9	26,9	44,9	53,9	71,8	80,8	89,8	134,7
AR-232811AL-HT	EFXE-232811AL-HT	15,8	23,7	39,6	47,5	63,3	71,3	79,2	118,8
AR-233311AL-HT	EFXE-233311AL-HT	17,6	26,4	44,1	52,9	70,6	79,4	88,2	132,3
AR-233318AL-HT	EFXE-233318AL-HT	23,7	35,6	59,4	71,3	95,1	107,0	118,9	178,4
AR-234011AL-HT	EFXE-234011AL-HT	20,1	30,2	50,3	60,4	80,5	90,6	100,7	151,0
AR-234023AL-HT	EFXE-234023AL-HT	31,1	46,6	77,8	93,3	124,5	140,0	155,6	233,4
AR-236011AL-HT	EFXE-236011AL-HT	27,0	40,6	67,7	81,2	108,3	121,9	135,4	203,1
AR-314011AL-HT	EFXE-314011AL-HT	24,3	36,4	60,7	72,9	97,2	109,3	121,5	182,3
AR-314014AL-HT	EFXE-314014AL-HT	27,4	41,2	68,7	82,4	109,9	123,7	137,4	206,2
AR-314018AL-HT	EFXE-314018AL-HT	31,9	47,8	79,7	95,7	127,6	143,5	159,5	239,2
AR-314023AL-HT	EFXE-314023AL-HT	36,7	55,1	91,9	110,3	147,1	165,5	183,9	275,8
AR-316011AL-HT	EFXE-316011AL-HT	32,0	48,0	80,0	96,0	128,1	144,1	160,1	240,1
AR-316018AL-HT	EFXE-316018AL-HT	41,3	62,0	103,4	124,1	165,5	186,2	206,9	310,3
AQ-606020AL-HT	EFXE-606020AL-HT	64,5	96,8	161,4	193,7	258,3	290,5	322,8	484,3

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Enclosure types (aluminium)		Maximum power dissipation (W) – Tamb. up to **60**°C						
		INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)	INTERNAL TEMP.130°C (T4/T135°C)
AQ-080806AL-HT	EFXE-080806AL-HT	2,6	5,2	6,5	9,1	10,4	11,7	18,2
AR-081306AL-HT	EFXE-081306AL-HT	3,5	7,0	8,8	12,3	14,1	15,9	24,7
AR-081806AL-HT	EFXE-081806AL-HT	4,4	8,9	11,1	15,5	17,8	20,0	31,1
AR-082505AL-HT	EFXE-082505AL-HT	5,4	10,9	13,7	19,2	21,9	24,7	38,4
AQ-101008AL-HT	EFXE-101008AL-HT	4,3	8,7	10,8	15,2	17,4	19,6	30,4
AR-101608AL-HT	EFXE-101608AL-HT	5,7	11,5	14,4	20,2	23,1	26,0	40,5
AR-102008AL-HT	EFXE-102008AL-HT	6,7	13,4	16,7	23,5	26,8	30,2	47,0
AQ-121208AL-HT	EFXE-121208AL-HT	5,4	10,8	13,5	18,9	21,6	24,3	37,8
AQ-121209AL-HT	EFXE-121209AL-HT	5,8	11,6	14,6	20,4	23,3	26,2	40,8
AR-122208AL-HT	EFXE-122208AL-HT	7,8	15,6	19,6	27,4	31,3	35,3	54,9
AR-122209AL-HT	EFXE-122209AL-HT	8,4	16,8	21,0	29,5	33,7	37,9	59,0
AR-123608AL-HT	EFXE-123608AL-HT	11,1	22,3	27,9	39,1	44,7	50,3	78,3
AQ-141409AL-HT	EFXE-141409AL-HT	6,8	13,7	17,2	24,1	27,5	31,0	48,2
AR-142009AL-HT	EFXE-142009AL-HT	8,5	17,1	21,4	30,0	34,2	38,5	60,0
AQ-161609AL-HT	EFXE-161609AL-HT	8,0	16,1	20,1	28,1	32,2	36,2	56,3
AR-162609AL-HT	EFXE-162609AL-HT	10,9	21,9	27,4	38,3	43,8	49,3	76,7
AR-163609AL-HT	EFXE-163609AL-HT	13,7	27,5	34,4	48,2	55,1	62,0	96,4
AR-165609AL-HT	EFXE-165609AL-HT	19,2	38,4	48,1	67,3	76,9	86,6	134,7
AQ-181810AL-HT	EFXE-181810AL-HT	9,8	19,7	24,6	34,5	39,5	44,4	69,1
AR-182810AL-HT	EFXE-182810AL-HT	13,0	26,1	32,6	45,7	52,2	58,7	91,4
AR-102311AL-HT	EFXE-102311AL-HT	9,1	18,2	22,8	31,9	36,5	41,0	63,8
AR-202311AL-HT	EFXE-202311AL-HT	13,0	26,1	32,6	45,6	52,2	58,7	91,3
AR-202318AL-HT	EFXE-202318AL-HT	17,9	35,9	44,9	62,8	71,8	80,8	125,7
AR-232811AL-HT	EFXE-232811AL-HT	15,8	31,6	39,6	55,4	63,3	71,3	110,9
AR-233311AL-HT	EFXE-233311AL-HT	17,6	35,3	44,1	61,7	70,6	79,4	123,5
AR-233318AL-HT	EFXE-233318AL-HT	23,7	47,5	59,4	83,2	95,1	107,0	166,5
AR-234011AL-HT	EFXE-234011AL-HT	20,1	40,2	50,3	70,5	80,5	90,6	141,0
AR-234023AL-HT	EFXE-234023AL-HT	31,1	62,2	77,8	108,9	124,5	140,0	217,9
AR-236011AL-HT	EFXE-236011AL-HT	27,0	54,1	67,7	94,8	108,3	121,9	189,6
AR-314011AL-HT	EFXE-314011AL-HT	24,3	48,6	60,7	85,0	97,2	109,3	170,1
AR-314014AL-HT	EFXE-314014AL-HT	27,4	54,9	68,7	96,2	109,9	123,7	192,4
AR-314018AL-HT	EFXE-314018AL-HT	31,9	63,8	79,7	111,6	127,6	143,5	223,3
AR-314023AL-HT	EFXE-314023AL-HT	36,7	73,5	91,9	128,7	147,1	165,5	257,4
AR-316011AL-HT	EFXE-316011AL-HT	32,0	64,0	80,0	112,0	128,1	144,1	224,1
AR-316018AL-HT	EFXE-316018AL-HT	41,3	82,7	103,4	144,8	165,5	186,2	289,6
AQ-606020AL-HT	EFXE-606020AL-HT	64,5	129,1	161,4	226,0	258,3	290,5	452,0

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Enclosure types (aluminium)		Maximum power dissipation (W) Tamb. up to **95**°C		
		INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)	INTERNAL TEMP.130°C (T4/T135°C)
AQ-080806AL-HT	EFXE-080806AL-HT	1,3	2,6	9,1
AR-081306AL-HT	EFXE-081306AL-HT	1,7	3,5	12,3
AR-081806AL-HT	EFXE-081806AL-HT	2,2	4,4	15,5
AR-082505AL-HT	EFXE-082505AL-HT	2,7	5,4	19,2
AQ-101008AL-HT	EFXE-101008AL-HT	2,1	4,3	15,2
AR-101608AL-HT	EFXE-101608AL-HT	2,8	5,7	20,2
AR-102008AL-HT	EFXE-102008AL-HT	3,3	6,7	23,5
AQ-121208AL-HT	EFXE-121208AL-HT	2,7	5,4	18,9
AQ-121209AL-HT	EFXE-121209AL-HT	2,9	5,8	20,4
AR-122208AL-HT	EFXE-122208AL-HT	3,9	7,8	27,4
AR-122209AL-HT	EFXE-122209AL-HT	4,2	8,4	29,5
AR-123608AL-HT	EFXE-123608AL-HT	5,5	11,1	39,1
AQ-141409AL-HT	EFXE-141409AL-HT	3,4	6,8	24,1
AR-142009AL-HT	EFXE-142009AL-HT	4,2	8,5	30,0
AQ-161609AL-HT	EFXE-161609AL-HT	4,0	8,0	28,1
AR-162609AL-HT	EFXE-162609AL-HT	5,4	10,9	38,3
AR-163609AL-HT	EFXE-163609AL-HT	6,8	13,7	48,2
AR-165609AL-HT	EFXE-165609AL-HT	9,6	19,2	67,3
AQ-181810AL-HT	EFXE-181810AL-HT	4,9	9,8	34,5
AR-182810AL-HT	EFXE-182810AL-HT	6,5	13,0	45,7
AR-102311AL-HT	EFXE-102311AL-HT	4,5	9,1	31,9
AR-202311AL-HT	EFXE-202311AL-HT	6,5	13,0	45,6
AR-202318AL-HT	EFXE-202318AL-HT	8,9	17,9	62,8
AR-232811AL-HT	EFXE-232811AL-HT	7,9	15,8	55,4
AR-233311AL-HT	EFXE-233311AL-HT	8,8	17,6	61,7
AR-233318AL-HT	EFXE-233318AL-HT	11,8	23,7	83,2
AR-234011AL-HT	EFXE-234011AL-HT	10,0	20,1	70,5
AR-234023AL-HT	EFXE-234023AL-HT	15,5	31,1	108,9
AR-236011AL-HT	EFXE-236011AL-HT	13,5	27,0	94,8
AR-314011AL-HT	EFXE-314011AL-HT	12,1	24,3	85,0
AR-314014AL-HT	EFXE-314014AL-HT	13,7	27,4	96,2
AR-314018AL-HT	EFXE-314018AL-HT	15,9	31,9	111,6
AR-314023AL-HT	EFXE-314023AL-HT	18,3	36,7	128,7
AR-316011AL-HT	EFXE-316011AL-HT	16,0	32,0	112,0
AR-316018AL-HT	EFXE-316018AL-HT	20,6	41,3	144,8
AQ-606020AL-HT	EFXE-606020AL-HT	32,2	64,5	226,0

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Power dissipation – Glass fiber reinforced polyester resin enclosures

Enclosure types (polyester)		Maximum power dissipation (W) – Tamb. up to **40**°C						
		INTERNAL TEMP.60°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
AQ-080806P	EFE-080806	3,4	5,2	6,9	7,8	9,5	10,4	11,3
AQ-080808P	EFE-080808	4,5	6,8	9,1	10,2	12,5	13,6	14,7
AR-081106P	EFE-081106	4,2	6,4	8,5	9,6	11,7	12,8	13,8
AR-081606P	EFE-081606	5,7	8,6	11,5	13,0	15,9	17,3	18,8
AR-081906P	EFE-081906	6,4	9,6	12,8	14,4	17,6	19,2	20,8
AQ-121209P	EFE-121209	7,9	11,9	15,9	17,9	21,9	23,9	25,9
AR-122209P	EFE-122209	10,8	16,2	21,6	24,3	29,7	32,4	35,1
AQ-161609P	EFE-161609	10,3	15,5	20,7	23,3	28,5	31,1	33,7
AR-162609P	EFE-162609	13,4	20,1	26,8	30,1	36,8	40,2	43,5
AR-163609P	EFE-163609	16,2	24,3	32,4	36,4	44,5	48,6	52,6
AQ-252612P	EFE-252612	18,8	28,2	37,6	42,3	51,7	56,4	61,1
AQ-252616P	EFE-252616	21,7	32,6	43,5	49,0	59,9	65,3	70,8
AR-254012P	EFE-254012	23,9	35,9	47,9	53,9	65,9	71,8	77,8
AR-254016P	EFE-254016	27,4	41,2	54,9	61,8	75,6	82,4	89,3
AR-256012P	EFE-256012	29,0	43,5	58,0	65,3	79,8	87,1	94,3
AQ-414012P	EFE-414012	29,1	43,6	58,2	65,5	80,0	87,3	94,6
AQ-414016P	EFE-414016	32,9	49,4	65,9	74,1	90,6	98,8	107,0

Enclosure types (polyester)		Maximum power dissipation (W) – Tamb. up to **50**°C						
		INTERNAL TEMP.60°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
AQ-080806P	EFE-080806	1,7	3,4	5,2	6,0	7,8	8,7	9,5
AQ-080808P	EFE-080808	2,2	4,5	6,8	7,9	10,2	11,3	12,5
AR-081106P	EFE-081106	2,1	4,2	6,4	7,4	9,6	10,6	11,7
AR-081606P	EFE-081606	2,8	5,7	8,6	10,1	13,0	14,4	15,9
AR-081906P	EFE-081906	3,2	6,4	9,6	11,2	14,4	16,0	17,6
AQ-121209P	EFE-121209	3,9	7,9	11,9	13,9	17,9	19,9	21,9
AR-122209P	EFE-122209	5,4	10,8	16,2	18,9	24,3	27,0	29,7
AQ-161609P	EFE-161609	5,1	10,3	15,5	18,1	23,3	25,9	28,5
AR-162609P	EFE-162609	6,7	13,4	20,1	23,4	30,1	33,5	36,8
AR-163609P	EFE-163609	8,1	16,2	24,3	28,3	36,4	40,5	44,5
AQ-252612P	EFE-252612	9,4	18,8	28,2	32,9	42,3	47,0	51,7
AQ-252616P	EFE-252616	10,8	21,7	32,6	38,1	49,0	54,4	59,9
AR-254012P	EFE-254012	11,9	23,9	35,9	41,9	53,9	59,9	65,9
AR-254016P	EFE-254016	13,7	27,4	41,2	48,1	61,8	68,7	75,6
AR-256012P	EFE-256012	14,5	29,0	43,5	50,8	65,3	72,6	79,8
AQ-414012P	EFE-414012	14,5	29,1	43,6	50,9	65,5	72,7	80,0
AQ-414016P	EFE-414016	16,4	32,9	49,4	57,6	74,1	82,3	90,6

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Enclosure types (polyester)		Maximum power dissipation (W) – Tamb. up to **55**°C						
		INTERNAL TEMP.65°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
AQ-080806P	EFE-080806	1,7	2,6	4,3	5,2	6,9	7,8	8,7
AQ-080808P	EFE-080808	2,2	3,4	5,6	6,8	9,1	10,2	11,3
AR-081106P	EFE-081106	2,1	3,2	5,3	6,4	8,5	9,6	10,6
AR-081606P	EFE-081606	2,8	4,3	7,2	8,6	11,5	13,0	14,4
AR-081906P	EFE-081906	3,2	4,8	8,0	9,6	12,8	14,4	16,0
AQ-121209P	EFE-121209	3,9	5,9	9,9	11,9	15,9	17,9	19,9
AR-122209P	EFE-122209	5,4	8,1	13,5	16,2	21,6	24,3	27,0
AQ-161609P	EFE-161609	5,1	7,7	12,9	15,5	20,7	23,3	25,9
AR-162609P	EFE-162609	6,7	10,0	16,7	20,1	26,8	30,1	33,5
AR-163609P	EFE-163609	8,1	12,1	20,2	24,3	32,4	36,4	40,5
AQ-252612P	EFE-252612	9,4	14,1	23,5	28,2	37,6	42,3	47,0
AQ-252616P	EFE-252616	10,8	16,3	27,2	32,6	43,5	49,0	54,4
AR-254012P	EFE-254012	11,9	17,9	29,9	35,9	47,9	53,9	59,9
AR-254016P	EFE-254016	13,7	20,6	34,3	41,2	54,9	61,8	68,7
AR-256012P	EFE-256012	14,5	21,7	36,3	43,5	58,0	65,3	72,6
AQ-414012P	EFE-414012	14,5	21,8	36,3	43,6	58,2	65,5	72,7
AQ-414016P	EFE-414016	16,4	24,7	41,1	49,4	65,9	74,1	82,3

Enclosure types (polyester)		Maximum power dissipation (W) – Tamb. up to **60**°C					
		INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
AQ-080806P	EFE-080806	1,7	3,4	4,3	6,0	6,9	7,8
AQ-080808P	EFE-080808	2,2	4,5	5,6	7,9	9,1	10,2
AR-081106P	EFE-081106	2,1	4,2	5,3	7,4	8,5	9,6
AR-081606P	EFE-081606	2,8	5,7	7,2	10,1	11,5	13,0
AR-081906P	EFE-081906	3,2	6,4	8,0	11,2	12,8	14,4
AQ-121209P	EFE-121209	3,9	7,9	9,9	13,9	15,9	17,9
AR-122209P	EFE-122209	5,4	10,8	13,5	18,9	21,6	24,3
AQ-161609P	EFE-161609	5,1	10,3	12,9	18,1	20,7	23,3
AR-162609P	EFE-162609	6,7	13,4	16,7	23,4	26,8	30,1
AR-163609P	EFE-163609	8,1	16,2	20,2	28,3	32,4	36,4
AQ-252612P	EFE-252612	9,4	18,8	23,5	32,9	37,6	42,3
AQ-252616P	EFE-252616	10,8	21,7	27,2	38,1	43,5	49,0
AR-254012P	EFE-254012	11,9	23,9	29,9	41,9	47,9	53,9
AR-254016P	EFE-254016	13,7	27,4	34,3	48,1	54,9	61,8
AR-256012P	EFE-256012	14,5	29,0	36,3	50,8	58,0	65,3
AQ-414012P	EFE-414012	14,5	29,1	36,3	50,9	58,2	65,5
AQ-414016P	EFE-414016	16,4	32,9	41,1	57,6	65,9	74,1

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Enclosure types (polyester)		Maximum power dissipation (W) – Tamb. up to **95**°C	
		INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
AQ-080806P	EFE-080806	0,8	1,7
AQ-080808P	EFE-080808	1,1	2,2
AR-081106P	EFE-081106	1,0	2,1
AR-081606P	EFE-081606	1,4	2,8
AR-081906P	EFE-081906	1,6	3,2
AQ-121209P	EFE-121209	1,9	3,9
AR-122209P	EFE-122209	2,7	5,4
AQ-161609P	EFE-161609	2,5	5,1
AR-162609P	EFE-162609	3,3	6,7
AR-163609P	EFE-163609	4,0	8,1
AQ-252612P	EFE-252612	4,7	9,4
AQ-252616P	EFE-252616	5,4	10,8
AR-254012P	EFE-254012	5,9	11,9
AR-254016P	EFE-254016	6,8	13,7
AR-256012P	EFE-256012	7,2	14,5
AQ-414012P	EFE-414012	7,2	14,5
AQ-414016P	EFE-414016	8,2	16,4

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Power dissipation – Aluminum alloy enclosures

Enclosure types (aluminium)		Maximum power dissipation (W) – Tamb. up to **40**°C						
		INTERNAL TEMP.60°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
AQ-080806AL	EFXE-080806AL	5,2	7,8	10,4	11,7	14,3	15,6	16,9
AR-081306AL	EFXE-081306AL	7,0	10,6	14,1	15,9	19,4	21,2	23,0
AR-081806AL	EFXE-081806AL	8,9	13,3	17,8	20,0	24,5	26,7	28,9
AR-081808AL	EFXE-081808AL	11,0	16,5	22,1	24,8	30,4	33,1	35,9
AR-082505AL	EFXE-082505AL	10,7	16,1	21,4	24,1	29,5	32,2	34,8
AR-082508AL	EFXE-082508AL	14,2	21,4	28,5	32,1	39,2	42,8	46,4
AQ-101008AL	EFXE-101008AL	8,7	13,0	17,4	19,6	23,9	26,1	28,3
AR-101508AL	EFXE-101508AL	11,1	16,6	22,2	24,9	30,5	33,3	36,0
AR-101608AL	EFXE-101608AL	11,5	17,3	23,1	26,0	31,8	34,7	37,6
AR-102008AL	EFXE-102008AL	13,4	20,1	26,8	30,2	36,9	40,3	43,6
AQ-121208AL	EFXE-121208AL	10,8	16,2	21,6	24,3	29,7	32,4	35,1
AR-122209AL	EFXE-122209AL	16,8	25,3	33,7	37,9	46,3	50,6	54,8
AQ-141409AL	EFXE-141409AL	13,7	20,6	27,5	31,0	37,9	41,3	44,8
AR-142009AL	EFXE-142009AL	17,1	25,7	34,2	38,5	47,1	51,4	55,7
AQ-161609AL	EFXE-161609AL	17,2	25,8	34,4	38,7	47,3	51,6	55,9
AR-162410AL	EFXE-162410AL	22,1	33,1	44,2	49,7	60,8	66,3	71,8
AR-162609AL	EFXE-162609AL	21,9	32,8	43,8	49,3	60,2	65,7	71,2
AQ-181810AL	EFXE-181810AL	19,7	29,6	39,5	44,4	54,3	59,2	64,2
AR-182810AL	EFXE-182810AL	26,1	39,1	52,2	58,7	71,8	78,3	84,8
AR-202311AL	EFXE-202311AL	25,8	38,7	51,6	58,0	71,0	77,4	83,9
AR-202318AL	EFXE-202318AL	35,5	53,3	71,1	80,0	97,8	106,7	115,6
AR-232811AL	EFXE-232811AL	31,6	47,5	63,3	71,3	87,1	95,0	103,0
AR-233312AL	EFXE-233312AL	37,0	55,6	74,1	83,4	101,9	111,2	120,5
AR-233318AL	EFXE-233318AL	47,5	71,3	95,1	107,0	130,8	142,7	154,6

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Enclosure types (aluminium)		Maximum power dissipation (W) – Tamb. up to **50**°C						
		INTERNAL TEMP.60°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
AQ-080806AL	EFXE-080806AL	2,6	5,2	7,8	9,1	11,7	13,0	14,3
AR-081306AL	EFXE-081306AL	3,5	7,0	10,6	12,3	15,9	17,7	19,4
AR-081806AL	EFXE-081806AL	4,4	8,9	13,3	15,5	20,0	22,2	24,5
AR-081808AL	EFXE-081808AL	5,5	11,0	16,5	19,3	24,8	27,6	30,4
AR-082505AL	EFXE-082505AL	5,3	10,7	16,1	18,7	24,1	26,8	29,5
AR-082508AL	EFXE-082508AL	7,1	14,2	21,4	24,9	32,1	35,7	39,2
AQ-101008AL	EFXE-101008AL	4,3	8,7	13,0	15,2	19,6	21,7	23,9
AR-101508AL	EFXE-101508AL	5,5	11,1	16,6	19,4	24,9	27,7	30,5
AR-101608AL	EFXE-101608AL	5,7	11,5	17,3	20,2	26,0	28,9	31,8
AR-102008AL	EFXE-102008AL	6,7	13,4	20,1	23,5	30,2	33,5	36,9
AQ-121208AL	EFXE-121208AL	5,4	10,8	16,2	18,9	24,3	27,0	29,7
AR-122209AL	EFXE-122209AL	8,4	16,8	25,3	29,5	37,9	42,1	46,3
AQ-141409AL	EFXE-141409AL	6,8	13,7	20,6	24,1	31,0	34,4	37,9
AR-142009AL	EFXE-142009AL	8,5	17,1	25,7	30,0	38,5	42,8	47,1
AQ-161609AL	EFXE-161609AL	8,6	17,2	25,8	30,1	38,7	43,0	47,3
AR-162410AL	EFXE-162410AL	11,0	22,1	33,1	38,7	49,7	55,3	60,8
AR-162609AL	EFXE-162609AL	10,9	21,9	32,8	38,3	49,3	54,8	60,2
AQ-181810AL	EFXE-181810AL	9,8	19,7	29,6	34,5	44,4	49,3	54,3
AR-182810AL	EFXE-182810AL	13,0	26,1	39,1	45,7	58,7	65,2	71,8
AR-202311AL	EFXE-202311AL	12,9	25,8	38,7	45,1	58,0	64,5	71,0
AR-202318AL	EFXE-202318AL	17,7	35,5	53,3	62,2	80,0	88,9	97,8
AR-232811AL	EFXE-232811AL	15,8	31,6	47,5	55,4	71,3	79,2	87,1
AR-233312AL	EFXE-233312AL	18,5	37,0	55,6	64,8	83,4	92,7	101,9
AR-233318AL	EFXE-233318AL	23,7	47,5	71,3	83,2	107,0	118,9	130,8

Enclosure types (aluminium)		Maximum power dissipation (W) – Tamb. up to **55**°C						
		INTERNAL TEMP.65°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
AQ-080806AL	EFXE-080806AL	2,6	3,9	6,5	7,8	10,4	11,7	13,0
AR-081306AL	EFXE-081306AL	3,5	5,3	8,8	10,6	14,1	15,9	17,7
AR-081806AL	EFXE-081806AL	4,4	6,6	11,1	13,3	17,8	20,0	22,2
AR-081808AL	EFXE-081808AL	5,5	8,2	13,8	16,5	22,1	24,8	27,6
AR-082505AL	EFXE-082505AL	5,3	8,0	13,4	16,1	21,4	24,1	26,8
AR-082508AL	EFXE-082508AL	7,1	10,7	17,8	21,4	28,5	32,1	35,7
AQ-101008AL	EFXE-101008AL	4,3	6,5	10,8	13,0	17,4	19,6	21,7
AR-101508AL	EFXE-101508AL	5,5	8,3	13,8	16,6	22,2	24,9	27,7
AR-101608AL	EFXE-101608AL	5,7	8,6	14,4	17,3	23,1	26,0	28,9
AR-102008AL	EFXE-102008AL	6,7	10,0	16,7	20,1	26,8	30,2	33,5
AQ-121208AL	EFXE-121208AL	5,4	8,1	13,5	16,2	21,6	24,3	27,0
AR-122209AL	EFXE-122209AL	8,4	12,6	21,0	25,3	33,7	37,9	42,1
AQ-141409AL	EFXE-141409AL	6,8	10,3	17,2	20,6	27,5	31,0	34,4
AR-142009AL	EFXE-142009AL	8,5	12,8	21,4	25,7	34,2	38,5	42,8
AQ-161609AL	EFXE-161609AL	8,6	12,9	21,5	25,8	34,4	38,7	43,0
AR-162410AL	EFXE-162410AL	11,0	16,5	27,6	33,1	44,2	49,7	55,3
AR-162609AL	EFXE-162609AL	10,9	16,4	27,4	32,8	43,8	49,3	54,8
AQ-181810AL	EFXE-181810AL	9,8	14,8	24,6	29,6	39,5	44,4	49,3
AR-182810AL	EFXE-182810AL	13,0	19,5	32,6	39,1	52,2	58,7	65,2
AR-202311AL	EFXE-202311AL	12,9	19,3	32,2	38,7	51,6	58,0	64,5
AR-202318AL	EFXE-202318AL	17,7	26,6	44,4	53,3	71,1	80,0	88,9
AR-232811AL	EFXE-232811AL	15,8	23,7	39,6	47,5	63,3	71,3	79,2
AR-233312AL	EFXE-233312AL	18,5	27,8	46,3	55,6	74,1	83,4	92,7
AR-233318AL	EFXE-233318AL	23,7	35,6	59,4	71,3	95,1	107,0	118,9

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Enclosure types (aluminium)		Maximum power dissipation (W) – Tamb. up to **60**°C					
		INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
AQ-080806AL	EFXE-080806AL	2,6	5,2	6,5	9,1	10,4	11,7
AR-081306AL	EFXE-081306AL	3,5	7,0	8,8	12,3	14,1	15,9
AR-081806AL	EFXE-081806AL	4,4	8,9	11,1	15,5	17,8	20,0
AR-081808AL	EFXE-081808AL	5,5	11,0	13,8	19,3	22,1	24,8
AR-082505AL	EFXE-082505AL	5,3	10,7	13,4	18,7	21,4	24,1
AR-082508AL	EFXE-082508AL	7,1	14,2	17,8	24,9	28,5	32,1
AQ-101008AL	EFXE-101008AL	4,3	8,7	10,8	15,2	17,4	19,6
AR-101508AL	EFXE-101508AL	5,5	11,1	13,8	19,4	22,2	24,9
AR-101608AL	EFXE-101608AL	5,7	11,5	14,4	20,2	23,1	26,0
AR-102008AL	EFXE-102008AL	6,7	13,4	16,7	23,5	26,8	30,2
AQ-121208AL	EFXE-121208AL	5,4	10,8	13,5	18,9	21,6	24,3
AR-122209AL	EFXE-122209AL	8,4	16,8	21,0	29,5	33,7	37,9
AQ-141409AL	EFXE-141409AL	6,8	13,7	17,2	24,1	27,5	31,0
AR-142009AL	EFXE-142009AL	8,5	17,1	21,4	30,0	34,2	38,5
AQ-161609AL	EFXE-161609AL	8,6	17,2	21,5	30,1	34,4	38,7
AR-162410AL	EFXE-162410AL	11,0	22,1	27,6	38,7	44,2	49,7
AR-162609AL	EFXE-162609AL	10,9	21,9	27,4	38,3	43,8	49,3
AQ-181810AL	EFXE-181810AL	9,8	19,7	24,6	34,5	39,5	44,4
AR-182810AL	EFXE-182810AL	13,0	26,1	32,6	45,7	52,2	58,7
AR-202311AL	EFXE-202311AL	12,9	25,8	32,2	45,1	51,6	58,0
AR-202318AL	EFXE-202318AL	17,7	35,5	44,4	62,2	71,1	80,0
AR-232811AL	EFXE-232811AL	15,8	31,6	39,6	55,4	63,3	71,3
AR-233312AL	EFXE-233312AL	18,5	37,0	46,3	64,8	74,1	83,4
AR-233318AL	EFXE-233318AL	23,7	47,5	59,4	83,2	95,1	107,0

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Enclosure types (aluminium)		Maximum power dissipation (W) – Tamb. up to **95**°C	
		INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
AQ-080806AL	EFXE-080806AL	1,3	2,6
AR-081306AL	EFXE-081306AL	1,7	3,5
AR-081806AL	EFXE-081806AL	2,2	4,4
AR-081808AL	EFXE-081808AL	2,7	5,5
AR-082505AL	EFXE-082505AL	2,6	5,3
AR-082508AL	EFXE-082508AL	3,5	7,1
AQ-101008AL	EFXE-101008AL	2,1	4,3
AR-101508AL	EFXE-101508AL	2,7	5,5
AR-101608AL	EFXE-101608AL	2,8	5,7
AR-102008AL	EFXE-102008AL	3,3	6,7
AQ-121208AL	EFXE-121208AL	2,7	5,4
AR-122209AL	EFXE-122209AL	4,2	8,4
AQ-141409AL	EFXE-141409AL	3,4	6,8
AR-142009AL	EFXE-142009AL	4,2	8,5
AQ-161609AL	EFXE-161609AL	4,3	8,6
AR-162410AL	EFXE-162410AL	5,5	11,0
AR-162609AL	EFXE-162609AL	5,4	10,9
AQ-181810AL	EFXE-181810AL	4,9	9,8
AR-182810AL	EFXE-182810AL	6,5	13,0
AR-202311AL	EFXE-202311AL	6,4	12,9
AR-202318AL	EFXE-202318AL	8,8	17,7
AR-232811AL	EFXE-232811AL	7,9	15,8
AR-233312AL	EFXE-233312AL	9,2	18,5
AR-233318AL	EFXE-233318AL	11,8	23,7

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Power dissipation – Stainless steel enclosures SB series

Enclosure types (stainless steel)		Maximum power dissipation (W) – Tamb. up to **40**°C						
		INTERNAL TEMP.60°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
SB-101210	EFXE-101210SB	5,5	8,3	11,1	12,5	15,3	16,7	18,1
SB-151510	EFXE-151510SB	8,0	12,0	16,0	18,0	22,0	24,0	26,1
SB-142013	EFXE-142013SB	10,4	15,7	20,9	23,5	28,8	31,4	34,0
SB-202010	EFXE-202010SB	10,7	16,1	21,4	24,1	29,5	32,2	34,8
SB-202016	EFXE-202016SB	13,9	20,8	27,8	31,3	38,3	41,7	45,2
SB-202713	EFXE-202713SB	14,4	21,6	28,9	32,5	39,7	43,3	46,9
SB-272713	EFXE-272713SB	16,7	25,1	33,5	37,7	46,0	50,2	54,4
SB-203016	EFXE-203016SB	17,1	25,7	34,3	38,6	47,2	51,4	55,7
SB-273513	EFXE-273513SB	19,2	28,9	38,5	43,3	53,0	57,8	62,6
SB-282816	EFXE-282816SB	19,3	29,0	38,7	43,6	53,3	58,1	63,0
SB-204016	EFXE-204016SB	20,2	30,3	40,4	45,5	55,6	60,6	65,7
SB-353516	EFXE-353516SB	24,4	36,6	48,8	54,9	67,1	73,2	79,3
SB-282827	EFXE-282827SB	26,2	39,3	52,5	59,0	72,2	78,7	85,3
SB-355016	EFXE-355016SB	29,7	44,5	59,4	66,8	81,7	89,1	96,6
SB-383816	EFXE-383816SB	26,6	39,9	53,2	59,8	73,1	79,8	86,5
SB-384516	EFXE-384516SB	29,1	43,7	58,3	65,6	80,2	87,5	94,8
SB-385716	EFXE-385716SB	33,4	50,1	66,8	75,2	91,9	100,3	108,7
SB-505016	EFXE-505016SB	35,8	53,8	71,7	80,7	98,6	107,6	116,6
SB-383827	EFXE-383827SB	35,1	52,7	70,2	79,0	96,6	105,4	114,2
SB-575716	EFXE-575716SB	41,5	62,3	83,1	93,5	114,3	124,7	135,1
SB-577620	EFXE-577620SB	53,9	80,9	107,9	121,3	148,3	161,8	175,3
SB-575730	EFXE-575730SB	55,8	83,7	111,6	125,6	153,5	167,5	181,4
SB-769520	EFXE-769520SB	72,2	108,3	144,4	162,4	198,5	216,6	234,6
SB-1258040	EFXE-1258040SB	72,2	108,3	144,4	162,4	198,5	216,6	234,6

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Enclosure types (Stainless steel)		Maximum power dissipation (W) – Tamb. up to **50**°C						
		INTERNAL TEMP.60°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
SB-101210	EFXE-101210SB	2,7	5,5	8,3	9,7	12,5	13,9	15,3
SB-151510	EFXE-151510SB	4,0	8,0	12,0	14,0	18,0	20,0	22,0
SB-142013	EFXE-142013SB	5,2	10,4	15,7	18,3	23,5	26,2	28,8
SB-202010	EFXE-202010SB	5,3	10,7	16,1	18,7	24,1	26,8	29,5
SB-202016	EFXE-202016SB	6,9	13,9	20,8	24,3	31,3	34,8	38,3
SB-202713	EFXE-202713SB	7,2	14,4	21,6	25,2	32,5	36,1	39,7
SB-272713	EFXE-272713SB	8,3	16,7	25,1	29,3	37,7	41,8	46,0
SB-203016	EFXE-203016SB	8,5	17,1	25,7	30,0	38,6	42,9	47,2
SB-273513	EFXE-273513SB	9,6	19,2	28,9	33,7	43,3	48,2	53,0
SB-282816	EFXE-282816SB	9,6	19,3	29,0	33,9	43,6	48,4	53,3
SB-204016	EFXE-204016SB	10,1	20,2	30,3	35,4	45,5	50,5	55,6
SB-353516	EFXE-353516SB	12,2	24,4	36,6	42,7	54,9	61,0	67,1
SB-282827	EFXE-282827SB	13,1	26,2	39,3	45,9	59,0	65,6	72,2
SB-355016	EFXE-355016SB	14,8	29,7	44,5	52,0	66,8	74,3	81,7
SB-383816	EFXE-383816SB	13,3	26,6	39,9	46,5	59,8	66,5	73,1
SB-384516	EFXE-384516SB	14,5	29,1	43,7	51,0	65,6	72,9	80,2
SB-385716	EFXE-385716SB	16,7	33,4	50,1	58,5	75,2	83,6	91,9
SB-505016	EFXE-505016SB	17,9	35,8	53,8	62,7	80,7	89,7	98,6
SB-383827	EFXE-383827SB	17,5	35,1	52,7	61,4	79,0	87,8	96,6
SB-575716	EFXE-575716SB	20,7	41,5	62,3	72,7	93,5	103,9	114,3
SB-577620	EFXE-577620SB	26,9	53,9	80,9	94,4	121,3	134,8	148,3
SB-575730	EFXE-575730SB	27,9	55,8	83,7	97,7	125,6	139,5	153,5
SB-769520	EFXE-769520SB	36,1	72,2	108,3	126,3	162,4	180,5	198,5
SB-1258040	EFXE-1258040SB	36,1	72,2	108,3	126,3	162,4	180,5	198,5

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Enclosure types (Stainless steel)		Maximum power dissipation (W) – Tamb. up to **55**°C						
		INTERNAL TEMP.65°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
SB-101210	EFXE-101210SB	2,7	4,1	6,9	8,3	11,1	12,5	13,9
SB-151510	EFXE-151510SB	4,0	6,0	10,0	12,0	16,0	18,0	20,0
SB-142013	EFXE-142013SB	5,2	7,8	13,1	15,7	20,9	23,5	26,2
SB-202010	EFXE-202010SB	5,3	8,0	13,4	16,1	21,4	24,1	26,8
SB-202016	EFXE-202016SB	6,9	10,4	17,4	20,8	27,8	31,3	34,8
SB-202713	EFXE-202713SB	7,2	10,8	18,0	21,6	28,9	32,5	36,1
SB-272713	EFXE-272713SB	8,3	12,5	20,9	25,1	33,5	37,7	41,8
SB-203016	EFXE-203016SB	8,5	12,8	21,4	25,7	34,3	38,6	42,9
SB-273513	EFXE-273513SB	9,6	14,4	24,1	28,9	38,5	43,3	48,2
SB-282816	EFXE-282816SB	9,6	14,5	24,2	29,0	38,7	43,6	48,4
SB-204016	EFXE-204016SB	10,1	15,1	25,2	30,3	40,4	45,5	50,5
SB-353516	EFXE-353516SB	12,2	18,3	30,5	36,6	48,8	54,9	61,0
SB-282827	EFXE-282827SB	13,1	19,6	32,8	39,3	52,5	59,0	65,6
SB-355016	EFXE-355016SB	14,8	22,2	37,1	44,5	59,4	66,8	74,3
SB-383816	EFXE-383816SB	13,3	19,9	33,2	39,9	53,2	59,8	66,5
SB-384516	EFXE-384516SB	14,5	21,8	36,4	43,7	58,3	65,6	72,9
SB-385716	EFXE-385716SB	16,7	25,0	41,8	50,1	66,8	75,2	83,6
SB-505016	EFXE-505016SB	17,9	26,9	44,8	53,8	71,7	80,7	89,7
SB-383827	EFXE-383827SB	17,5	26,3	43,9	52,7	70,2	79,0	87,8
SB-575716	EFXE-575716SB	20,7	31,1	51,9	62,3	83,1	93,5	103,9
SB-577620	EFXE-577620SB	26,9	40,4	67,4	80,9	107,9	121,3	134,8
SB-575730	EFXE-575730SB	27,9	41,8	69,7	83,7	111,6	125,6	139,5
SB-769520	EFXE-769520SB	36,1	54,1	90,2	108,3	144,4	162,4	180,5
SB-1258040	EFXE-1258040SB	36,1	54,1	90,2	108,3	144,4	162,4	180,5

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Enclosure types (Stainless steel)		Maximum power dissipation (W) – Tamb. up to **60**°C					
		INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
SB-101210	EFXE-101210SB	2,7	5,5	6,9	9,7	11,1	12,5
SB-151510	EFXE-151510SB	4,0	8,0	10,0	14,0	16,0	18,0
SB-142013	EFXE-142013SB	5,2	10,4	13,1	18,3	20,9	23,5
SB-202010	EFXE-202010SB	5,3	10,7	13,4	18,7	21,4	24,1
SB-202016	EFXE-202016SB	6,9	13,9	17,4	24,3	27,8	31,3
SB-202713	EFXE-202713SB	7,2	14,4	18,0	25,2	28,9	32,5
SB-272713	EFXE-272713SB	8,3	16,7	20,9	29,3	33,5	37,7
SB-203016	EFXE-203016SB	8,5	17,1	21,4	30,0	34,3	38,6
SB-273513	EFXE-273513SB	9,6	19,2	24,1	33,7	38,5	43,3
SB-282816	EFXE-282816SB	9,6	19,3	24,2	33,9	38,7	43,6
SB-204016	EFXE-204016SB	10,1	20,2	25,2	35,4	40,4	45,5
SB-353516	EFXE-353516SB	12,2	24,4	30,5	42,7	48,8	54,9
SB-282827	EFXE-282827SB	13,1	26,2	32,8	45,9	52,5	59,0
SB-355016	EFXE-355016SB	14,8	29,7	37,1	52,0	59,4	66,8
SB-383816	EFXE-383816SB	13,3	26,6	33,2	46,5	53,2	59,8
SB-384516	EFXE-384516SB	14,5	29,1	36,4	51,0	58,3	65,6
SB-385716	EFXE-385716SB	16,7	33,4	41,8	58,5	66,8	75,2
SB-505016	EFXE-505016SB	17,9	35,8	44,8	62,7	71,7	80,7
SB-383827	EFXE-383827SB	17,5	35,1	43,9	61,4	70,2	79,0
SB-575716	EFXE-575716SB	20,7	41,5	51,9	72,7	83,1	93,5
SB-577620	EFXE-577620SB	26,9	53,9	67,4	94,4	107,9	121,3
SB-575730	EFXE-575730SB	27,9	55,8	69,7	97,7	111,6	125,6
SB-769520	EFXE-769520SB	36,1	72,2	90,2	126,3	144,4	162,4
SB-1258040	EFXE-1258040SB	36,1	72,2	90,2	126,3	144,4	162,4

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Enclosure types (Stainless steel)		Maximum power dissipation (W) – Tamb. up to **95**°C	
		INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
SB-101210	EFXE-101210SB	1,3	2,7
SB-151510	EFXE-151510SB	2,0	4,0
SB-142013	EFXE-142013SB	2,6	5,2
SB-202010	EFXE-202010SB	2,6	5,3
SB-202016	EFXE-202016SB	3,4	6,9
SB-202713	EFXE-202713SB	3,6	7,2
SB-272713	EFXE-272713SB	4,1	8,3
SB-203016	EFXE-203016SB	4,2	8,5
SB-273513	EFXE-273513SB	4,8	9,6
SB-282816	EFXE-282816SB	4,8	9,6
SB-204016	EFXE-204016SB	5,0	10,1
SB-353516	EFXE-353516SB	6,1	12,2
SB-282827	EFXE-282827SB	6,5	13,1
SB-355016	EFXE-355016SB	7,4	14,8
SB-383816	EFXE-383816SB	6,6	13,3
SB-384516	EFXE-384516SB	7,2	14,5
SB-385716	EFXE-385716SB	8,3	16,7
SB-505016	EFXE-505016SB	8,9	17,9
SB-383827	EFXE-383827SB	8,7	17,5
SB-575716	EFXE-575716SB	10,3	20,7
SB-577620	EFXE-577620SB	13,4	26,9
SB-575730	EFXE-575730SB	13,9	27,9
SB-769520	EFXE-769520SB	18,0	36,1
SB-1258040	EFXE-1258040SB	18,0	36,1

Power dissipation – Stainless steel enclosures ST series

Enclosure types (Stainless steel)		Maximum power dissipation (W) – Tamb. up to **40**°C						
		INTERNAL TEMP.60°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
ST-101210	EFXE-101210ST	5,5	8,3	11,1	12,5	15,3	16,7	18,1
ST-151510	EFXE-151510ST	8,0	12,0	16,0	18,0	22,0	24,0	26,1
ST-142013	EFXE-142013ST	10,4	15,7	20,9	23,5	28,8	31,4	34,0
ST-202010	EFXE-202010ST	10,7	16,1	21,4	24,1	29,5	32,2	34,8
ST-202016	EFXE-202016ST	13,9	20,8	27,8	31,3	38,3	41,7	45,2
ST-202713	EFXE-202713ST	14,4	21,6	28,9	32,5	39,7	43,3	46,9
ST-272713	EFXE-272713ST	16,7	25,1	33,5	37,7	46,0	50,2	54,4
ST-203016	EFXE-203016ST	17,1	25,7	34,3	38,6	47,2	51,4	55,7
ST-273513	EFXE-273513ST	19,2	28,9	38,5	43,3	53,0	57,8	62,6
ST-282816	EFXE-282816ST	19,3	29,0	38,7	43,6	53,3	58,1	63,0
ST-204016	EFXE-204016ST	20,2	30,3	40,4	45,5	55,6	60,6	65,7
ST-353516	EFXE-353516ST	24,4	36,6	48,8	54,9	67,1	73,2	79,3
ST-282827	EFXE-282827ST	26,2	39,3	52,5	59,0	72,2	78,7	85,3
ST-355016	EFXE-355016ST	29,7	44,5	59,4	66,8	81,7	89,1	96,6
ST-383816	EFXE-383816ST	26,6	39,9	53,2	59,8	73,1	79,8	86,5
ST-384516	EFXE-384516ST	29,1	43,7	58,3	65,6	80,2	87,5	94,8
ST-385716	EFXE-385716ST	33,4	50,1	66,8	75,2	91,9	100,3	108,7
ST-505016	EFXE-505016ST	35,8	53,8	71,7	80,7	98,6	107,6	116,6
ST-383827	EFXE-383827ST	35,1	52,7	70,2	79,0	96,6	105,4	114,2
ST-575716	EFXE-575716ST	41,5	62,3	83,1	93,5	114,3	124,7	135,1
ST-577620	EFXE-577620ST	53,9	80,9	107,9	121,3	148,3	161,8	175,3
ST-575730	EFXE-575730ST	55,8	83,7	111,6	125,6	153,5	167,5	181,4
ST-769520	EFXE-769520ST	72,2	108,3	144,4	162,4	198,5	216,6	234,6
ST-1258040	EFXE-1258040ST	72,2	108,3	144,4	162,4	198,5	216,6	234,6

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Enclosure types (Stainless steel)		Maximum power dissipation (W) – Tamb. up to **50**°C						
		INTERNAL TEMP.60°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
ST-101210	EFXE-101210ST	2,7	5,5	8,3	9,7	12,5	13,9	15,3
ST-151510	EFXE-151510ST	4,0	8,0	12,0	14,0	18,0	20,0	22,0
ST-142013	EFXE-142013ST	5,2	10,4	15,7	18,3	23,5	26,2	28,8
ST-202010	EFXE-202010ST	5,3	10,7	16,1	18,7	24,1	26,8	29,5
ST-202016	EFXE-202016ST	6,9	13,9	20,8	24,3	31,3	34,8	38,3
ST-202713	EFXE-202713ST	7,2	14,4	21,6	25,2	32,5	36,1	39,7
ST-272713	EFXE-272713ST	8,3	16,7	25,1	29,3	37,7	41,8	46,0
ST-203016	EFXE-203016ST	8,5	17,1	25,7	30,0	38,6	42,9	47,2
ST-273513	EFXE-273513ST	9,6	19,2	28,9	33,7	43,3	48,2	53,0
ST-282816	EFXE-282816ST	9,6	19,3	29,0	33,9	43,6	48,4	53,3
ST-204016	EFXE-204016ST	10,1	20,2	30,3	35,4	45,5	50,5	55,6
ST-353516	EFXE-353516ST	12,2	24,4	36,6	42,7	54,9	61,0	67,1
ST-282827	EFXE-282827ST	13,1	26,2	39,3	45,9	59,0	65,6	72,2
ST-355016	EFXE-355016ST	14,8	29,7	44,5	52,0	66,8	74,3	81,7
ST-383816	EFXE-383816ST	13,3	26,6	39,9	46,5	59,8	66,5	73,1
ST-384516	EFXE-384516ST	14,5	29,1	43,7	51,0	65,6	72,9	80,2
ST-385716	EFXE-385716ST	16,7	33,4	50,1	58,5	75,2	83,6	91,9
ST-505016	EFXE-505016ST	17,9	35,8	53,8	62,7	80,7	89,7	98,6
ST-383827	EFXE-383827ST	17,5	35,1	52,7	61,4	79,0	87,8	96,6
ST-575716	EFXE-575716ST	20,7	41,5	62,3	72,7	93,5	103,9	114,3
ST-577620	EFXE-577620ST	26,9	53,9	80,9	94,4	121,3	134,8	148,3
ST-575730	EFXE-575730ST	27,9	55,8	83,7	97,7	125,6	139,5	153,5
ST-769520	EFXE-769520ST	36,1	72,2	108,3	126,3	162,4	180,5	198,5
ST-1258040	EFXE-1258040ST	36,1	72,2	108,3	126,3	162,4	180,5	198,5

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Enclosure types (Stainless steel)		Maximum power dissipation (W) – Tamb. up to **55**°C						
		INTERNAL TEMP.65°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
ST-101210	EFXE-101210ST	2,7	4,1	6,9	8,3	11,1	12,5	13,9
ST-151510	EFXE-151510ST	4,0	6,0	10,0	12,0	16,0	18,0	20,0
ST-142013	EFXE-142013ST	5,2	7,8	13,1	15,7	20,9	23,5	26,2
ST-202010	EFXE-202010ST	5,3	8,0	13,4	16,1	21,4	24,1	26,8
ST-202016	EFXE-202016ST	6,9	10,4	17,4	20,8	27,8	31,3	34,8
ST-202713	EFXE-202713ST	7,2	10,8	18,0	21,6	28,9	32,5	36,1
ST-272713	EFXE-272713ST	8,3	12,5	20,9	25,1	33,5	37,7	41,8
ST-203016	EFXE-203016ST	8,5	12,8	21,4	25,7	34,3	38,6	42,9
ST-273513	EFXE-273513ST	9,6	14,4	24,1	28,9	38,5	43,3	48,2
ST-282816	EFXE-282816ST	9,6	14,5	24,2	29,0	38,7	43,6	48,4
ST-204016	EFXE-204016ST	10,1	15,1	25,2	30,3	40,4	45,5	50,5
ST-353516	EFXE-353516ST	12,2	18,3	30,5	36,6	48,8	54,9	61,0
ST-282827	EFXE-282827ST	13,1	19,6	32,8	39,3	52,5	59,0	65,6
ST-355016	EFXE-355016ST	14,8	22,2	37,1	44,5	59,4	66,8	74,3
ST-383816	EFXE-383816ST	13,3	19,9	33,2	39,9	53,2	59,8	66,5
ST-384516	EFXE-384516ST	14,5	21,8	36,4	43,7	58,3	65,6	72,9
ST-385716	EFXE-385716ST	16,7	25,0	41,8	50,1	66,8	75,2	83,6
ST-505016	EFXE-505016ST	17,9	26,9	44,8	53,8	71,7	80,7	89,7
ST-383827	EFXE-383827ST	17,5	26,3	43,9	52,7	70,2	79,0	87,8
ST-575716	EFXE-575716ST	20,7	31,1	51,9	62,3	83,1	93,5	103,9
ST-577620	EFXE-577620ST	26,9	40,4	67,4	80,9	107,9	121,3	134,8
ST-575730	EFXE-575730ST	27,9	41,8	69,7	83,7	111,6	125,6	139,5
ST-769520	EFXE-769520ST	36,1	54,1	90,2	108,3	144,4	162,4	180,5
ST-1258040	EFXE-1258040ST	36,1	54,1	90,2	108,3	144,4	162,4	180,5

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Enclosure types (Stainless steel)		Maximum power dissipation (W) – Tamb. up to **60**°C					
		INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
ST-101210	EFXE-101210ST	2,7	5,5	6,9	9,7	11,1	12,5
ST-151510	EFXE-151510ST	4,0	8,0	10,0	14,0	16,0	18,0
ST-142013	EFXE-142013ST	5,2	10,4	13,1	18,3	20,9	23,5
ST-202010	EFXE-202010ST	5,3	10,7	13,4	18,7	21,4	24,1
ST-202016	EFXE-202016ST	6,9	13,9	17,4	24,3	27,8	31,3
ST-202713	EFXE-202713ST	7,2	14,4	18,0	25,2	28,9	32,5
ST-272713	EFXE-272713ST	8,3	16,7	20,9	29,3	33,5	37,7
ST-203016	EFXE-203016ST	8,5	17,1	21,4	30,0	34,3	38,6
ST-273513	EFXE-273513ST	9,6	19,2	24,1	33,7	38,5	43,3
ST-282816	EFXE-282816ST	9,6	19,3	24,2	33,9	38,7	43,6
ST-204016	EFXE-204016ST	10,1	20,2	25,2	35,4	40,4	45,5
ST-353516	EFXE-353516ST	12,2	24,4	30,5	42,7	48,8	54,9
ST-282827	EFXE-282827ST	13,1	26,2	32,8	45,9	52,5	59,0
ST-355016	EFXE-355016ST	14,8	29,7	37,1	52,0	59,4	66,8
ST-383816	EFXE-383816ST	13,3	26,6	33,2	46,5	53,2	59,8
ST-384516	EFXE-384516ST	14,5	29,1	36,4	51,0	58,3	65,6
ST-385716	EFXE-385716ST	16,7	33,4	41,8	58,5	66,8	75,2
ST-505016	EFXE-505016ST	17,9	35,8	44,8	62,7	71,7	80,7
ST-383827	EFXE-383827ST	17,5	35,1	43,9	61,4	70,2	79,0
ST-575716	EFXE-575716ST	20,7	41,5	51,9	72,7	83,1	93,5
ST-577620	EFXE-577620ST	26,9	53,9	67,4	94,4	107,9	121,3
ST-575730	EFXE-575730ST	27,9	55,8	69,7	97,7	111,6	125,6
ST-769520	EFXE-769520ST	36,1	72,2	90,2	126,3	144,4	162,4
ST-1258040	EFXE-1258040ST	36,1	72,2	90,2	126,3	144,4	162,4

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Enclosure types (Stainless steel)		Maximum power dissipation (W) – Tamb. up to **95**°C	
		INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
ST-101210	EFXE-101210ST	1,3	2,7
ST-151510	EFXE-151510ST	2,0	4,0
ST-142013	EFXE-142013ST	2,6	5,2
ST-202010	EFXE-202010ST	2,6	5,3
ST-202016	EFXE-202016ST	3,4	6,9
ST-202713	EFXE-202713ST	3,6	7,2
ST-272713	EFXE-272713ST	4,1	8,3
ST-203016	EFXE-203016ST	4,2	8,5
ST-273513	EFXE-273513ST	4,8	9,6
ST-282816	EFXE-282816ST	4,8	9,6
ST-204016	EFXE-204016ST	5,0	10,1
ST-353516	EFXE-353516ST	6,1	12,2
ST-282827	EFXE-282827ST	6,5	13,1
ST-355016	EFXE-355016ST	7,4	14,8
ST-383816	EFXE-383816ST	6,6	13,3
ST-384516	EFXE-384516ST	7,2	14,5
ST-385716	EFXE-385716ST	8,3	16,7
ST-505016	EFXE-505016ST	8,9	17,9
ST-383827	EFXE-383827ST	8,7	17,5
ST-575716	EFXE-575716ST	10,3	20,7
ST-577620	EFXE-577620ST	13,4	26,9
ST-575730	EFXE-575730ST	13,9	27,9
ST-769520	EFXE-769520ST	18,0	36,1
ST-1258040	EFXE-1258040ST	18,0	36,1

Maximum Power Dissipation calculation

The values specified in the tables as per clause 2.1.1 may be modified within the maximum admitted Tamb and maximum admitted internal temperature as follows.

$$Pdiss\ (W) = \frac{Tmax - Tamb}{Rth}$$

$Rth = A \times (\text{enclosure surface in } mm^2 \text{ except enclosure bottom})^B$

Legend:
Rth – Thermal resistance [K/W].
Tmax – Maximum allowed temperature inside enclosure.
Tamb – Ambient temperature of enclosure
A and B - coefficients determined for each series o enclosure. Exact values are given in manufacturer's documentation.

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[16] Confidential Report No. FIDI 21 CR 075

[16.1] Routine testing

Junction boxes, local control stations and local control panels fitted with wiring, shall be subject to a routine dielectric strength test according to the clause 7.1 of IEC 60079-7.

[17] Specific Conditions of Use

- Enclosures marked with warning label: "WARNING – POTENTIAL ELECTROSTATIC CHARGING HAZARD – SEE INSTRUCTIONS" must be cleaned only by damp cloth or antistatic products.
- Apparatus equipped with drain / venting valve Technor Italsmea model ECR3:
  - the valve cannot be open when an explosive dust atmosphere is present.
  - The valve can be open when an explosive gas atmosphere is present: when open, the equipment reaches the protection degree IP44.
  - When the valve is left in open position, it should be protected from light exposure.
- On the intrinsic safety terminals, the user must only connect devices with compatible intrinsic safety parameters according to EN 60079-14.

[18] Essential Health and Safety Requirements

Covered by the conformity with harmonized standards listed under item 9.

[19] Drawings and Documents

Title:	Drawing No.:	Rev. level:	Date:
Technical note	TN2111	0	17.11.2021
Instruction for use	TN2111 Annex A	0	08.11.2021
Apparatus list	TN2111 Annex B	0	17.11.2021
Drawings:			
Cable entries, plug, adaptors coupling systems	AC2111, sheet 1	0	10.11.2021
Example of operator arrangements for AQ-AR-EFE	AC2111, sheet 2	0	10.11.2021
Example of operator arrangements for SB-ST-EFEXE	AC2111, sheet 3	0	10.11.2021
Example terminals and earth bus bar	AC2111, sheet 4	0	10.11.2021
Drain / breath device type ECR3	AC2111, sheet 5	0	10.11.2021
Marking label SB..., ST..., AQ..., AR...	AC2111, sheet 6	0	10.11.2021
Marking label SB..., ST..., AQ..., AR...	AC2111, sheet 7	0	10.11.2021

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[1] **SUPPLEMENTARY EU – TYPE EXAMINATION CERTIFICATE**

[2] Equipment or Protective Systems Intended for use in Potentially Explosive Atmospheres Directive 2014/34/EU.

[3] Supplementary EU-Type Examination Certificate Number: **FIDI 21 ATEX 0090X/1**

[4] Product: **Junction boxes, local control stations and local control panels**

Type: **AQ-***P / AQ-***AL / AR-***P / AR-***AL**
AQ-*P-HT / AQ-***AL-HT / AR-***P-HT / AR-***AL-HT**
SB-* / ST-***
EFE-* / EFXE-*** AL/ EFXE-***SB / EFXE-***ST**
EFE-*-HT / EFXE-***AL-HT**

[5] Manufacturer: **Technor Italsmea S.p.A.**

[6] Address: **Via Italia 33, 20060 Gessate (MI), Italy**

[7] This supplementary certificate extends EU – Type Examination Certificate to apply to product designed and constructed in accordance with the specification set out in the Schedule of the said certificate but having any variations specified in the Schedule to this certificate and the documents therein referred to.

[8] FIDITAS Ltd., Notified Body number 2829 in accordance with Article 17 of Directive 2014/34/EU of the European Parliament and of the Council, dated 26 February 2014, certifies that this product has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of products intended for use in potentially explosive atmospheres given in Annex II of the Directive.

[9] The examination and test results are recorded in confidential Report No: **FIDI 23 CR 019**

[10] The marking of the product shall include the following:

II 1 G	**Ex ia IIC/IIB T6...T4 Ga**(2) or
II 2(1) G or **II 2(2) G**	**Ex db eb ia/ib mb [**(3)**] IIC/IIB T6...T4 Gb**(1) or
II 2 G	**Ex eb IIC/IIB T6...T4 Gb**(1) or
II 2 D	**Ex tb IIIC T85°C...T135°C Db**

(1) Others type of protection additional to 'eb' depending to the components actually mounted.

(2) In case of enclosures containing 'eb' terminals and/or 'ia Ga' already certified components (with compatible marking) only.

(3) Associated equipment protection depending on the components actually mounted (see lists): e.g. [ia/ib/ia Ga/ia IIIC Da] and/or [ia IIIC Da] or [ia/ib/ia Ga/ia IIIC Da] and/or [ia/ib/ia Ga] [ia IIIC Da]

FIDITAS Ltd.
Certification department
Approved:

Marino Kelava, M.E.Eng.

Our ref.: 23.CRT.071

Date: 19.04.2023

Fiditas d.o.o. ZAGREB

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[11] **SCHEDULE**

[12] **SUPPLEMENTARY EU - TYPE EXAMINATION CERTIFICATE No.: FIDI 21 ATEX 0090X /1**

[13] Description of the variation to the Product

New Ex products added:

- Surge voltage protection unit type: PLUGTRAB PT2 or PT4 – PHOENIX CONTACT; II 1G> Ex ia IIC T4...T6 Ga; KEMA 00 ATEX 1099X;
- SITRANS TH230/420, type: 7NG0317, 0310; 0410 TR320/TR420 7NG0327; 7NG0320; TYPE 7NG0420; Siemens AG; II 1G Ex ia IIC T6...T4 Ga; II 2(1)G Ex ib [ia Ga] IIC T6...T4 Gb; DEKRA 17 ATEX 0116X
- Enhanced Model 644 Temperature Transmitter, ROSEMOUNT INCORPORATED, II 1G Ex ia IIC T6...T4 Ga; DEKRA 21ATEX0003X,
- Temperature Transmitter type: 5434D; 5431D; 6431D; 5435D; 5437D; 5437D; 5437B; 6437D, II 1G Ex ia IIC T6...T4 Ga; II 2(1)G Ex ib [ia Ga] IIC T6...T4 Gb; DEKRA 16 ATEX 0047X,
- Controls Units and / or Junction Boxes Type: GUB..., TECHNOR ITALSMEA; II 2G Ex db (*) IIC T(*) Gb; INERIS 22 ATEX 0008X
- Cable Transit Device type: CF 8 Ex, CF 32 Ex, CF 16 Ex, C RS T...Ex, RS..B Ex, SF...Ex, SFX...B Ex, B...B Ex, R...B Ex and RO...B; ROXTEC INTERNATIONAL AB, II 2G Ex e IIC Gb, II 2D Ex tb IIC Db; NEMKO 12 ATEX 1278X
- Cable Transit Device type: HD 16 Ex, HD 24 Ex, HD 32 Ex and HDLC Ex, ROXTEC INTERNATIONAL AB, II 2G Ex eb IIC Gb, II 2D Ex tb IIIC Db, PRESAFE 15 ATEX 6419X
- Control stations and junction boxes type: CP..., TECHNOR ITALSMEA, II 2G Ex db IIC T6 or T5 or T4 Gb or II 2(1)G Ex db [ia Ga] IIC T6 Gb(***) or II 2(2)G Ex db [ib] IIC T6 Gb (***); INERIS 03 ATEX 0009X
- Industrial plug and socket type: DXN1, MARECHAL ELECTRIC, II 2G Ex db eb IIC T5 or T6; II 2D Ex tb IIIC T90°C/T70°C; LCIE 99 ATEX6027X
- Industrial plug and socket type: DXN3, MARECHAL ELECTRIC; II 2G Ex db eb IIC T5 or T6; II 2D Ex tb IIIC T90°C/T70°C; LCIE 05 ATEX 6149X
- Industrial plug and socket type: DXN6, MARECHAL ELECTRIC, II 2G Ex db eb IIC T5 or T6; II 2D Ex tb IIIC T90°C/T70°C; LCIE 05 ATEX 6150X
- Industrial plug and socket type: PXN12C, MARECHAL ELECTRIC, II 2G Ex eb IIC T*; II 2G Ex ia or ib IIC T*; II 2D Ex tb IIIC T* Db; LCIE 07 ATEX 6070X
- Industrial plug and socket type: DXN25C, MARECHAL ELECTRIC; II 2G Ex eb IIC T*; II 2G Ex ia or ib IIC T6; II2D Ex tb IIIC T*; LCIE 09ATEX3050X
- Industrial plug and socket type: DXN37C, MARECHAL ELECTRIC; II 2G Ex eb IIC T*; II 2G Ex ia or ib IIC T6; II2D Ex tb IIIC T*; LCIE 07ATEX6071X
- Industrial plug and socket type: SPeX, MARECHAL ELECTRIC, II 2G Ex eb IIC T*; II2D Ex tb IIIC T* Db; LCIE 07ATEX6073X
- Industrial plug and socket type: DXA1, MARECHAL ELECTRIC, II 2G Ex db eb IIC T* Gb; II 2D Ex tb IIC T*°C Db; LCIE 15ATEX 3033X
- Industrial plug and socket type: PNCX, MARECHAL ELECTRIC, II 2G Ex IIC T6 Gb; II 2D Ex tb IIIC T72°C Db; LCIE 16ATEX3001X
- Terminal type: WDU 240, WEIDMULLER, II 2G Ex eb IIC Gb; KEMA 01 ATEX 2186U.

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[14] Confidential Report No. FIDI 23 CR 019

[14.1] Routine testing

No change to specified in the initial certificate.

[15] Specific Conditions of Use

Addditional to those specified the initial certificate:

- Manufacturer must obey relevant specific condition of use of Ex equipment and/or schedule of limitation of Ex components installed in/on the product and forward to the end user if relevant for the installation and use.

[16] Essential Health and Safety Requirements

Compliance with the Essential Health and Safety Requirements is not affected by this variation.

[17] Drawings and Documents

Title:	Drawing No.:	Rev. level:	Date:
Technical note	TN2111	1	20.01.2023
Instruction for use	TN2111 Annex A	1	20.01.2023
Apparatus list	TN2111 Annex B	1	20.01.2023

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IECEx Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION
IEC Certification System for Explosive Atmospheres

for rules and details of the IECEx Scheme visit www.iecex.com

Certificate No.:	**IECEx FIDI 21.0015X**	Page 1 of 4	Certificate history: Issue 0 (2022-02-18)
Status:	**Current**	Issue No: 1	
Date of Issue:	2023-05-04		

Applicant: **Technor Italsmea S.p.A.**
Via Italia 33
20060 Gessate (MI)
Italy

Equipment: **Junction boxes, local control stations and local control panels**

Optional accessory: Model reference: AQ-***P / AQ-***AL / AR-***P / AR-***AL / AQ-***P-HT / AQ-***AL-HT / AR-***P-HT / AR-***AL-HT / SB-*** / ST-*** / EFE-*** / EFXE-*** AL/ EFXE-***SB / EFXE-***ST / EFE-***-HT / EFXE-***AL-HT

Type of Protection: **Flameproof enclosure 'db'; Intrinsic safety 'ia/ib'; Increased safety 'eb'; Encapsulation 'mb', Protection by enclosure 'tb'**

Marking: **Ex ia IIC/IIB T6...T4 Ga**(2) or

Ex db eb ia/ib mb [(3)] IIC/IIB T6...T4 Gb(1) or

Ex eb IIC/IIB T6...T4 Gb(1) or

Ex tb IIIC T85°C...T135°C Db

(1) Others type of protection additional to Ex e/eb depending to the components actually mounted.

(2) In case of enclosures containing Ex e/Ex eb terminals and/or Ex ia Ga already certified components (with compatible marking) only.

(3) Associated equipment protection depending on the components actually mounted (see lists): e.g. [ia/ib/ia Ga/ia IIIC Da] and/or [ia IIIC Da] or [ia/ib/ia Ga/ia IIIC Da] and/or [ia/ib/ia Ga] [ia IIIC Da]

Approved for issue on behalf of the IECEx Certification Body: **Marino Kelava**

Position: **Certification Signatory**

Signature:
(for printed version)

Date:
(for printed version)

1. This certificate and schedule may only be reproduced in full.
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Certificate issued by:

Fiditas Ltd
Slavka Tomerlina 44
HR-10361 Zagreb-Sesvete
Croatia

Fiditas
explosion safety solutions

IECEx Certificate of Conformity

Certificate No.: **IECEx FIDI 21.0015X**

Date of issue: 2023-05-04 Issue No: 1

Manufacturer: **Technor Italsmea S.p.A.**
Via Italia 33
20060 Gessate (MI)
Italy

Manufacturing locations:

This certificate is issued as verification that a sample(s), representative of production, was assessed and tested and found to comply with the IEC Standard list below and that the manufacturer's quality system, relating to the Ex products covered by this certificate, was assessed and found to comply with the IECEx Quality system requirements.This certificate is granted subject to the conditions as set out in IECEx Scheme Rules, IECEx 02 and Operational Documents as amended

STANDARDS :
The equipment and any acceptable variations to it specified in the schedule of this certificate and the identified documents, was found to comply with the following standards

IEC 60079-0:2017 Explosive atmospheres - Part 0: Equipment - General requirements
Edition:7.0

IEC 60079-1:2014-06 Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"
Edition:7.0

IEC 60079-11:2011 Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"
Edition:6.0

IEC 60079-18:2017 Explosive atmospheres - Part 18: Protection by encapsulation "m"
Edition:4.1

IEC 60079-31:2013 Explosive atmospheres - Part 31: Equipment dust ignition protection by enclosure "t"
Edition:2

IEC 60079-7:2017 Explosive atmospheres - Part 7: Equipment protection by increased safety "e"
Edition:5.1

This Certificate **does not** indicate compliance with safety and performance requirements other than those expressly included in the Standards listed above.

TEST & ASSESSMENT REPORTS:
A sample(s) of the equipment listed has successfully met the examination and test requirements as recorded in:

Test Reports:

HR/FIDI/ExTR21.0016/00 HR/FIDI/ExTR21.0016/01

Quality Assessment Report:

FR/INE/QAR08.0002/15

IECEx Certificate of Conformity

EQUIPMENT:
Equipment and systems covered by this Certificate are as follows:

Junction boxes, local control stations and local control panels series AQ-…..; AR-…..; SB…..; EFE-…..; EFXE-….. use certified enclosures of various sizes, manufactured by Technor Italsmea S.p.A., type: AQ-.... ; AR-....; SB-...; ST- …, certificate IECEx FIDI 21.0012U.

Enclosures coded …-HT are made in glass fiber reinforced polyester resin or in aluminum, and covered by IECEx component certificates: IECEx PTB 08.0003U, enclosure type: 26.****** and IECEx PTB 08.0003U, enclosure type: 25.******.

Enclosures may be equipped with certified Ex equipment or Ex components and Ex terminals listed in manufacturer's documentation. Certified Ex equipment or Ex components and Ex terminals must be used according to data available in related component or equipment certificates, in particular relevant temperature range, voltage and current limitations. The cable glands or plugs, with separate IECEx certificate, made in type of protection ‘eb’ and/or ‘tb’ with appropriate IP protection are mounted according to related manufacturer’s installation instructions. Each enclosure is provided with internal earthing certified terminal or earthing screw or bolt. Metal enclosures are provided by external earthing screw or bolt. Metal and polyester enclosures can be provided by passing through earthing terminals.

All enclosures can be provided by:
- Externally installed accessories as specified in manufacturer documents,
- Drain breath device type ECR3, included in this certificate,
- Internal/external earthing plate.

For other description see Annex.

SPECIFIC CONDITIONS OF USE: YES as shown below:

- Enclosures marked with warning label: “WARNING – POTENTIAL ELECTROSTATIC CHARGING HAZARD – SEE INSTRUCTIONS” must be cleaned only by damp cloth or antistatic products.
- Apparatus equipped with drain / venting valve Technor Italsmea model ECR3:
  - the valve cannot be open when an explosive dust atmosphere is present.
  - The valve can be open when an explosive gas atmosphere is present: when open, the equipment reaches the protection degree IP44.
  - When the valve is left in open position, it should be protected from light exposure.
- On the intrinsic safety terminals, the user must only connect devices with compatible intrinsic safety parameters according to IEC 60079-14.

IECEx Certificate of Conformity

DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)
New IECEx certified Ex products added in the Apparatus list according to list given in HR/FIDI/ ExTR 21.0016/01.

Annex:

IECEx FIDI 21.0015X Technor Equipment Annex1 issue1.pdf

Technical description (continued from original certificate)

Model identification

Junction boxes

A(1)-(2) (3) (4) (5) (6)	(1) –	**Q**: Square size **R**: Rectangular size
	(2) (3) (4)	dimension, in cm
	(5)	Material **P**: Glass fiber reinforced polyester resin **AL**: Aluminium Alloy
	(6)	None: up to internal temperature of 105°C **HT**: up to internal temperature of 130°C
SB- (2) (3) (4)	(2) (3) (4)	dimension, in cm
ST- (2) (3) (4)	(2) (3) (4)	dimension, in cm

Panel boards

EFE- (2) (3) (4) (6)	(2) (3) (4)	dimension, in cm
	(6)	None: up to internal temperature of 105°C **HT**: up to internal temperature of 130°C
EFXE- (2) (3) (4) (5) (6)	(2) (3) (4)	dimension, in cm
	(5)	Material **SB** or **ST**: stainless steel **AL**: Aluminium Alloy
	(6)	None: up to internal temperature of 105°C **HT**: up to internal temperature of 130°C

Technical data:

Electrical data:	According to Ex component to actually installed
Ambient temperature:	-50°C to +95°C Other possible ranges are with: - min temperature: -50°C to -20 °C - max temperature of +40 °C to +95 °C
Mechanical protection:	IP55, IP66 or IP67 depending on model

Temperature class and/or maximum surface temperature of any junction box or control panel depend on ambient temperature and internal power dissipation. The values that must be observed are given in relevant tables in this certificate.

For commercial reasons model name listed in the tables below can be modified as follows: first (2) and second (3) pair of digits can be reversed.

Models sizes

Polyester High Temperature		Aluminium High Temperature	
AQ-080806P-HT	EFE-080806-HT	AQ-080806AL-HT	EFXE-080806AL-HT
AQ-080808P-HT	EFE-080808-HT	AR-081306AL-HT	EFXE-081306AL-HT
AR-081106P-HT	EFE-081106-HT	AR-081806AL-HT	EFXE-081806AL-HT
AR-081108P-HT	EFE-081108-HT	AR-082505AL-HT	EFXE-082505AL-HT
AR-081606P-HT	EFE-081606-HT	AQ-101008AL-HT	EFXE-101008AL-HT
AR-081608P-HT	EFE-081608-HT	AR-101608AL-HT	EFXE-101608AL-HT
AR-081906P-HT	EFE-081906-HT	AR-102008AL-HT	EFXE-102008AL-HT
AR-081908P-HT	EFE-081908-HT	AQ-121208AL-HT	EFXE-121208AL-HT
AR-082306P-HT	EFE-082306-HT	AQ-121209AL-HT	EFXE-121209AL-HT
AR-082308P-HT	EFE-082308-HT	AR-122208AL-HT	EFXE-122208AL-HT
AQ-121209P-HT	EFE-121209-HT	AR-122209AL-HT	EFXE-122209AL-HT
AR-122209P-HT	EFE-122209-HT	AR-123608AL-HT	EFXE-123608AL-HT
AQ-161609P-HT	EFE-161609-HT	AQ-141409AL-HT	EFXE-141409AL-HT
AR-162609P-HT	EFE-162609-HT	AR-142009AL-HT	EFXE-142009AL-HT
AR-163609P-HT	EFE-163609-HT	AQ-161609AL-HT	EFXE-161609AL-HT
AR-165609P-HT	EFE-165609-HT	AR-162609AL-HT	EFXE-162609AL-HT
AQ-202017P-HT	EFE-202017-HT	AR-163609AL-HT	EFXE-163609AL-HT
AR-203017P-HT	EFE-203017-HT	AR-165609AL-HT	EFXE-165609AL-HT
AQ-252612P-HT	EFE-252612-HT	AQ-181810AL-HT	EFXE-181810AL-HT
AQ-252616P-HT	EFE-252616-HT	AR-182810AL-HT	EFXE-182810AL-HT
AR-254012P-HT	EFE-254012-HT	AR-102311AL-HT	EFXE-102311AL-HT
AR-254016P-HT	EFE-254016-HT	AR-202311AL-HT	EFXE-202311AL-HT
AR-256012P-HT	EFE-256012-HT	AR-202318AL-HT	EFXE-202318AL-HT
AR-304020P-HT	EFE-304020-HT	AR-232811AL-HT	EFXE-232811AL-HT
AQ-363609P-HT	EFE-363609-HT	AR-233311AL-HT	EFXE-233311AL-HT
AR-406025P-HT	EFE-406025-HT	AR-233318AL-HT	EFXE-233318AL-HT
AQ-414012P-HT	EFE-414012-HT	AR-234011AL-HT	EFXE-234011AL-HT
AQ-414020P-HT	EFE-414020-HT	AR-234023AL-HT	EFXE-234023AL-HT
		AR-236011AL-HT	EFXE-236011AL-HT
		AR-314011AL-HT	EFXE-314011AL-HT
		AR-314014AL-HT	EFXE-314014AL-HT
		AR-314018AL-HT	EFXE-314018AL-HT
		AR-314023AL-HT	EFXE-314023AL-HT
		AR-316011AL-HT	EFXE-316011AL-HT
		AR-316018AL-HT	EFXE-316018AL-HT
		AQ-606020AL-HT	EFXE-606020AL-HT

Polyester		Aluminium		Stainless steel	
AQ-080806P	EFE-080806	AQ-080806AL	EFXE-080806AL	SB-101210	EFXE-101210SB
AQ-080808P	EFE-080808	AR-081306AL	EFXE-081306AL	SB-151510	EFXE-151510SB
AR-081106P	EFE-081106	AR-081806AL	EFXE-081806AL	SB-142013	EFXE-142013SB
AR-081606P	EFE-081606	AR-081808AL	EFXE-081808AL	SB-202010	EFXE-202010SB
AR-081906P	EFE-081906	AR-082505AL	EFXE-082505AL	SB-202016	EFXE-202016SB
AQ-121209P	EFE-121209	AR-082508AL	EFXE-082508AL	SB-202713	EFXE-202713SB
AR-122209P	EFE-122209	AQ-101008AL	EFXE-101008AL	SB-272713	EFXE-272713SB
AQ-161609P	EFE-161609	AR-101508AL	EFXE-101508AL	SB-203016	EFXE-203016SB
AR-162609P	EFE-162609	AR-101608AL	EFXE-101608AL	SB-273513	EFXE-273513SB
AR-163609P	EFE-163609	AR-102008AL	EFXE-102008AL	SB-282816	EFXE-282816SB
AQ-252612P	EFE-252612	AQ-121208AL	EFXE-121208AL	SB-204016	EFXE-204016SB
AQ-252616P	EFE-252616	AR-122209AL	EFXE-122209AL	SB-353516	EFXE-353516SB
AR-254012P	EFE-254012	AQ-141409AL	EFXE-141409AL	SB-282827	EFXE-282827SB
AR-254016P	EFE-254016	AR-142009AL	EFXE-142009AL	SB-355016	EFXE-355016SB
AR-256012P	EFE-256012	AQ-161609AL	EFXE-161609AL	SB-383816	EFXE-383816SB
AQ-414012P	EFE-414012	AR-162410AL	EFXE-162410AL	SB-384516	EFXE-384516SB
		AR-162609AL	EFXE-162609AL	SB-385716	EFXE-385716SB
		AQ-181810AL	EFXE-181810AL	SB-505016	EFXE-505016SB
		AR-182810AL	EFXE-182810AL	SB-383827	EFXE-383827SB
		AR-202311AL	EFXE-202311AL	SB-575716	EFXE-575716SB
		AR-202318AL	EFXE-202318AL	SB-577620	EFXE-577620SB
		AR-232811AL	EFXE-232811AL	SB-575730	EFXE-575730SB
		AR-233312AL	EFXE-233312AL	SB-769520	EFXE-769520SB
		AR-233318AL	EFXE-233318AL	SB-1258040	EFXE-1258040SB

Enclosure types (Stainless steel)	
ST-101210	EFXE-101210ST
ST-151510	EFXE-151510ST
ST-142013	EFXE-142013ST
ST-202010	EFXE-202010ST
ST-202016	EFXE-202016ST
ST-202713	EFXE-202713ST
ST-272713	EFXE-272713ST
ST-203016	EFXE-203016ST
ST-273513	EFXE-273513ST
ST-282816	EFXE-282816ST
ST-204016	EFXE-204016ST
ST-353516	EFXE-353516ST
ST-282827	EFXE-282827ST
ST-355016	EFXE-355016ST
ST-383816	EFXE-383816ST
ST-384516	EFXE-384516ST
ST-385716	EFXE-385716ST
ST-505016	EFXE-505016ST
ST-383827	EFXE-383827ST
ST-575716	EFXE-575716ST
ST-577620	EFXE-577620ST
ST-575730	EFXE-575730ST
ST-769520	EFXE-769520ST
ST-1258040	EFXE-1258040ST

Note 2 For stainless steel enclosures: dimensions (2) and (3) can be decreased or increased up to 20%, dimensions (4) can be increased up to 500 mm. Model name changes consequently.

Power dissipation – HT glass fiber reinforced polyester resin enclosures

Enclosure types (polyester)		Maximum power dissipation (W) – Tamb. up to **40**°C							
		INTERNAL TEMP.60°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)	INTERNAL TEMP.127°C (T4/T135°C)
AQ-080806P-HT	EFE-080806-HT	3,5	5,2	7,0	7,8	9,6	10,4	11,3	15,2
AQ-080808P-HT	EFE-080808-HT	4,6	6,8	9,1	10,2	12,5	13,7	14,8	19,8
AR-081106P-HT	EFE-081106-HT	4,3	6,4	8,5	9,6	11,8	12,8	13,9	18,6
AR-081108P-HT	EFE-081108-HT	5,6	8,4	11,2	12,6	15,3	16,7	18,1	24,2
AR-081606P-HT	EFE-081606-HT	5,8	8,7	11,6	13,0	15,9	17,4	18,8	25.2
AR-081608P-HT	EFE-081608-HT	6,8	10,2	13,7	15,4	18,8	20,5	22,2	29,7
AR-081906P-HT	EFE-081906-HT	6,4	9,6	12,8	14,4	17,6	19,2	20,8	27,8
AR-081908P-HT	EFE-081908-HT	7,5	11,3	15,1	17,0	20,7	22,6	24,5	32,7
AR-082306P-HT	EFE-082306-HT	7,2	10,8	14,4	16,2	19,8	21,6	23,4	31,3
AR-082308P-HT	EFE-082308-HT	8,5	12,7	16,9	19,0	23,3	25,4	27,5	36,7
AQ-121209P-HT	EFE-121209-HT	8,0	12,0	15,9	17,9	21,9	23,9	25,9	34,7
AR-122209P-HT	EFE-122209-HT	10,8	16,2	21,6	24,3	29,7	32,4	35,1	47,0
AQ-161609P-HT	EFE-161609-HT	10,4	15,6	20,8	23,4	28,6	31,2	33,8	45,2
AR-162609P-HT	EFE-162609-HT	13,4	20,1	26,8	30,2	36,9	40,2	43,6	58,3
AR-163609P-HT	EFE-163609-HT	16,2	24,3	32,4	36,5	44,6	48,6	52,7	70,5
AR-165609P-HT	EFE-165609-HT	21,4	32,0	42,7	48,1	58,7	64,1	69,4	92,9
AQ-202017P-HT	EFE-202017-HT	18,0	26,9	35,9	40,4	49,4	53,9	58,4	78,1
AR-203017P-HT	EFE-203017-HT	20,9	31,3	41,7	47,0	57,4	62,6	67,8	90,8
AQ-252612P-HT	EFE-252612-HT	18,8	28,2	37,6	42,4	51,8	56,5	61,2	81,9
AQ-252616P-HT	EFE-252616-HT	20,8	31,1	41,5	46,7	57,1	62,3	67,5	90,3
AR-254012P-HT	EFE-254012-HT	22,8	34,2	45,7	51,4	62,8	68,5	74,2	99,3
AR-254016P-HT	EFE-254016-HT	26,2	39,3	52,4	58,9	72,0	78,6	85,1	113,9
AR-256012P-HT	EFE-256012-HT	29,0	43,6	58,1	65,3	79,9	87,1	94,4	126,3
AR-304020P-HT	EFE-304020-HT	32,3	48,5	64,7	72,7	88,9	97,0	105,1	140,7
AQ-363609P-HT	EFE-363609-HT	23,0	34,6	46,1	51,8	63,4	69,1	74,9	100,2
AR-406025P-HT	EFE-406025-HT	50,3	75,5	100,7	113,3	138,4	151,0	163,6	218,9
AQ-414012P-HT	EFE-414012-HT	29,1	43,7	58,2	65,5	80,1	87,3	94,6	126,6
AQ-414020P-HT	EFE-414020-HT	36,6	55,0	73,3	82,4	100,8	109,9	119,1	159,4

Enclosure types (polyester)		Maximum power dissipation (W) – Tamb. up to **50**°C							
		INTERNAL TEMP.60°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)	INTERNAL TEMP.127°C (T4/T135°C)
AQ-080806P-HT	EFE-080806-HT	1,7	3,5	5,2	6,1	7,8	8,7	9,6	13,4
AQ-080808P-HT	EFE-080808-HT	2,3	4,6	6,8	8,0	10,2	11,4	12,5	17,5
AR-081106P-HT	EFE-081106-HT	2,1	4,3	6,4	7,5	9,6	10,7	11,8	16,5
AR-081108P-HT	EFE-081108-HT	2,8	5,6	8,4	9,8	12,6	13,9	15,3	21.5
AR-081606P-HT	EFE-081606-HT	2,9	5,8	8,7	10,1	13,0	14,5	15,9	22,3
AR-081608P-HT	EFE-081608-HT	3,4	6,8	10,2	11,9	15,4	17,1	18,8	26,3
AR-081906P-HT	EFE-081906-HT	3,2	6,4	9,6	11,2	14,4	16,0	17,6	24,6
AR-081908P-HT	EFE-081908-HT	3,8	7,5	11,3	13,2	17,0	18,8	20,7	29,0
AR-082306P-HT	EFE-082306-HT	3,6	7,2	10,8	12,6	16,2	18,0	19,8	27,7
AR-082308P-HT	EFE-082308-HT	4,2	8,5	12,7	14,8	19,0	21,1	23,3	32,5
AQ-121209P-HT	EFE-121209-HT	4,0	8,0	12,0	14,0	17,9	19,9	21,9	30,7
AR-122209P-HT	EFE-122209-HT	5,4	10,8	16,2	18,9	24,3	27,0	29,7	41,6
AQ-161609P-HT	EFE-161609-HT	5,2	10,4	15,6	18,2	23,4	26,0	28,6	40,0
AR-162609P-HT	EFE-162609-HT	6,7	13,4	20,1	23,5	30,2	33,5	36,9	51,6
AR-163609P-HT	EFE-163609-HT	8,1	16,2	24,3	28,4	36,5	40,5	44,6	62,3
AR-165609P-HT	EFE-165609-HT	10,7	21,4	32,0	37,4	48,1	53,4	58,7	82,2
AQ-202017P-HT	EFE-202017-HT	9,0	18,0	26,9	31,4	40,4	44,9	49,4	69,1
AR-203017P-HT	EFE-203017-HT	10,4	20,9	31,3	36,5	47,0	52,2	57,4	80,4
AQ-252612P-HT	EFE-252612-HT	9,4	18,8	28,2	32,9	42,4	47,1	51,8	72,5
AQ-252616P-HT	EFE-252616-HT	10,4	20,8	31,1	36,3	46,7	51,9	57,1	79,9
AR-254012P-HT	EFE-254012-HT	11,4	22,8	34,2	39,9	51,4	57,1	62,8	87,9
AR-254016P-HT	EFE-254016-HT	13,1	26,2	39,3	45,8	58,9	65,5	72,0	100,8
AR-256012P-HT	EFE-256012-HT	14,5	29,0	43,6	50,8	65,3	72,6	79,9	111,8
AR-304020P-HT	EFE-304020-HT	16,2	32,3	48,5	56,6	72,7	80,8	88,9	124,4
AQ-363609P-HT	EFE-363609-HT	11,5	23,0	34,6	40,3	51,8	57,6	63,4	88,7
AR-406025P-HT	EFE-406025-HT	25,2	50,3	75,5	88,1	113,3	125,8	138,4	193,8
AQ-414012P-HT	EFE-414012-HT	14,6	29,1	43,7	51,0	65,5	72,8	80,1	112,1
AQ-414020P-HT	EFE-414020-HT	18,3	36,6	55,0	64,1	82,4	91,6	100,8	141,1

Enclosure types (polyester)		Maximum power dissipation (W) – Tamb. up to **55**°C							
		INTERNAL TEMP.65°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)	INTERNAL TEMP.127°C (T4/T135°C)
AQ-080806P-HT	EFE-080806-HT	1,7	2,6	4,4	5,2	7,0	7,8	8,7	12,5
AQ-080808P-HT	EFE-080808-HT	2,3	3,4	5,7	6,8	9,1	10,2	11,4	16,2
AR-081106P-HT	EFE-081106-HT	2,1	3,2	5,3	6,4	8,5	9,6	10,7	15,2
AR-081108P-HT	EFE-081108-HT	2,8	4,2	7,0	8,4	11,2	12,6	13,9	19,8
AR-081606P-HT	EFE-081606-HT	2,9	4,3	7,2	8,7	11,6	13,0	14,5	20,6
AR-081608P-HT	EFE-081608-HT	3,4	5,1	8,5	10,2	13,7	15,4	17,1	24,3
AR-081906P-HT	EFE-081906-HT	3,2	4,8	8,0	9,6	12,8	14,4	16,0	22,8
AR-081908P-HT	EFE-081908-HT	3,8	5,7	9,4	11,3	15,1	17,0	18,8	26,8
AR-082306P-HT	EFE-082306-HT	3,6	5,4	9,0	10,8	14,4	16,2	18,0	25,6
AR-082308P-HT	EFE-082308-HT	4,2	6,3	10,6	12,7	16,9	19,0	21,1	30,0
AQ-121209P-HT	EFE-121209-HT	4,0	6,0	10,0	12,0	15,9	17,9	19,9	28,3
AR-122209P-HT	EFE-122209-HT	5,4	8,1	13,5	16,2	21,6	24,3	27,0	38,3
AQ-161609P-HT	EFE-161609-HT	5,2	7,8	13,0	15,6	20,8	23,4	26,0	36,9
AR-162609P-HT	EFE-162609-HT	6,7	10,1	16,8	20,1	26,8	30,2	33,5	47,6
AR-163609P-HT	EFE-163609-HT	8,1	12,2	20,3	24,3	32,4	36,5	40,5	57,5
AR-165609P-HT	EFE-165609-HT	10,7	16,0	26,7	32,0	42,7	48,1	53,4	75,8
AQ-202017P-HT	EFE-202017-HT	9,0	13,5	22,4	26,9	35,9	40,4	44,9	63,7
AR-203017P-HT	EFE-203017-HT	10,4	15,7	26,1	31,3	41,7	47,0	52,2	74,0
AQ-252612P-HT	EFE-252612-HT	9,4	14,1	23,5	28,2	37,6	42,4	47,1	66,8
AQ-252616P-HT	EFE-252616-HT	10,4	15,6	26,0	31,1	41,5	46,7	51,9	73,7
AR-254012P-HT	EFE-254012-HT	11,4	17,1	28,5	34,2	45,7	51,4	57,1	81,0
AR-254016P-HT	EFE-254016-HT	13,1	19,6	32,7	39,3	52,4	58,9	65,5	92,9
AR-256012P-HT	EFE-256012-HT	14,5	21,8	36,3	43,6	58,1	65,3	72,6	103,0
AR-304020P-HT	EFE-304020-HT	16,2	24,2	40,4	48,5	64,7	72,7	80,8	114,7
AQ-363609P-HT	EFE-363609-HT	11,5	17,3	28,8	34,6	46,1	51,8	57,6	81,8
AR-406025P-HT	EFE-406025-HT	25,2	37,8	62,9	75,5	100,7	113,3	125,8	178,6
AQ-414012P-HT	EFE-414012-HT	14,6	21,8	36,4	43,7	58,2	65,5	72,8	103,0
AQ-414020P-HT	EFE-414020-HT	18,3	27,5	45,8	55,0	73,3	82,4	91,6	130,0

Enclosure types (polyester)		Maximum power dissipation (W) – Tamb. up to **60**°C						
		INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)	INTERNAL TEMP.127°C (T4/T135°C)
AQ-080806P-HT	EFE-080806-HT	1,7	3,5	4,4	6,1	7,0	7,8	11,7
AQ-080808P-HT	EFE-080808-HT	2,3	4,6	5,7	8,0	9,1	10,2	15,2
AR-081106P-HT	EFE-081106-HT	2,1	4,3	5,3	7,5	8,5	9,6	14,3
AR-081108P-HT	EFE-081108-HT	2,8	5,6	7,0	9,8	11,2	12,6	18,7
AR-081606P-HT	EFE-081606-HT	2,9	5,8	7,2	10,1	11,6	13,0	19,4
AR-081608P-HT	EFE-081608-HT	3,4	6,8	8,5	11,9	13,7	15,4	22,9
AR-081906P-HT	EFE-081906-HT	3,2	6,4	8,0	11,2	12,8	14,4	21,4
AR-081908P-HT	EFE-081908-HT	3,8	7,5	9,4	13,2	15,1	17,0	25,3
AR-082306P-HT	EFE-082306-HT	3,6	7,2	9,0	12,6	14,4	16,2	24,1
AR-082308P-HT	EFE-082308-HT	4,2	8,5	10,6	14,8	16,9	19,0	28,3
AQ-121209P-HT	EFE-121209-HT	4,0	8,0	10,0	14,0	15,9	17,9	26,7
AR-122209P-HT	EFE-122209-HT	5,4	10,8	13,5	18,9	21,6	24,3	36,2
AQ-161609P-HT	EFE-161609-HT	5,2	10,4	13,0	18,2	20,8	23,4	34,8
AR-162609P-HT	EFE-162609-HT	6,7	13,4	16,8	23,5	26,8	30,2	44,9
AR-163609P-HT	EFE-163609-HT	8,1	16,2	20,3	28,4	32,4	36,5	54,2
AR-165609P-HT	EFE-165609-HT	10,7	21,4	26,7	37,4	42,7	48,1	71,5
AQ-202017P-HT	EFE-202017-HT	9,0	18,0	22,4	31,4	35,9	40,4	60,1
AR-203017P-HT	EFE-203017-HT	10,4	20,9	26,1	36,5	41,7	47,0	69,9
AQ-252612P-HT	EFE-252612-HT	9,4	18,8	23,5	32,9	37,6	42,4	63,0
AQ-252616P-HT	EFE-252616-HT	10,4	20,8	26,0	36,3	41,5	46,7	69,5
AR-254012P-HT	EFE-254012-HT	11,4	22,8	28,5	39,9	45,7	51,4	76,5
AR-254016P-HT	EFE-254016-HT	13,1	26,2	32,7	45,8	52,4	58,9	87,7
AR-256012P-HT	EFE-256012-HT	14,5	29,0	36,3	50,8	58,1	65,3	97,2
AR-304020P-HT	EFE-304020-HT	16,2	32,3	40,4	56,6	64,7	72,7	108,3
AQ-363609P-HT	EFE-363609-HT	11,5	23,0	28,8	40,3	46,1	51,8	77,1
AR-406025P-HT	EFE-406025-HT	25,2	50,3	62,9	88,1	100,7	113,3	168,7
AQ-414012P-HT	EFE-414012-HT	14,6	29,1	36,4	51,0	58,2	65,5	97,5
AQ-414020P-HT	EFE-414020-HT	18,3	36,6	45,8	64,1	73,3	82,4	122,7

Enclosure types (polyester)		Maximum power dissipation (W) Tamb. up to **95**°C		
		INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)	INTERNAL TEMP.127°C (T4/T135°C)
AQ-080806P-HT	EFE-080806-HT	0,9	1,7	5,6
AQ-080808P-HT	EFE-080808-HT	1,1	2,3	7,3
AR-081106P-HT	EFE-081106-HT	1,1	2,1	6,5
AR-081108P-HT	EFE-081108-HT	1,4	2,8	9,0
AR-081606P-HT	EFE-081606-HT	1,4	2,9	9,2
AR-081608P-HT	EFE-081608-HT	1,7	3,4	10,9
AR-081906P-HT	EFE-081906-HT	1,6	3,2	10,2
AR-081908P-HT	EFE-081908-HT	1,9	3,8	12,1
AR-082306P-HT	EFE-082306-HT	1,8	3,6	11,5
AR-082308P-HT	EFE-082308-HT	2,1	4,2	13,5
AQ-121209P-HT	EFE-121209-HT	2,0	4,0	12,8
AR-122209P-HT	EFE-122209-HT	2,7	5,4	17,3
AQ-161609P-HT	EFE-161609-HT	2,6	5,2	16,6
AR-162609P-HT	EFE-162609-HT	3,4	6,7	21,5
AR-163609P-HT	EFE-163609-HT	4,1	8,1	26,0
AR-165609P-HT	EFE-165609-HT	5,3	10,7	34,2
AQ-202017P-HT	EFE-202017-HT	4,5	9,0	28,7
AR-203017P-HT	EFE-203017-HT	5,2	10,4	33,4
AQ-252612P-HT	EFE-252612-HT	4,7	9,4	30,1
AQ-252616P-HT	EFE-252616-HT	5,2	10,4	33,2
AR-254012P-HT	EFE-254012-HT	5,7	11,4	36,5
AR-254016P-HT	EFE-254016-HT	6,5	13,1	41,9
AR-256012P-HT	EFE-256012-HT	7,3	14,5	46,4
AR-304020P-HT	EFE-304020-HT	8,1	16,2	51,8
AQ-363609P-HT	EFE-363609-HT	5,8	11,5	36,8
AR-406025P-HT	EFE-406025-HT	12,6	25,2	80,6
AQ-414012P-HT	EFE-414012-HT	7,3	14,6	46,6
AQ-414020P-HT	EFE-414020-HT	9,2	18,3	58,6

Power dissipation – HT aluminium alloy enclosures

Enclosure types (aluminium)		Maximum power dissipation (W) – Tamb. up to **40**°C							
		INTERNAL TEMP.60°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)	INTERNAL TEMP.130°C (T4/T135°C)
AQ-080806AL-HT	EFXE-080806AL-HT	5,2	7,8	10,4	11,7	14,3	15,6	16,9	23,4
AR-081306AL-HT	EFXE-081306AL-HT	7,0	10,6	14,1	15,9	19,4	21,2	23,0	31,8
AR-081806AL-HT	EFXE-081806AL-HT	8,9	13,3	17,8	20,0	24,5	26,7	28,9	40,0
AR-082505AL-HT	EFXE-082505AL-HT	10,9	16,4	21,9	24,7	30,1	32,9	35,6	49,4
AQ-101008AL-HT	EFXE-101008AL-HT	8,7	13,0	17,4	19,6	23,9	26,1	28,3	39,2
AR-101608AL-HT	EFXE-101608AL-HT	11,5	17,3	23,1	26,0	31,8	34,7	37,6	52,0
AR-102008AL-HT	EFXE-102008AL-HT	13,4	20,1	26,8	30,2	36,9	40,3	43,6	60,4
AQ-121208AL-HT	EFXE-121208AL-HT	10,8	16,2	21,6	24,3	29,7	32,4	35,1	48,6
AQ-121209AL-HT	EFXE-121209AL-HT	11,6	17,5	23,3	26,2	32,1	35,0	37,9	52,5
AR-122208AL-HT	EFXE-122208AL-HT	15,6	23,5	31,3	35,3	43,1	47,0	50,9	70,6
AR-122209AL-HT	EFXE-122209AL-HT	16,8	25,3	33,7	37,9	46,3	50,6	54,8	75,9
AR-123608AL-HT	EFXE-123608AL-HT	22,3	33,5	44,7	50,3	61,5	67,1	72,7	100,7
AQ-141409AL-HT	EFXE-141409AL-HT	13,7	20,6	27,5	31,0	37,9	41,3	44,8	62,0
AR-142009AL-HT	EFXE-142009AL-HT	17,1	25,7	34,2	38,5	47,1	51,4	55,7	77,1
AQ-161609AL-HT	EFXE-161609AL-HT	16,1	24,1	32,2	36,2	44,2	48,3	52,3	72,4
AR-162609AL-HT	EFXE-162609AL-HT	21,9	32,8	43,8	49,3	60,2	65,7	71,2	98,6
AR-163609AL-HT	EFXE-163609AL-HT	27,5	41,3	55,1	62,0	75,7	82,6	89,5	124,0
AR-165609AL-HT	EFXE-165609AL-HT	38,4	57,7	76,9	86,6	105,8	115,4	125,0	173,2
AQ-181810AL-HT	EFXE-181810AL-HT	19,7	29,6	39,5	44,4	54,3	59,2	64,2	88,8
AR-182810AL-HT	EFXE-182810AL-HT	26,1	39,1	52,2	58,7	71,8	78,3	84,8	117,5
AR-102311AL-HT	EFXE-102311AL-HT	18,2	27,3	36,5	41,0	50,1	54,7	59,3	82,1
AR-202311AL-HT	EFXE-202311AL-HT	26,1	39,1	52,2	58,7	71,7	78,3	84,8	117,4
AR-202318AL-HT	EFXE-202318AL-HT	35,9	53,9	71,8	80,8	98,8	107,8	116,8	161,7
AR-232811AL-HT	EFXE-232811AL-HT	31,6	47,5	63,3	71,3	87,1	95,0	103,0	142,6
AR-233311AL-HT	EFXE-233311AL-HT	35,3	52,9	70,6	79,4	97,0	105,9	114,7	158,8
AR-233318AL-HT	EFXE-233318AL-HT	47,5	71,3	95,1	107,0	130,8	142,7	154,6	214,1
AR-234011AL-HT	EFXE-234011AL-HT	40,2	60,4	80,5	90,6	110,7	120,8	130,9	181,2
AR-234023AL-HT	EFXE-234023AL-HT	62,2	93,3	124,5	140,0	171,2	186,7	202,3	280,1
AR-236011AL-HT	EFXE-236011AL-HT	54,1	81,2	108,3	121,9	148,9	162,5	176,0	243,8
AR-314011AL-HT	EFXE-314011AL-HT	48,6	72,9	97,2	109,3	133,6	145,8	157,9	218,7
AR-314014AL-HT	EFXE-314014AL-HT	54,9	82,4	109,9	123,7	151,2	164,9	178,7	247,4
AR-314018AL-HT	EFXE-314018AL-HT	63,8	95,7	127,6	143,5	175,4	191,4	207,3	287,1
AR-314023AL-HT	EFXE-314023AL-HT	73,5	110,3	147,1	165,5	202,3	220,7	239,1	331,0
AR-316011AL-HT	EFXE-316011AL-HT	64,0	96,0	128,1	144,1	176,1	192,1	208,1	288,2
AR-316018AL-HT	EFXE-316018AL-HT	82,7	124,1	165,5	186,2	227,6	248,3	268,9	372,4
AQ-606020AL-HT	EFXE-606020AL-HT	129,1	193,7	258,3	290,5	355,1	387,4	419,7	581,1

Enclosure types (aluminium)		Maximum power dissipation (W) – Tamb. up to **50**°C							
		INTERNAL TEMP.60°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)	INTERNAL TEMP.130°C (T4/T135°C)
AQ-080806AL-HT	EFXE-080806AL-HT	2,6	5,2	7,8	9,1	11,7	13,0	14,3	20,8
AR-081306AL-HT	EFXE-081306AL-HT	3,5	7,0	10,6	12,3	15,9	17,7	19,4	28,3
AR-081806AL-HT	EFXE-081806AL-HT	4,4	8,9	13,3	15,5	20,0	22,2	24,5	35,6
AR-082505AL-HT	EFXE-082505AL-HT	5,4	10,9	16,4	19,2	24,7	27,4	30,1	43,9
AQ-101008AL-HT	EFXE-101008AL-HT	4,3	8,7	13,0	15,2	19,6	21,7	23,9	34,8
AR-101608AL-HT	EFXE-101608AL-HT	5,7	11,5	17,3	20,2	26,0	28,9	31,8	46,2
AR-102008AL-HT	EFXE-102008AL-HT	6,7	13,4	20,1	23,5	30,2	33,5	36,9	53,7
AQ-121208AL-HT	EFXE-121208AL-HT	5,4	10,8	16,2	18,9	24,3	27,0	29,7	43,2
AQ-121209AL-HT	EFXE-121209AL-HT	5,8	11,6	17,5	20,4	26,2	29,2	32,1	46,7
AR-122208AL-HT	EFXE-122208AL-HT	7,8	15,6	23,5	27,4	35,3	39,2	43,1	62,7
AR-122209AL-HT	EFXE-122209AL-HT	8,4	16,8	25,3	29,5	37,9	42,1	46,3	67,4
AR-123608AL-HT	EFXE-123608AL-HT	11,1	22,3	33,5	39,1	50,3	55,9	61,5	89,5
AQ-141409AL-HT	EFXE-141409AL-HT	6,8	13,7	20,6	24,1	31,0	34,4	37,9	55,1
AR-142009AL-HT	EFXE-142009AL-HT	8,5	17,1	25,7	30,0	38,5	42,8	47,1	68,5
AQ-161609AL-HT	EFXE-161609AL-HT	8,0	16,1	24,1	28,1	36,2	40,2	44,2	64,4
AR-162609AL-HT	EFXE-162609AL-HT	10,9	21,9	32,8	38,3	49,3	54,8	60,2	87,6
AR-163609AL-HT	EFXE-163609AL-HT	13,7	27,5	41,3	48,2	62,0	68,9	75,7	110,2
AR-165609AL-HT	EFXE-165609AL-HT	19,2	38,4	57,7	67,3	86,6	96,2	105,8	153,9
AQ-181810AL-HT	EFXE-181810AL-HT	9,8	19,7	29,6	34,5	44,4	49,3	54,3	79,0
AR-182810AL-HT	EFXE-182810AL-HT	13,0	26,1	39,1	45,7	58,7	65,2	71,8	104,4
AR-102311AL-HT	EFXE-102311AL-HT	9,1	18,2	27,3	31,9	41,0	45,6	50,1	73,0
AR-202311AL-HT	EFXE-202311AL-HT	13,0	26,1	39,1	45,6	58,7	65,2	71,7	104,4
AR-202318AL-HT	EFXE-202318AL-HT	17,9	35,9	53,9	62,8	80,8	89,8	98,8	143,7
AR-232811AL-HT	EFXE-232811AL-HT	15,8	31,6	47,5	55,4	71,3	79,2	87,1	126,7
AR-233311AL-HT	EFXE-233311AL-HT	17,6	35,3	52,9	61,7	79,4	88,2	97,0	141,2
AR-233318AL-HT	EFXE-233318AL-HT	23,7	47,5	71,3	83,2	107,0	118,9	130,8	190,3
AR-234011AL-HT	EFXE-234011AL-HT	20,1	40,2	60,4	70,5	90,6	100,7	110,7	161,1
AR-234023AL-HT	EFXE-234023AL-HT	31,1	62,2	93,3	108,9	140,0	155,6	171,2	249,0
AR-236011AL-HT	EFXE-236011AL-HT	27,0	54,1	81,2	94,8	121,9	135,4	148,9	216,7
AR-314011AL-HT	EFXE-314011AL-HT	24,3	48,6	72,9	85,0	109,3	121,5	133,6	194,4
AR-314014AL-HT	EFXE-314014AL-HT	27,4	54,9	82,4	96,2	123,7	137,4	151,2	219,9
AR-314018AL-HT	EFXE-314018AL-HT	31,9	63,8	95,7	111,6	143,5	159,5	175,4	255,2
AR-314023AL-HT	EFXE-314023AL-HT	36,7	73,5	110,3	128,7	165,5	183,9	202,3	294,2
AR-316011AL-HT	EFXE-316011AL-HT	32,0	64,0	96,0	112,0	144,1	160,1	176,1	256,2
AR-316018AL-HT	EFXE-316018AL-HT	41,3	82,7	124,1	144,8	186,2	206,9	227,6	331,0
AQ-606020AL-HT	EFXE-606020AL-HT	64,5	129,1	193,7	226,0	290,5	322,8	355,1	516,6

Enclosure types (aluminium)		Maximum power dissipation (W) – Tamb. up to **55**°C							
		INTERNAL TEMP.65°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)	INTERNAL TEMP.130°C (T4/T135°C)
AQ-080806AL-HT	EFXE-080806AL-HT	2,6	3,9	6,5	7,8	10,4	11,7	13,0	19,5
AR-081306AL-HT	EFXE-081306AL-HT	3,5	5,3	8,8	10,6	14,1	15,9	17,7	26,5
AR-081806AL-HT	EFXE-081806AL-HT	4,4	6,6	11,1	13,3	17,8	20,0	22,2	33,4
AR-082505AL-HT	EFXE-082505AL-HT	5,4	8,2	13,7	16,4	21,9	24,7	27,4	41,1
AQ-101008AL-HT	EFXE-101008AL-HT	4,3	6,5	10,8	13,0	17,4	19,6	21,7	32,6
AR-101608AL-HT	EFXE-101608AL-HT	5,7	8,6	14,4	17,3	23,1	26,0	28,9	43,3
AR-102008AL-HT	EFXE-102008AL-HT	6,7	10,0	16,7	20,1	26,8	30,2	33,5	50,3
AQ-121208AL-HT	EFXE-121208AL-HT	5,4	8,1	13,5	16,2	21,6	24,3	27,0	40,5
AQ-121209AL-HT	EFXE-121209AL-HT	5,8	8,7	14,6	17,5	23,3	26,2	29,2	43,8
AR-122208AL-HT	EFXE-122208AL-HT	7,8	11,7	19,6	23,5	31,3	35,3	39,2	58,8
AR-122209AL-HT	EFXE-122209AL-HT	8,4	12,6	21,0	25,3	33,7	37,9	42,1	63,2
AR-123608AL-HT	EFXE-123608AL-HT	11,1	16,7	27,9	33,5	44,7	50,3	55,9	83,9
AQ-141409AL-HT	EFXE-141409AL-HT	6,8	10,3	17,2	20,6	27,5	31,0	34,4	51,7
AR-142009AL-HT	EFXE-142009AL-HT	8,5	12,8	21,4	25,7	34,2	38,5	42,8	64,3
AQ-161609AL-HT	EFXE-161609AL-HT	8,0	12,0	20,1	24,1	32,2	36,2	40,2	60,4
AR-162609AL-HT	EFXE-162609AL-HT	10,9	16,4	27,4	32,8	43,8	49,3	54,8	82,2
AR-163609AL-HT	EFXE-163609AL-HT	13,7	20,6	34,4	41,3	55,1	62,0	68,9	103,3
AR-165609AL-HT	EFXE-165609AL-HT	19,2	28,8	48,1	57,7	76,9	86,6	96,2	144,3
AQ-181810AL-HT	EFXE-181810AL-HT	9,8	14,8	24,6	29,6	39,5	44,4	49,3	74,0
AR-182810AL-HT	EFXE-182810AL-HT	13,0	19,5	32,6	39,1	52,2	58,7	65,2	97,9
AR-102311AL-HT	EFXE-102311AL-HT	9,1	13,6	22,8	27,3	36,5	41,0	45,6	68,4
AR-202311AL-HT	EFXE-202311AL-HT	13,0	19,5	32,6	39,1	52,2	58,7	65,2	97,9
AR-202318AL-HT	EFXE-202318AL-HT	17,9	26,9	44,9	53,9	71,8	80,8	89,8	134,7
AR-232811AL-HT	EFXE-232811AL-HT	15,8	23,7	39,6	47,5	63,3	71,3	79,2	118,8
AR-233311AL-HT	EFXE-233311AL-HT	17,6	26,4	44,1	52,9	70,6	79,4	88,2	132,3
AR-233318AL-HT	EFXE-233318AL-HT	23,7	35,6	59,4	71,3	95,1	107,0	118,9	178,4
AR-234011AL-HT	EFXE-234011AL-HT	20,1	30,2	50,3	60,4	80,5	90,6	100,7	151,0
AR-234023AL-HT	EFXE-234023AL-HT	31,1	46,6	77,8	93,3	124,5	140,0	155,6	233,4
AR-236011AL-HT	EFXE-236011AL-HT	27,0	40,6	67,7	81,2	108,3	121,9	135,4	203,1
AR-314011AL-HT	EFXE-314011AL-HT	24,3	36,4	60,7	72,9	97,2	109,3	121,5	182,3
AR-314014AL-HT	EFXE-314014AL-HT	27,4	41,2	68,7	82,4	109,9	123,7	137,4	206,2
AR-314018AL-HT	EFXE-314018AL-HT	31,9	47,8	79,7	95,7	127,6	143,5	159,5	239,2
AR-314023AL-HT	EFXE-314023AL-HT	36,7	55,1	91,9	110,3	147,1	165,5	183,9	275,8
AR-316011AL-HT	EFXE-316011AL-HT	32,0	48,0	80,0	96,0	128,1	144,1	160,1	240,1
AR-316018AL-HT	EFXE-316018AL-HT	41,3	62,0	103,4	124,1	165,5	186,2	206,9	310,3
AQ-606020AL-HT	EFXE-606020AL-HT	64,5	96,8	161,4	193,7	258,3	290,5	322,8	484,3

Enclosure types (aluminium)		Maximum power dissipation (W) – Tamb. up to **60**°C						
		INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)	INTERNAL TEMP.130°C (T4/T135°C)
AQ-080806AL-HT	EFXE-080806AL-HT	2,6	5,2	6,5	9,1	10,4	11,7	18,2
AR-081306AL-HT	EFXE-081306AL-HT	3,5	7,0	8,8	12,3	14,1	15,9	24,7
AR-081806AL-HT	EFXE-081806AL-HT	4,4	8,9	11,1	15,5	17,8	20,0	31,1
AR-082505AL-HT	EFXE-082505AL-HT	5,4	10,9	13,7	19,2	21,9	24,7	38,4
AQ-101008AL-HT	EFXE-101008AL-HT	4,3	8,7	10,8	15,2	17,4	19,6	30,4
AR-101608AL-HT	EFXE-101608AL-HT	5,7	11,5	14,4	20,2	23,1	26,0	40,5
AR-102008AL-HT	EFXE-102008AL-HT	6,7	13,4	16,7	23,5	26,8	30,2	47,0
AQ-121208AL-HT	EFXE-121208AL-HT	5,4	10,8	13,5	18,9	21,6	24,3	37,8
AQ-121209AL-HT	EFXE-121209AL-HT	5,8	11,6	14,6	20,4	23,3	26,2	40,8
AR-122208AL-HT	EFXE-122208AL-HT	7,8	15,6	19,6	27,4	31,3	35,3	54,9
AR-122209AL-HT	EFXE-122209AL-HT	8,4	16,8	21,0	29,5	33,7	37,9	59,0
AR-123608AL-HT	EFXE-123608AL-HT	11,1	22,3	27,9	39,1	44,7	50,3	78,3
AQ-141409AL-HT	EFXE-141409AL-HT	6,8	13,7	17,2	24,1	27,5	31,0	48,2
AR-142009AL-HT	EFXE-142009AL-HT	8,5	17,1	21,4	30,0	34,2	38,5	60,0
AQ-161609AL-HT	EFXE-161609AL-HT	8,0	16,1	20,1	28,1	32,2	36,2	56,3
AR-162609AL-HT	EFXE-162609AL-HT	10,9	21,9	27,4	38,3	43,8	49,3	76,7
AR-163609AL-HT	EFXE-163609AL-HT	13,7	27,5	34,4	48,2	55,1	62,0	96,4
AR-165609AL-HT	EFXE-165609AL-HT	19,2	38,4	48,1	67,3	76,9	86,6	134,7
AQ-181810AL-HT	EFXE-181810AL-HT	9,8	19,7	24,6	34,5	39,5	44,4	69,1
AR-182810AL-HT	EFXE-182810AL-HT	13,0	26,1	32,6	45,7	52,2	58,7	91,4
AR-102311AL-HT	EFXE-102311AL-HT	9,1	18,2	22,8	31,9	36,5	41,0	63,8
AR-202311AL-HT	EFXE-202311AL-HT	13,0	26,1	32,6	45,6	52,2	58,7	91,3
AR-202318AL-HT	EFXE-202318AL-HT	17,9	35,9	44,9	62,8	71,8	80,8	125,7
AR-232811AL-HT	EFXE-232811AL-HT	15,8	31,6	39,6	55,4	63,3	71,3	110,9
AR-233311AL-HT	EFXE-233311AL-HT	17,6	35,3	44,1	61,7	70,6	79,4	123,5
AR-233318AL-HT	EFXE-233318AL-HT	23,7	47,5	59,4	83,2	95,1	107,0	166,5
AR-234011AL-HT	EFXE-234011AL-HT	20,1	40,2	50,3	70,5	80,5	90,6	141,0
AR-234023AL-HT	EFXE-234023AL-HT	31,1	62,2	77,8	108,9	124,5	140,0	217,9
AR-236011AL-HT	EFXE-236011AL-HT	27,0	54,1	67,7	94,8	108,3	121,9	189,6
AR-314011AL-HT	EFXE-314011AL-HT	24,3	48,6	60,7	85,0	97,2	109,3	170,1
AR-314014AL-HT	EFXE-314014AL-HT	27,4	54,9	68,7	96,2	109,9	123,7	192,4
AR-314018AL-HT	EFXE-314018AL-HT	31,9	63,8	79,7	111,6	127,6	143,5	223,3
AR-314023AL-HT	EFXE-314023AL-HT	36,7	73,5	91,9	128,7	147,1	165,5	257,4
AR-316011AL-HT	EFXE-316011AL-HT	32,0	64,0	80,0	112,0	128,1	144,1	224,1
AR-316018AL-HT	EFXE-316018AL-HT	41,3	82,7	103,4	144,8	165,5	186,2	289,6
AQ-606020AL-HT	EFXE-606020AL-HT	64,5	129,1	161,4	226,0	258,3	290,5	452,0

Enclosure types (aluminium)		Maximum power dissipation (W) Tamb. up to **95**°C		
		INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)	INTERNAL TEMP.130°C (T4/T135°C)
AQ-080806AL-HT	EFXE-080806AL-HT	1,3	2,6	9,1
AR-081306AL-HT	EFXE-081306AL-HT	1,7	3,5	12,3
AR-081806AL-HT	EFXE-081806AL-HT	2,2	4,4	15,5
AR-082505AL-HT	EFXE-082505AL-HT	2,7	5,4	19,2
AQ-101008AL-HT	EFXE-101008AL-HT	2,1	4,3	15,2
AR-101608AL-HT	EFXE-101608AL-HT	2,8	5,7	20,2
AR-102008AL-HT	EFXE-102008AL-HT	3,3	6,7	23,5
AQ-121208AL-HT	EFXE-121208AL-HT	2,7	5,4	18,9
AQ-121209AL-HT	EFXE-121209AL-HT	2,9	5,8	20,4
AR-122208AL-HT	EFXE-122208AL-HT	3,9	7,8	27,4
AR-122209AL-HT	EFXE-122209AL-HT	4,2	8,4	29,5
AR-123608AL-HT	EFXE-123608AL-HT	5,5	11,1	39,1
AQ-141409AL-HT	EFXE-141409AL-HT	3,4	6,8	24,1
AR-142009AL-HT	EFXE-142009AL-HT	4,2	8,5	30,0
AQ-161609AL-HT	EFXE-161609AL-HT	4,0	8,0	28,1
AR-162609AL-HT	EFXE-162609AL-HT	5,4	10,9	38,3
AR-163609AL-HT	EFXE-163609AL-HT	6,8	13,7	48,2
AR-165609AL-HT	EFXE-165609AL-HT	9,6	19,2	67,3
AQ-181810AL-HT	EFXE-181810AL-HT	4,9	9,8	34,5
AR-182810AL-HT	EFXE-182810AL-HT	6,5	13,0	45,7
AR-102311AL-HT	EFXE-102311AL-HT	4,5	9,1	31,9
AR-202311AL-HT	EFXE-202311AL-HT	6,5	13,0	45,6
AR-202318AL-HT	EFXE-202318AL-HT	8,9	17,9	62,8
AR-232811AL-HT	EFXE-232811AL-HT	7,9	15,8	55,4
AR-233311AL-HT	EFXE-233311AL-HT	8,8	17,6	61,7
AR-233318AL-HT	EFXE-233318AL-HT	11,8	23,7	83,2
AR-234011AL-HT	EFXE-234011AL-HT	10,0	20,1	70,5
AR-234023AL-HT	EFXE-234023AL-HT	15,5	31,1	108,9
AR-236011AL-HT	EFXE-236011AL-HT	13,5	27,0	94,8
AR-314011AL-HT	EFXE-314011AL-HT	12,1	24,3	85,0
AR-314014AL-HT	EFXE-314014AL-HT	13,7	27,4	96,2
AR-314018AL-HT	EFXE-314018AL-HT	15,9	31,9	111,6
AR-314023AL-HT	EFXE-314023AL-HT	18,3	36,7	128,7
AR-316011AL-HT	EFXE-316011AL-HT	16,0	32,0	112,0
AR-316018AL-HT	EFXE-316018AL-HT	20,6	41,3	144,8
AQ-606020AL-HT	EFXE-606020AL-HT	32,2	64,5	226,0

Power dissipation – Glass fiber reinforced polyester resin enclosures

Enclosure types (polyester)		Maximum power dissipation (W) – Tamb. up to **40**°C						
		INTERNAL TEMP.60°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
AQ-080806P	EFE-080806	3,4	5,2	6,9	7,8	9,5	10,4	11,3
AQ-080808P	EFE-080808	4,5	6,8	9,1	10,2	12,5	13,6	14,7
AR-081106P	EFE-081106	4,2	6,4	8,5	9,6	11,7	12,8	13,8
AR-081606P	EFE-081606	5,7	8,6	11,5	13,0	15,9	17,3	18,8
AR-081906P	EFE-081906	6,4	9,6	12,8	14,4	17,6	19,2	20,8
AQ-121209P	EFE-121209	7,9	11,9	15,9	17,9	21,9	23,9	25,9
AR-122209P	EFE-122209	10,8	16,2	21,6	24,3	29,7	32,4	35,1
AQ-161609P	EFE-161609	10,3	15,5	20,7	23,3	28,5	31,1	33,7
AR-162609P	EFE-162609	13,4	20,1	26,8	30,1	36,8	40,2	43,5
AR-163609P	EFE-163609	16,2	24,3	32,4	36,4	44,5	48,6	52,6
AQ-252612P	EFE-252612	18,8	28,2	37,6	42,3	51,7	56,4	61,1
AQ-252616P	EFE-252616	21,7	32,6	43,5	49,0	59,9	65,3	70,8
AR-254012P	EFE-254012	23,9	35,9	47,9	53,9	65,9	71,8	77,8
AR-254016P	EFE-254016	27,4	41,2	54,9	61,8	75,6	82,4	89,3
AR-256012P	EFE-256012	29,0	43,5	58,0	65,3	79,8	87,1	94,3
AQ-414012P	EFE-414012	29,1	43,6	58,2	65,5	80,0	87,3	94,6
AQ-414016P	EFE-414016	32,9	49,4	65,9	74,1	90,6	98,8	107,0

Enclosure types (polyester)		Maximum power dissipation (W) – Tamb. up to **50**°C						
		INTERNAL TEMP.60°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
AQ-080806P	EFE-080806	1,7	3,4	5,2	6,0	7,8	8,7	9,5
AQ-080808P	EFE-080808	2,2	4,5	6,8	7,9	10,2	11,3	12,5
AR-081106P	EFE-081106	2,1	4,2	6,4	7,4	9,6	10,6	11,7
AR-081606P	EFE-081606	2,8	5,7	8,6	10,1	13,0	14,4	15,9
AR-081906P	EFE-081906	3,2	6,4	9,6	11,2	14,4	16,0	17,6
AQ-121209P	EFE-121209	3,9	7,9	11,9	13,9	17,9	19,9	21,9
AR-122209P	EFE-122209	5,4	10,8	16,2	18,9	24,3	27,0	29,7
AQ-161609P	EFE-161609	5,1	10,3	15,5	18,1	23,3	25,9	28,5
AR-162609P	EFE-162609	6,7	13,4	20,1	23,4	30,1	33,5	36,8
AR-163609P	EFE-163609	8,1	16,2	24,3	28,3	36,4	40,5	44,5
AQ-252612P	EFE-252612	9,4	18,8	28,2	32,9	42,3	47,0	51,7
AQ-252616P	EFE-252616	10,8	21,7	32,6	38,1	49,0	54,4	59,9
AR-254012P	EFE-254012	11,9	23,9	35,9	41,9	53,9	59,9	65,9
AR-254016P	EFE-254016	13,7	27,4	41,2	48,1	61,8	68,7	75,6
AR-256012P	EFE-256012	14,5	29,0	43,5	50,8	65,3	72,6	79,8
AQ-414012P	EFE-414012	14,5	29,1	43,6	50,9	65,5	72,7	80,0
AQ-414016P	EFE-414016	16,4	32,9	49,4	57,6	74,1	82,3	90,6

Enclosure types (polyester)		Maximum power dissipation (W) – Tamb. up to **55**°C						
		INTERNAL TEMP.65°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
AQ-080806P	EFE-080806	1,7	2,6	4,3	5,2	6,9	7,8	8,7
AQ-080808P	EFE-080808	2,2	3,4	5,6	6,8	9,1	10,2	11,3
AR-081106P	EFE-081106	2,1	3,2	5,3	6,4	8,5	9,6	10,6
AR-081606P	EFE-081606	2,8	4,3	7,2	8,6	11,5	13,0	14,4
AR-081906P	EFE-081906	3,2	4,8	8,0	9,6	12,8	14,4	16,0
AQ-121209P	EFE-121209	3,9	5,9	9,9	11,9	15,9	17,9	19,9
AR-122209P	EFE-122209	5,4	8,1	13,5	16,2	21,6	24,3	27,0
AQ-161609P	EFE-161609	5,1	7,7	12,9	15,5	20,7	23,3	25,9
AR-162609P	EFE-162609	6,7	10,0	16,7	20,1	26,8	30,1	33,5
AR-163609P	EFE-163609	8,1	12,1	20,2	24,3	32,4	36,4	40,5
AQ-252612P	EFE-252612	9,4	14,1	23,5	28,2	37,6	42,3	47,0
AQ-252616P	EFE-252616	10,8	16,3	27,2	32,6	43,5	49,0	54,4
AR-254012P	EFE-254012	11,9	17,9	29,9	35,9	47,9	53,9	59,9
AR-254016P	EFE-254016	13,7	20,6	34,3	41,2	54,9	61,8	68,7
AR-256012P	EFE-256012	14,5	21,7	36,3	43,5	58,0	65,3	72,6
AQ-414012P	EFE-414012	14,5	21,8	36,3	43,6	58,2	65,5	72,7
AQ-414016P	EFE-414016	16,4	24,7	41,1	49,4	65,9	74,1	82,3

Enclosure types (polyester)		Maximum power dissipation (W) – Tamb. up to **60**°C					
		INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
AQ-080806P	EFE-080806	1,7	3,4	4,3	6,0	6,9	7,8
AQ-080808P	EFE-080808	2,2	4,5	5,6	7,9	9,1	10,2
AR-081106P	EFE-081106	2,1	4,2	5,3	7,4	8,5	9,6
AR-081606P	EFE-081606	2,8	5,7	7,2	10,1	11,5	13,0
AR-081906P	EFE-081906	3,2	6,4	8,0	11,2	12,8	14,4
AQ-121209P	EFE-121209	3,9	7,9	9,9	13,9	15,9	17,9
AR-122209P	EFE-122209	5,4	10,8	13,5	18,9	21,6	24,3
AQ-161609P	EFE-161609	5,1	10,3	12,9	18,1	20,7	23,3
AR-162609P	EFE-162609	6,7	13,4	16,7	23,4	26,8	30,1
AR-163609P	EFE-163609	8,1	16,2	20,2	28,3	32,4	36,4
AQ-252612P	EFE-252612	9,4	18,8	23,5	32,9	37,6	42,3
AQ-252616P	EFE-252616	10,8	21,7	27,2	38,1	43,5	49,0
AR-254012P	EFE-254012	11,9	23,9	29,9	41,9	47,9	53,9
AR-254016P	EFE-254016	13,7	27,4	34,3	48,1	54,9	61,8
AR-256012P	EFE-256012	14,5	29,0	36,3	50,8	58,0	65,3
AQ-414012P	EFE-414012	14,5	29,1	36,3	50,9	58,2	65,5
AQ-414016P	EFE-414016	16,4	32,9	41,1	57,6	65,9	74,1

Enclosure types (polyester)		Maximum power dissipation (W) – Tamb. up to **95**°C	
		INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
AQ-080806P	EFE-080806	0,8	1,7
AQ-080808P	EFE-080808	1,1	2,2
AR-081106P	EFE-081106	1,0	2,1
AR-081606P	EFE-081606	1,4	2,8
AR-081906P	EFE-081906	1,6	3,2
AQ-121209P	EFE-121209	1,9	3,9
AR-122209P	EFE-122209	2,7	5,4
AQ-161609P	EFE-161609	2,5	5,1
AR-162609P	EFE-162609	3,3	6,7
AR-163609P	EFE-163609	4,0	8,1
AQ-252612P	EFE-252612	4,7	9,4
AQ-252616P	EFE-252616	5,4	10,8
AR-254012P	EFE-254012	5,9	11,9
AR-254016P	EFE-254016	6,8	13,7
AR-256012P	EFE-256012	7,2	14,5
AQ-414012P	EFE-414012	7,2	14,5
AQ-414016P	EFE-414016	8,2	16,4

Power dissipation – Aluminium alloy enclosures

Enclosure types (aluminium)		Maximum power dissipation (W) – Tamb. up to **40**°C						
		INTERNAL TEMP.60°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
AQ-080806AL	EFXE-080806AL	5,2	7,8	10,4	11,7	14,3	15,6	16,9
AR-081306AL	EFXE-081306AL	7,0	10,6	14,1	15,9	19,4	21,2	23,0
AR-081806AL	EFXE-081806AL	8,9	13,3	17,8	20,0	24,5	26,7	28,9
AR-081808AL	EFXE-081808AL	11,0	16,5	22,1	24,8	30,4	33,1	35,9
AR-082505AL	EFXE-082505AL	10,7	16,1	21,4	24,1	29,5	32,2	34,8
AR-082508AL	EFXE-082508AL	14,2	21,4	28,5	32,1	39,2	42,8	46,4
AQ-101008AL	EFXE-101008AL	8,7	13,0	17,4	19,6	23,9	26,1	28,3
AR-101508AL	EFXE-101508AL	11,1	16,6	22,2	24,9	30,5	33,3	36,0
AR-101608AL	EFXE-101608AL	11,5	17,3	23,1	26,0	31,8	34,7	37,6
AR-102008AL	EFXE-102008AL	13,4	20,1	26,8	30,2	36,9	40,3	43,6
AQ-121208AL	EFXE-121208AL	10,8	16,2	21,6	24,3	29,7	32,4	35,1
AR-122209AL	EFXE-122209AL	16,8	25,3	33,7	37,9	46,3	50,6	54,8
AQ-141409AL	EFXE-141409AL	13,7	20,6	27,5	31,0	37,9	41,3	44,8
AR-142009AL	EFXE-142009AL	17,1	25,7	34,2	38,5	47,1	51,4	55,7
AQ-161609AL	EFXE-161609AL	17,2	25,8	34,4	38,7	47,3	51,6	55,9
AR-162410AL	EFXE-162410AL	22,1	33,1	44,2	49,7	60,8	66,3	71,8
AR-162609AL	EFXE-162609AL	21,9	32,8	43,8	49,3	60,2	65,7	71,2
AQ-181810AL	EFXE-181810AL	19,7	29,6	39,5	44,4	54,3	59,2	64,2
AR-182810AL	EFXE-182810AL	26,1	39,1	52,2	58,7	71,8	78,3	84,8
AR-202311AL	EFXE-202311AL	25,8	38,7	51,6	58,0	71,0	77,4	83,9
AR-202318AL	EFXE-202318AL	35,5	53,3	71,1	80,0	97,8	106,7	115,6
AR-232811AL	EFXE-232811AL	31,6	47,5	63,3	71,3	87,1	95,0	103,0
AR-233312AL	EFXE-233312AL	37,0	55,6	74,1	83,4	101,9	111,2	120,5
AR-233318AL	EFXE-233318AL	47,5	71,3	95,1	107,0	130,8	142,7	154,6

Enclosure types (aluminium)		Maximum power dissipation (W) – Tamb. up to **50**°C						
		INTERNAL TEMP.60°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
AQ-080806AL	EFXE-080806AL	2,6	5,2	7,8	9,1	11,7	13,0	14,3
AR-081306AL	EFXE-081306AL	3,5	7,0	10,6	12,3	15,9	17,7	19,4
AR-081806AL	EFXE-081806AL	4,4	8,9	13,3	15,5	20,0	22,2	24,5
AR-081808AL	EFXE-081808AL	5,5	11,0	16,5	19,3	24,8	27,6	30,4
AR-082505AL	EFXE-082505AL	5,3	10,7	16,1	18,7	24,1	26,8	29,5
AR-082508AL	EFXE-082508AL	7,1	14,2	21,4	24,9	32,1	35,7	39,2
AQ-101008AL	EFXE-101008AL	4,3	8,7	13,0	15,2	19,6	21,7	23,9
AR-101508AL	EFXE-101508AL	5,5	11,1	16,6	19,4	24,9	27,7	30,5
AR-101608AL	EFXE-101608AL	5,7	11,5	17,3	20,2	26,0	28,9	31,8
AR-102008AL	EFXE-102008AL	6,7	13,4	20,1	23,5	30,2	33,5	36,9
AQ-121208AL	EFXE-121208AL	5,4	10,8	16,2	18,9	24,3	27,0	29,7
AR-122209AL	EFXE-122209AL	8,4	16,8	25,3	29,5	37,9	42,1	46,3
AQ-141409AL	EFXE-141409AL	6,8	13,7	20,6	24,1	31,0	34,4	37,9
AR-142009AL	EFXE-142009AL	8,5	17,1	25,7	30,0	38,5	42,8	47,1
AQ-161609AL	EFXE-161609AL	8,6	17,2	25,8	30,1	38,7	43,0	47,3
AR-162410AL	EFXE-162410AL	11,0	22,1	33,1	38,7	49,7	55,3	60,8
AR-162609AL	EFXE-162609AL	10,9	21,9	32,8	38,3	49,3	54,8	60,2
AQ-181810AL	EFXE-181810AL	9,8	19,7	29,6	34,5	44,4	49,3	54,3
AR-182810AL	EFXE-182810AL	13,0	26,1	39,1	45,7	58,7	65,2	71,8
AR-202311AL	EFXE-202311AL	12,9	25,8	38,7	45,1	58,0	64,5	71,0
AR-202318AL	EFXE-202318AL	17,7	35,5	53,3	62,2	80,0	88,9	97,8
AR-232811AL	EFXE-232811AL	15,8	31,6	47,5	55,4	71,3	79,2	87,1
AR-233312AL	EFXE-233312AL	18,5	37,0	55,6	64,8	83,4	92,7	101,9
AR-233318AL	EFXE-233318AL	23,7	47,5	71,3	83,2	107,0	118,9	130,8

Enclosure types (aluminium)		Maximum power dissipation (W) – Tamb. up to **55**°C						
		INTERNAL TEMP.65°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
AQ-080806AL	EFXE-080806AL	2,6	3,9	6,5	7,8	10,4	11,7	13,0
AR-081306AL	EFXE-081306AL	3,5	5,3	8,8	10,6	14,1	15,9	17,7
AR-081806AL	EFXE-081806AL	4,4	6,6	11,1	13,3	17,8	20,0	22,2
AR-081808AL	EFXE-081808AL	5,5	8,2	13,8	16,5	22,1	24,8	27,6
AR-082505AL	EFXE-082505AL	5,3	8,0	13,4	16,1	21,4	24,1	26,8
AR-082508AL	EFXE-082508AL	7,1	10,7	17,8	21,4	28,5	32,1	35,7
AQ-101008AL	EFXE-101008AL	4,3	6,5	10,8	13,0	17,4	19,6	21,7
AR-101508AL	EFXE-101508AL	5,5	8,3	13,8	16,6	22,2	24,9	27,7
AR-101608AL	EFXE-101608AL	5,7	8,6	14,4	17,3	23,1	26,0	28,9
AR-102008AL	EFXE-102008AL	6,7	10,0	16,7	20,1	26,8	30,2	33,5
AQ-121208AL	EFXE-121208AL	5,4	8,1	13,5	16,2	21,6	24,3	27,0
AR-122209AL	EFXE-122209AL	8,4	12,6	21,0	25,3	33,7	37,9	42,1
AQ-141409AL	EFXE-141409AL	6,8	10,3	17,2	20,6	27,5	31,0	34,4
AR-142009AL	EFXE-142009AL	8,5	12,8	21,4	25,7	34,2	38,5	42,8
AQ-161609AL	EFXE-161609AL	8,6	12,9	21,5	25,8	34,4	38,7	43,0
AR-162410AL	EFXE-162410AL	11,0	16,5	27,6	33,1	44,2	49,7	55,3
AR-162609AL	EFXE-162609AL	10,9	16,4	27,4	32,8	43,8	49,3	54,8
AQ-181810AL	EFXE-181810AL	9,8	14,8	24,6	29,6	39,5	44,4	49,3
AR-182810AL	EFXE-182810AL	13,0	19,5	32,6	39,1	52,2	58,7	65,2
AR-202311AL	EFXE-202311AL	12,9	19,3	32,2	38,7	51,6	58,0	64,5
AR-202318AL	EFXE-202318AL	17,7	26,6	44,4	53,3	71,1	80,0	88,9
AR-232811AL	EFXE-232811AL	15,8	23,7	39,6	47,5	63,3	71,3	79,2
AR-233312AL	EFXE-233312AL	18,5	27,8	46,3	55,6	74,1	83,4	92,7
AR-233318AL	EFXE-233318AL	23,7	35,6	59,4	71,3	95,1	107,0	118,9

Enclosure types (aluminium)		Maximum power dissipation (W) – Tamb. up to **60**°C					
		INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
AQ-080806AL	EFXE-080806AL	2,6	5,2	6,5	9,1	10,4	11,7
AR-081306AL	EFXE-081306AL	3,5	7,0	8,8	12,3	14,1	15,9
AR-081806AL	EFXE-081806AL	4,4	8,9	11,1	15,5	17,8	20,0
AR-081808AL	EFXE-081808AL	5,5	11,0	13,8	19,3	22,1	24,8
AR-082505AL	EFXE-082505AL	5,3	10,7	13,4	18,7	21,4	24,1
AR-082508AL	EFXE-082508AL	7,1	14,2	17,8	24,9	28,5	32,1
AQ-101008AL	EFXE-101008AL	4,3	8,7	10,8	15,2	17,4	19,6
AR-101508AL	EFXE-101508AL	5,5	11,1	13,8	19,4	22,2	24,9
AR-101608AL	EFXE-101608AL	5,7	11,5	14,4	20,2	23,1	26,0
AR-102008AL	EFXE-102008AL	6,7	13,4	16,7	23,5	26,8	30,2
AQ-121208AL	EFXE-121208AL	5,4	10,8	13,5	18,9	21,6	24,3
AR-122209AL	EFXE-122209AL	8,4	16,8	21,0	29,5	33,7	37,9
AQ-141409AL	EFXE-141409AL	6,8	13,7	17,2	24,1	27,5	31,0
AR-142009AL	EFXE-142009AL	8,5	17,1	21,4	30,0	34,2	38,5
AQ-161609AL	EFXE-161609AL	8,6	17,2	21,5	30,1	34,4	38,7
AR-162410AL	EFXE-162410AL	11,0	22,1	27,6	38,7	44,2	49,7
AR-162609AL	EFXE-162609AL	10,9	21,9	27,4	38,3	43,8	49,3
AQ-181810AL	EFXE-181810AL	9,8	19,7	24,6	34,5	39,5	44,4
AR-182810AL	EFXE-182810AL	13,0	26,1	32,6	45,7	52,2	58,7
AR-202311AL	EFXE-202311AL	12,9	25,8	32,2	45,1	51,6	58,0
AR-202318AL	EFXE-202318AL	17,7	35,5	44,4	62,2	71,1	80,0
AR-232811AL	EFXE-232811AL	15,8	31,6	39,6	55,4	63,3	71,3
AR-233312AL	EFXE-233312AL	18,5	37,0	46,3	64,8	74,1	83,4
AR-233318AL	EFXE-233318AL	23,7	47,5	59,4	83,2	95,1	107,0

Enclosure types (aluminium)		Maximum power dissipation (W) – Tamb. up to **95**°C	
		INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
AQ-080806AL	EFXE-080806AL	1,3	2,6
AR-081306AL	EFXE-081306AL	1,7	3,5
AR-081806AL	EFXE-081806AL	2,2	4,4
AR-081808AL	EFXE-081808AL	2,7	5,5
AR-082505AL	EFXE-082505AL	2,6	5,3
AR-082508AL	EFXE-082508AL	3,5	7,1
AQ-101008AL	EFXE-101008AL	2,1	4,3
AR-101508AL	EFXE-101508AL	2,7	5,5
AR-101608AL	EFXE-101608AL	2,8	5,7
AR-102008AL	EFXE-102008AL	3,3	6,7
AQ-121208AL	EFXE-121208AL	2,7	5,4
AR-122209AL	EFXE-122209AL	4,2	8,4
AQ-141409AL	EFXE-141409AL	3,4	6,8
AR-142009AL	EFXE-142009AL	4,2	8,5
AQ-161609AL	EFXE-161609AL	4,3	8,6
AR-162410AL	EFXE-162410AL	5,5	11,0
AR-162609AL	EFXE-162609AL	5,4	10,9
AQ-181810AL	EFXE-181810AL	4,9	9,8
AR-182810AL	EFXE-182810AL	6,5	13,0
AR-202311AL	EFXE-202311AL	6,4	12,9
AR-202318AL	EFXE-202318AL	8,8	17,7
AR-232811AL	EFXE-232811AL	7,9	15,8
AR-233312AL	EFXE-233312AL	9,2	18,5
AR-233318AL	EFXE-233318AL	11,8	23,7

Power dissipation – Stainless steel enclosures SB series

Enclosure types (stainless steel)		Maximum power dissipation (W) – Tamb. up to **40**°C						
		INTERNAL TEMP.60°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
SB-101210	EFXE-101210SB	5,5	8,3	11,1	12,5	15,3	16,7	18,1
SB-151510	EFXE-151510SB	8,0	12,0	16,0	18,0	22,0	24,0	26,1
SB-142013	EFXE-142013SB	10,4	15,7	20,9	23,5	28,8	31,4	34,0
SB-202010	EFXE-202010SB	10,7	16,1	21,4	24,1	29,5	32,2	34,8
SB-202016	EFXE-202016SB	13,9	20,8	27,8	31,3	38,3	41,7	45,2
SB-202713	EFXE-202713SB	14,4	21,6	28,9	32,5	39,7	43,3	46,9
SB-272713	EFXE-272713SB	16,7	25,1	33,5	37,7	46,0	50,2	54,4
SB-203016	EFXE-203016SB	17,1	25,7	34,3	38,6	47,2	51,4	55,7
SB-273513	EFXE-273513SB	19,2	28,9	38,5	43,3	53,0	57,8	62,6
SB-282816	EFXE-282816SB	19,3	29,0	38,7	43,6	53,3	58,1	63,0
SB-204016	EFXE-204016SB	20,2	30,3	40,4	45,5	55,6	60,6	65,7
SB-353516	EFXE-353516SB	24,4	36,6	48,8	54,9	67,1	73,2	79,3
SB-282827	EFXE-282827SB	26,2	39,3	52,5	59,0	72,2	78,7	85,3
SB-355016	EFXE-355016SB	29,7	44,5	59,4	66,8	81,7	89,1	96,6
SB-383816	EFXE-383816SB	26,6	39,9	53,2	59,8	73,1	79,8	86,5
SB-384516	EFXE-384516SB	29,1	43,7	58,3	65,6	80,2	87,5	94,8
SB-385716	EFXE-385716SB	33,4	50,1	66,8	75,2	91,9	100,3	108,7
SB-505016	EFXE-505016SB	35,8	53,8	71,7	80,7	98,6	107,6	116,6
SB-383827	EFXE-383827SB	35,1	52,7	70,2	79,0	96,6	105,4	114,2
SB-575716	EFXE-575716SB	41,5	62,3	83,1	93,5	114,3	124,7	135,1
SB-577620	EFXE-577620SB	53,9	80,9	107,9	121,3	148,3	161,8	175,3
SB-575730	EFXE-575730SB	55,8	83,7	111,6	125,6	153,5	167,5	181,4
SB-769520	EFXE-769520SB	72,2	108,3	144,4	162,4	198,5	216,6	234,6
SB-1258040	EFXE-1258040SB	72,2	108,3	144,4	162,4	198,5	216,6	234,6

Enclosure types (Stainless steel)		Maximum power dissipation (W) – Tamb. up to **50**°C						
		INTERNAL TEMP.60°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
SB-101210	EFXE-101210SB	2,7	5,5	8,3	9,7	12,5	13,9	15,3
SB-151510	EFXE-151510SB	4,0	8,0	12,0	14,0	18,0	20,0	22,0
SB-142013	EFXE-142013SB	5,2	10,4	15,7	18,3	23,5	26,2	28,8
SB-202010	EFXE-202010SB	5,3	10,7	16,1	18,7	24,1	26,8	29,5
SB-202016	EFXE-202016SB	6,9	13,9	20,8	24,3	31,3	34,8	38,3
SB-202713	EFXE-202713SB	7,2	14,4	21,6	25,2	32,5	36,1	39,7
SB-272713	EFXE-272713SB	8,3	16,7	25,1	29,3	37,7	41,8	46,0
SB-203016	EFXE-203016SB	8,5	17,1	25,7	30,0	38,6	42,9	47,2
SB-273513	EFXE-273513SB	9,6	19,2	28,9	33,7	43,3	48,2	53,0
SB-282816	EFXE-282816SB	9,6	19,3	29,0	33,9	43,6	48,4	53,3
SB-204016	EFXE-204016SB	10,1	20,2	30,3	35,4	45,5	50,5	55,6
SB-353516	EFXE-353516SB	12,2	24,4	36,6	42,7	54,9	61,0	67,1
SB-282827	EFXE-282827SB	13,1	26,2	39,3	45,9	59,0	65,6	72,2
SB-355016	EFXE-355016SB	14,8	29,7	44,5	52,0	66,8	74,3	81,7
SB-383816	EFXE-383816SB	13,3	26,6	39,9	46,5	59,8	66,5	73,1
SB-384516	EFXE-384516SB	14,5	29,1	43,7	51,0	65,6	72,9	80,2
SB-385716	EFXE-385716SB	16,7	33,4	50,1	58,5	75,2	83,6	91,9
SB-505016	EFXE-505016SB	17,9	35,8	53,8	62,7	80,7	89,7	98,6
SB-383827	EFXE-383827SB	17,5	35,1	52,7	61,4	79,0	87,8	96,6
SB-575716	EFXE-575716SB	20,7	41,5	62,3	72,7	93,5	103,9	114,3
SB-577620	EFXE-577620SB	26,9	53,9	80,9	94,4	121,3	134,8	148,3
SB-575730	EFXE-575730SB	27,9	55,8	83,7	97,7	125,6	139,5	153,5
SB-769520	EFXE-769520SB	36,1	72,2	108,3	126,3	162,4	180,5	198,5
SB-1258040	EFXE-1258040SB	36,1	72,2	108,3	126,3	162,4	180,5	198,5

Enclosure types (Stainless steel)		Maximum power dissipation (W) – Tamb. up to **55**°C						
		INTERNAL TEMP.65°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
SB-101210	EFXE-101210SB	2,7	4,1	6,9	8,3	11,1	12,5	13,9
SB-151510	EFXE-151510SB	4,0	6,0	10,0	12,0	16,0	18,0	20,0
SB-142013	EFXE-142013SB	5,2	7,8	13,1	15,7	20,9	23,5	26,2
SB-202010	EFXE-202010SB	5,3	8,0	13,4	16,1	21,4	24,1	26,8
SB-202016	EFXE-202016SB	6,9	10,4	17,4	20,8	27,8	31,3	34,8
SB-202713	EFXE-202713SB	7,2	10,8	18,0	21,6	28,9	32,5	36,1
SB-272713	EFXE-272713SB	8,3	12,5	20,9	25,1	33,5	37,7	41,8
SB-203016	EFXE-203016SB	8,5	12,8	21,4	25,7	34,3	38,6	42,9
SB-273513	EFXE-273513SB	9,6	14,4	24,1	28,9	38,5	43,3	48,2
SB-282816	EFXE-282816SB	9,6	14,5	24,2	29,0	38,7	43,6	48,4
SB-204016	EFXE-204016SB	10,1	15,1	25,2	30,3	40,4	45,5	50,5
SB-353516	EFXE-353516SB	12,2	18,3	30,5	36,6	48,8	54,9	61,0
SB-282827	EFXE-282827SB	13,1	19,6	32,8	39,3	52,5	59,0	65,6
SB-355016	EFXE-355016SB	14,8	22,2	37,1	44,5	59,4	66,8	74,3
SB-383816	EFXE-383816SB	13,3	19,9	33,2	39,9	53,2	59,8	66,5
SB-384516	EFXE-384516SB	14,5	21,8	36,4	43,7	58,3	65,6	72,9
SB-385716	EFXE-385716SB	16,7	25,0	41,8	50,1	66,8	75,2	83,6
SB-505016	EFXE-505016SB	17,9	26,9	44,8	53,8	71,7	80,7	89,7
SB-383827	EFXE-383827SB	17,5	26,3	43,9	52,7	70,2	79,0	87,8
SB-575716	EFXE-575716SB	20,7	31,1	51,9	62,3	83,1	93,5	103,9
SB-577620	EFXE-577620SB	26,9	40,4	67,4	80,9	107,9	121,3	134,8
SB-575730	EFXE-575730SB	27,9	41,8	69,7	83,7	111,6	125,6	139,5
SB-769520	EFXE-769520SB	36,1	54,1	90,2	108,3	144,4	162,4	180,5
SB-1258040	EFXE-1258040SB	36,1	54,1	90,2	108,3	144,4	162,4	180,5

Enclosure types (Stainless steel)		Maximum power dissipation (W) – Tamb. up to **60**°C					
		INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
SB-101210	EFXE-101210SB	2,7	5,5	6,9	9,7	11,1	12,5
SB-151510	EFXE-151510SB	4,0	8,0	10,0	14,0	16,0	18,0
SB-142013	EFXE-142013SB	5,2	10,4	13,1	18,3	20,9	23,5
SB-202010	EFXE-202010SB	5,3	10,7	13,4	18,7	21,4	24,1
SB-202016	EFXE-202016SB	6,9	13,9	17,4	24,3	27,8	31,3
SB-202713	EFXE-202713SB	7,2	14,4	18,0	25,2	28,9	32,5
SB-272713	EFXE-272713SB	8,3	16,7	20,9	29,3	33,5	37,7
SB-203016	EFXE-203016SB	8,5	17,1	21,4	30,0	34,3	38,6
SB-273513	EFXE-273513SB	9,6	19,2	24,1	33,7	38,5	43,3
SB-282816	EFXE-282816SB	9,6	19,3	24,2	33,9	38,7	43,6
SB-204016	EFXE-204016SB	10,1	20,2	25,2	35,4	40,4	45,5
SB-353516	EFXE-353516SB	12,2	24,4	30,5	42,7	48,8	54,9
SB-282827	EFXE-282827SB	13,1	26,2	32,8	45,9	52,5	59,0
SB-355016	EFXE-355016SB	14,8	29,7	37,1	52,0	59,4	66,8
SB-383816	EFXE-383816SB	13,3	26,6	33,2	46,5	53,2	59,8
SB-384516	EFXE-384516SB	14,5	29,1	36,4	51,0	58,3	65,6
SB-385716	EFXE-385716SB	16,7	33,4	41,8	58,5	66,8	75,2
SB-505016	EFXE-505016SB	17,9	35,8	44,8	62,7	71,7	80,7
SB-383827	EFXE-383827SB	17,5	35,1	43,9	61,4	70,2	79,0
SB-575716	EFXE-575716SB	20,7	41,5	51,9	72,7	83,1	93,5
SB-577620	EFXE-577620SB	26,9	53,9	67,4	94,4	107,9	121,3
SB-575730	EFXE-575730SB	27,9	55,8	69,7	97,7	111,6	125,6
SB-769520	EFXE-769520SB	36,1	72,2	90,2	126,3	144,4	162,4
SB-1258040	EFXE-1258040SB	36,1	72,2	90,2	126,3	144,4	162,4

Enclosure types (Stainless steel)		Maximum power dissipation (W) – Tamb. up to **95**°C	
		INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
SB-101210	EFXE-101210SB	1,3	2,7
SB-151510	EFXE-151510SB	2,0	4,0
SB-142013	EFXE-142013SB	2,6	5,2
SB-202010	EFXE-202010SB	2,6	5,3
SB-202016	EFXE-202016SB	3,4	6,9
SB-202713	EFXE-202713SB	3,6	7,2
SB-272713	EFXE-272713SB	4,1	8,3
SB-203016	EFXE-203016SB	4,2	8,5
SB-273513	EFXE-273513SB	4,8	9,6
SB-282816	EFXE-282816SB	4,8	9,6
SB-204016	EFXE-204016SB	5,0	10,1
SB-353516	EFXE-353516SB	6,1	12,2
SB-282827	EFXE-282827SB	6,5	13,1
SB-355016	EFXE-355016SB	7,4	14,8
SB-383816	EFXE-383816SB	6,6	13,3
SB-384516	EFXE-384516SB	7,2	14,5
SB-385716	EFXE-385716SB	8,3	16,7
SB-505016	EFXE-505016SB	8,9	17,9
SB-383827	EFXE-383827SB	8,7	17,5
SB-575716	EFXE-575716SB	10,3	20,7
SB-577620	EFXE-577620SB	13,4	26,9
SB-575730	EFXE-575730SB	13,9	27,9
SB-769520	EFXE-769520SB	18,0	36,1
SB-1258040	EFXE-1258040SB	18,0	36,1

Power dissipation – Stainless steel enclosures ST series

Enclosure types (Stainless steel)		Maximum power dissipation (W) – Tamb. up to **40**°C						
		INTERNAL TEMP.60°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
ST-101210	EFXE-101210ST	5,5	8,3	11,1	12,5	15,3	16,7	18,1
ST-151510	EFXE-151510ST	8,0	12,0	16,0	18,0	22,0	24,0	26,1
ST-142013	EFXE-142013ST	10,4	15,7	20,9	23,5	28,8	31,4	34,0
ST-202010	EFXE-202010ST	10,7	16,1	21,4	24,1	29,5	32,2	34,8
ST-202016	EFXE-202016ST	13,9	20,8	27,8	31,3	38,3	41,7	45,2
ST-202713	EFXE-202713ST	14,4	21,6	28,9	32,5	39,7	43,3	46,9
ST-272713	EFXE-272713ST	16,7	25,1	33,5	37,7	46,0	50,2	54,4
ST-203016	EFXE-203016ST	17,1	25,7	34,3	38,6	47,2	51,4	55,7
ST-273513	EFXE-273513ST	19,2	28,9	38,5	43,3	53,0	57,8	62,6
ST-282816	EFXE-282816ST	19,3	29,0	38,7	43,6	53,3	58,1	63,0
ST-204016	EFXE-204016ST	20,2	30,3	40,4	45,5	55,6	60,6	65,7
ST-353516	EFXE-353516ST	24,4	36,6	48,8	54,9	67,1	73,2	79,3
ST-282827	EFXE-282827ST	26,2	39,3	52,5	59,0	72,2	78,7	85,3
ST-355016	EFXE-355016ST	29,7	44,5	59,4	66,8	81,7	89,1	96,6
ST-383816	EFXE-383816ST	26,6	39,9	53,2	59,8	73,1	79,8	86,5
ST-384516	EFXE-384516ST	29,1	43,7	58,3	65,6	80,2	87,5	94,8
ST-385716	EFXE-385716ST	33,4	50,1	66,8	75,2	91,9	100,3	108,7
ST-505016	EFXE-505016ST	35,8	53,8	71,7	80,7	98,6	107,6	116,6
ST-383827	EFXE-383827ST	35,1	52,7	70,2	79,0	96,6	105,4	114,2
ST-575716	EFXE-575716ST	41,5	62,3	83,1	93,5	114,3	124,7	135,1
ST-577620	EFXE-577620ST	53,9	80,9	107,9	121,3	148,3	161,8	175,3
ST-575730	EFXE-575730ST	55,8	83,7	111,6	125,6	153,5	167,5	181,4
ST-769520	EFXE-769520ST	72,2	108,3	144,4	162,4	198,5	216,6	234,6
ST-1258040	EFXE-1258040ST	72,2	108,3	144,4	162,4	198,5	216,6	234,6

Enclosure types (Stainless steel)		Maximum power dissipation (W) – Tamb. up to **50**°C						
		INTERNAL TEMP.60°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
ST-101210	EFXE-101210ST	2,7	5,5	8,3	9,7	12,5	13,9	15,3
ST-151510	EFXE-151510ST	4,0	8,0	12,0	14,0	18,0	20,0	22,0
ST-142013	EFXE-142013ST	5,2	10,4	15,7	18,3	23,5	26,2	28,8
ST-202010	EFXE-202010ST	5,3	10,7	16,1	18,7	24,1	26,8	29,5
ST-202016	EFXE-202016ST	6,9	13,9	20,8	24,3	31,3	34,8	38,3
ST-202713	EFXE-202713ST	7,2	14,4	21,6	25,2	32,5	36,1	39,7
ST-272713	EFXE-272713ST	8,3	16,7	25,1	29,3	37,7	41,8	46,0
ST-203016	EFXE-203016ST	8,5	17,1	25,7	30,0	38,6	42,9	47,2
ST-273513	EFXE-273513ST	9,6	19,2	28,9	33,7	43,3	48,2	53,0
ST-282816	EFXE-282816ST	9,6	19,3	29,0	33,9	43,6	48,4	53,3
ST-204016	EFXE-204016ST	10,1	20,2	30,3	35,4	45,5	50,5	55,6
ST-353516	EFXE-353516ST	12,2	24,4	36,6	42,7	54,9	61,0	67,1
ST-282827	EFXE-282827ST	13,1	26,2	39,3	45,9	59,0	65,6	72,2
ST-355016	EFXE-355016ST	14,8	29,7	44,5	52,0	66,8	74,3	81,7
ST-383816	EFXE-383816ST	13,3	26,6	39,9	46,5	59,8	66,5	73,1
ST-384516	EFXE-384516ST	14,5	29,1	43,7	51,0	65,6	72,9	80,2
ST-385716	EFXE-385716ST	16,7	33,4	50,1	58,5	75,2	83,6	91,9
ST-505016	EFXE-505016ST	17,9	35,8	53,8	62,7	80,7	89,7	98,6
ST-383827	EFXE-383827ST	17,5	35,1	52,7	61,4	79,0	87,8	96,6
ST-575716	EFXE-575716ST	20,7	41,5	62,3	72,7	93,5	103,9	114,3
ST-577620	EFXE-577620ST	26,9	53,9	80,9	94,4	121,3	134,8	148,3
ST-575730	EFXE-575730ST	27,9	55,8	83,7	97,7	125,6	139,5	153,5
ST-769520	EFXE-769520ST	36,1	72,2	108,3	126,3	162,4	180,5	198,5
ST-1258040	EFXE-1258040ST	36,1	72,2	108,3	126,3	162,4	180,5	198,5

Enclosure types (Stainless steel)		Maximum power dissipation (W) – Tamb. up to **55**°C						
		INTERNAL TEMP.65°C (T6/T85°C)	INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
ST-101210	EFXE-101210ST	2,7	4,1	6,9	8,3	11,1	12,5	13,9
ST-151510	EFXE-151510ST	4,0	6,0	10,0	12,0	16,0	18,0	20,0
ST-142013	EFXE-142013ST	5,2	7,8	13,1	15,7	20,9	23,5	26,2
ST-202010	EFXE-202010ST	5,3	8,0	13,4	16,1	21,4	24,1	26,8
ST-202016	EFXE-202016ST	6,9	10,4	17,4	20,8	27,8	31,3	34,8
ST-202713	EFXE-202713ST	7,2	10,8	18,0	21,6	28,9	32,5	36,1
ST-272713	EFXE-272713ST	8,3	12,5	20,9	25,1	33,5	37,7	41,8
ST-203016	EFXE-203016ST	8,5	12,8	21,4	25,7	34,3	38,6	42,9
ST-273513	EFXE-273513ST	9,6	14,4	24,1	28,9	38,5	43,3	48,2
ST-282816	EFXE-282816ST	9,6	14,5	24,2	29,0	38,7	43,6	48,4
ST-204016	EFXE-204016ST	10,1	15,1	25,2	30,3	40,4	45,5	50,5
ST-353516	EFXE-353516ST	12,2	18,3	30,5	36,6	48,8	54,9	61,0
ST-282827	EFXE-282827ST	13,1	19,6	32,8	39,3	52,5	59,0	65,6
ST-355016	EFXE-355016ST	14,8	22,2	37,1	44,5	59,4	66,8	74,3
ST-383816	EFXE-383816ST	13,3	19,9	33,2	39,9	53,2	59,8	66,5
ST-384516	EFXE-384516ST	14,5	21,8	36,4	43,7	58,3	65,6	72,9
ST-385716	EFXE-385716ST	16,7	25,0	41,8	50,1	66,8	75,2	83,6
ST-505016	EFXE-505016ST	17,9	26,9	44,8	53,8	71,7	80,7	89,7
ST-383827	EFXE-383827ST	17,5	26,3	43,9	52,7	70,2	79,0	87,8
ST-575716	EFXE-575716ST	20,7	31,1	51,9	62,3	83,1	93,5	103,9
ST-577620	EFXE-577620ST	26,9	40,4	67,4	80,9	107,9	121,3	134,8
ST-575730	EFXE-575730ST	27,9	41,8	69,7	83,7	111,6	125,6	139,5
ST-769520	EFXE-769520ST	36,1	54,1	90,2	108,3	144,4	162,4	180,5
ST-1258040	EFXE-1258040ST	36,1	54,1	90,2	108,3	144,4	162,4	180,5

Enclosure types (Stainless steel)		Maximum power dissipation (W) – Tamb. up to **60**°C					
		INTERNAL TEMP.70°C (T6/T85°C)	INTERNAL TEMP.80°C (T6/T85°C)	INTERNAL TEMP.85°C (T5/T100°C)	INTERNAL TEMP.95°C (T5/T100°C)	INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
ST-101210	EFXE-101210ST	2,7	5,5	6,9	9,7	11,1	12,5
ST-151510	EFXE-151510ST	4,0	8,0	10,0	14,0	16,0	18,0
ST-142013	EFXE-142013ST	5,2	10,4	13,1	18,3	20,9	23,5
ST-202010	EFXE-202010ST	5,3	10,7	13,4	18,7	21,4	24,1
ST-202016	EFXE-202016ST	6,9	13,9	17,4	24,3	27,8	31,3
ST-202713	EFXE-202713ST	7,2	14,4	18,0	25,2	28,9	32,5
ST-272713	EFXE-272713ST	8,3	16,7	20,9	29,3	33,5	37,7
ST-203016	EFXE-203016ST	8,5	17,1	21,4	30,0	34,3	38,6
ST-273513	EFXE-273513ST	9,6	19,2	24,1	33,7	38,5	43,3
ST-282816	EFXE-282816ST	9,6	19,3	24,2	33,9	38,7	43,6
ST-204016	EFXE-204016ST	10,1	20,2	25,2	35,4	40,4	45,5
ST-353516	EFXE-353516ST	12,2	24,4	30,5	42,7	48,8	54,9
ST-282827	EFXE-282827ST	13,1	26,2	32,8	45,9	52,5	59,0
ST-355016	EFXE-355016ST	14,8	29,7	37,1	52,0	59,4	66,8
ST-383816	EFXE-383816ST	13,3	26,6	33,2	46,5	53,2	59,8
ST-384516	EFXE-384516ST	14,5	29,1	36,4	51,0	58,3	65,6
ST-385716	EFXE-385716ST	16,7	33,4	41,8	58,5	66,8	75,2
ST-505016	EFXE-505016ST	17,9	35,8	44,8	62,7	71,7	80,7
ST-383827	EFXE-383827ST	17,5	35,1	43,9	61,4	70,2	79,0
ST-575716	EFXE-575716ST	20,7	41,5	51,9	72,7	83,1	93,5
ST-577620	EFXE-577620ST	26,9	53,9	67,4	94,4	107,9	121,3
ST-575730	EFXE-575730ST	27,9	55,8	69,7	97,7	111,6	125,6
ST-769520	EFXE-769520ST	36,1	72,2	90,2	126,3	144,4	162,4
ST-1258040	EFXE-1258040ST	36,1	72,2	90,2	126,3	144,4	162,4

Enclosure types (Stainless steel)		Maximum power dissipation (W) – Tamb. up to **95**°C	
		INTERNAL TEMP.100°C (T4/T135°C)	INTERNAL TEMP.105°C (T4/T135°C)
ST-101210	EFXE-101210ST	1,3	2,7
ST-151510	EFXE-151510ST	2,0	4,0
ST-142013	EFXE-142013ST	2,6	5,2
ST-202010	EFXE-202010ST	2,6	5,3
ST-202016	EFXE-202016ST	3,4	6,9
ST-202713	EFXE-202713ST	3,6	7,2
ST-272713	EFXE-272713ST	4,1	8,3
ST-203016	EFXE-203016ST	4,2	8,5
ST-273513	EFXE-273513ST	4,8	9,6
ST-282816	EFXE-282816ST	4,8	9,6
ST-204016	EFXE-204016ST	5,0	10,1
ST-353516	EFXE-353516ST	6,1	12,2
ST-282827	EFXE-282827ST	6,5	13,1
ST-355016	EFXE-355016ST	7,4	14,8
ST-383816	EFXE-383816ST	6,6	13,3
ST-384516	EFXE-384516ST	7,2	14,5
ST-385716	EFXE-385716ST	8,3	16,7
ST-505016	EFXE-505016ST	8,9	17,9
ST-383827	EFXE-383827ST	8,7	17,5
ST-575716	EFXE-575716ST	10,3	20,7
ST-577620	EFXE-577620ST	13,4	26,9
ST-575730	EFXE-575730ST	13,9	27,9
ST-769520	EFXE-769520ST	18,0	36,1
ST-1258040	EFXE-1258040ST	18,0	36,1

Maximum Power Dissipation calculation

The values specified in the tables as per clause 2.1.1 may be modified within the maximum admitted Tamb and maximum admitted internal temperature as follows.

$$Pdiss\ (W) = \frac{Tmax - Tamb}{Rth}$$

$Rth = A \times (\text{enclosure surface in } mm^2 \text{ except enclosure bottom})^B$

Legend:
Rth – Thermal resistance [K/W].
Tmax – Maximum allowed temperature inside enclosure.
Tamb – Ambient temperature of enclosure
A and B - coefficients determined for each series of enclosure. Exact values are given in manufacturer's documentation.

Warning labels:

WARNING – DO NOT OPEN WHEN ENERGIZED (*)
(*) Not mandatory for apparatus with protection type Ex ia Ga and Ex ib Gb.

WARNING – POTENTIAL ELECTROSTATIC CHARGING HAZARD – SEE INSTRUCTIONS

To be added when the enclosures or parts of them have a surface resistance more than 10^9 Ω or 10^{11} Ω according to IEC 60079-0 Clause 7.4.2 a), as applicable, and as per following cases:

- are equipped with transparent parts made of polycarbonate.
- for category II 2 G / EPL Gb Gas group IIC: are painted and the paint layer thickness is > 0.2mm.
- for category II 2 G / EPL Gb Gas group IIB: are painted and the paint layer thickness is > 2mm.
- for category II 2 D / EPL Db: are painted and the paint layer thickness is > 2mm.
- for category II 2 G / EPL Gb Gas group IIC: not conductive individual materials (labels), applied on painted enclosures, have exposed (chargeable area) > 2000mm^2 or, not conductive individual materials (labels), applied on unpainted (conductive earthed surface) enclosures, have exposed (chargeable area) > 8000mm^2.
- for category II 2 G /EPL Gb Gas group IIB: not conductive individual materials (labels), applied on painted enclosures, have exposed (chargeable area) > 10000mm^2 or, not conductive individual materials (labels), applied on unpainted (conductive earthed surface) enclosures, have exposed (chargeable area) > 40000mm^2.

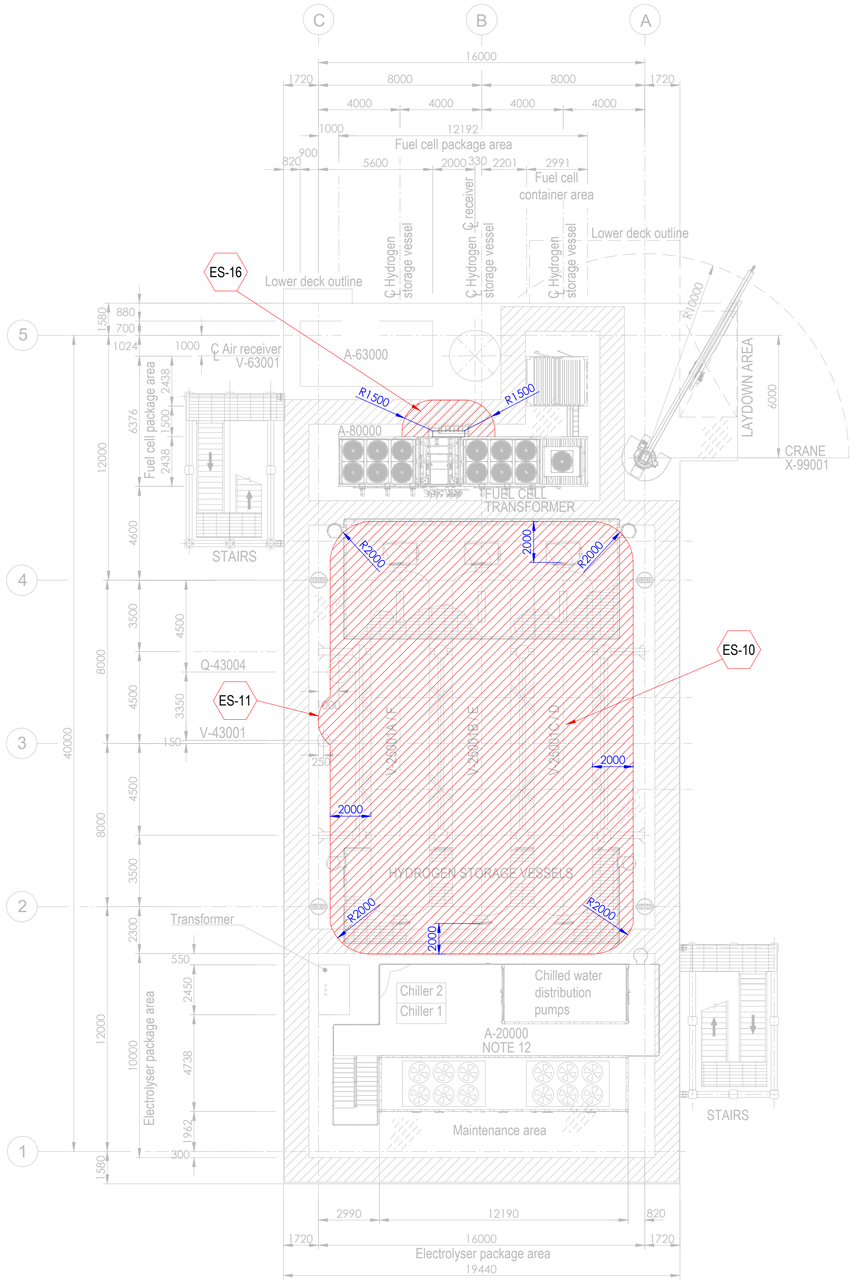
OPEN THE VALVE ONLY WHEN THE APPARATUS IS DE-ENERGIZED AND ONLY WHEN AN EXPLOSIVE DUST ATMOSPHERE IS NOT PRESENT
To be added on Ex tb apparatus equipped with the drain / venting device ECR3.

Other warnings depend on the components actually mounted, according to the component manufacturer's documentation.

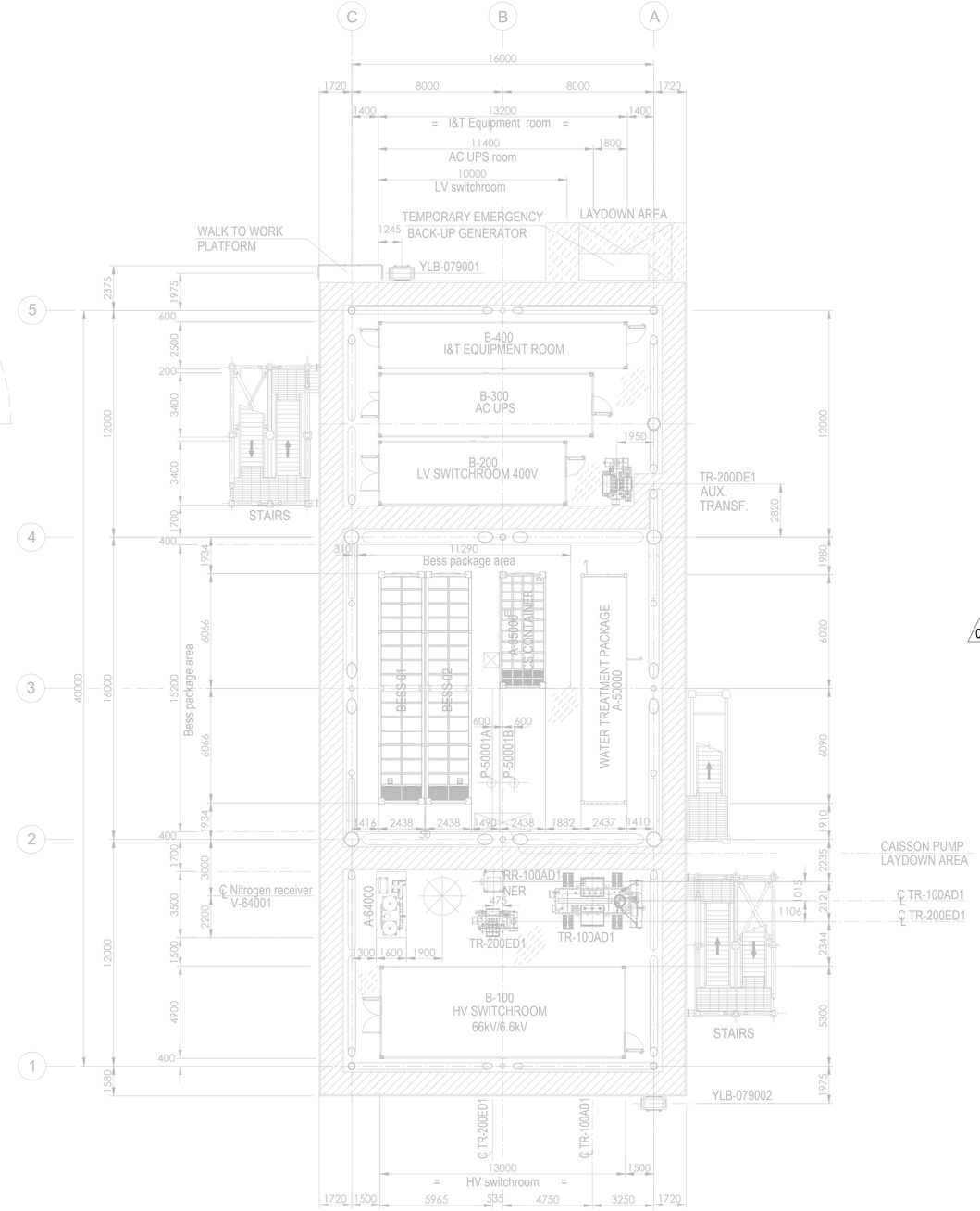
The tables below state the maximum power dissipation values (W) related to the internal temperature (Tint) and ambient temperature (Tamb).

DRAWING NO. 123A90-DDL-SAF-DL-30022

REV. 02



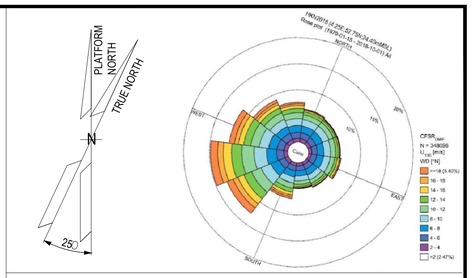
PLAN ON UPPER DECK
EL+30.310 T.O.S.



PLAN ON LOWER DECK
EL+23.310 T.O.S.

Tag No.	Equipment Tag	Description	Material	Ventilation Type
01	P-50001 A/B	SEA WATER LIFT PUMPS	SEA WATER	NATURAL (OPEN AREA)
02	Q-43004	HYDROGEN VENT	HYDROGEN	NATURAL (OPEN AREA)
03	V-43001	HYDROGEN VENT KO DRUM	HYDROGEN	NATURAL (OPEN AREA)
04	V-25001 (A/B/C/D/E/F)	HYDROGEN STORAGE VESSELS	HYDROGEN	NATURAL (OPEN AREA)
05	V-63001	AIR RECEIVER	INSTRUMENT AIR	NATURAL (OPEN AREA)
06	A-20000	ELECTROLYSER PACKAGE		
07	A-63000	INSTRUMENT AIR PACKAGE		
08	A-80000	FUEL CELL PACKAGE		
09	A-85000	BESS PACKAGE		
10	YLB-079001/2	LIFE RAFTS		
11	A-50000	WATER TREATMENT PACKAGE		

Tag No.	Equipment Tag	Description	Material	Ventilation Type
12	A-64000	NITROGEN SYSTEM		
13	B-100	HV SWITCHROOM 66kV/6.6kV		
14	B-200	LV SWITCHROOM 400V		
15	B-300	AC UPS EQUIPMENT ROOM		
16	B-400	I&T EQUIPMENT ROOM		
17	TR-100AD1	TRANSFORMER MAIN 66kV/6.6kV		
18	RR-100AD1-NER	NEUTRAL EARTHING RESISTOR		
19	TR-200DE1	TRANSFORMER AUX. 6.6kV/0.4kV		
20	TR-200ED1	SOLAR TRANSFORMER PV FARM EQUIPMENT		
21	X-99001	CRANE		
22	V-64001	NITROGEN RECEIVER		



NOTES

1. ALL DIMENSIONS IN mm U.N.O.
2. ALL ELEVATIONS IN METERS.
3. PLATFORM NORTH DIRECTION IS N 25°W.
4. VENT TOP SHALL BE REACHEABLE FOR MAINTENANCE PURPOSE.
5. THE BESS IS CONSIDERED SAFE AREA EXCEPT EXTRACTORES FROM BATTERIES , CURRENTLY NOT SHOWN IN DRAWINGS, SINCE INFORMATION FROM VENDOR IS NOT YET AVAILABLE.[ES17].
6. THE LOCATION OF EMISSION SOURCES ON THE LAYOUT ARE ONLY INDICATIVE. EMISSION SOURCES CONSIDERED ARE PRESENT WITHIN THE EXTENSION OF HAZARDOUS CLASSIFIED AREAS SHOWN ON THE LAYOUT. THIS IS BECAUSE VALVES AND FLANGES,WHICH ARE CONSIDERED POTENTIAL SOURCES OF RELEASE POINTS FOR FLAMMABLE GAS ARE NOT SHOWN ON CURRENT LAYOUT PROVIDED. THE SAME APPLIES TO THE EMISSION SOURCES FOR CPI'S ITEM.
7. IDENTIFIED EMISSION SOURCES DETAIL.

02
8. FOR DETAILS RELATED TO ELECTROLYSER PACKAGE INTERNAL ENCLOSURES REFER TO DRAWING 224J10-DDL-PP-DA-00001 REV 0.
9. FOR DETAILS RELATED TO FUELL CELL PACKAGE INTERNAL ENCLOSURES REFER TO DRAWING K559-2254-CWIWP4202202-B01-001 REV 009".
10. THE N.6 HYDROGEN STORAGE VESSELS ARE NOT CLASSIFIED INTERNALLY SINCE THEY ARE DESIGNED TO CONTAIN HYDROGEN OR NITROGEN FOR THE ENTIRE DURATION OF THE 2 YEARS OF OPERATION.

EMISSION SOURCE No.	IDENTIFIED AREAS
ES10	HYDROGEN STORAGE VESSLES
ES11	HYDROGEN VENT KO DRUM
ES16	FUEL CELL

LEGEND

ZONE 0 — ZONE 1

ZONE 2 — ES EMISSION SOURCES

123A90-DDL-PP-DS-70071	PLOT PLAN - BELOW LOWER DECK
123A90-DDL-PP-DS-70072	PLOT PLAN - ELEVATION LOOKING NORTH & EAST

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	15/01/25	MMA	CCA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	27/08/24	MMA	CCA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	08/02/24	MMA	CCA	DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND

ROSETTI MARINO

TITLE :
BASE LOAD POWER HUB (BLPH)
HAZARDOUS AREA CLASSIFICATION
LOWER & UPPER DECK

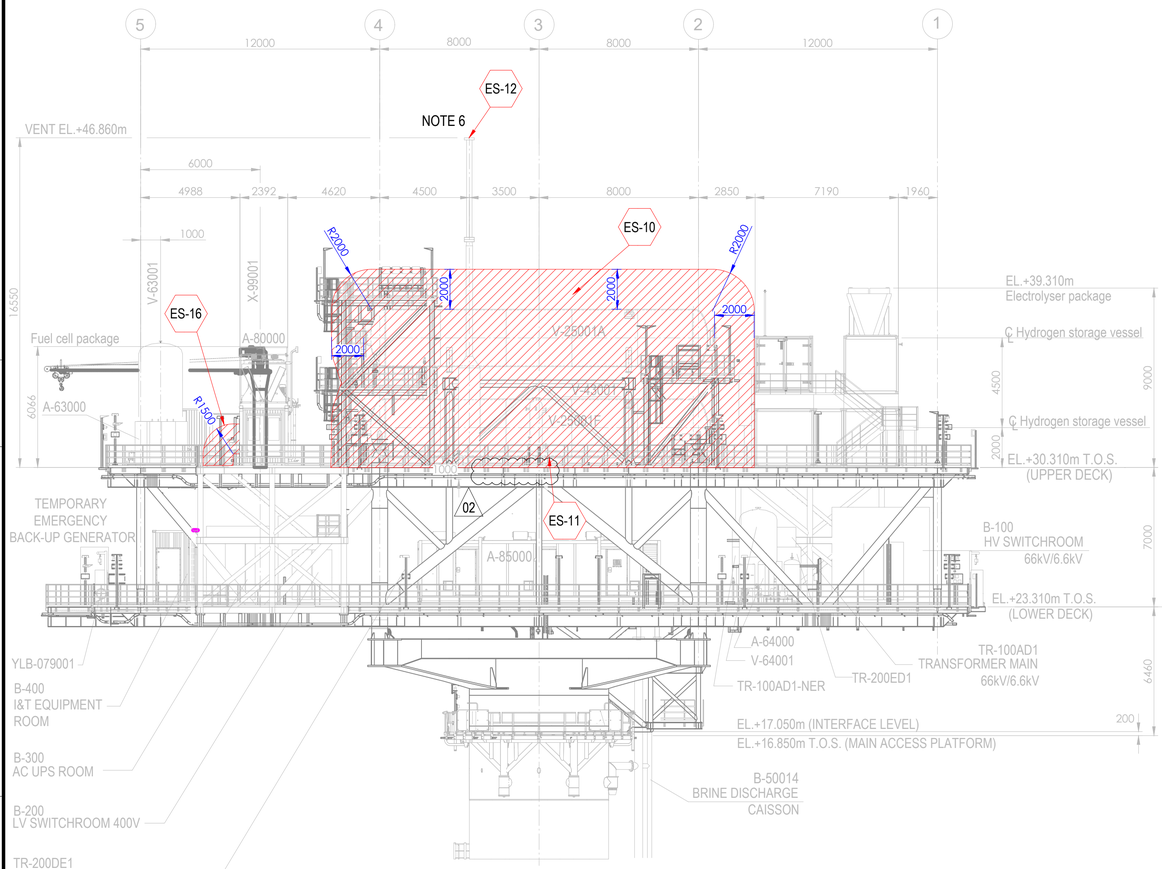
CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK			SCALE 1:150
DRAWN M. MAGNI	CHECKED C. CARACCIOLO	APPROVED D. LO STERZO	DATE 03/07/24

	DRAWING NO.	SHEET	REV.
A1	123A90-DDL-SAF-DL-30022	001	02

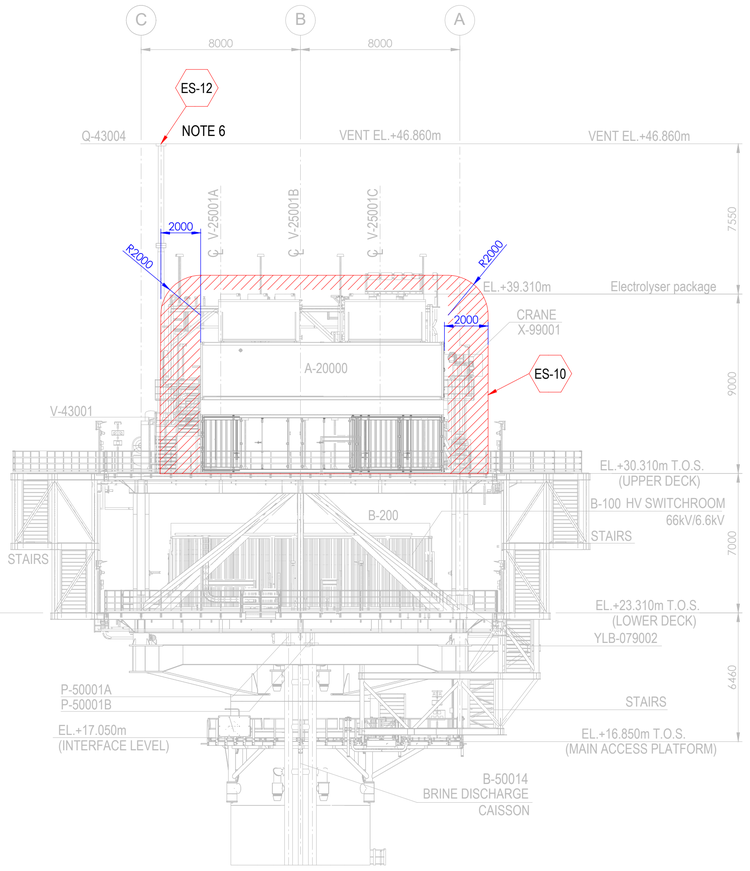
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DRAWING NO. 123A90-DDL-SAF-DL-30024

REV. 02

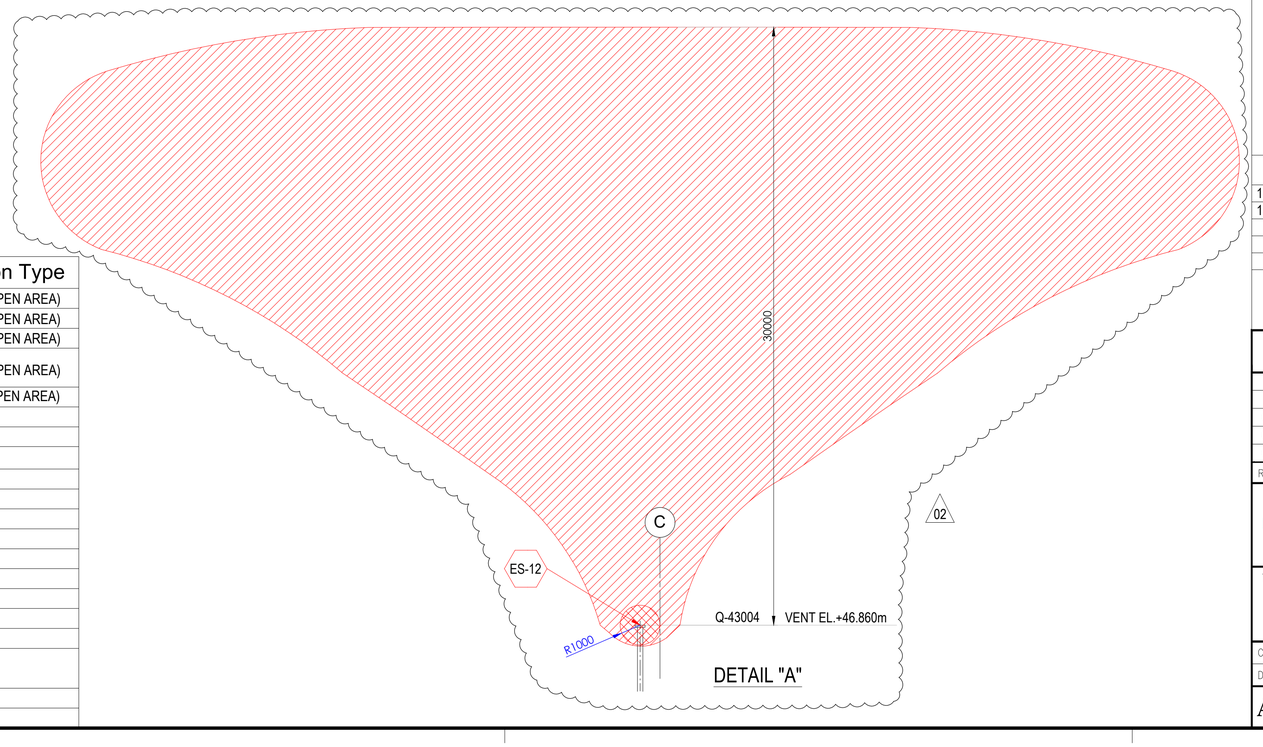


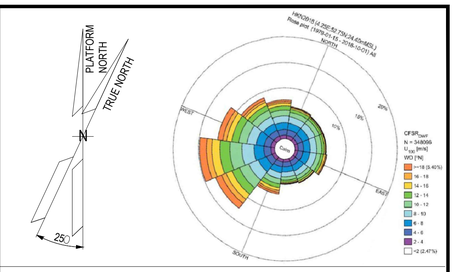
ELEVATION LOOKING EAST



ELEVATION LOOKING NORTH

Tag No.	Equipment Tag	Description	Material	Ventilation Type
01	P-50001 A/B	SEA WATER LIFT PUMPS	SEA WATER	NATURAL (OPEN AREA)
02	Q-43004	HYDROGEN VENT	HYDROGEN	NATURAL (OPEN AREA)
03	V-43001	HYDROGEN VENT KO DRUM	HYDROGEN	NATURAL (OPEN AREA)
04	V-25001 (A/B/C/D/E/F)	HYDROGEN STORAGE VESSELS	HYDROGEN	NATURAL (OPEN AREA)
05	V-63001	INSTRUMENT AIR RECEIVER	INSTRUMENT AIR	NATURAL (OPEN AREA)
06	A-20000	ELECTROLYSER PACKAGE		
07	A-63000	INSTRUMENT AIR PACKAGE		
08	A-80000	FUEL CELL PACKAGE		
09	A-85000	BESS PACKAGE		
10	YLB-079001/2	LIFE RAFTS		
11	B-100	HV SWITCHROOM 66kV/6.6kV		
12	B-200	LV SWITCHROOM 400V		
13	B-300	AC UPS EQUIPMENT ROOM		
14	B-400	I&T EQUIPMENT ROOM		
15	TR-100AD1	TRANSFORMER MAIN 66kV/6.6kV		
16	TR-100AD1-NER	NEUTRAL EARTHING RESISTOR		
17	TR-200DE1	TRANSFORMER AUX. 6.6kV/0.4kV		
18	TR-200ED1	SOLAR TRANSFORMER PV FARM EQUIPMENT		
19	X-99001	CRANE		
20	V-64001	NITROGEN RECEIVER		





NOTES

1. ALL DIMENSIONS IN mm U.N.O
2. ALL ELEVATIONS IN METERS.
3. PLATFORM NORTH DIRECTION IS N 25°W.
4. VENT TOP SHALL BE REACHEABLE FOR MAINTENANCE PURPOSE.
5. THE BESS IS CONSIDERED SAFE AREA EXCEPT EXTRACTORES FROM BATTERIES , CURRENTLY NOT SHOWN IN DRAWINGS, SINCE INFORMATION FROM VENDOR IS NOT YET AVAILABLE.[ES17]
6. FOR ES12 PLUME, PLEASE REFER TO THE DETAIL "A" BELOW. (02)
7. THE LOCATION OF EMISSION SOURCES ON THE LAYOUT ARE ONLY INDICATIVE. EMISSION SOURCES CONSIDERED ARE PRESENT WITHIN THE EXTENSION OF HAZARDOUS CLASSIFIED AREAS SHOWN ON THE LAYOUT. THIS IS BECAUSE VALVES AND FLANGES,WHICH ARE CONSIDERED POTENTIAL SOURCES OF RELEASE POINTS FOR FLAMMABLE GAS ARE NOT SHOWN ON CURRENT LAYOUT PROVIDED. THE SAME APPLIES TO THE EMISSION SOURCES FOR CPI'S ITEM.
8. IDENTIFIED EMISSION SOURCES DETAIL

EMISSION SOURCE No.	IDENTIFIED AREAS
ES10	HYDROGEN STORAGE VESSLES
ES11	HYDROGEN VENT KO DRUM
ES12	HYDROGEN VENT
ES16	FUEL CELL

LEGEND

ZONE 0 — ZONE 1

ZONE 2 — ES EMISSION SOURCES

REFERENCE DOCUMENTS

123A90-DDL-PP-DS-70070	PLOT PLAN - LOWER & UPPER DECK
123A90-DDL-PP-DS-70071	PLOT PLAN - BELOW LOWER DECK

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	15/01/24	MMA	CCA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	27/08/24	MMA	CCA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	08/02/24	MMA	CCA	DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND

ROSETTI MARINO

TITLE :
BASE LOAD POWER HUB (BLPH)
HAZARDOUS AREA CLASSIFICATION
ELEVATION LOOKING NORTH & EAST

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK			SCALE 1:150
DRAWN M. MAGNI	CHECKED C. CARACCIOLO	APPROVED D. LO STERZO	DATE 03/07/24

A1 | DRAWING NO. 123A90-DDL-SAF-DL-30024 | SHEET 001 | REV. 02

File Name : 123A90-DDL-SAF-DL-30024 Rev.02

ITEM	Tag	ELF-200N1-02-L1-10	: NORMAL LIGHT	Dwg	123A90-DDL-EL-DL-20118
	S/Sys	83-40	: Normal Lighting Upper Deck	Module	UD
TASK	code	C10001660	Location: Onshore Activities	User	Rosetti Marino Quality Control
FORM	Process	MC	Activity: CCK / Discipline: ATEX / Form: CJX01		Hazardous Area Equipment Detailed Inspection

Schedule Ref. #				**Area Code**					
Area Class Drawing	123A90-DDL-SAF-DL-30022			**Serial No.**	24/86772				
Manufacturer	Cortem Spa			**Model**	LIFEX-ME-0645-BB				
Cert No.	CML 20 ATEX 3018X			**Equipment Ambient Temp.**	-60°C to +60°C				
Area Classification	hazardous	**Zone**	2	**Gas group**	IIC	**Temp class**	T1		
Equipment Protection Type	Ex db	**EPL**	Gb	**Gas group**	IIC	**Temp class**	T4	**IP Rating**	IP66

Detailed Note:

1) Inspection shall only be performed by competent personnel

2) All fields are to be completed. Any non-applicable field shall state “NA”. Comments are required for ‘Failure’ column ONLY.

3) An Inspection Sheet should be completed for EACH individual item of Equipment.

	General Equipment	Detailed	OK/NA/PL	Comments
1	Equipment is appropriate to the EPL / Zone requirements of the area	x	OK	
2	Equipment group is correct	x	OK	
3	Equipment temperature class is correct	x	OK	
4	Degree of IP protection of equipment is appropriate for the level of protection	x	OK	
5	Equipment circuit identification is correct	x	PL	
6	Equipment circuit identification is available	x	NA	
7	Enclosure glass parts and glass-to-metal sealing gaskets and / or compounds are satisfactory	x	OK	
8	There is no damage or unauthorized modifications	x	OK	
9	There is no evidence of unauthorized modifications	x	OK	
10	Bolts, cable entry devices (direct and indirect) & blanking elements are of the correct type, are complete & tight		NA	
	Physical check	x	PL	
11	Threaded covers on enclosures are of the correct type, are tight and secured		NA	
	Physical check	x	NA	
12	Joint surfaces are clean and undamaged and gaskets, if any, are satisfactory and positioned correctly	x	OK	
13	Condition of enclosure gaskets is satisfactory	x	OK	
14	There is no evidence or ingress of water or dust in the enclosure in accordance with the IP rating	x	OK	
15	Electrical connections are tight	x	OK	
16	Bridging links do not reduce creepage / clearance and are allowed	x	OK	
17	Unused terminals are tightened	x	OK	
18	Encapsulated components are undamaged	x	NA	
19	Flameproof components are undamaged	x	NA	
20	Fluorescent lamps are not indicating EOL effects (only for Ex “e” – Ex “n” – Ex “t”)	x	NA	
21	HID lamps are not indicating EOL effects	x	NA	
22	Lamp type, rating, pin configuration and position are correct	x	NA	
23	Breathing and drainage devices are satisfactory	x	OK	
24	Type of cable is appropriate	x	OK	
25	There is no obvious damage to the cables	x	OK	
26	Cable glands are the correct type and installed correctly	x	OK	
27	Sealing of trunking, ducts, pipes and or conduits is satisfactory	x	NA	
28	Stopping boxes and cable boxes are corrected filled	x	OK	

ITEM	Tag	ELF-200N1-02-L1-10	: NORMAL LIGHT			Dwg	123A90-DDL-EL-DL-20118
	S/Sys	83-40	: Normal Lighting Upper Deck			Module	UD
TASK	code	C10001660		Location	Onshore Activities	User	Rosetti Marino Quality Control
FORM	Process	MC	Activity CCK	Discipline	ATEX	Form	CJX01 Hazardous Area Equipment Detailed Inspection

29	Integrity of conduit system and interface with mixed system maintained	x	NA	
30	Earthing connections, including any supplementary earthing bonding connections are satisfactory (for example connections are tight and conductors are of sufficient cross-section		NA	
	Physical check	x	PL	
31	Automated electric protective devices operate within permitted limits	x	NA	
32	Special conditions (if applicable) have been complied with.	x	OK	
33	All cable cores are uniquely labeled	x	OK	
34	Cable cores not in use are correctly terminated	x	NA	
35	Equipment is adequately protected against corrosion, weather, vibration and other adverse factors	x	OK	
36	No undue accumulation of dust and dirt	x	OK	
37	All equipment housings are clean and dry	x	OK	
38	All moving parts are free and have no mechanical damage	x	NA	
	Applicable for Installation of Heating Systems			
39	Temperature sensors function according to manufacturer's documents (only applicable for Ex-d e Ex-e)	x	NA	
40	Safety cut off devices function according to manufacturer's documents (only applicable for Ex-d e Ex-e)	x	NA	
41	The setting of the safety cut off is sealed (only applicable for Ex-d e Ex-e)	x	NA	
42	Reset of a heating system safety cut off possible with tool only(only applicable for Ex-d e Ex-e)	x	NA	
43	Auto-reset is not possible (only applicable for Ex-d e Ex-e)	x	NA	
44	Reset of a safety cut off under fault conditions is prevented (only applicable for Ex-d e Ex-e)	x	NA	
45	Safety cut off independent from control system (only applicable for Ex-d e Ex-e)	x	NA	
46	Level switch is installed and correctly set, if required (only applicable for Ex-d e Ex-e)	x	NA	
47	Flow switch is installed and correctly set, if required (only applicable for Ex-d e Ex-e)	x	NA	
	Extra Ex d checks			
48	Obstructions adjacent to flame proof flanged joints are in accordance with IEC 60079-14	x	NA	
49	Ex d conduits seals are fitted to all conduits and satisfactorily sealed	x	NA	
50	Cable glands are of the correct type and installed correctly	x	OK	
51	Adaptors, reducers, stop ends, etc. are all certified Ex d	x	OK	
52	Flame path are clean and undamaged	x	OK	
53	Flange gap dimensions are within tolerances	x	NA	
54	Motor fans have sufficient clearance to the enclosure and/or covers, cooling systems are undamaged, motor foundations have no indentations or cracks	x	NA	
55	The ventilation airflow is not impeded	x	NA	
56	Insulation resistance (IR) of the motor windings is satisfactory	x	NA	
57	Fault loop impedance (TN systems) or earthing resistance (IT systems) is satisfactory	x	NA	
58	Variable voltage/frequency installation complies with documentation	x	NA	
	Extra Ex e checks			
59	All Equipment is Ex e certified (including components within enclosure)	x	NA	
60	Power conductors are not bunched together causing possible hot spots	x	NA	
61	Motor fans have sufficient clearance to the enclosure and/or covers, cooling systems are undamaged, motor foundations have no indentations or cracks	x	NA	
62	Insulation resistance (IR) of the motor windings is satisfactory	x	NA	
63	Fault loop impedance (TN systems) or earthing resistance (IT systems) is satisfactory	x	NA	
64	The ventilation airflow is not impeded	x	NA	
65	Motor protection devices operate within the permitted tE or tA time limits.	x	NA	
66	Variable voltage/frequency installation complies with documentation	x	NA	

ROSETTI MARINO PROVERLIS CROSSWIND

ITEM	Tag	ELF-200N1-02-L1-10	: NORMAL LIGHT		Dwg	123A90-DDL-EL-DL-20118	
	S/Sys	83-40	: Normal Lighting Upper Deck		Module	UD	
TASK	code	C10001660	Location	Onshore Activities	User	Rosetti Marino Quality Control	
FORM	Process	MC	Activity CCK	Discipline ATEX	Form	CJX01	Hazardous Area Equipment Detailed Inspection

Extra Ex n (nR, nL) checks				
67	All Terminals are Ex n certified (if required on certificate)	x	NA	
68	Hermetically sealed and enclosed break devices are undamaged	x	NA	
69	Restricted breathing properties satisfactory (conduct vacuum test)	x	NA	
70	Test port, if fitted, is functional (type “nR” only)	x	NA	
71	Breathing operation is satisfactory (type “nR” only)	x	NA	
72	Motor fans have sufficient clearance to the enclosure and/or covers, cooling systems are	x	NA	
73	The ventilation airflow is not impeded	x	NA	
74	Insulation resistance (IR) of the motor windings is satisfactory	x	NA	
75	Motor protection devices operate within the permitted tE or tA time limits.	x	NA	
76	Variable voltage/frequency installation complies with documentation	x	NA	
Extra Ex p checks				
77	Pressurization gas is correct type	x	NA	
78	Actual pressure is within maximum and minimum settings for equipment	x	NA	
79	Timers set as per certification documentation	x	NA	
80	Alarms and trip functions operate correctly as per certification documentation	x	NA	
81	Fault loop impedance (TN systems) or earthing resistance (IT systems) is satisfactory	x	NA	
82	Automatic electrical protective devices operate within permitted limits	x	NA	
83	Automatic electrical protective devices are set correctly	x	NA	
84	Protective gas inlet temperature is below maximum specified	x	NA	
85	Ducts, pipes and enclosures are in good condition	x	NA	
86	Protective gas is substantially free from contaminants	x	NA	
87	Protective gas pressure and/or flow is adequate	x	NA	
88	Pressure and/or flow indicators, alarms and interlocks function correctly	x	NA	
89	Conditions of spark and particle barriers of ducts for exhausting the gas in hazardous area are satisfactory	x	NA	
90	Specific conditions of use (if applicable) are complied with		NA	
Extra Ex i (Intrinsically Safe – IS) checks				
91	Equipment has adequate circuit identification for ‘IS’ Installation	x	NA	
92	Cables are installed in accordance with the documentation	x	NA	
93	Segregation is maintained between IS and non-IS Circuits	x	NA	
94	Cable screens are isolated at one end (field side)	x	NA	
95	Cable screens are earthed in accordance with the documentation	x	NA	
96	Safety barrier units, relays and other energy limiting devices are of the approved type, installed in	x	NA	
97	Equipment installed is the one specified in the documentation	x	NA	
98	Ambient temperature range of the apparatus is correct for the installation	x	NA	
99	Service temperature range of the apparatus is correct for the installation	x	NA	
100	Installation is clearly labelled	x	NA	
101	Printed circuit boards are clean and undamaged	x	NA	
102	The maximum voltage Um of the associated apparatus is not exceeded	x	NA	
103	Point-to-point connections are all correct	x	NA	
104	Earth continuity is satisfactory (e.g. connections are tight, conductors are of sufficient cross-section)	x	NA	
105	Earth connections maintain the integrity of the type of protection	x	NA	
106	Intrinsically safe circuit earthing is satisfactory	x	NA	
107	Insulation resistance is satisfactory	x	NA	
108	Short-circuit protection of the power supply is in accordance with the documentation	x	NA	

	BARRIER:	**Manufacturer:**	NA	**Model:**	NA		
		Authority:	NA	**Cert No:**	NA	**Type:**	NA

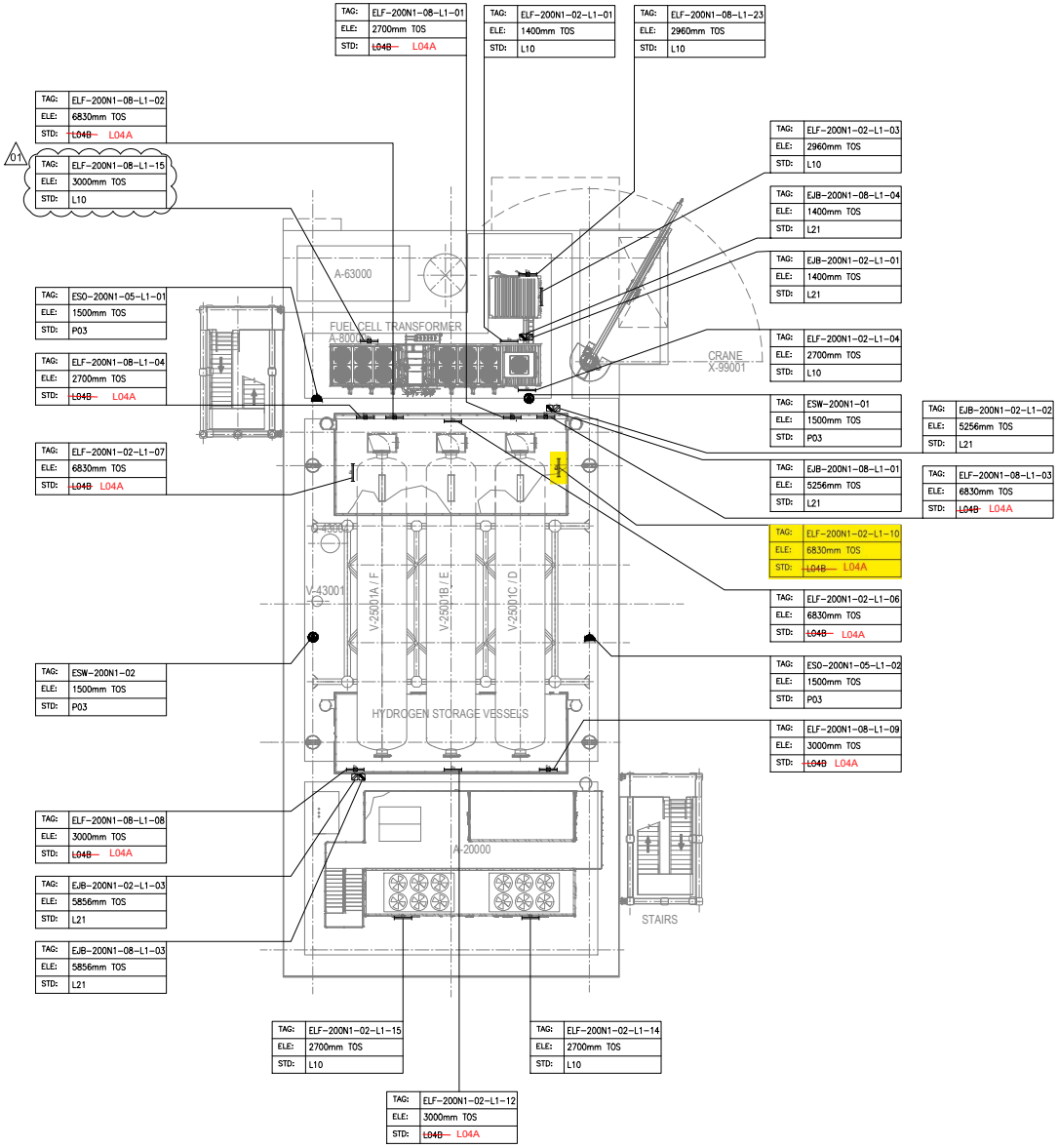
Remarks: Initial inspection should be detailed and carried out before equipment is brought into service as per IEC 60079-17

Please mark only one box as appropriate	
●	**Passed - Complete**
	Failed

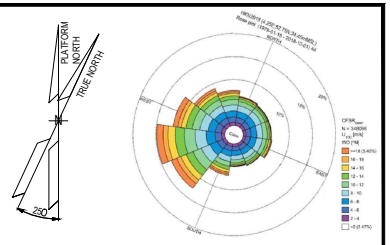
Page 3/3	Performed by	☐ WITNESS ☐ REVIEW	☐ WITNESS ☐ REVIEW
Company	ICS IMPIANTI	RM(ROSETTI MARINO)	
Name	Michele Tartaglia	Andrea Andreani	
Date	2025-01-10	2025-01-15	
Signature	PROVERLIS Digitaly signed by Michele Tartaglia 2025-01-10T06:38:11.817Z	PROVERLIS Digitaly signed by Andrea Andreani 2025-01-15T17:05:47.927Z	

DRAWING NO. 123A90-DDL-EL-DL-20118

REV. 01



PLAN ON UPPER DECK
EL+30.310 T.O.S.



NOTES

1. ALL DIMENSIONS AND ELEVATIONS ARE GIVEN IN mm UNLESS OTHERWISE NOTED.
2. ELEVATIONS REFER TO T.O.S.
3. ELEVATION OF THE LAMPS ARE REFFERED TO THE BOTTOM OF THE LAMP.
4. FOR THE ELEVATION OF JB, REFER TO THE TYPICAL INSTALLATION.

LEGEND

- EMERGENCY LIGHTING JB
- 60W LED EMERGENCY LUMINARIES
- 60W LED EMERGENCY LUMINARIES FIXTURE POLE MOUNTED
- NORMAL LIGHTING JB
- 45W LED NORMAL LUMINARIES
- 45W LED NORMAL LUMINARIES FIXTURE POLE MOUNTED
- WELDING SOCKET WITH INTEGRATED JB
- SMALL POWER SOCKET WITH INTEGRATED JB

JB TAG:	JB-TAG
TAG:	TAG
ELE:	ELEVATION
STD:	STANDARD

REFERENCE DOCUMENTS

123A90-DDL-PP-DL-70070	PLOT PLAN - LOWER & UPPER DECK
123A90-DDL-EL-DL-20100	ELECTRICAL EQUIPMENT LAYOUT - TOP DECK
123A90-DDL-EL-DD-20091	ELECTRICAL TYPICAL INSTALLATION DETAILS - LIGHTING SYSTEM
123A90-DDL-EL-DD-20092	ELECTRICAL TYPICAL INSTALLATION DETAILS - POWER SYSTEM & CABLE INSTALLATION
123A90-DDL-EL-RE-20153	LIGHTING CALCULATION STUDY REPORT
123A90-DDL-ST-DD-90076	IDENTIFICATION PANELS ASSEMBLY AND DETAILS

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	02/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	28/05/24	ASR	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DL-20118**

REV.:	DATE:	SIGNATURE:
1_F	26/11/24	G.Randi

ROSETTI MARINO SpA

CROSSWIND

ROSETTI MARINO

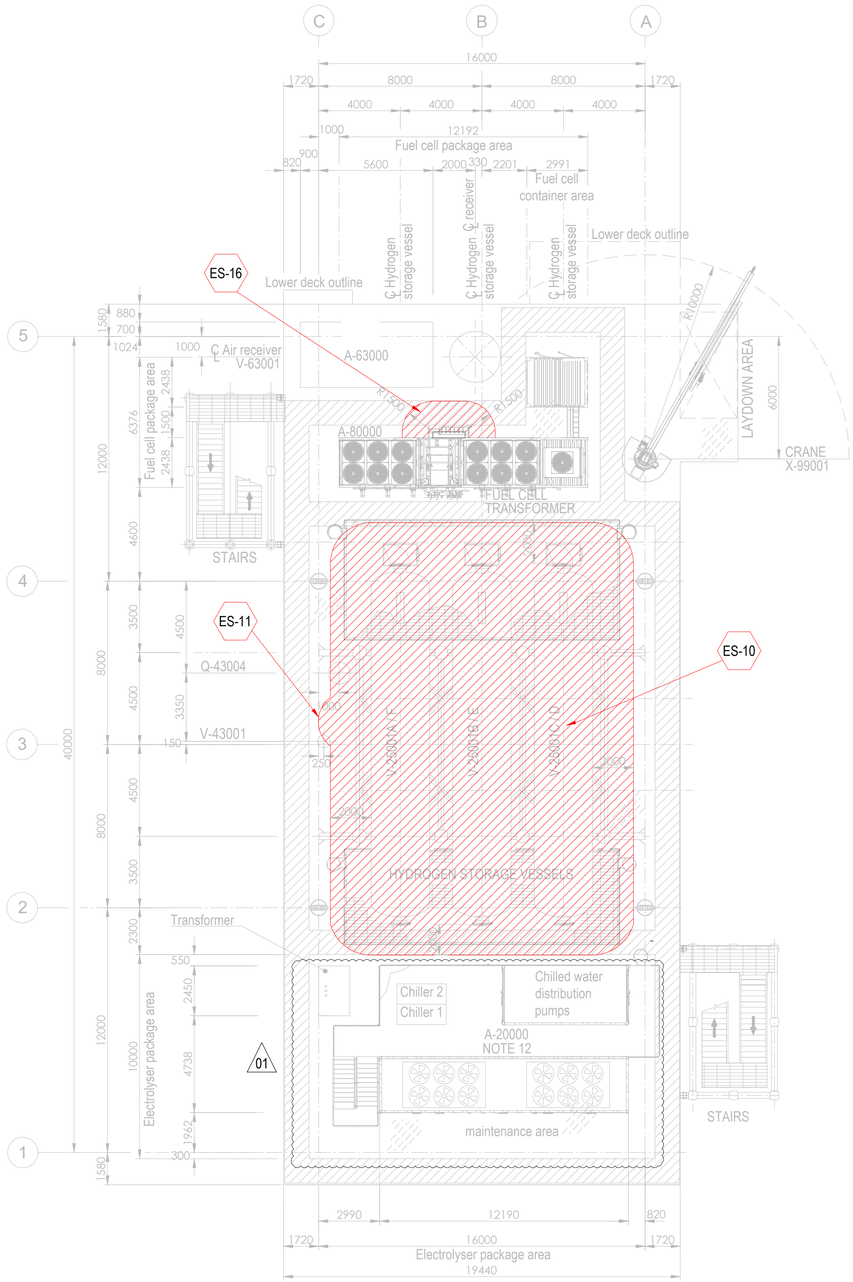
TITLE : BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET LAYOUT – TOP DECK

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK			SCALE 1:150
DRAWN ASR	CHECKED FMA/AMA	APPROVED FPA/DLO	DATE 01/08/24
A1	DRAWING NO. 123A90-DDL-EL-DL-20118	SHEET 2of2	REV. 01

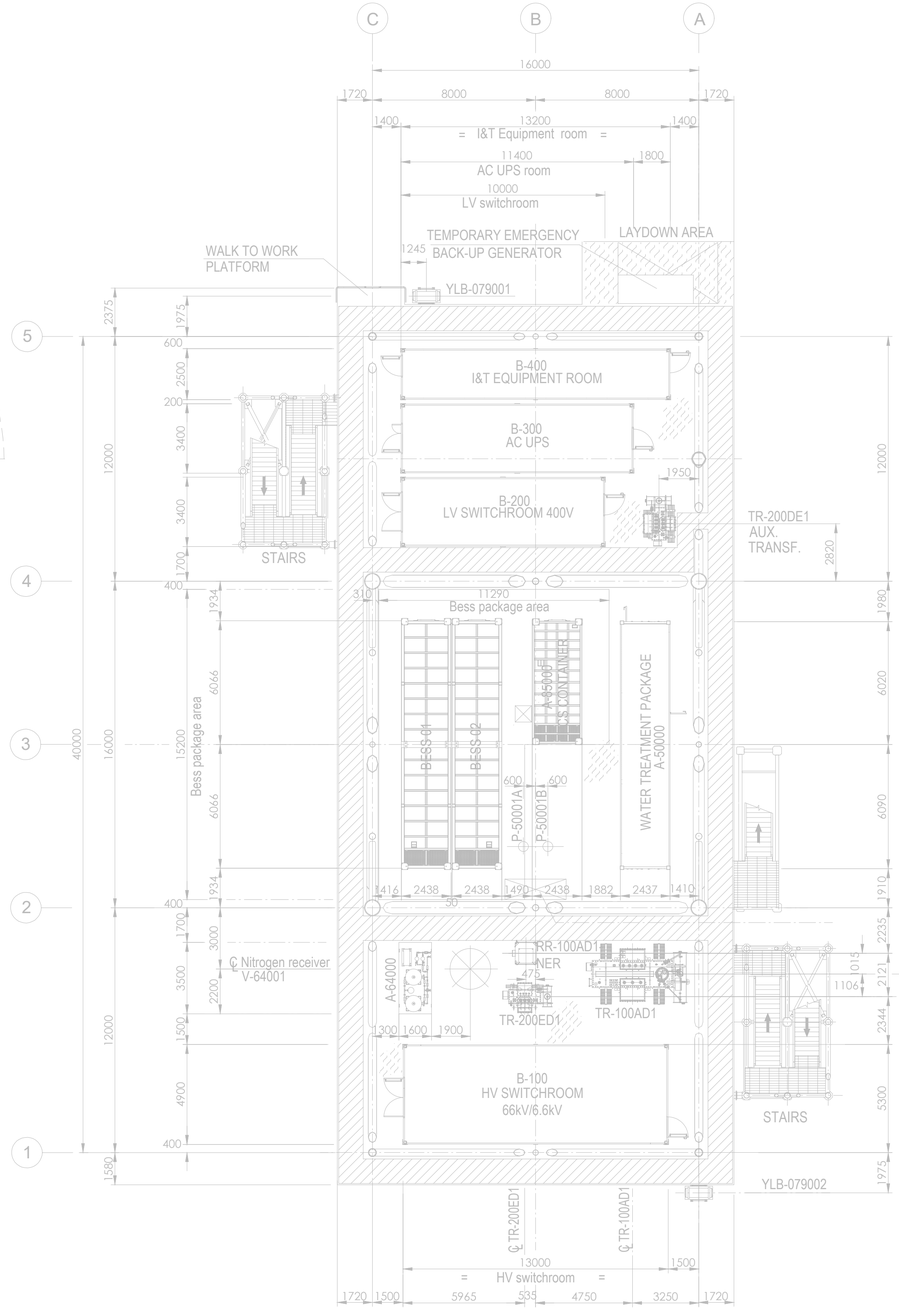
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DRAWING NO. 123A90-DDL-SAF-DL-30022

REV. 01



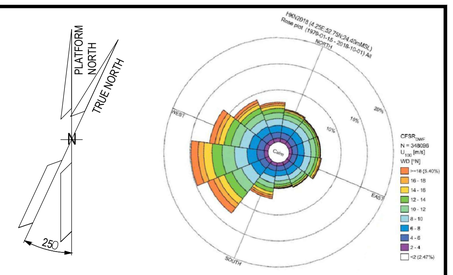
PLAN ON UPPER DECK
EL+30.310 T.O.S.



PLAN ON LOWER DECK
EL+23.310 T.O.S.

Tag No.	Equipment Tag	Description	Material	Ventilation Type
01	P-50001 A/B	SEA WATER LIFT PUMPS	SEA WATER	NATURAL (OPEN AREA)
02	Q-43004	HYDROGEN VENT	HYDROGEN	NATURAL (OPEN AREA)
03	V-43001	HYDROGEN VENT KO DRUM	HYDROGEN	NATURAL (OPEN AREA)
04	V-25001 (A/B/C/D/E/F)	HYDROGEN STORAGE VESSELS	HYDROGEN	NATURAL (OPEN AREA)
05	V-63001	AIR RECEIVER	INSTRUMENT AIR	NATURAL (OPEN AREA)
06	A-20000	ELECTROLYSER PACKAGE		
07	A-63000	INSTRUMENT AIR PACKAGE		
08	A-80000	FUEL CELL PACKAGE		
09	A-85000	BESS PACKAGE		
10	YLB-079001/2	LIFE RAFTS		
11	A-50000	WATER TREATMENT PACKAGE		

Tag No.	Equipment Tag	Description	Material	Ventilation Type
12	A-64000	NITROGEN SYSTEM		
13	B-100	HV SWITCHROOM 66kV/6.6kV		
14	B-200	LV SWITCHROOM 400V		
15	B-300	AC UPS EQUIPMENT ROOM		
16	B-400	I&T EQUIPMENT ROOM		
17	TR-100AD1	TRANSFORMER MAIN 66kV/6.6kV		
18	RR-100AD1-NER	NEUTRAL EARTHING RESISTOR		
19	TR-200DE1	TRANSFORMER AUX. 6.6kV/0.4kV		
20	TR-200ED1	SOLAR TRANSFORMER PV FARM EQUIPMENT		
21	X-99001	CRANE		
22	V-64001	NITROGEN RECEIVER		



1. ALL DIMENSIONS IN mm U.N.O
2. ALL ELEVATIONS IN METERS.
3. PLATFORM NORTH DIRECTION IS N 25°W.
4. VENT TOP SHALL BE REACHEABLE FOR MAINTENANCE PURPOSE.
5. THE BESS IS CONSIDERED SAFE AREA EXCEPT EXTRACTORES FROM BATTERIES , CURRENTLY NOT SHOWN IN DRAWINGS, SINCE INFORMATION FROM VENDOR IS NOT YET AVAILABLE.[ES17]
6. THE LOCATION OF EMISSION SOURCES ON THE LAYOUT ARE ONLY INDICATIVE. EMISSION SOURCES CONSIDERED ARE PRESENT WITHIN THE EXTENSION OF HAZARDOUS CLASSIFIED AREAS SHOWN ON THE LAYOUT. THIS IS BECAUSE VALVES AND FLANGES,WHICH ARE CONSIDERED POTENTIAL SOURCES OF RELEASE POINTS FOR FLAMMABLE GAS ARE NOT SHOWN ON CURRENT LAYOUT PROVIDED. THE SAME APPLIES TO THE EMISSION SOURCES FOR CPI'S ITEM.
7. IDENTIFIED EMISSION SOURCES DETAIL

EMISSION SOURCE No.	IDENTIFIED AREAS
ES10	HYDROGEN STORAGE VESSLES
ES11	HYDROGEN VENT KO DRUM
ES16	FUEL CELL

01

ZONE 0 | ZONE 1 | ZONE 2 | ES EMISSION SOURCES

01

01

123A90-DDL-PP-DS-70071	PLOT PLAN - BELOW LOWER DECK
123A90-DDL-PP-DS-70072	PLOT PLAN - ELEVATION LOOKING NORTH & EAST

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	27/08/24	MMA	CCA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	08/02/24	MMA	CCA	DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND

ROSETTI MARINO

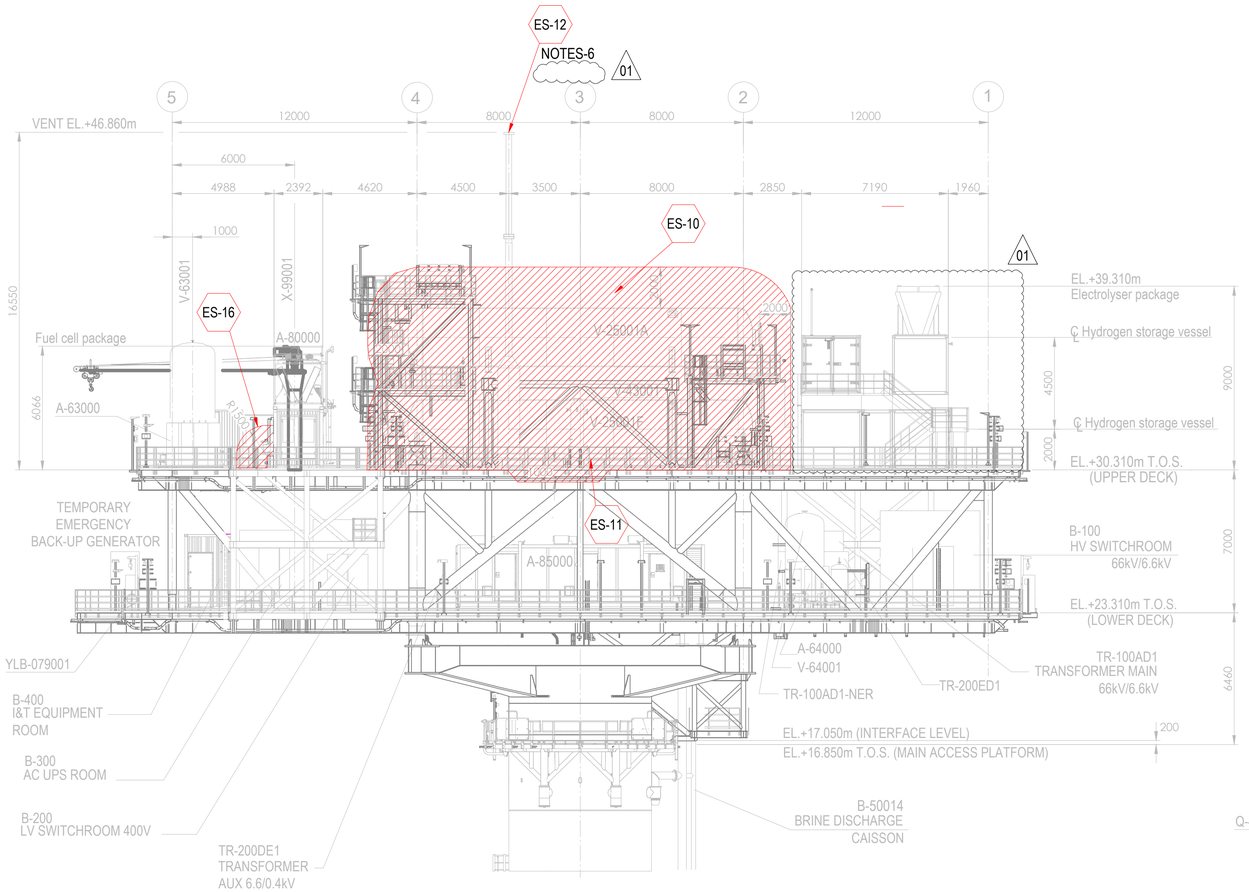
TITLE : BASE LOAD POWER HUB (BLPH)
HAZARDOUS AREA CLASSIFICATION
LOWER & UPPER DECK

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK		SCALE 1:150
DRAWN M. MAGNI	CHECKED C. CARACCIOLO	APPROVED D. LO STERZO	DATE 03/07/24
A1	DRAWING NO. 123A90-DDL-SAF-DL-30022	SHEET 001	REV. 01

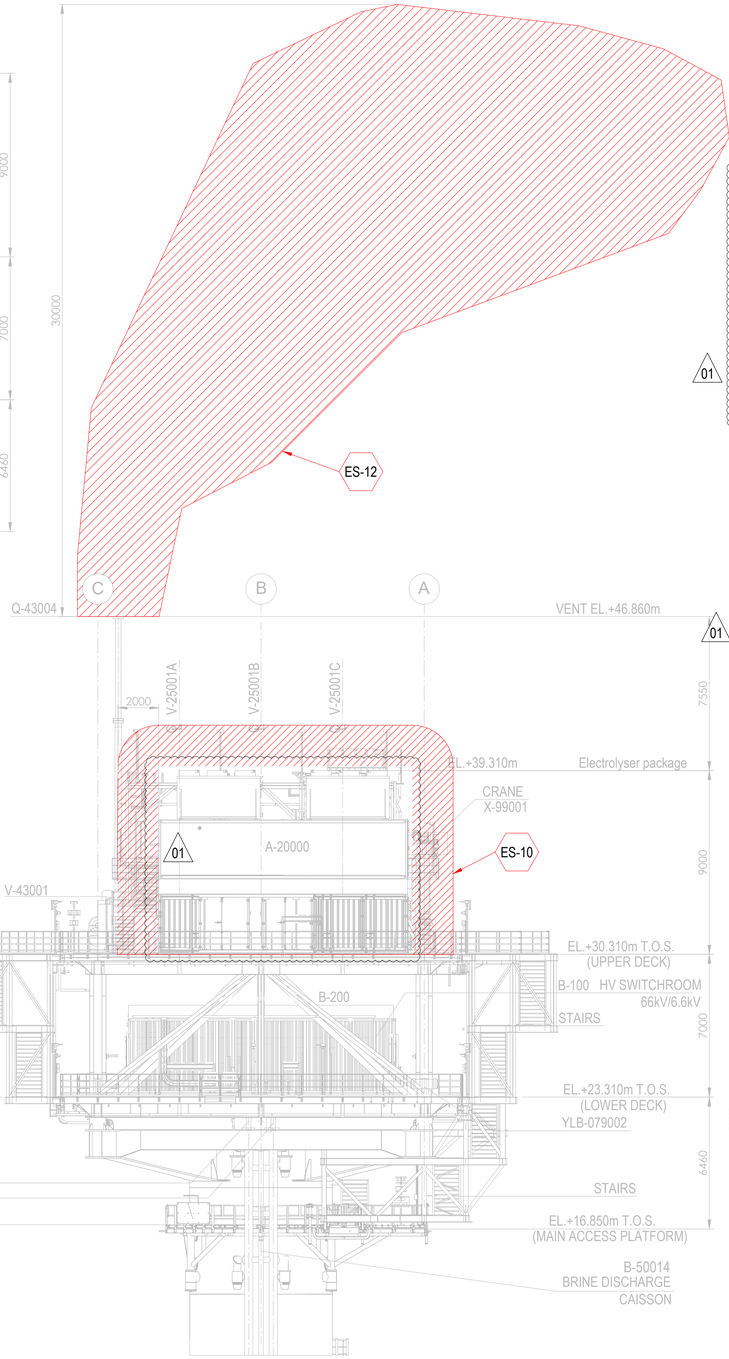
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DRAWING NO. 123A90-DDL-SAF-DL-30024

REV. 01



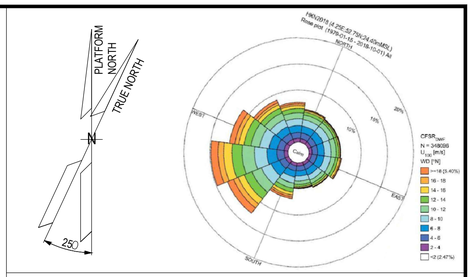
ELEVATION LOOKING EAST



ELEVATION LOOKING NORTH

01

Tag No.	Equipment Tag	Description	Material	Ventilation Type
01	P-50001 A/B	SEA WATER LIFT PUMPS	SEA WATER	NATURAL (OPEN AREA)
02	Q-43004	HYDROGEN VENT	HYDROGEN	NATURAL (OPEN AREA)
03	V-43001	HYDROGEN VENT KO DRUM	HYDROGEN	NATURAL (OPEN AREA)
04	V-25001 (A/B/C/D/E/F)	HYDROGEN STORAGE VESSELS	HYDROGEN	NATURAL (OPEN AREA)
05	V-63001	INSTRUMENT AIR RECEIVER	INSTRUMENT AIR	NATURAL (OPEN AREA)
06	A-20000	ELECTROLYSER PACKAGE		
07	A-63000	INSTRUMENT AIR PACKAGE		
08	A-80000	FUEL CELL PACKAGE		
09	A-85000	BESS PACKAGE		
10	YLB-079001/2	LIFE RAFTS		
11	B-100	HV SWITCHROOM 66kV/6.6kV		
12	B-200	LV SWITCHROOM 400V		
13	B-300	AC UPS EQUIPMENT ROOM		
14	B-400	I&T EQUIPMENT ROOM		
15	TR-100AD1	TRANSFORMER MAIN 66kV/6.6kV		
16	TR-100AD1-NER	NEUTRAL EARTHING RESISTOR		
17	TR-200DE1	TRANSFORMER AUX. 6.6kV/0.4kV		
18	TR-200ED1	SOLAR TRANSFORMER PV FARM EQUIPMENT		
19	X-99001	CRANE		
20	V-64001	NITROGEN RECEIVER		



NOTES

1. ALL DIMENSIONS IN mm U.N.O
2. ALL ELEVATIONS IN METERS.
3. PLATFORM NORTH DIRECTION IS N 25°W.
4. VENT TOP SHALL BE REACHEABLE FOR MAINTENANCE PURPOSE.
5. THE BESS IS CONSIDERED SAFE AREA EXCEPT EXTRACTORES FROM BATTERIES , CURRENTLY NOT SHOWN IN DRAWINGS, SINCE INFORMATION FROM VENDOR IS NOT YET AVAILABLE.[ES17]
6. (ES12) IS SHOWN ONLY ON ELEVATION LOOKING NORTH ON THIS LAYOUT
7. THE LOCATION OF EMISSION SOURCES ON THE LAYOUT ARE ONLY INDICATIVE. EMISSION SOURCES CONSIDERED ARE PRESENT WITHIN THE EXTENSION OF HAZARDOUS CLASSIFIED AREAS SHOWN ON THE LAYOUT. THIS IS BECAUSE VALVES AND FLANGES,WHICH ARE CONSIDERED POTENTIAL SOURCES OF RELEASE POINTS FOR FLAMMABLE GAS ARE NOT SHOWN ON CURRENT LAYOUT PROVIDED. THE SAME APPLIES TO THE EMISSION SOURCES FOR CPI'S ITEM.
8. IDENTIFIED EMISSION SOURCES DETAIL

EMISSION SOURCE No.	IDENTIFIED AREAS
ES10	HYDROGEN STORAGE VESSLES
ES11	HYDROGEN VENT KO DRUM
ES12	HYDROGEN VENT
ES16	FUEL CELL

01

LEGEND

ZONE 0 | ZONE 1 | ZONE 2 | ES EMISSION SOURCES

01

REFERENCE DOCUMENTS

123A90-DDL-PP-DS-70070	PLOT PLAN - LOWER & UPPER DECK
123A90-DDL-PP-DS-70071	PLOT PLAN - BELOW LOWER DECK

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	27/08/24	MMA	CCA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	08/02/24	MMA	CCA	DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND | ROSETTI MARINO

TITLE :
BASE LOAD POWER HUB (BLPH)
HAZARDOUS AREA CLASSIFICATION
ELEVATION LOOKING NORTH & EAST

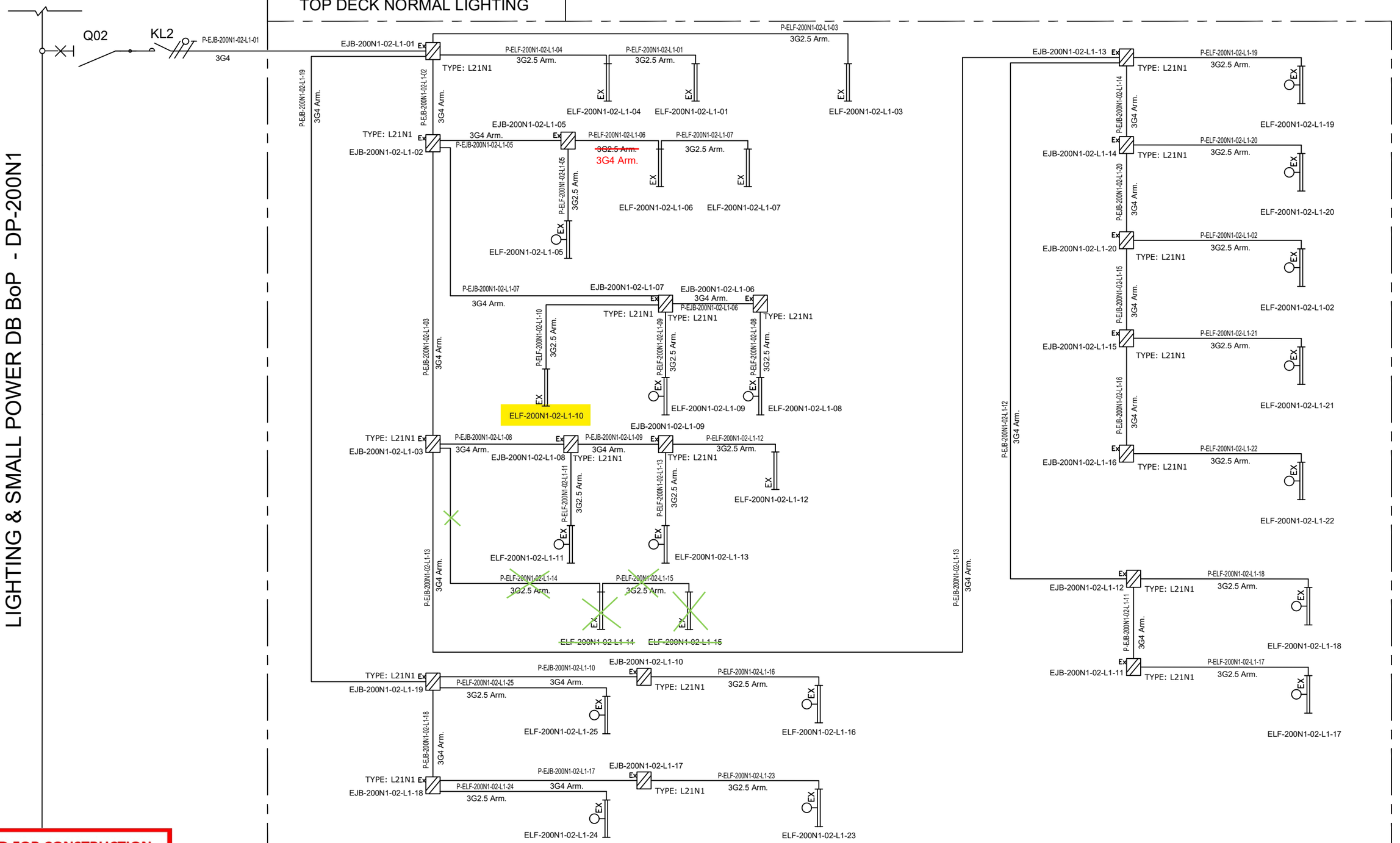
CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK			SCALE 1:150
DRAWN M. MAGNI	CHECKED C. CARACCIOLO	APPROVED D. LO STERZO	DATE 03/07/24

A1	DRAWING NO. 123A90-DDL-SAF-DL-30024	SHEET 001	REV. 01

File Name : 123A90-DDL-SAF-DL-30024 Rev.01

LIGHTING & SMALL POWER DB BoP - DP-200N1

TOP DECK NORMAL LIGHTING



VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DG-20152**

REV.:	DATE:	SIGNATURE:
2_F	14/01/25	G.Randi

ROSETTI MARINO SpA

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	08/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	01/07/24	ASR	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

TITLE : BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET CIRCUIT DIAGRAM
TOP DECK–NORMAL LIGHTING

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK | SCALE : NTS

A3 | DRAWING NO. 123A90–DDL–EL–DG–20125 | SHEET 010 | REV. 01

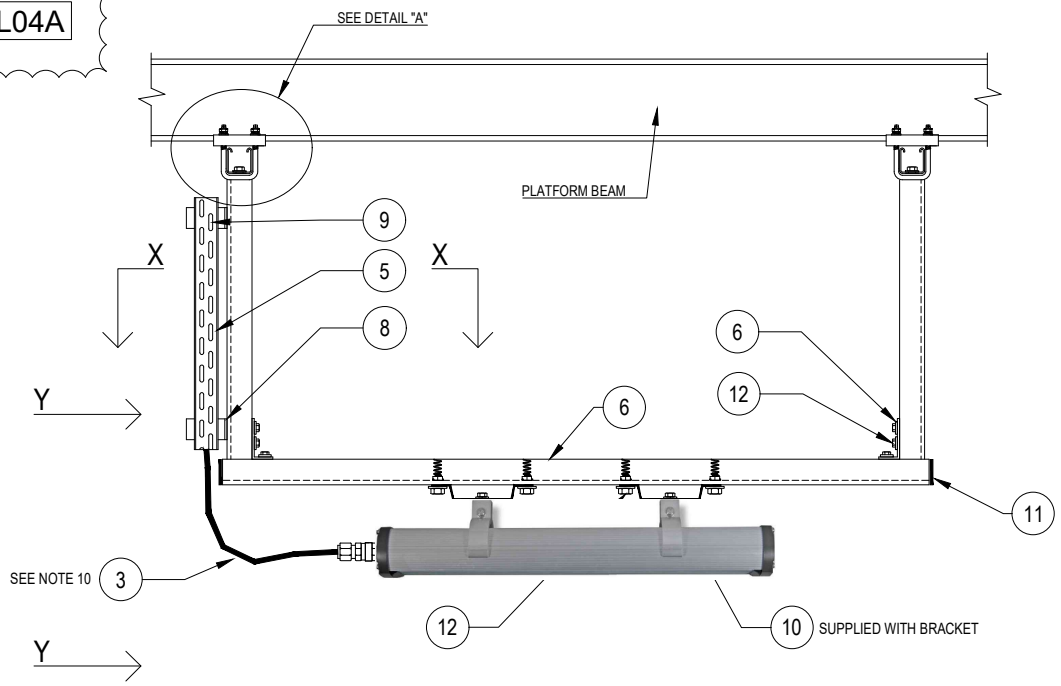
F.to UNI A3: 420mmx297mm

File Name : 123A90–DDL–EL–DG–20125

CROSSWIND

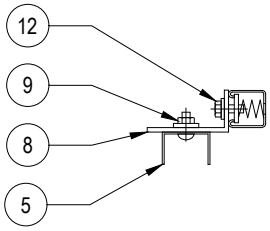
ROSETTI MARINO

L04A

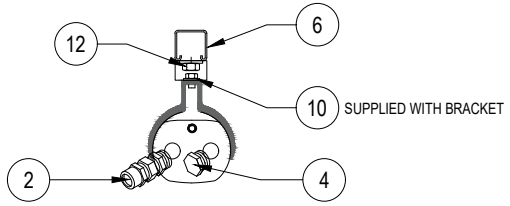


POS.	DESCRIPTION	MATERIAL	SIZE	Q.TY	NOTE
1	LIGHITNG FIXTURE (Ex e) WITH LED LAMP	ALUMINIUM ALLOY		1	
2	CABLE GLAND (Ex) FOR ARMOURED/UNARMOURED CABLE	NICK.PL.BRASS		1	NOTE 2 NOTE 5
3	ARMOURED/UNARMOURED CABLE				NOTE 5
4	PLUG	NICK.PL.BRASS		AS REQ.	NOTE 3
5	CABLE LADDER OR PERFORATED TRAY	AISI 316L		AS REQ.	
6	SINGLE U-CHANNEL PERFORATED ON NO. 3 SIDE	AISI 316L	41x41x2	AS REQ.	
7	SINGLE U-CHANNEL BEAM ATTACHMENT (10-14) OR (15-19) WITH COLLAR COMPLETE WITH HARDWARE	AISI 316L		2	NOTE 4
8	PLATE FOR ORTHOGONAL-TRASVERSAL CONNECTION (3 HOLES)	LPDE		4	
9	ROUND HEAD SCREW WITH SQUARE NECK COMPLETE WITH PLANE WASHER, SPRING WASHER AND NUT	AISI 316L			
10	HEX. BOLT M8X16 WITH LARGE PLANE WASHER	AISI 316L		2	
11	PLUG FOR U-CHANNEL	LPDE		2	
12	HEX. BOLT M10X30 WITH PLANE WASHER, NUT FOR U-CHANNEL AND SPRING	AISI 316L		2	

SECTION "X-X"

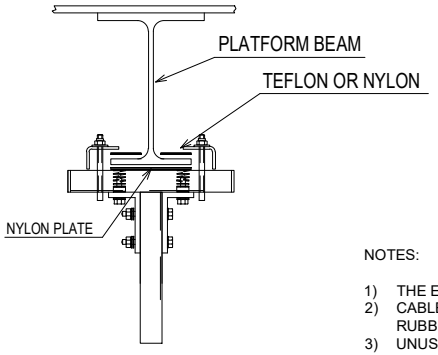


SECTION "Y-Y"

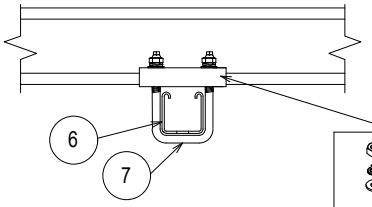


lighting fixture
Cortem LIFEX

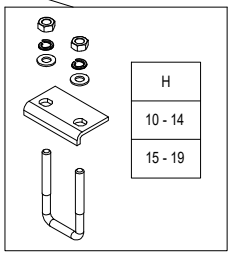
02



DETAIL "A"



VIEW "A"



NOTES:

1) THE EXACT DIMENSIONS WILL BE DEFINED DURING ASSEMBLY PHASE.
2) CABLE GLAND COMPLETE WITH LOCKNUT, NYLON WASHER, SERRATED WASHER, EXTERNAL RUBBER RING AND EARTH TAG (IF NECESSARY).
3) UNUSED CABLE ENTRIES MUST BE CLOSED WITH NICKEL PLATED BRASS PLUG.
4) SINGLE U-CHANNEL BEAM ATTACHMENT (CLAMP) IS PRODUCED IN NO. 2 DIFFERENT SIZES (10-14 OR 15-19) SIZE REFERS TO THE THICKNESS OF THE BEAM WHERE THE CLAMP IS INSTALLED.
5) FOR LAMPS IN HAZARDOUS AREA, USE ARMOURED CABLE, DOUBLE SEAL CABLE GLAND AND EX JUNCTION BOX.

VALID FOR CONSTRUCTION

REV.:	DATE:	SIGNATURE:
2_B	12/12/24	C.Pilato

ROSETTI MARINO SpA

CROSSWIND

ROSETTI MARINO

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	30/09/24	GRA	AMA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	04/07/24	NLK	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	21/11/23	SPS	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL TYPICAL INSTALLATION DETAILS–LIGHTING SYSTEM
FIXTURE SUSPENSION MOUNTED WITH U–CHANNEL SUPP.

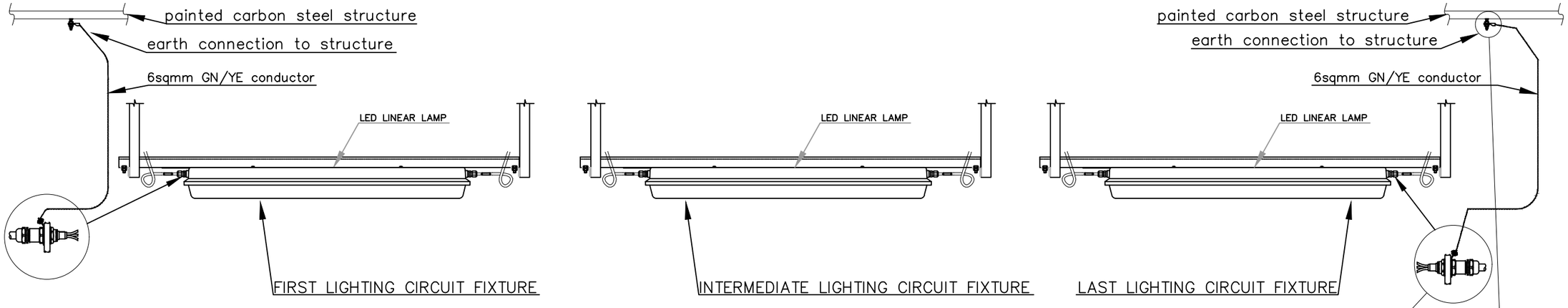
CONTRACT NO./TITLE CW–I–WP4–2023–05/HOLLANDSE KUST NOORD WIND PARK | SCALE : NTS

A3 | DRAWING NO. 123A90–DDL–EL–DD–20091 | SHEET 006 | REV. 02

F.to UNI A3: 420mmx297mm

File Name : 123A90-DDL-EL-DD-20091 REV.02.DWG

E32

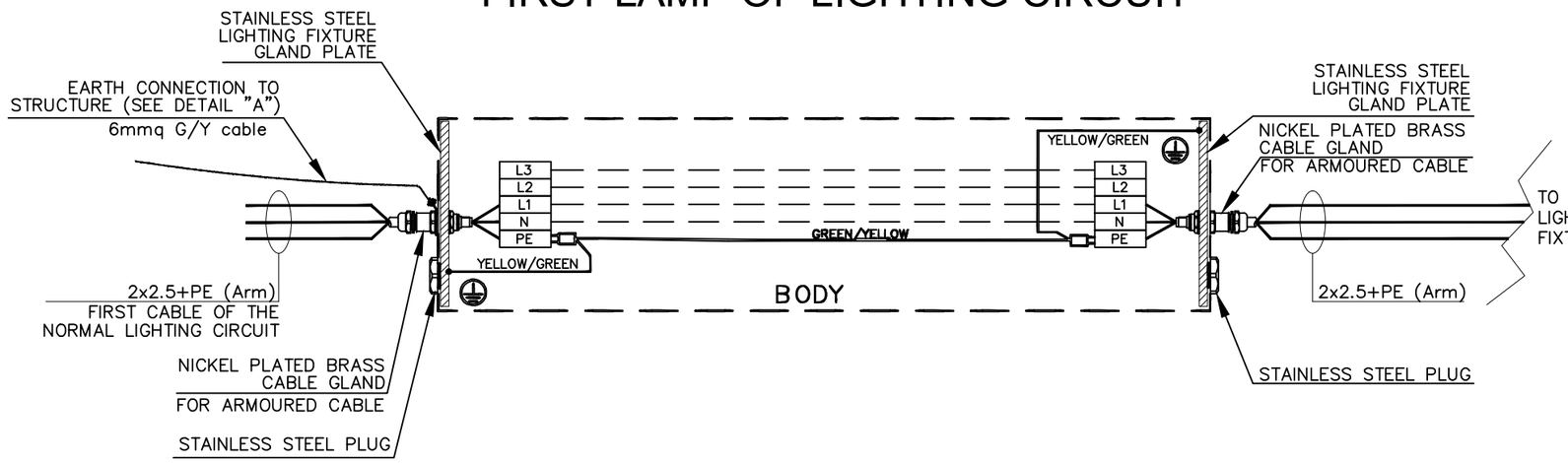


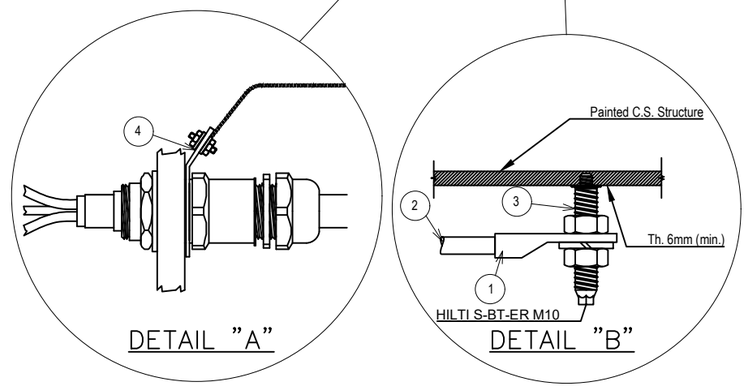
ONLY the first and the last lighting fixture of all circuits are connected to earthing system. The earthing continuity of the intermediate lighting fixtures of the circuits is guaranteed by the using of the first and the last lighting fixture earthing connection which is permanently connected to the earthing system as per the typical below.

Refer also to TYP. "E05" for Lighting Fixtures.

NORMAL LIGHTING CIRCUIT EARTHING CONTINUITY TYPICAL

FIRST LAMP OF LIGHTING CIRCUIT





POS.	DESCRIPTION	MATERIAL	SIZE	Q.TY	NOTE
1	COMPRESSION TYPE LUG FOR INSULATION COPPER CONDUCTOR	TINNED COPPER			
2	Y/G INSULATING COPPER CONDUCTOR		6sqmm	ASR	
3	HILTI S-BT-ER M10/15 SN6 C/W NUTS AND GROWER	AISI 316L	M10X28		NOTE 1
4	CABLE GLAND EARTH TAG	NPB	M20		

The same logic is used for the earthing continuity of Emergency Lighting Circuits. The above typical has been done to represent the Earthing Continuity of G/Y conductors, the correct connections of all conductors in the respective Terminal Strips are shown in doc. AR-FEN-10-ROEC-600132 Lighting and Socket Circuit Diagrams.

NOTES:
1) HILTI S-BT-ER M10/15 SN6 CERTIFIED FOR EARTHING SYSTEM FOR SINGLE EQUIPMENTS EARTHING CONNECTION.

VALID FOR CONSTRUCTION
FDL DWG: 123A90-FDL-EL-DD-20090
REV.: 2_I | DATE: 07/11/24 | SIGNATURE: G.Randi
ROSETTI MARINO SpA

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	26/08/24	GRA	AMA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	10/06/24	SPS	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	21/11/23	SPS	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL TYPICAL INSTALLATION DETAILS–EARTHING SYSTEM
EARTHING – OUTDOOR LINEAR LIGHTING FIXTURE

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK | SCALE : NTS

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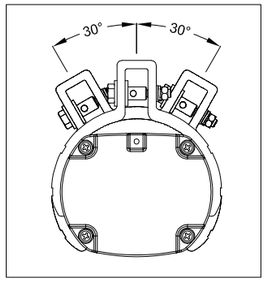
F.to UNI A3: 420mmx297mm

File Name : 123A90-DDL-EL-DD-20090 REV.02.DWG

MODEL C-225 REV.1

GENERAL NOTE:
- PO: 1724001290 DD 26/06/2024
- ITEM.: 1
- Q.TY: 57
- EXTERNAL PAINTING: RAL 7022 (END CAPS)
- INTERNAL PAINTING: NOT PAINTED
- ALL DIMENSIONS ARE IN mm

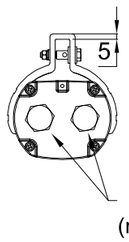
STANDARD FIXING BRACKET
FASTENING WITH 2 THREADED M8
HOLES, ADJUSTABLE FROM 0° TO ±30°



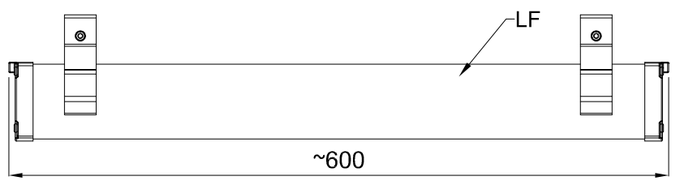
LF INFORMATION	
NOMINAL POWER	45W
CONSUMED POWER	43,5W
POWER FACTOR	>0,93
RATED CURRENT	200 mA
VIEWING ANGLE	120°
COLOUR TEMP.	5000 K
CRI	>80
INSTANT RESTRIKE	YES
LUMEN	6200 lm
LIGHT INTENSITY	2248 cd
EFFICIENCY	143 lm/W
WEIGHT	2,5 Kg
IP PROTECTION	IP66

N°	Q.TY	CODE	DESCRIPTION
LF	1	LIFEX-ME-0645-BB	110-277Vac 50-60Hz 45W LED LINEAR LIGHTING FIXTURE BODY: ALUMINUM ALLOY EXTRUSION AND ALUMINUM END CAPS TRANSPARENT PART: GLASS RESISTANT TO SHOCKS, UV RAYS AND IMPACT RESISTANCE IK09 GASKETS: ACID AND HYDROCARBON RESISTANT SILICONE ASSEMBLY: FASTENING BRACKETS FOR M8 HOLES, ADJUSTABLE 0° TO ±30° MADE IN ANODIZED ALUMINUM CONNECTION: TERMINAL BLOCK ON SIDE (IN) L, N, PE CROSS SEC. MAX. 4mmq SUITABLE FOR LOOP-IN LOOP-OUT SCREWS, BOLTS AND NUTS: STAINLESS STEEL 304
PG1	4	PLG1IB +DL1IB +RDI1IS/A4	IP66 Ex db IIC Gb - Ex eb IIC Gb NICKEL PLATED BRASS PLUG ISO M20x1,5 WITH RELEVANT LOCKNUT AND SERRATED WASHER MADE IN STAINLESS STEEL

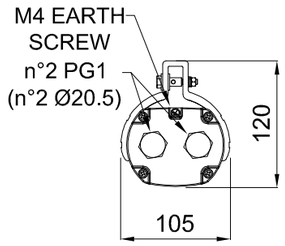
LEFT SIDE (OUT)



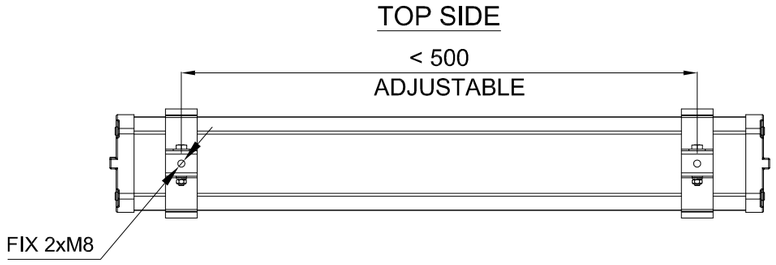
FRONT SIDE



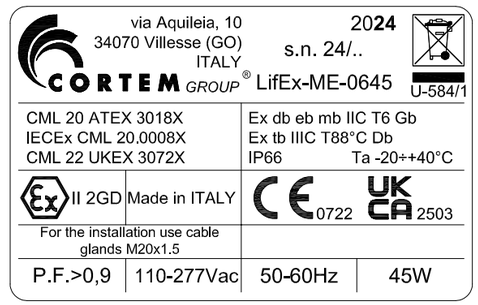
RIGHT SIDE (IN)



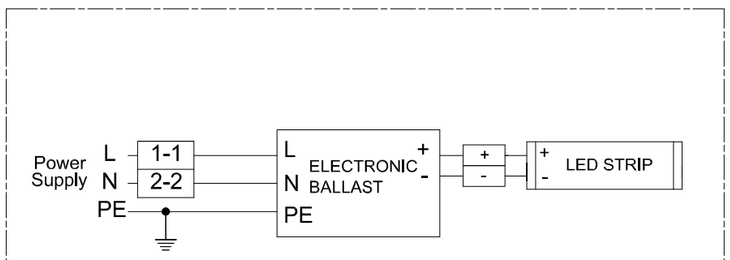
TOP SIDE



CERTIFICATE NAMEPLATE



WIRING DIAGRAM



REV.	DATE	PREP'D	CHK'D	APP'D	DESCRIPTION
2	09/07/2024	FRATTARUOLO	GIUSTI	GRATTON	REISSUED FOR APPROVAL
1	05/07/2024	FRATTARUOLO	GIUSTI	GRATTON	REISSUED FOR APPROVAL
0	28/06/2024	FRATTARUOLO	GIUSTI	GRATTON	ISSUED FOR APPROVAL

DRAWING TITLE: ROSETTI MARINO S.P.A.

CORTEM S.p.a.
GENERAL LAYOUT
001 LIFEX-ME-0645-BB/C2402693/10.

CORTEM JOB: COV2402693
DRAWING SCALE: /
DRAWING NUMBER: A3-C 27521
SHEET: 1
NEXT: 2
TOT.: 2

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Smart Professional R. 2012

Row	Data Sheet for Lighting Fixtures & Accessories				Rev.
1	42W LED Linear Luminaire-Normal Lighting-ATEX Area				
2	Item	Required	Manufacturer Proposal	Comments	
3	Model Number	by vendor	LIFEX-ME-0645-BB		01
4	Serial Number	by vendor			00
5	Quantity	28 Nos.		(25+3 Spare)	01
6	Location / Module	Upper deck			00
7	**LED Lamp**				
8	Nominal power	42 watts	45 watts		01
9	No. of linear	1	1		01
10	Luminous flux	5810 lm	6200 lm		01
11	Colour Temperature	5000 K	5000 K		01
12	**Protection**				
13	Hazardous Area Certification (Ex)	Zone 1 Gas Group IIC (or) IIB + H2, T1	Ex II 2GD Ex db eb mb IIC Gb Ex tb IIIC Db		01
14	Degree of Protection (IP)	IP 56	IP 66		01
15	ATEX certified	Classification EX db	ATEX CML 20 ATEX 3018X		01
16	**Material**				
17	Body	GRP/Aluminium alloy	Aluminium alloy		01
18	Reflector	GRP/Aluminium	Aluminium		01
19	Diffuser	Polycarbonate/temperate glass	Tempered glass		01
20	**Cable Entry**				
21	No. of cable entry	4 Nos.	4 Entries, 2 per side		01
22	Size	M20	Ø20.5mm		01
23	**Emergency Battery Pack**				
24	Requirement	Not required			00
25	Battery type	Not required			00
26	Autonomy	Not required			00
27	Emergency luminous flux	Not required			00
28	**Mechanical parameters**				
29	Dimension	by vendor	600x105x120(mm)		01
30	Weight	by vendor	2.5kg		01

Note:

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Tag Number	Tag Description	Location	P.O.	Vendor	Manufacturer	Serial Number	Model Type Catalogue Number	Installation Zone	ATEX Certificate Number	Reference Document	ATEX Certification Marking	Notes / Comments	Skid / Package	Electrical Equip.	Barrier Calculation Ref.	Special Conditions of Safe Use Applicable	3D Location
EJB-200N1-08-L1-07	Emergency Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990079	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-08-L1-08	Emergency Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990081	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-08-L1-09	Emergency Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990080	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-08-L1-10	Emergency Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990075	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-08-L1-11	Emergency Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990074	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-08-L1-12	Emergency Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990073	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-08-L1-14	Emergency Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990071	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-08-L1-15	Emergency Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990070	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-08-L1-16	Emergency Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990069	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-08-L1-17	Emergency Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990068	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-08-L1-18	Emergency Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990067	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-08-L1-19	Emergency Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990066	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-08-L1-20	Emergency Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990076	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-09-L2-01	Emergency Lighting JB	LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990016	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-09-L2-02	Emergency Lighting JB	LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990019	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-09-L2-04	Emergency Lighting JB	LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990017	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-09-L2-05	Emergency Lighting JB	LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990030	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-09-L2-06	Emergency Lighting JB	LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990029	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-09-L2-07	Emergency Lighting JB	LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990028	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-09-L2-08	Emergency Lighting JB	LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990027	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-09-L2-09	Emergency Lighting JB	LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990026	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-09-L2-10	Emergency Lighting JB	LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990025	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-09-L2-11	Emergency Lighting JB	LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990024	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
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EJB-200N1-09-L2-13	Emergency Lighting JB	LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990022	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-09-L2-14	Emergency Lighting JB	LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990021	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-09-L2-15	Emergency Lighting JB	LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990020	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-09-L2-16	Emergency Lighting JB	LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990031	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-09-L2-17	Emergency Lighting JB	BELOW LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990015	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-10-L3-01	Stair Emergency Lighting JB	LOWER & UPPER DECK STAIRS	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990040	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-10-L3-02	Stair Emergency Lighting JB	LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990039	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-10-L3-03	Stair Emergency Lighting JB	LOWER & UPPER DECK STAIRS	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990041	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-10-L3-04	Stair Emergency Lighting JB	LOWER & UPPER DECK STAIRS	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990042	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-10-L3-05	Stair Emergency Lighting JB	BELOW LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990034	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-10-L3-06	Stair Emergency Lighting JB	BELOW LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990035	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-10-L3-07	Stair Emergency Lighting JB	BELOW LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990036	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-10-L3-08	Stair Emergency Lighting JB	BELOW LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990037	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-10-L3-09	Stair Emergency Lighting JB	BELOW LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990038	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
ELF-200N1-02-L1-01	Normal Lighting Fixture	UPPER DECK	1724001290	Cortem Spa	Cortem Spa	24/86772	LIFEX-ME-0645-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	
ELF-200N1-02-L1-02	Normal Lighting Fixture	UPPER DECK	1724001290	Cortem Spa	Cortem Spa	24/86773	LIFEX-ME-1260N-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	
ELF-200N1-02-L1-03	Normal Lighting Fixture	UPPER DECK	1724001290	Cortem Spa	Cortem Spa	24/86772	LIFEX-ME-0645-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	
ELF-200N1-02-L1-04	Normal Lighting Fixture	UPPER DECK	1724001290	Cortem Spa	Cortem Spa	24/86772	LIFEX-ME-0645-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	
ELF-200N1-02-L1-05	Normal Lighting Fixture	UPPER DECK	1724001290	Cortem Spa	Cortem Spa	24/86772	LIFEX-ME-0645-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	HAZARDOUS-AREA_8
ELF-200N1-02-L1-06	Normal Lighting Fixture	UPPER DECK	1724001290	Cortem Spa	Cortem Spa	24/86772	LIFEX-ME-0645-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	
ELF-200N1-02-L1-07	Normal Lighting Fixture	UPPER DECK	1724001290	Cortem Spa	Cortem Spa	24/86772	LIFEX-ME-0645-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	HAZARDOUS-AREA_8 HAZARDOUS-AREA_3
ELF-200N1-02-L1-08	Normal Lighting Fixture	UPPER DECK	1724001290	Cortem Spa	Cortem Spa	24/86772	LIFEX-ME-0645-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	HAZARDOUS-AREA_8 HAZARDOUS-AREA_3
ELF-200N1-02-L1-09	Normal Lighting Fixture	UPPER DECK	1724001290	Cortem Spa	Cortem Spa	24/86772	LIFEX-ME-0645-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	HAZARDOUS-AREA_8 HAZARDOUS-AREA_1
ELF-200N1-02-L1-10	Normal Lighting Fixture	UPPER DECK	1724001290	Cortem Spa	Cortem Spa	24/86772	LIFEX-ME-0645-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	HAZARDOUS-AREA_8 HAZARDOUS-AREA_1
ELF-200N1-02-L1-11	Normal Lighting Fixture	UPPER DECK	1724001290	Cortem Spa	Cortem Spa	24/86772	LIFEX-ME-0645-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	HAZARDOUS-AREA_3 HAZARDOUS-AREA_2 HAZARDOUS-AREA_5 HAZARDOUS-AREA_6
ELF-200N1-02-L1-12	Normal Lighting Fixture	UPPER DECK	1724001290	Cortem Spa	Cortem Spa	24/86772	LIFEX-ME-0645-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	HAZARDOUS-AREA_1 HAZARDOUS-AREA_2 HAZARDOUS-AREA_5 HAZARDOUS-AREA_4
ELF-200N1-02-L1-13	Normal Lighting Fixture	UPPER DECK	1724001290	Cortem Spa	Cortem Spa	24/86772	LIFEX-ME-0645-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	HAZARDOUS-AREA_1 HAZARDOUS-AREA_2 HAZARDOUS-AREA_5 HAZARDOUS-AREA_4
ELF-200N1-02-L1-14	Normal Lighting Fixture	UPPER DECK	1724001290	Cortem Spa	Cortem Spa	24/86772	LIFEX-ME-0645-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	
ELF-200N1-02-L1-15	Normal Lighting Fixture	UPPER DECK	1724001290	Cortem Spa	Cortem Spa	24/86772	LIFEX-ME-0645-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	
ELF-200N1-02-L1-16	Normal Lighting Fixture	UPPER DECK	1724001290	Cortem Spa	Cortem Spa	24/86772	LIFEX-ME-0645-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	

EU Type Examination Certificate CML 20ATEX3018X Issue 1

1 Equipment intended for use in Potentially Explosive Atmospheres Directive 2014/34/EU

2 Equipment **LifEx-ME, LifEx-MN and LifEx-MT series of linear lighting fixtures**

3 Manufacturer **Cortem S.p.A.**

4 Address **Via Aquileia 10**
34070 Villesse
(GO)
Italy

5 The equipment is specified in the description of this certificate and the documents to which it refers.

6 CML B.V., Chamber of Commerce No 6738671, Koopvaardijweg 32, 4906CV Oosterhout, The Netherlands, Notified Body Number 2776, in accordance with Article 17 of Directive 2014/34/EU of the European Parliament and of the Council, dated 26 February 2014, certifies that this equipment has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of equipment intended for use in potentially explosive atmospheres given in Annex II to the Directive.

The examination and test results are recorded in the confidential reports listed in Section 12.

7 If an 'X' suffix appears after the certificate number, it indicates that the equipment is subject to conditions of safe use (affecting correct installation or safe use). These are specified in Section 14.

8 This EU Type Examination certificate relates only to the design and construction of the specified equipment or component. Further requirements of Directive 2014/34/EU Article 13 apply to the manufacture of the equipment or component and are separately certified.

9 Compliance with the Essential Health and Safety Requirements, with the exception of those listed in the confidential report, has been demonstrated through compliance with the following documents:

EN IEC 60079-0:2018	EN 60079-1:2014	EN IEC 60079-7:2015+A1:2018
EN 60079-18:2015+A1:2017	EN 60079-31:2014	

10 The equipment shall be marked with the following:

LifEx-ME	LifEx-MN and LifEx-MT
Ex db eb mb IIC T.. Gb	Ex tb IIIC T…°C Db
Ex eb mb IIC T.. Gb *(when Ex mb LED drivers are used)*	IP66
Ex tb IIIC T…°C Db	
IP66	
Ta=* see description	Ta=* see description

11 Description

The LifEx is a range of linear LED lighting fixtures that are available in three different configurations for different applications, designated as the LifEx-ME, LifEx-MT and LifEx-MN.

LifEx-ME

The LifEx-ME version has an Equipment Protection Level of EPL Gb and Db and utilises types of protection increased safety (eb) and dust protection by enclosure (tb), along with encapsulation (mb) for the light source and flameproof (db) for the driver.

It is constructed from an aluminium enclosure, with either a glass or polycarbonate lens and with optional polycarbonate diffuser.

LifEx-MN

The LifEx-MN version has an Equipment Protection Level of EPL Gc and Db and utilises types of protection increased safety (ec) and dust protection by enclosure (tb).

It is constructed from an aluminium enclosure, with polycarbonate diffuser and/or with optional glass or polycarbonate lens.

LifEx-MT

The LifEx-MT versions has an Equipment Protection Level of EPL Db and utilises types of protection dust protection by enclosure (tb).

It is constructed from an aluminium enclosure, with polycarbonate diffuser and/or with optional glass or polycarbonate lens.

Design Options

Every configuration is available in lengths ranging from 300 mm to 1500 mm, and power ratings up to a maximum of 105W of nominal power.

The LifEx can be used in only normal service, in only emergency service or in normal and emergency service.

The minimum ambient temperature for the range is:

- -60°C for versions without battery
- -60°C for versions with the battery heater
- -20°C for versions with battery

The range is available with the following maximum ambient temperatures:

	With glass lens and with/without polycarbonate diffuser	With Polycarbonate lens and with/without polycarbonate diffuser	Without lens polycarbonate diffuser only
LifEx-M...0310	+60°C	+60°C	+60°C
LifEx-M...0315	+60°C	+60°C	+60°C
LifEx-M...0330	+60°C	Configuration not available	Configuration not available
LifEx-M...0615	+60°C	+60°C	+60°C
LifEx-M...0630	+60°C	+50°C	+60°C
LifEx-M...0645	+57°C	+47°C	+60°C
LifEx-M...0660	+47°C	Configuration not available	+58°C
LifEx-M...1230	+60°C	+60°C	+60°C
LifEx-M...1260	+60°C	+50°C	+60°C
LifEx-M...1290	+60°C	+40°C	+60°C
LifEx-M...12120	+54°C	Configuration not available	+60°C
LifEx-M...1590	+60°C	+40°C	+60°C

Table 1: Maximum Ambient Temperatures

The following tables provide the Temperature Class (EPL Gb) and Maximum Surface Temperature (EPL Db) for each LifEx type, with the following notes:

- The LifEx-MN with an ambient temperature greater than 50°C is T5 or T4. T6 is not included.
- The Temperature Class (EPL Gb) and Maximum Surface Temperature (EPL Db) in the tables below are not applicable when the ambient temperature is not permitted in the above maximum ambient temperature range table.

13. (For example, the LifEx-M...0660 is not permitted with polycarbonate lens, therefore the Temperature Class (EPL Gb) and Maximum Surface Temperature (EPL Db) for this version in tables 2 and 3 are not applicable)

	Temperature Class (EPL Gb and Gc) and Maximum Surface Temperature (EPL Db) Based on ambient temperature													
	40°C		45°C		47°C		50°C		54°C		57°C		60°C	
	EPL Db	EPL Gb/Gc	EPL Db	EPL Gb/Gc	EPL Db	EPL Gb/Gc	EPL Db	EPL Gb/Gc	EPL Db	EPL Gb/Gc	EPL Db	EPL Gb/Gc	EPL Db	EPL Gb/Gc
LifEx-M...0310	T56°C	T6	T56°C	T6	T58°C	T6	T61°C	T6	T65°C	T6	T68°C	T6	T71°C	T6
LifEx-M...0315	T56°C	T6	T56°C	T6	T58°C	T6	T61°C	T6	T65°C	T6	T68°C	T6	T71°C	T6
LifEx-M...0615	T56°C	T6	T56°C	T6	T58°C	T6	T61°C	T6	T65°C	T6	T68°C	T6	T71°C	T6
LifEx-M...0630	T69°C	T6	T69°C	T5	T71°C	T5	T74°C	T5	T78°C	T5	T81°C	T4	T84°C	T4
LifEx-M...0645	T72°C	T5	T72°C	T5	T74°C	T5	T77°C	T5	T81°C	T4	T84°C	T4	T87°C	T4
LifEx-M...0660	T77°C	T5	T77°C	T4	T79°C	T4	T82°C	T4	T86°C	T4	T89°C	T4	T92°C	T4
LifEx-M...1230	T58°C	T6	T58°C	T6	T60°C	T6	T63°C	T6	T67°C	T6	T70°C	T6	T73°C	T6
LifEx-M...1260	T67°C	T6	T67°C	T5	T69°C	T5	T72°C	T5	T76°C	T5	T79°C	T4	T82°C	T4
LifEx-M...1290	T72°C	T5	T72°C	T5	T74°C	T4	T77°C	T4	T81°C	T4	T84°C	T4	T87°C	T4
LifEx-M...12120	T75°C	T5	T75°C	T4	T77°C	T4	T80°C	T4	T84°C	T4	T87°C	T4	T90°C	T4
LifEx-M...1590	T72°C	T5	T72°C	T5	T74°C	T4	T77°C	T4	T81°C	T4	T84°C	T4	T87°C	T4

Table 2: Temperature Class (EPL Gb) and Maximum Surface Temperature (EPL Db) for LifEx types with glass/polycarbonate lens and with polycarbonate diffuser

	Temperature Class (EPL Gb and Gc) and Maximum Surface Temperature (EPL Db) Based on ambient temperature					
	40°C		55°C		60°C	
	EPL Db	EPL Gc	EPL Db	EPL Gc	EPL Db	EPL Gc
LifEx-ME-0330	T58°C	T6	T73°C	T6	T78°C	T5
LifEx-MN-0330	T58°C	T6	T73°C	T5	T78°C	T4
LifEx-MT-0330	T58°C	-	T73°C	-	T78°C	-

Table 3: Temperature Class (EPL Gb and Gc) and Maximum Surface Temperature (EPL Db) for LifEx-M...-0330 types with glass/polycarbonate window and without polycarbonate diffuser

	Temperature Class (EPL Gb) and Maximum Surface Temperature (EPL Db) Based on ambient temperature													
	40°C		45°C		47°C		50°C		54°C		57°C		60°C	
	EPL Db	EPL Gb	EPL Db	EPL Gb	EPL Db	EPL Gb	EPL Db	EPL Gb	EPL Db	EPL Gb	EPL Db	EPL Gb	EPL Db	EPL Gb
LifEx-M...0310	T62°C	T6	T62°C	T6	T64°C	T6	T67°C	T6	T71°C	T6	T74°C	T6	T77°C	T6
LifEx-M...0315	T62°C	T6	T62°C	T6	T64°C	T6	T67°C	T6	T71°C	T6	T74°C	T6	T77°C	T6
LifEx-M...0615	T62°C	T6	T62°C	T6	T64°C	T6	T67°C	T6	T71°C	T6	T74°C	T6	T77°C	T6
LifEx-M...0630	T85°C	T6	T85°C	T5	T87°C	T5	T90°C	T5	T94°C	T5	T97°C	T4	T100°C	T4
LifEx-M...0645	T88°C	T6	T88°C	T5	T90°C	T5	T93°C	T5	T97°C	T4	T100°C	T4	T103°C	T4
LifEx-M...0660	T100°C	T6	T100°C	T4	T102°C	T4	T105°C	T4	T109°C	T4	T112°C	T4	T115°C	T4
LifEx-M...1230	T65°C	T6	T65°C	T6	T67°C	T6	T70°C	T6	T74°C	T6	T77°C	T6	T80°C	T6
LifEx-M...1260	T85°C	T6	T85°C	T5	T87°C	T5	T90°C	T5	T94°C	T5	T97°C	T4	T100°C	T4
LifEx-M...1290	T94°C	T6	T94°C	T5	T96°C	T4	T99°C	T4	T103°C	T4	T106°C	T4	T109°C	T4
LifEx-M...12120	T96°C	T5	T96°C	T4	T98°C	T4	T101°C	T4	T105°C	T4	T108°C	T4	T111°C	T4
LifEx-M...1590	T94°C	T6	T94°C	T5	T96°C	T4	T99°C	T4	T103°C	T4	T106°C	T4	T109°C	T4

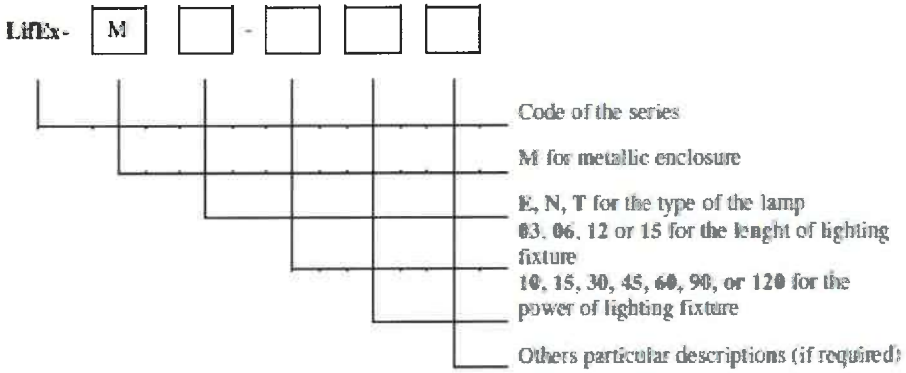
Table 4: Temperature Class (EPL Gb) and Maximum Surface Temperature (EPL Db) for LifEx types with glass/polycarbonate lens and without polycarbonate diffuser

	Maximum Surface Temperature (EPL Db) Based on ambient temperature						
	40°C	45°C	47°C	50°C	54°C	57°C	60°C
LifEx-M...0310	T56°C	T56°C	T58°C	T61°C	T65°C	T68°C	T71°C
LifEx-M...0315	T56°C	T56°C	T58°C	T61°C	T65°C	T68°C	T71°C
LifEx-M...0615	T56°C	T56°C	T58°C	T61°C	T65°C	T68°C	T71°C
LifEx-M...0630	T69°C	T69°C	T71°C	T74°C	T78°C	T81°C	T84°C
LifEx-M...0645	T72°C	T72°C	T74°C	T77°C	T81°C	T84°C	T87°C
LifEx-M...0660	T77°C	T77°C	T79°C	T82°C	T86°C	T89°C	T92°C
LifEx-M...1230	T58°C	T58°C	T60°C	T63°C	T67°C	T70°C	T73°C
LifEx-M...1260	T67°C	T67°C	T69°C	T72°C	T76°C	T79°C	T82°C
LifEx-M...1290	T72°C	T72°C	T74°C	T77°C	T81°C	T84°C	T87°C
LifEx-M...12120	T75°C	T75°C	T77°C	T80°C	T84°C	T87°C	T90°C
LifEx-M...1590	T72°C	T72°C	T74°C	T77°C	T81°C	T84°C	T87°C

Table 5: (Applicable to EPL Db only) Maximum Surface Temperature for LifEx types without glass/polycarbonate lens and with polycarbonate diffuser

The equipment has been separately tested against the requirements of IEC 60529 and it meets IP66. The gaskets on the caps provide the degree of protection.

The equipment uses the following nomenclature:



Variation 1:

This variation has assed the following changes:

i. Addition of an optional new removable cover for "easy installation" (which use the new aluminium extrusion);
ii. Addition of an optional external battery box;
iii. minimum ambient temperature extended to -60°C when Ex mb heater is used;
iv. Additional optional Ex mb EBM LED driver as an alternative to EBL3040 / EBL4040 Ex db series LED drivers;
v. added 30W model for size 300mm (LifEx-M..-0330).

12 Certificate history and evaluation reports

Issue	Date	Associated report	Notes
0	06 May 2020	R13027A/00	Prime Issue
1	01 Jul 2022	R14875A/00	Introduction of Variation 1

Note: Drawings that describe the equipment or component are listed in the Annex.

13 Conditions of Manufacture

The following conditions are required of the manufacturing process for compliance with the certification.

i. Where the product incorporates certified parts or safety critical components the manufacturer shall ensure that any changes to those parts or components do not affect the compliance of the certified product that is the subject of this certificate.
ii. The LifEx series lighting fixtures are to be designed in accordance with general electrical safety standards.
iii. The routine dielectric strength test on the LifEx-ME and LifEx-MN luminaries with applied voltage shall be performed at 2U + 1000V with a minimum value of 1560V (U = maximum rated voltage of the lamp)

iv. A routine visual inspection of the encapsulated parts is required, as per Clause 9.1 of IEC 60079-18. There shall be no visible damage or deformation to the encapsulant.

v. Where the removable battery pack is used with phoenix contacts, if used with a T6 version of the equipment, the maximum ambient shall be limited to +40°C.

14 Specific Conditions of Use (Special Conditions)

The following conditions relate to safe installation and/or use of the equipment.

i. Cable entries are provided which have less than 5 threads engaged. Care must be taken to ensure the correct gaskets and washers are sued with the cable gland to maintain IP66.

ii. The equipment uses an external part that is constructed from non-metallic materials, and as such care is to be taken to prevent an electro-static charging hazard. See instruction manual for details.

iii. For versions with glass window of 4mm thickness without cover, the luminaire must be installed in a location with a low risk of mechanical danger

iv. The temperature at the entry point may reach up to 75°C. Suitably rated cable glands must be used.

Certificate Annex

Certificate Number	**CML 20ATEX3018X**
Equipment	**LifEx-ME, LifEx-MN and LifEx-MT series of linear lighting fixtures**
Manufacturer	**Cortem S.p.A.**

The following documents describe the equipment or component defined in this certificate:

Issue 0

Drawing No	Sheets	Rev	Approved date	Title
A3-7466	1 to 6	0	06 May 2020	LifEx-M Luminaires
A4-7467	1 to 6	0	06 May 2020	Technical Note

Issue 1

Drawing No.	Sheets	Rev	Approved date	Title
A3-7466	1 of 6	1	01 Jul 2022	LifEx-M Luminaires Assembly and External Dimensions
A3-7466	2 of 6	1	01 Jul 2022	LifEx-M Luminaires Detail of sealing and op is protection
A3-7466	3 of 6	1	01 Jul 2022	LifEx-M Luminaires Detail of driver and inverter for LifEx-ME version
A3-7466	4 of 6	1	01 Jul 2022	LifEx-M Luminaires Circuit diagram for LifeEx-ME version
A3-7466	5 of 6	1	01 Jul 2022	LifEx-M Luminaires Circuit diagram LifEx-MN and LifEx-MT version
A3-7466	6 of 6	1	01 Jul 2022	LifEx-M Luminaires Detail of battery pack
A3-7729	1 to 3	0	01 Jul 2022	Battery heater for -60°C /-40°C applications Assembly and External Dimensions
A4-7727	1 to 8	0	01 Jul 2022	Technical Note

ITEM	Tag	ELF-200N1-02-L1-09 : NORMAL LIGHT		Dwg	123A90-DDL-EL-DL-20118
	S/Sys	83-40 : Normal Lighting Upper Deck		Module	UD
TASK	code	C10001661	Location: Onshore Activities	User	Rosetti Marino Quality Control
FORM	Process	MC	Activity: CCK / Discipline: ATEX / Form: CJX01		Hazardous Area Equipment Detailed Inspection

Schedule Ref. #				**Area Code**					
Area Class Drawing	123A90-DDL-SAF-DL-30022			**Serial No.**	24/86772				
Manufacturer	Cortem Spa			**Model**	LIFEX-ME-0645-BB				
Cert No.	CML 20 ATEX 3018X			**Equipment Ambient Temp.**	-60°C to +60°C				
Area Classification	hazardous	**Zone**	2	**Gas group**	IIC	**Temp class**	T1		
Equipment Protection Type	Ex db	**EPL**	Gb	**Gas group**	IIC	**Temp class**	T5	**IP Rating**	IP66

Detailed Note:

1) Inspection shall only be performed by competent personnel

2) All fields are to be completed. Any non-applicable field shall state “NA”. Comments are required for ‘Failure’ column ONLY.

3) An Inspection Sheet should be completed for EACH individual item of Equipment.

	General Equipment	Detailed	OK/NA/PL	Comments
1	Equipment is appropriate to the EPL / Zone requirements of the area	x	OK	
2	Equipment group is correct	x	OK	
3	Equipment temperature class is correct	x	OK	
4	Degree of IP protection of equipment is appropriate for the level of protection	x	OK	
5	Equipment circuit identification is correct	x	OK	
6	Equipment circuit identification is available	x	NA	
7	Enclosure glass parts and glass-to-metal sealing gaskets and / or compounds are satisfactory	x	OK	
8	There is no damage or unauthorized modifications	x	OK	
9	There is no evidence of unauthorized modifications	x	OK	
10	Bolts, cable entry devices (direct and indirect) & blanking elements are of the correct type, are complete & tight		NA	
	Physical check	x	OK	
11	Threaded covers on enclosures are of the correct type, are tight and secured		NA	
	Physical check	x	NA	
12	Joint surfaces are clean and undamaged and gaskets, if any, are satisfactory and positioned correctly	x	OK	
13	Condition of enclosure gaskets is satisfactory	x	OK	
14	There is no evidence or ingress of water or dust in the enclosure in accordance with the IP rating	x	OK	
15	Electrical connections are tight	x	OK	
16	Bridging links do not reduce creepage / clearance and are allowed	x	OK	
17	Unused terminals are tightened	x	OK	
18	Encapsulated components are undamaged	x	NA	
19	Flameproof components are undamaged	x	NA	
20	Fluorescent lamps are not indicating EOL effects (only for Ex “e” – Ex “n” – Ex “t”)	x	NA	
21	HID lamps are not indicating EOL effects	x	NA	
22	Lamp type, rating, pin configuration and position are correct	x	NA	
23	Breathing and drainage devices are satisfactory	x	OK	
24	Type of cable is appropriate	x	OK	
25	There is no obvious damage to the cables	x	OK	
26	Cable glands are the correct type and installed correctly	x	OK	
27	Sealing of trunking, ducts, pipes and or conduits is satisfactory	x	NA	
28	Stopping boxes and cable boxes are corrected filled	x	OK	

ITEM	Tag	ELF-200N1-02-L1-09	: NORMAL LIGHT			Dwg	123A90-DDL-EL-DL-20118
	S/Sys	83-40	: Normal Lighting Upper Deck			Module	UD
TASK	code	C10001661		Location	Onshore Activities	User	Rosetti Marino Quality Control
FORM	Process	MC	Activity CCK	Discipline	ATEX	Form	CJX01 Hazardous Area Equipment Detailed Inspection

29	Integrity of conduit system and interface with mixed system maintained	x	NA	
30	Earthing connections, including any supplementary earthing bonding connections are satisfactory (for example connections are tight and conductors are of sufficient cross-section		NA	
	Physical check	x	OK	
31	Automated electric protective devices operate within permitted limits	x	NA	
32	Special conditions (if applicable) have been complied with.	x	OK	
33	All cable cores are uniquely labeled	x	OK	
34	Cable cores not in use are correctly terminated	x	NA	
35	Equipment is adequately protected against corrosion, weather, vibration and other adverse factors	x	PL	
36	No undue accumulation of dust and dirt	x	OK	
37	All equipment housings are clean and dry	x	OK	
38	All moving parts are free and have no mechanical damage	x	NA	
	Applicable for Installation of Heating Systems			
39	Temperature sensors function according to manufacturer's documents (only applicable for Ex-d e Ex-e)	x	NA	
40	Safety cut off devices function according to manufacturer's documents (only applicable for Ex-d e Ex-e)	x	NA	
41	The setting of the safety cut off is sealed (only applicable for Ex-d e Ex-e)	x	NA	
42	Reset of a heating system safety cut off possible with tool only(only applicable for Ex-d e Ex-e)	x	NA	
43	Auto-reset is not possible (only applicable for Ex-d e Ex-e)	x	NA	
44	Reset of a safety cut off under fault conditions is prevented (only applicable for Ex-d e Ex-e)	x	NA	
45	Safety cut off independent from control system (only applicable for Ex-d e Ex-e)	x	NA	
46	Level switch is installed and correctly set, if required (only applicable for Ex-d e Ex-e)	x	NA	
47	Flow switch is installed and correctly set, if required (only applicable for Ex-d e Ex-e)	x	NA	
	Extra Ex d checks			
48	Obstructions adjacent to flame proof flanged joints are in accordance with IEC 60079-14	x	NA	
49	Ex d conduits seals are fitted to all conduits and satisfactorily sealed	x	NA	
50	Cable glands are of the correct type and installed correctly	x	OK	
51	Adaptors, reducers, stop ends, etc. are all certified Ex d	x	OK	
52	Flame path are clean and undamaged	x	OK	
53	Flange gap dimensions are within tolerances	x	NA	
54	Motor fans have sufficient clearance to the enclosure and/or covers, cooling systems are undamaged, motor foundations have no indentations or cracks	x	NA	
55	The ventilation airflow is not impeded	x	NA	
56	Insulation resistance (IR) of the motor windings is satisfactory	x	NA	
57	Fault loop impedance (TN systems) or earthing resistance (IT systems) is satisfactory	x	NA	
58	Variable voltage/frequency installation complies with documentation	x	NA	
	Extra Ex e checks			
59	All Equipment is Ex e certified (including components within enclosure)	x	NA	
60	Power conductors are not bunched together causing possible hot spots	x	NA	
61	Motor fans have sufficient clearance to the enclosure and/or covers, cooling systems are undamaged, motor foundations have no indentations or cracks	x	NA	
62	Insulation resistance (IR) of the motor windings is satisfactory	x	NA	
63	Fault loop impedance (TN systems) or earthing resistance (IT systems) is satisfactory	x	NA	
64	The ventilation airflow is not impeded	x	NA	
65	Motor protection devices operate within the permitted tE or tA time limits.	x	NA	
66	Variable voltage/frequency installation complies with documentation	x	NA	

ITEM	Tag	ELF-200N1-02-L1-09	: NORMAL LIGHT			Dwg	123A90-DDL-EL-DL-20118
	S/Sys	83-40	: Normal Lighting Upper Deck			Module	UD
TASK	code	C10001661		Location	Onshore Activities	User	Rosetti Marino Quality Control
FORM	Process	MC	Activity CCK	Discipline	ATEX	Form	CJX01
							Hazardous Area Equipment Detailed Inspection

	Extra Ex n (nR, nL) checks				
67	All Terminals are Ex n certified (if required on certificate)	x	NA		
68	Hermetically sealed and enclosed break devices are undamaged	x	NA		
69	Restricted breathing properties satisfactory (conduct vacuum test)	x	NA		
70	Test port, if fitted, is functional (type “nR” only)	x	NA		
71	Breathing operation is satisfactory (type “nR” only)	x	NA		
72	Motor fans have sufficient clearance to the enclosure and/or covers, cooling systems are	x	NA		
73	The ventilation airflow is not impeded	x	NA		
74	Insulation resistance (IR) of the motor windings is satisfactory	x	NA		
75	Motor protection devices operate within the permitted tE or tA time limits.	x	NA		
76	Variable voltage/frequency installation complies with documentation	x	NA		
	Extra Ex p checks				
77	Pressurization gas is correct type	x	NA		
78	Actual pressure is within maximum and minimum settings for equipment	x	NA		
79	Timers set as per certification documentation	x	NA		
80	Alarms and trip functions operate correctly as per certification documentation	x	NA		
81	Fault loop impedance (TN systems) or earthing resistance (IT systems) is satisfactory	x	NA		
82	Automatic electrical protective devices operate within permitted limits	x	NA		
83	Automatic electrical protective devices are set correctly	x	NA		
84	Protective gas inlet temperature is below maximum specified	x	NA		
85	Ducts, pipes and enclosures are in good condition	x	NA		
86	Protective gas is substantially free from contaminants	x	NA		
87	Protective gas pressure and/or flow is adequate	x	NA		
88	Pressure and/or flow indicators, alarms and interlocks function correctly	x	NA		
89	Conditions of spark and particle barriers of ducts for exhausting the gas in hazardous area are satisfactory	x	NA		
90	Specific conditions of use (if applicable) are complied with		NA		
	Extra Ex i (Intrinsically Safe – IS) checks				
91	Equipment has adequate circuit identification for ‘IS’ Installation	x	NA		
92	Cables are installed in accordance with the documentation	x	NA		
93	Segregation is maintained between IS and non-IS Circuits	x	NA		
94	Cable screens are isolated at one end (field side)	x	NA		
95	Cable screens are earthed in accordance with the documentation	x	NA		
96	Safety barrier units, relays and other energy limiting devices are of the approved type, installed in	x	NA		
97	Equipment installed is the one specified in the documentation	x	NA		
98	Ambient temperature range of the apparatus is correct for the installation	x	NA		
99	Service temperature range of the apparatus is correct for the installation	x	NA		
100	Installation is clearly labelled	x	NA		
101	Printed circuit boards are clean and undamaged	x	NA		
102	The maximum voltage Um of the associated apparatus is not exceeded	x	NA		
103	Point-to-point connections are all correct	x	NA		
104	Earth continuity is satisfactory (e.g. connections are tight, conductors are of sufficient cross-section)	x	NA		
105	Earth connections maintain the integrity of the type of protection	x	NA		
106	Intrinsically safe circuit earthing is satisfactory	x	NA		
107	Insulation resistance is satisfactory	x	NA		
108	Short-circuit protection of the power supply is in accordance with the documentation	x	NA		

	BARRIER:	**Manufacturer:**	NA	**Model:**	NA		
		Authority:	NA	**Cert No:**	NA	**Type:**	NA

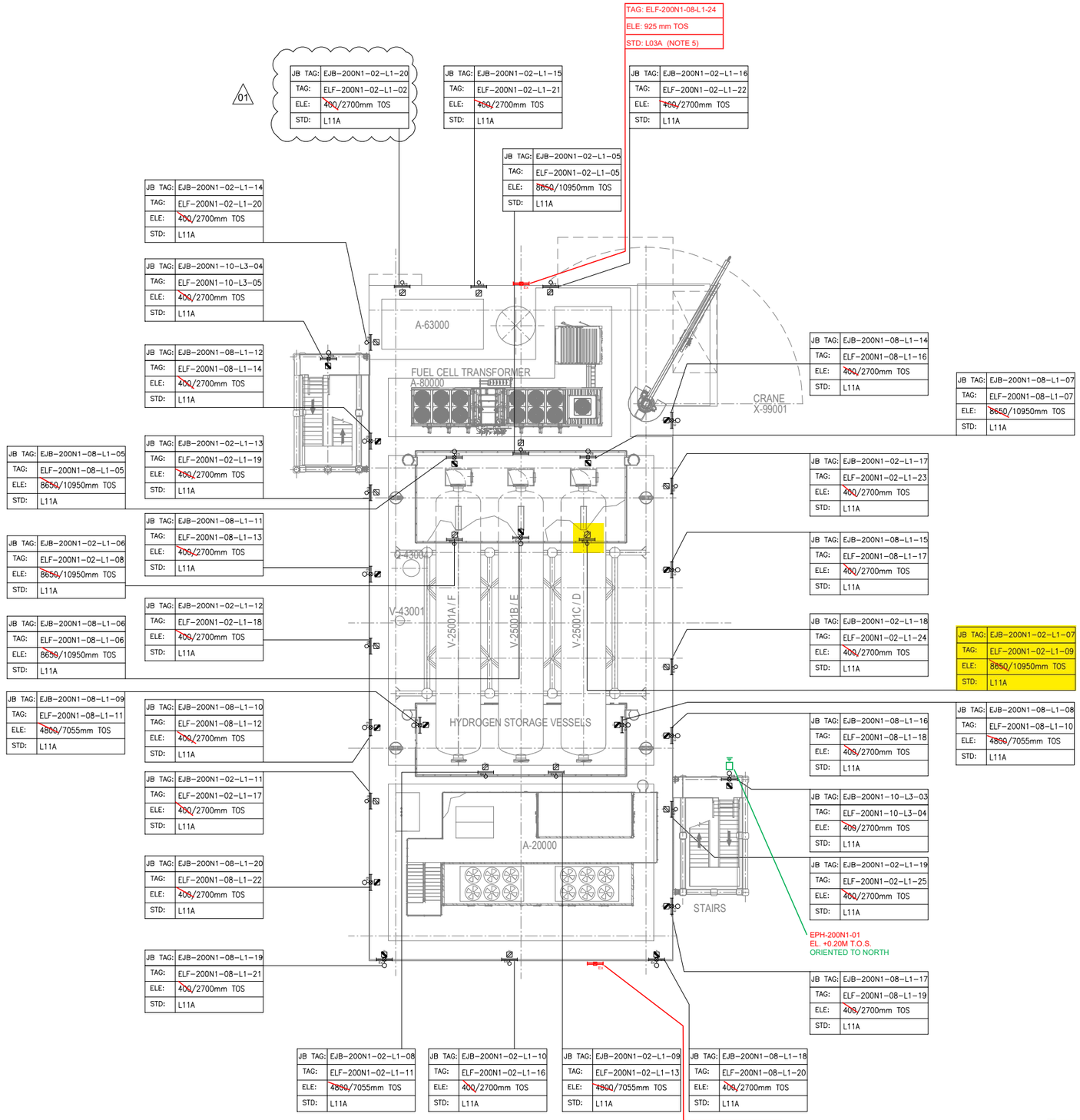
Remarks: Initial inspection should be detailed and carried out before equipment is brought into service as per IEC 60079-17

Please mark only one box as appropriate	
●	**Passed - Complete**
	Failed

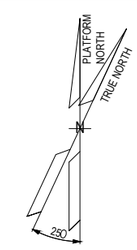
	Performed by	☐ WITNESS ☐ REVIEW	☐ WITNESS ☐ REVIEW
Company	ICS IMPIANTI	RM(ROSETTI MARINO)	
Name	Michele Tartaglia	Andrea Andreani	
Date	2025-01-14	2025-01-22	
Signature	PROVERLIS Digitaly signed by Michele Tartaglia 2025-01-14T08:48:06.346Z	PROVERLIS Digitaly signed by Andrea Andreani 2025-01-22T17:21:48.141Z	

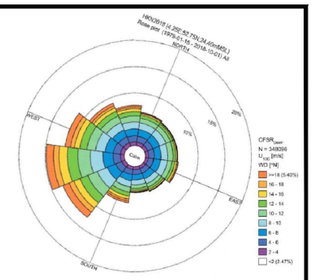
DRAWING NO. 123A90-DDL-EL-DL-20118

REV. 01



PLAN ON UPPER DECK
EL+30.310 T.O.S.





NOTES

1. ALL DIMENSIONS AND ELEVATIONS ARE GIVEN IN mm UNLESS OTHERWISE NOTED.
2. ELEVATIONS REFER TO T.O.S.
3. ELEVATION OF THE LAMPS ARE REFFERED TO THE BOTTOM OF THE LAMP.
4. FOR THE ELEVATION OF JB, REFER TO THE TYPICAL INSTALLATION.
5. FOR ELF-200N1-08-L1-24 AND ELF-200N1-08-L1-25 CONSTRUCTION DETAILS REFER TO DOC. 123A90-DDL-ST-DD-90076

LEGEND

- EMERGENCY LIGHTING JB
- 60W LED EMERGENCY LUMINARIES
- 60W LED EMERGENCY LUMINARIES FIXTURE POLE MOUNTED
- NORMAL LIGHTING JB
- 45W LED NORMAL LUMINARIES
- 45W LED NORMAL LUMINARIES FIXTURE POLE MOUNTED
- WELDING SOCKET WITH INTEGRATED JB
- SMALL POWER SOCKET WITH INTEGRATED JB
- TWILIGHT RELAY SENSOR

JB TAG:	JB-TAG
TAG:	TAG
ELE:	ELEVATION
STD:	STANDARD

REFERENCE DOCUMENTS

123A90-DDL-PP-DL-70070	PLOT PLAN - LOWER & UPPER DECK
123A90-DDL-EL-DL-20100	ELECTRICAL EQUIPMENT LAYOUT - TOP DECK
123A90-DDL-EL-DD-20091	ELECTRICAL TYPICAL INSTALLATION DETAILS - LIGHTING SYSTEM
123A90-DDL-EL-DD-20092	ELECTRICAL TYPICAL INSTALLATION DETAILS - POWER SYSTEM & CABLE INSTALLATION
123A90-DDL-EL-RE-20153	LIGHTING CALCULATION STUDY REPORT
123A90-DDL-ST-DD-90076	IDENTIFICATION PANELS ASSEMBLY AND DETAILS

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	02/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	28/05/24	ASR	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DL-20118**

REV.:	DATE:	SIGNATURE:
1_G	09/01/25	V.Ramponi

ROSETTI MARINO SpA

CROSSWIND

ROSETTI MARINO

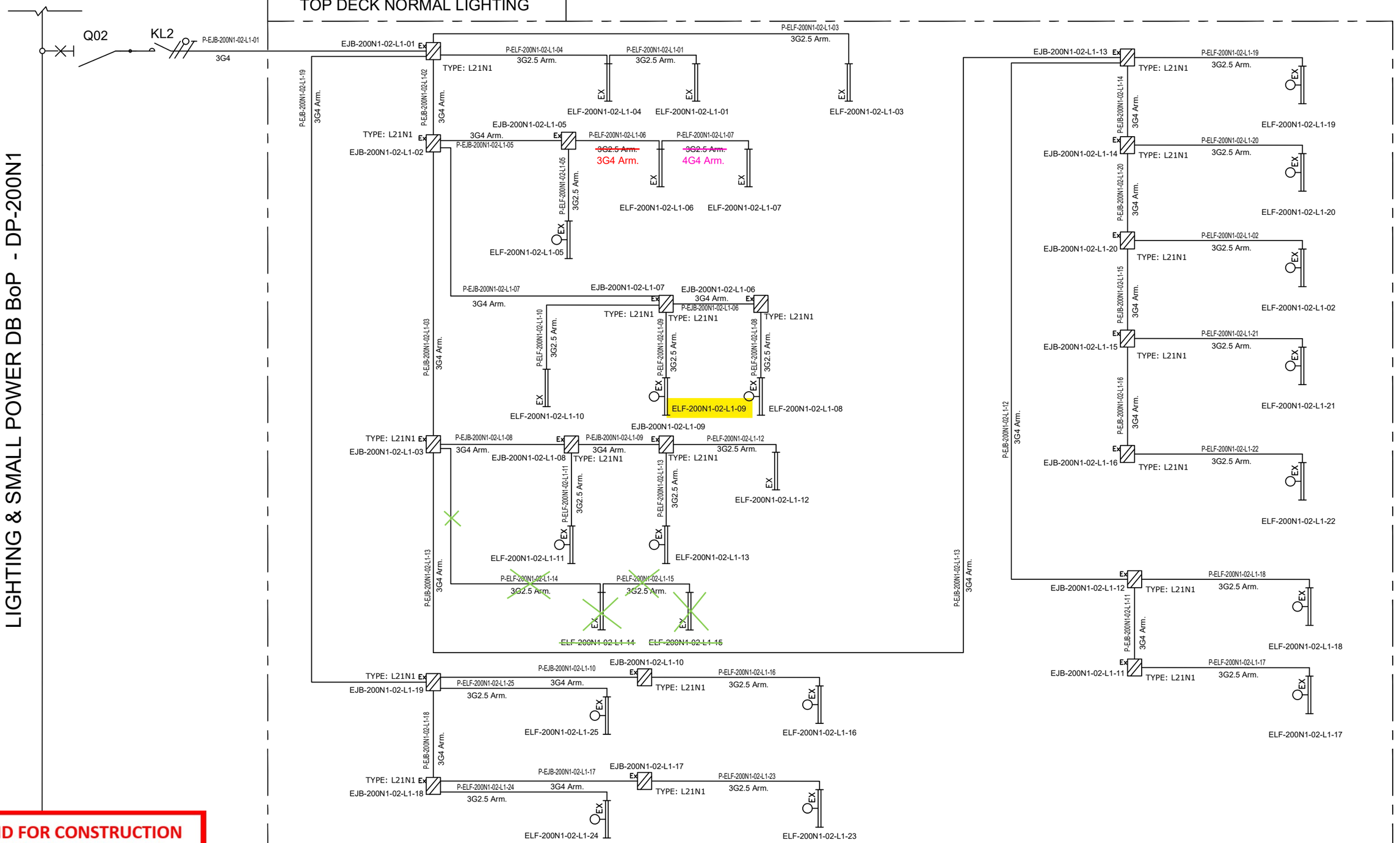
TITLE : BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET LAYOUT – TOP DECK

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK			SCALE 1:150
DRAWN ASR	CHECKED FMA/AMA	APPROVED FPA/DLO	DATE 01/08/24
A1	DRAWING NO. 123A90-DDL-EL-DL-20118	SHEET 1of2	REV. 01

File Name : 123A90-DDL-EL-DL-20118

LIGHTING & SMALL POWER DB BoP - DP-200N1

TOP DECK NORMAL LIGHTING



VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DG-20125**

REV.:	DATE:	SIGNATURE:
2_G	16/01/25	G.Randi

ROSETTI MARINO SpA

CROSSWIND

ROSETTI MARINO

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	08/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	01/07/24	ASR	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

TITLE : BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET CIRCUIT DIAGRAM
TOP DECK–NORMAL LIGHTING

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE : NTS

A3

DRAWING NO. 123A90–DDL–EL–DG–20125

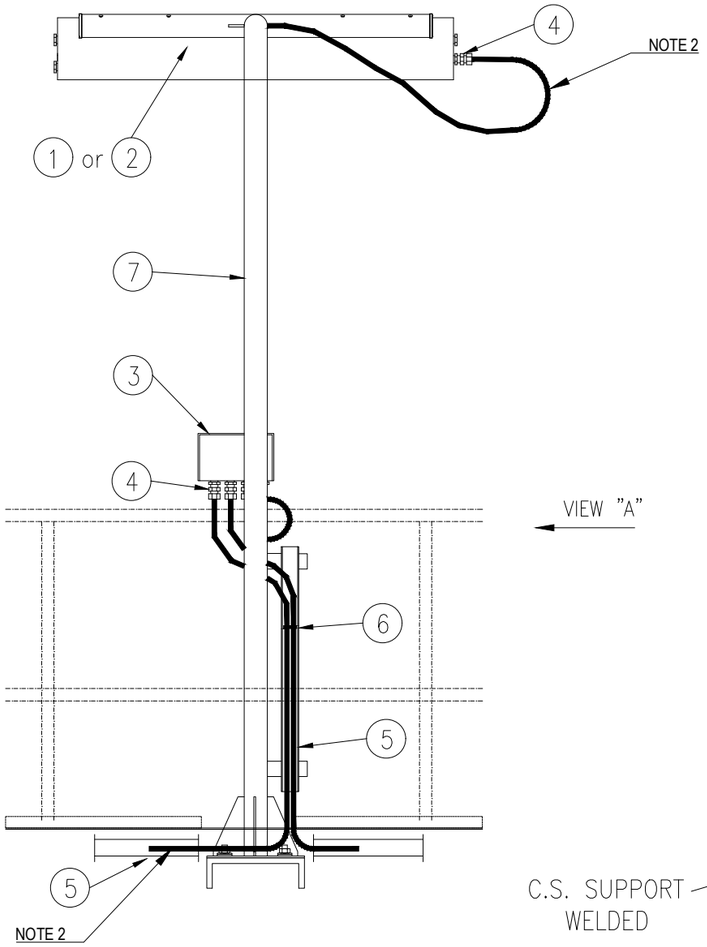
SHEET 010

REV. 01

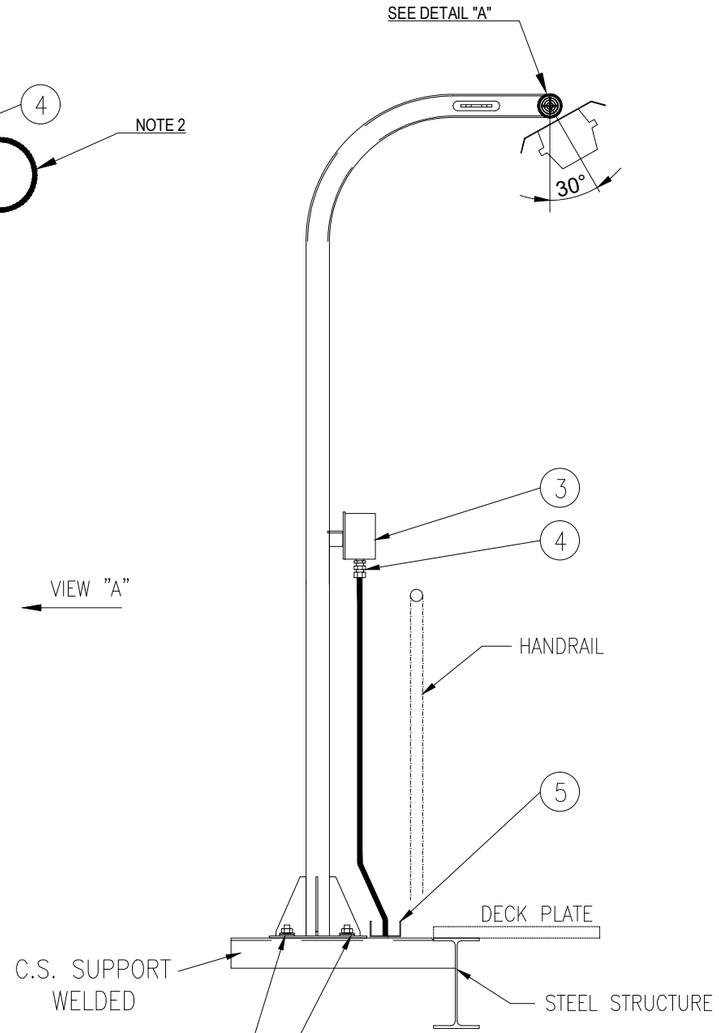
F.to UNI A3: 420mmx297mm

File Name : 123A90–DDL–EL–DG–20125

L11A

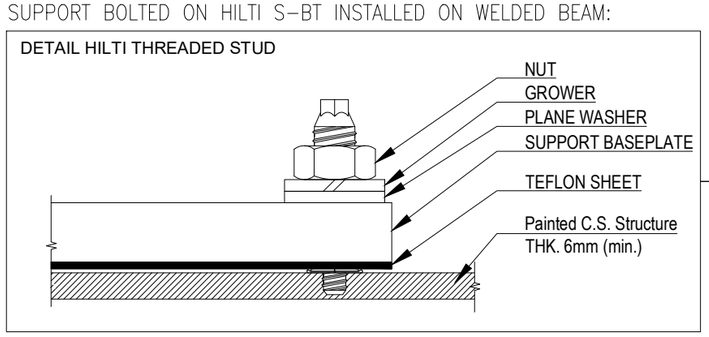


VIEW "A"

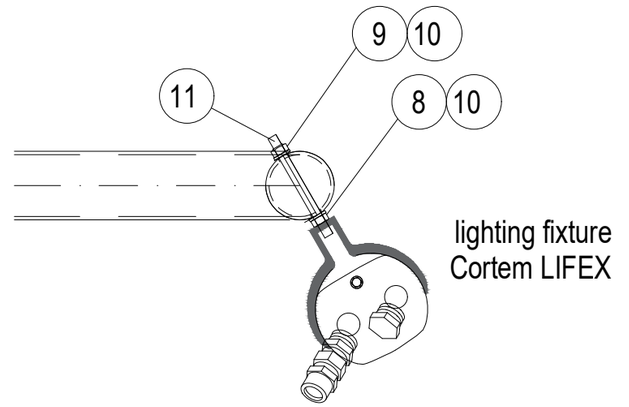


VIEW "A"

SUPPORT BOLTED ON HILTI S-BT INSTALLED ON WELDED BEAM:



POS.	DESCRIPTION	MATERIAL	SIZE	Q.TY	NOTE
1	42W LED LUMINARIES	ALUMINIUM ALLOY		1	
2	45W LED LUMINARIES C/W BATTERY	ALUMINIUM ALLOY		1	
3	JUNCTION BOX (Ex)	GRP		1	NOTE 1
4	CABLE GLAND C/W EARTH TAG, WASHERS, LOCKNUT AND WEATHERPROOF WASHERS	BRASS NICKEL PLATED		AS REQ.	
5	CABLE TRAY	AISI 316L			
6	STAINLESS STEEL NYLON COATED CABLE TIE	SS NYLON COATED			
7	POLE SUPPORT FOR LAMP	AISI 316L	2"		
8	NUT	AISI 316L	M8		
9	SELF.LOCKING NUT	AISI 316L	M8		
10	LARGE PLANE WASHER (24mm DIAM.)	AISI 316L	M8		
11	THREADED ROD M8x100	AISI 316L	M8		



DETAIL "A"

NOTES:

1) FOR LAMPS IN HAZARDOUS AREA, USE ARMOURED CABLE, DOUBLE SEAL CABLE GLAND AND EX JUNCTION BOX.

2) ALWAYS ENSURE CABLE LENGTH IS >3m

VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DD-20091**

REV.:	DATE:	SIGNATURE:
2_A	30/09/24	G.Randi

ROSETTI MARINO SpA

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	30/09/24	GRA	AMA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	04/07/24	NLK	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	21/11/23	SPS	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

02

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL TYPICAL INSTALLATION DETAILS-LIGHTING SYSTEM
LIGHTING FIXTURE MOUNTED ON POLE

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK | SCALE : NTS

A3 | DRAWING NO. 123A90-DDL-EL-DD-20091 | SHEET 014 | REV. 02

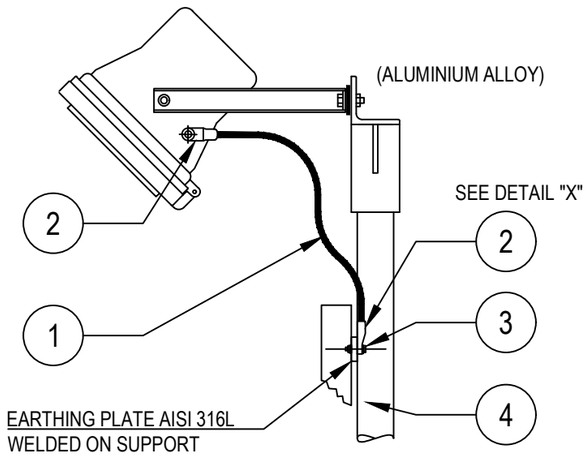
F.to UNI A3: 420mmx297mm

File Name : 123A90-DDL-EL-DD-20091 REV.02.DWG

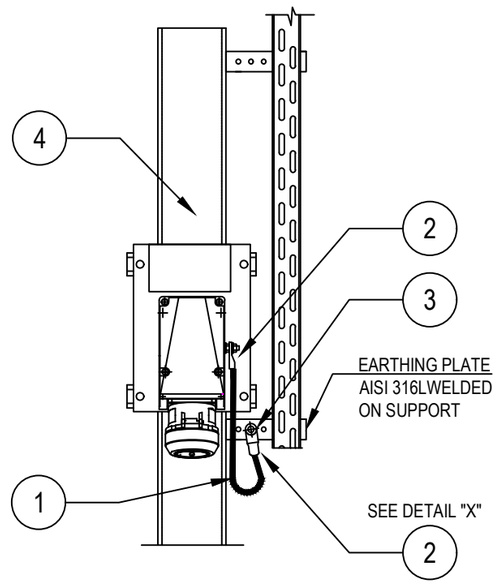
E05

POS.	DESCRIPTION	MATERIAL	SIZE	Q.TY	NOTE
1	Y/G INSULATING COPPER CONDUCTOR	COPPER	$6mm^2$		
2	COMPRESSION TYPE LUG FOR INSULATION COPPER CONDUCTOR	TINNED COPPER	$6mm^2$	2	
3	HEXAG. BOLTS, PLANE WASHERS, SPRING WASHER AND NUT	AISI 316L	M8X30	1	

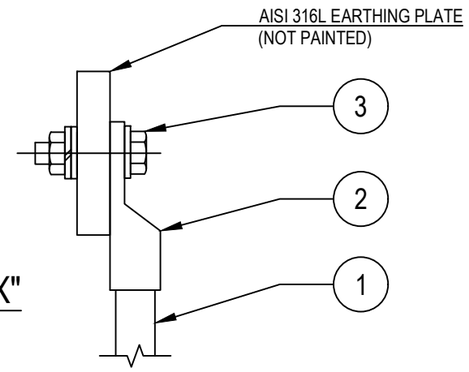
LIGHTING FIXTURE/GENERAL ITEM ON POLE



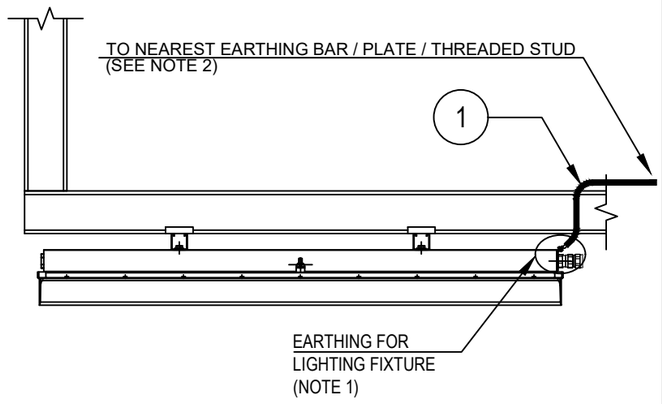
POWER SOCKET OUTLET



DETAIL "X"



LIGHTING FIXTURES



Refer also to TYP. "E32" (SEE SHEET 23)

TYPICAL VALID ALSO FOR NAVAID LIGHTS

NOTES:

1) ALL LIGHTING FIXTURES AND RELEVANT ARMOUR OF THE CABLE, ARE CONNECTED TO EARTH CONNECTION THROUGH THE EARTHING TAG OF THE CABLE GLAND

2) FOR EARTHING POINT USE ONE OF THE FOLLOWING METHODS:
TYP. E03A-D sh. 004 (EARTHING BAR ON STRUCT. UNISTRUT AND CABLE TRAY)
TYP. E11C sh. 003 (EARTHING PLATE)
TYP. E11D sh. 003 (THREADED STUD ON EXTERNAL STRUCTURE)

VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DD-20090**

REV.:	DATE:	SIGNATURE:
2_I	07/11/24	G.Randi

ROSETTI MARINO SpA

CROSSWIND

ROSETTI MARINO

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	26/08/24	GRA	AMA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	10/06/24	SPS	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	21/11/23	SPS	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL TYPICAL INSTALLATION DETAILS–EARTHING SYSTEM
EARTHING FOR ELECTRICAL EQUIPMENTS

CONTRACT NO./TITLE CW–I–WP4–2023–05/HOLLANDSE KUST NOORD WIND PARK | SCALE : NTS

A3 | DRAWING NO. 123A90–DDL–EL–DD–20090 | SHEET 006 | REV. 02

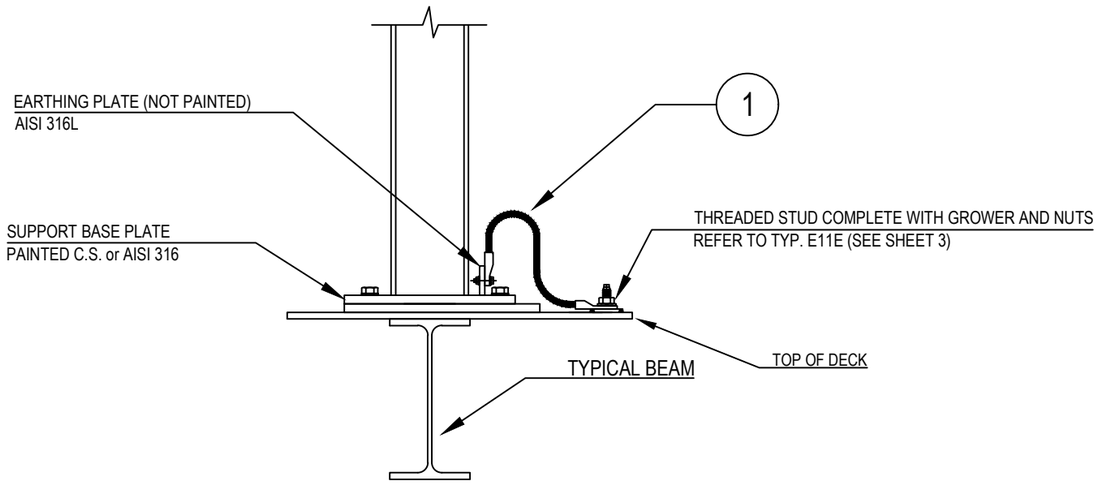
F.to UNI A3: 420mmx297mm

File Name : 123A90-DDL-EL-DD-20090 REV.02.DWG

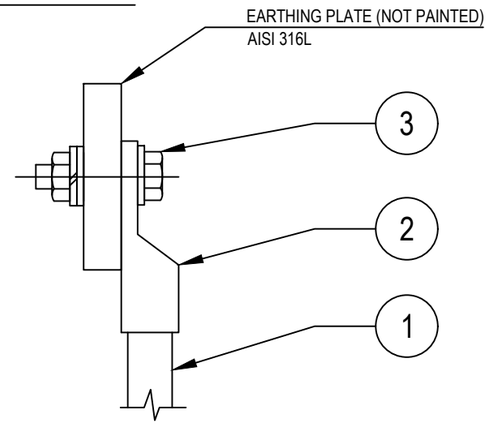
E24

POS.	DESCRIPTION	MATERIAL	SIZE	Q.TY	NOTE
1	As. R. Y/G INSULATING COPPER CONDUCTOR	COPPER	$35mm^2$		
2	COMPRESSION TYPE LUG FOR INSULATION COPPER CONDUCTOR	TINNED COPPER	$35mm^2$	2	~~NOTE 1~~
3	HEXAG. BOLT M10X30 COMPLETE WITH PLANE WASHERS, SPRING WASHER AND NUT	AISI 316L	M10X30	2	

GENERIC SUPPORT BOLTED ON STRUCTURE



DETAIL "X"



NOTES:
1) ~~CABLE LUG CRIMPING METHOD SHALL BE HEXAGONAL COMPRESSION DIES ONLY.~~
2) EXTERNAL EARTHING CONNECTION ONLY SHALL BE PROTECTED AGAINST CORROSION USING OXIDE RESISTANT COMPOUND (E.G. COPPER GREASE)

VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DD-20090**

REV.:	DATE:	SIGNATURE:
2_I	07/11/24	G.Randi

ROSETTI MARINO SpA

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	26/08/24	GRA	AMA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	10/06/24	SPS	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	21/11/23	SPS	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL TYPICAL INSTALLATION DETAILS–EARTHING SYSTEM
EARTHING FOR POLE/SUPPORT OF GENERIC EQUIPMENTS

CONTRACT NO./TITLE CW–I–WP4–2023–05/HOLLANDSE KUST NOORD WIND PARK | SCALE : NTS

A3	DRAWING NO.	SHEET	REV.
	123A90–DDL–EL–DD–20090	012	02

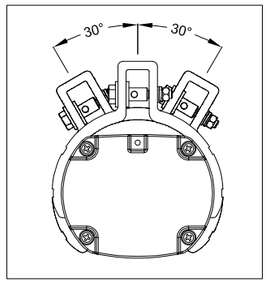
F.to UNI A3: 420mmx297mm

File Name : 123A90-DDL-EL-DD-20090 REV.02.DWG

MODEL C-225 REV.1

GENERAL NOTE:
- PO: 1724001290 DD 26/06/2024
- ITEM.: 1
- Q.TY: 57
- EXTERNAL PAINTING: RAL 7022 (END CAPS)
- INTERNAL PAINTING: NOT PAINTED
- ALL DIMENSIONS ARE IN mm

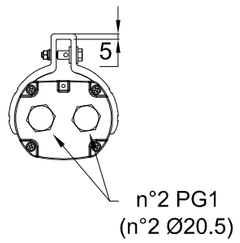
STANDARD FIXING BRACKET
FASTENING WITH 2 THREADED M8
HOLES, ADJUSTABLE FROM 0° TO ±30°



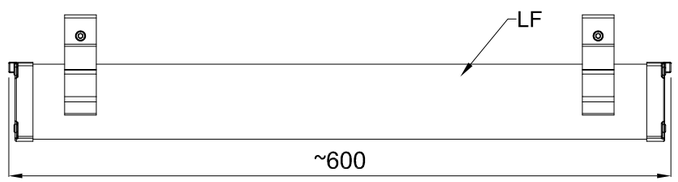
LF INFORMATION	
NOMINAL POWER	45W
CONSUMED POWER	43,5W
POWER FACTOR	>0,93
RATED CURRENT	200 mA
VIEWING ANGLE	120°
COLOUR TEMP.	5000 K
CRI	>80
INSTANT RESTRIKE	YES
LUMEN	6200 lm
LIGHT INTENSITY	2248 cd
EFFICIENCY	143 lm/W
WEIGHT	2,5 Kg
IP PROTECTION	IP66

N°	Q.TY	CODE	DESCRIPTION
LF	1	LIFEX-ME-0645-BB	110-277Vac 50-60Hz 45W LED LINEAR LIGHTING FIXTURE BODY: ALUMINUM ALLOY EXTRUSION AND ALUMINUM END CAPS TRANSPARENT PART: GLASS RESISTANT TO SHOCKS, UV RAYS AND IMPACT RESISTANCE IK09 GASKETS: ACID AND HYDROCARBON RESISTANT SILICONE ASSEMBLY: FASTENING BRACKETS FOR M8 HOLES, ADJUSTABLE 0° TO ±30° MADE IN ANODIZED ALUMINUM CONNECTION: TERMINAL BLOCK ON SIDE (IN) L, N, PE CROSS SEC. MAX. 4mmq SUITABLE FOR LOOP-IN LOOP-OUT SCREWS, BOLTS AND NUTS: STAINLESS STEEL 304
PG1	4	PLG1IB +DL1IB +RDI1IS/A4	IP66 Ex db IIC Gb - Ex eb IIC Gb NICKEL PLATED BRASS PLUG ISO M20x1,5 WITH RELEVANT LOCKNUT AND SERRATED WASHER MADE IN STAINLESS STEEL

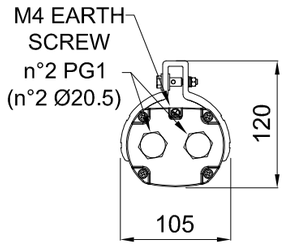
LEFT SIDE (OUT)



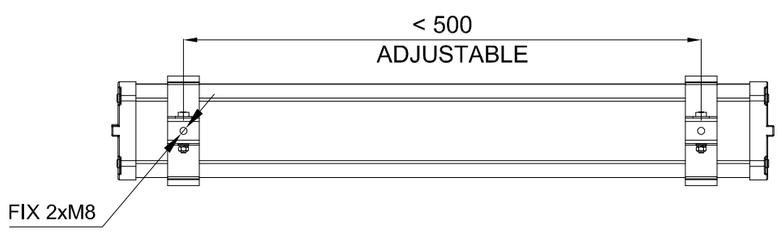
FRONT SIDE



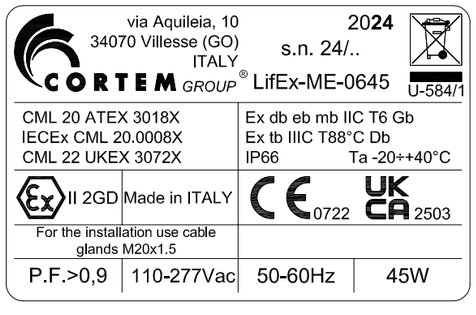
RIGHT SIDE (IN)



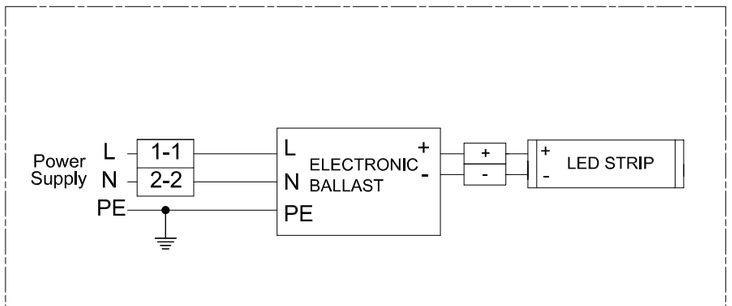
TOP SIDE



CERTIFICATE NAMEPLATE



WIRING DIAGRAM



REV.	DATE	PREP'D	CHK'D	APP'D	DESCRIPTION
2	09/07/2024	FRATTARUOLO	GIUSTI	GRATTON	REISSUED FOR APPROVAL
1	05/07/2024	FRATTARUOLO	GIUSTI	GRATTON	REISSUED FOR APPROVAL
0	28/06/2024	FRATTARUOLO	GIUSTI	GRATTON	ISSUED FOR APPROVAL

DRAWING TITLE: ROSETTI MARINO S.P.A.

CORTEM S.p.a.
GENERAL LAYOUT
001 LIFEX-ME-0645-BB/C2402693/10.

CORTEM JOB: COV2402693
DRAWING SCALE: /
DRAWING NUMBER: A3-C 27521
SHEET: 1
NEXT: 2
TOT.: 2

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AUTHORIZATION

Smart Professional R. 2012

Row	Data Sheet for Lighting Fixtures & Accessories				Rev.
1	42W LED Linear Luminaire-Normal Lighting-ATEX Area				
2	Item	Required	Manufacturer Proposal	Comments	
3	Model Number	by vendor	LIFEX-ME-0645-BB		01
4	Serial Number	by vendor			00
5	Quantity	28 Nos.		(25+3 Spare)	01
6	Location / Module	Upper deck			00
7	**LED Lamp**				
8	Nominal power	42 watts	45 watts		01
9	No. of linear	1	1		01
10	Luminous flux	5810 lm	6200 lm		01
11	Colour Temperature	5000 K	5000 K		01
12	**Protection**				
13	Hazardous Area Certification (Ex)	Zone 1 Gas Group IIC (or) IIB + H2, T1	Ex II 2GD Ex db eb mb IIC Gb Ex tb IIIC Db		01
14	Degree of Protection (IP)	IP 56	IP 66		01
15	ATEX certified	Classification EX db	ATEX CML 20 ATEX 3018X		01
16	**Material**				
17	Body	GRP/Aluminium alloy	Aluminium alloy		01
18	Reflector	GRP/Aluminium	Aluminium		01
19	Diffuser	Polycarbonate/temperate glass	Tempered glass		01
20	**Cable Entry**				
21	No. of cable entry	4 Nos.	4 Entries, 2 per side		01
22	Size	M20	Ø20.5mm		01
23	**Emergency Battery Pack**				
24	Requirement	Not required			00
25	Battery type	Not required			00
26	Autonomy	Not required			00
27	Emergency luminous flux	Not required			00
28	**Mechanical parameters**				
29	Dimension	by vendor	600x105x120(mm)		01
30	Weight	by vendor	2.5kg		01

Note:

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Tag Number	Tag Description	Location	P.O.	Vendor	Manufacturer	Serial Number	Model Type Catalogue Number	Installation Zone	ATEX Certificate Number	Reference Document	ATEX Certification Marking	Notes / Comments	Skid / Package	Electrical Equip.	Barrier Calculation Ref.	Special Conditions of Safe Use Applicable	3D Location
EJB-200N1-08-L1-07	Emergency Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990079	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-08-L1-08	Emergency Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990081	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-08-L1-09	Emergency Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990080	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-08-L1-10	Emergency Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990075	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-08-L1-11	Emergency Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990074	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-08-L1-12	Emergency Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990073	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-08-L1-14	Emergency Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990071	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-08-L1-15	Emergency Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990070	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-08-L1-16	Emergency Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990069	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-08-L1-17	Emergency Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990068	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-08-L1-18	Emergency Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990067	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-08-L1-19	Emergency Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990066	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-08-L1-20	Emergency Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990076	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-09-L2-01	Emergency Lighting JB	LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990016	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-09-L2-02	Emergency Lighting JB	LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990019	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-09-L2-04	Emergency Lighting JB	LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990017	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-09-L2-05	Emergency Lighting JB	LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990030	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-09-L2-06	Emergency Lighting JB	LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990029	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-09-L2-07	Emergency Lighting JB	LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990028	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-09-L2-08	Emergency Lighting JB	LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990027	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-09-L2-09	Emergency Lighting JB	LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990026	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-09-L2-10	Emergency Lighting JB	LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990025	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-09-L2-11	Emergency Lighting JB	LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990024	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-09-L2-12	Emergency Lighting JB	LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990023	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-09-L2-13	Emergency Lighting JB	LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990022	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-09-L2-14	Emergency Lighting JB	LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990021	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-09-L2-15	Emergency Lighting JB	LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990020	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-09-L2-16	Emergency Lighting JB	LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990031	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-09-L2-17	Emergency Lighting JB	BELOW LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990015	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-10-L3-01	Stair Emergency Lighting JB	LOWER & UPPER DECK STAIRS	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990040	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-10-L3-02	Stair Emergency Lighting JB	LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990039	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-10-L3-03	Stair Emergency Lighting JB	LOWER & UPPER DECK STAIRS	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990041	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-10-L3-04	Stair Emergency Lighting JB	LOWER & UPPER DECK STAIRS	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990042	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-10-L3-05	Stair Emergency Lighting JB	BELOW LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990034	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-10-L3-06	Stair Emergency Lighting JB	BELOW LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990035	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-10-L3-07	Stair Emergency Lighting JB	BELOW LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990036	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-10-L3-08	Stair Emergency Lighting JB	BELOW LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990037	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-10-L3-09	Stair Emergency Lighting JB	BELOW LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990038	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
ELF-200N1-02-L1-01	Normal Lighting Fixture	UPPER DECK	1724001290	Cortem Spa	Cortem Spa	24/86772	LIFEX-ME-0645-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	
ELF-200N1-02-L1-02	Normal Lighting Fixture	UPPER DECK	1724001290	Cortem Spa	Cortem Spa	24/86773	LIFEX-ME-1260N-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	
ELF-200N1-02-L1-03	Normal Lighting Fixture	UPPER DECK	1724001290	Cortem Spa	Cortem Spa	24/86772	LIFEX-ME-0645-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	
ELF-200N1-02-L1-04	Normal Lighting Fixture	UPPER DECK	1724001290	Cortem Spa	Cortem Spa	24/86772	LIFEX-ME-0645-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	
ELF-200N1-02-L1-05	Normal Lighting Fixture	UPPER DECK	1724001290	Cortem Spa	Cortem Spa	24/86772	LIFEX-ME-0645-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	HAZARDOUS-AREA_8
ELF-200N1-02-L1-06	Normal Lighting Fixture	UPPER DECK	1724001290	Cortem Spa	Cortem Spa	24/86772	LIFEX-ME-0645-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	
ELF-200N1-02-L1-07	Normal Lighting Fixture	UPPER DECK	1724001290	Cortem Spa	Cortem Spa	24/86772	LIFEX-ME-0645-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	HAZARDOUS-AREA_8 HAZARDOUS-AREA_3
ELF-200N1-02-L1-08	Normal Lighting Fixture	UPPER DECK	1724001290	Cortem Spa	Cortem Spa	24/86772	LIFEX-ME-0645-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	HAZARDOUS-AREA_8 HAZARDOUS-AREA_3
ELF-200N1-02-L1-09	Normal Lighting Fixture	UPPER DECK	1724001290	Cortem Spa	Cortem Spa	24/86772	LIFEX-ME-0645-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	HAZARDOUS-AREA_8 HAZARDOUS-AREA_1
ELF-200N1-02-L1-10	Normal Lighting Fixture	UPPER DECK	1724001290	Cortem Spa	Cortem Spa	24/86772	LIFEX-ME-0645-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	HAZARDOUS-AREA_8 HAZARDOUS-AREA_1
ELF-200N1-02-L1-11	Normal Lighting Fixture	UPPER DECK	1724001290	Cortem Spa	Cortem Spa	24/86772	LIFEX-ME-0645-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	HAZARDOUS-AREA_3 HAZARDOUS-AREA_2 HAZARDOUS-AREA_5 HAZARDOUS-AREA_6
ELF-200N1-02-L1-12	Normal Lighting Fixture	UPPER DECK	1724001290	Cortem Spa	Cortem Spa	24/86772	LIFEX-ME-0645-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	HAZARDOUS-AREA_1 HAZARDOUS-AREA_2 HAZARDOUS-AREA_5 HAZARDOUS-AREA_4
ELF-200N1-02-L1-13	Normal Lighting Fixture	UPPER DECK	1724001290	Cortem Spa	Cortem Spa	24/86772	LIFEX-ME-0645-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	HAZARDOUS-AREA_1 HAZARDOUS-AREA_2 HAZARDOUS-AREA_5 HAZARDOUS-AREA_4
ELF-200N1-02-L1-14	Normal Lighting Fixture	UPPER DECK	1724001290	Cortem Spa	Cortem Spa	24/86772	LIFEX-ME-0645-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	
ELF-200N1-02-L1-15	Normal Lighting Fixture	UPPER DECK	1724001290	Cortem Spa	Cortem Spa	24/86772	LIFEX-ME-0645-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	
ELF-200N1-02-L1-16	Normal Lighting Fixture	UPPER DECK	1724001290	Cortem Spa	Cortem Spa	24/86772	LIFEX-ME-0645-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	

EU Type Examination Certificate CML 20ATEX3018X Issue 1

1 Equipment intended for use in Potentially Explosive Atmospheres Directive 2014/34/EU

2 Equipment **LifEx-ME, LifEx-MN and LifEx-MT series of linear lighting fixtures**

3 Manufacturer **Cortem S.p.A.**

4 Address **Via Aquileia 10**
34070 Villesse
(GO)
Italy

5 The equipment is specified in the description of this certificate and the documents to which it refers.

6 CML B.V., Chamber of Commerce No 6738671, Koopvaardijweg 32, 4906CV Oosterhout, The Netherlands, Notified Body Number 2776, in accordance with Article 17 of Directive 2014/34/EU of the European Parliament and of the Council, dated 26 February 2014, certifies that this equipment has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of equipment intended for use in potentially explosive atmospheres given in Annex II to the Directive.

The examination and test results are recorded in the confidential reports listed in Section 12.

7 If an 'X' suffix appears after the certificate number, it indicates that the equipment is subject to conditions of safe use (affecting correct installation or safe use). These are specified in Section 14.

8 This EU Type Examination certificate relates only to the design and construction of the specified equipment or component. Further requirements of Directive 2014/34/EU Article 13 apply to the manufacture of the equipment or component and are separately certified.

9 Compliance with the Essential Health and Safety Requirements, with the exception of those listed in the confidential report, has been demonstrated through compliance with the following documents:

EN IEC 60079-0:2018	EN 60079-1:2014	EN IEC 60079-7:2015+A1:2018
EN 60079-18:2015+A1:2017	EN 60079-31:2014	

10 The equipment shall be marked with the following:

LifEx-ME	LifEx-MN and LifEx-MT
Ex db eb mb IIC T.. Gb	Ex tb IIIC T…°C Db
Ex eb mb IIC T.. Gb *(when Ex mb LED drivers are used)*	IP66
Ex tb IIIC T…°C Db	
IP66	
Ta=* see description	Ta=* see description

11 Description

The LifEx is a range of linear LED lighting fixtures that are available in three different configurations for different applications, designated as the LifEx-ME, LifEx-MT and LifEx-MN.

LifEx-ME

The LifEx-ME version has an Equipment Protection Level of EPL Gb and Db and utilises types of protection increased safety (eb) and dust protection by enclosure (tb), along with encapsulation (mb) for the light source and flameproof (db) for the driver.

It is constructed from an aluminium enclosure, with either a glass or polycarbonate lens and with optional polycarbonate diffuser.

LifEx-MN

The LifEx-MN version has an Equipment Protection Level of EPL Gc and Db and utilises types of protection increased safety (ec) and dust protection by enclosure (tb).

It is constructed from an aluminium enclosure, with polycarbonate diffuser and/or with optional glass or polycarbonate lens.

LifEx-MT

The LifEx-MT versions has an Equipment Protection Level of EPL Db and utilises types of protection dust protection by enclosure (tb).

It is constructed from an aluminium enclosure, with polycarbonate diffuser and/or with optional glass or polycarbonate lens.

Design Options

Every configuration is available in lengths ranging from 300 mm to 1500 mm, and power ratings up to a maximum of 105W of nominal power.

The LifEx can be used in only normal service, in only emergency service or in normal and emergency service.

The minimum ambient temperature for the range is:

- -60°C for versions without battery
- -60°C for versions with the battery heater
- -20°C for versions with battery

The range is available with the following maximum ambient temperatures:

	With glass lens and with/without polycarbonate diffuser	With Polycarbonate lens and with/without polycarbonate diffuser	Without lens polycarbonate diffuser only
LifEx-M...0310	+60°C	+60°C	+60°C
LifEx-M...0315	+60°C	+60°C	+60°C
LifEx-M...0330	+60°C	Configuration not available	Configuration not available
LifEx-M...0615	+60°C	+60°C	+60°C
LifEx-M...0630	+60°C	+50°C	+60°C
LifEx-M...0645	+57°C	+47°C	+60°C
LifEx-M...0660	+47°C	Configuration not available	+58°C
LifEx-M...1230	+60°C	+60°C	+60°C
LifEx-M...1260	+60°C	+50°C	+60°C
LifEx-M...1290	+60°C	+40°C	+60°C
LifEx-M...12120	+54°C	Configuration not available	+60°C
LifEx-M...1590	+60°C	+40°C	+60°C

Table 1: Maximum Ambient Temperatures

The following tables provide the Temperature Class (EPL Gb) and Maximum Surface Temperature (EPL Db) for each LifEx type, with the following notes:

- The LifEx-MN with an ambient temperature greater than 50°C is T5 or T4. T6 is not included.
- The Temperature Class (EPL Gb) and Maximum Surface Temperature (EPL Db) in the tables below are not applicable when the ambient temperature is not permitted in the above maximum ambient temperature range table.

13. (For example, the LifEx-M...0660 is not permitted with polycarbonate lens, therefore the Temperature Class (EPL Gb) and Maximum Surface Temperature (EPL Db) for this version in tables 2 and 3 are not applicable)

	Temperature Class (EPL Gb and Gc) and Maximum Surface Temperature (EPL Db) Based on ambient temperature													
	40°C		45°C		47°C		50°C		54°C		57°C		60°C	
	EPL Db	EPL Gb/Gc	EPL Db	EPL Gb/Gc	EPL Db	EPL Gb/Gc	EPL Db	EPL Gb/Gc	EPL Db	EPL Gb/Gc	EPL Db	EPL Gb/Gc	EPL Db	EPL Gb/Gc
LifEx-M...0310	T56°C	T6	T56°C	T6	T58°C	T6	T61°C	T6	T65°C	T6	T68°C	T6	T71°C	T6
LifEx-M...0315	T56°C	T6	T56°C	T6	T58°C	T6	T61°C	T6	T65°C	T6	T68°C	T6	T71°C	T6
LifEx-M...0615	T56°C	T6	T56°C	T6	T58°C	T6	T61°C	T6	T65°C	T6	T68°C	T6	T71°C	T6
LifEx-M...0630	T69°C	T6	T69°C	T5	T71°C	T5	T74°C	T5	T78°C	T5	T81°C	T4	T84°C	T4
LifEx-M...0645	T72°C	T5	T72°C	T5	T74°C	T5	T77°C	T5	T81°C	T4	T84°C	T4	T87°C	T4
LifEx-M...0660	T77°C	T5	T77°C	T4	T79°C	T4	T82°C	T4	T86°C	T4	T89°C	T4	T92°C	T4
LifEx-M...1230	T58°C	T6	T58°C	T6	T60°C	T6	T63°C	T6	T67°C	T6	T70°C	T6	T73°C	T6
LifEx-M...1260	T67°C	T6	T67°C	T5	T69°C	T5	T72°C	T5	T76°C	T5	T79°C	T4	T82°C	T4
LifEx-M...1290	T72°C	T5	T72°C	T5	T74°C	T4	T77°C	T4	T81°C	T4	T84°C	T4	T87°C	T4
LifEx-M...12120	T75°C	T5	T75°C	T4	T77°C	T4	T80°C	T4	T84°C	T4	T87°C	T4	T90°C	T4
LifEx-M...1590	T72°C	T5	T72°C	T5	T74°C	T4	T77°C	T4	T81°C	T4	T84°C	T4	T87°C	T4

Table 2: Temperature Class (EPL Gb) and Maximum Surface Temperature (EPL Db) for LifEx types with glass/polycarbonate lens and with polycarbonate diffuser

	Temperature Class (EPL Gb and Gc) and Maximum Surface Temperature (EPL Db) Based on ambient temperature					
	40°C		55°C		60°C	
	EPL Db	EPL Gc	EPL Db	EPL Gc	EPL Db	EPL Gc
LifEx-ME-0330	T58°C	T6	T73°C	T6	T78°C	T5
LifEx-MN-0330	T58°C	T6	T73°C	T5	T78°C	T4
LifEx-MT-0330	T58°C	-	T73°C	-	T78°C	-

Table 3: Temperature Class (EPL Gb and Gc) and Maximum Surface Temperature (EPL Db) for LifEx-M...-0330 types with glass/polycarbonate window and without polycarbonate diffuser

	Temperature Class (EPL Gb) and Maximum Surface Temperature (EPL Db) Based on ambient temperature													
	40°C		45°C		47°C		50°C		54°C		57°C		60°C	
	EPL Db	EPL Gb	EPL Db	EPL Gb	EPL Db	EPL Gb	EPL Db	EPL Gb	EPL Db	EPL Gb	EPL Db	EPL Gb	EPL Db	EPL Gb
LifEx-M...0310	T62°C	T6	T62°C	T6	T64°C	T6	T67°C	T6	T71°C	T6	T74°C	T6	T77°C	T6
LifEx-M...0315	T62°C	T6	T62°C	T6	T64°C	T6	T67°C	T6	T71°C	T6	T74°C	T6	T77°C	T6
LifEx-M...0615	T62°C	T6	T62°C	T6	T64°C	T6	T67°C	T6	T71°C	T6	T74°C	T6	T77°C	T6
LifEx-M...0630	T85°C	T6	T85°C	T5	T87°C	T5	T90°C	T5	T94°C	T5	T97°C	T4	T100°C	T4
LifEx-M...0645	T88°C	T6	T88°C	T5	T90°C	T5	T93°C	T5	T97°C	T4	T100°C	T4	T103°C	T4
LifEx-M...0660	T100°C	T6	T100°C	T4	T102°C	T4	T105°C	T4	T109°C	T4	T112°C	T4	T115°C	T4
LifEx-M...1230	T65°C	T6	T65°C	T6	T67°C	T6	T70°C	T6	T74°C	T6	T77°C	T6	T80°C	T6
LifEx-M...1260	T85°C	T6	T85°C	T5	T87°C	T5	T90°C	T5	T94°C	T5	T97°C	T4	T100°C	T4
LifEx-M...1290	T94°C	T6	T94°C	T5	T96°C	T4	T99°C	T4	T103°C	T4	T106°C	T4	T109°C	T4
LifEx-M...12120	T96°C	T5	T96°C	T4	T98°C	T4	T101°C	T4	T105°C	T4	T108°C	T4	T111°C	T4
LifEx-M...1590	T94°C	T6	T94°C	T5	T96°C	T4	T99°C	T4	T103°C	T4	T106°C	T4	T109°C	T4

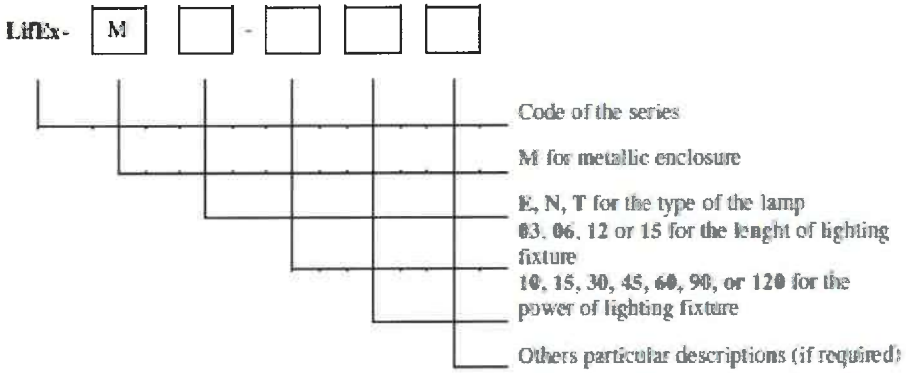
Table 4: Temperature Class (EPL Gb) and Maximum Surface Temperature (EPL Db) for LifEx types with glass/polycarbonate lens and without polycarbonate diffuser

	Maximum Surface Temperature (EPL Db) Based on ambient temperature						
	40°C	45°C	47°C	50°C	54°C	57°C	60°C
LifEx-M...0310	T56°C	T56°C	T58°C	T61°C	T65°C	T68°C	T71°C
LifEx-M...0315	T56°C	T56°C	T58°C	T61°C	T65°C	T68°C	T71°C
LifEx-M...0615	T56°C	T56°C	T58°C	T61°C	T65°C	T68°C	T71°C
LifEx-M...0630	T69°C	T69°C	T71°C	T74°C	T78°C	T81°C	T84°C
LifEx-M...0645	T72°C	T72°C	T74°C	T77°C	T81°C	T84°C	T87°C
LifEx-M...0660	T77°C	T77°C	T79°C	T82°C	T86°C	T89°C	T92°C
LifEx-M...1230	T58°C	T58°C	T60°C	T63°C	T67°C	T70°C	T73°C
LifEx-M...1260	T67°C	T67°C	T69°C	T72°C	T76°C	T79°C	T82°C
LifEx-M...1290	T72°C	T72°C	T74°C	T77°C	T81°C	T84°C	T87°C
LifEx-M...12120	T75°C	T75°C	T77°C	T80°C	T84°C	T87°C	T90°C
LifEx-M...1590	T72°C	T72°C	T74°C	T77°C	T81°C	T84°C	T87°C

Table 5: (Applicable to EPL Db only) Maximum Surface Temperature for LifEx types without glass/polycarbonate lens and with polycarbonate diffuser

The equipment has been separately tested against the requirements of IEC 60529 and it meets IP66. The gaskets on the caps provide the degree of protection.

The equipment uses the following nomenclature:



Variation 1:

This variation has assed the following changes:

i. Addition of an optional new removable cover for "easy installation" (which use the new aluminium extrusion);
ii. Addition of an optional external battery box;
iii. minimum ambient temperature extended to -60°C when Ex mb heater is used;
iv. Additional optional Ex mb EBM LED driver as an alternative to EBL3040 / EBL4040 Ex db series LED drivers;
v. added 30W model for size 300mm (LifEx-M..-0330).

12 Certificate history and evaluation reports

Issue	Date	Associated report	Notes
0	06 May 2020	R13027A/00	Prime Issue
1	01 Jul 2022	R14875A/00	Introduction of Variation 1

Note: Drawings that describe the equipment or component are listed in the Annex.

13 Conditions of Manufacture

The following conditions are required of the manufacturing process for compliance with the certification.

i. Where the product incorporates certified parts or safety critical components the manufacturer shall ensure that any changes to those parts or components do not affect the compliance of the certified product that is the subject of this certificate.
ii. The LifEx series lighting fixtures are to be designed in accordance with general electrical safety standards.
iii. The routine dielectric strength test on the LifEx-ME and LifEx-MN luminaries with applied voltage shall be performed at 2U + 1000V with a minimum value of 1560V (U = maximum rated voltage of the lamp)

iv. A routine visual inspection of the encapsulated parts is required, as per Clause 9.1 of IEC 60079-18. There shall be no visible damage or deformation to the encapsulant.

v. Where the removable battery pack is used with phoenix contacts, if used with a T6 version of the equipment, the maximum ambient shall be limited to +40°C.

14 Specific Conditions of Use (Special Conditions)

The following conditions relate to safe installation and/or use of the equipment.

i. Cable entries are provided which have less than 5 threads engaged. Care must be taken to ensure the correct gaskets and washers are sued with the cable gland to maintain IP66.

ii. The equipment uses an external part that is constructed from non-metallic materials, and as such care is to be taken to prevent an electro-static charging hazard. See instruction manual for details.

iii. For versions with glass window of 4mm thickness without cover, the luminaire must be installed in a location with a low risk of mechanical danger

iv. The temperature at the entry point may reach up to 75°C. Suitably rated cable glands must be used.

Certificate Annex

Certificate Number	**CML 20ATEX3018X**
Equipment	**LifEx-ME, LifEx-MN and LifEx-MT series of linear lighting fixtures**
Manufacturer	**Cortem S.p.A.**

The following documents describe the equipment or component defined in this certificate:

Issue 0

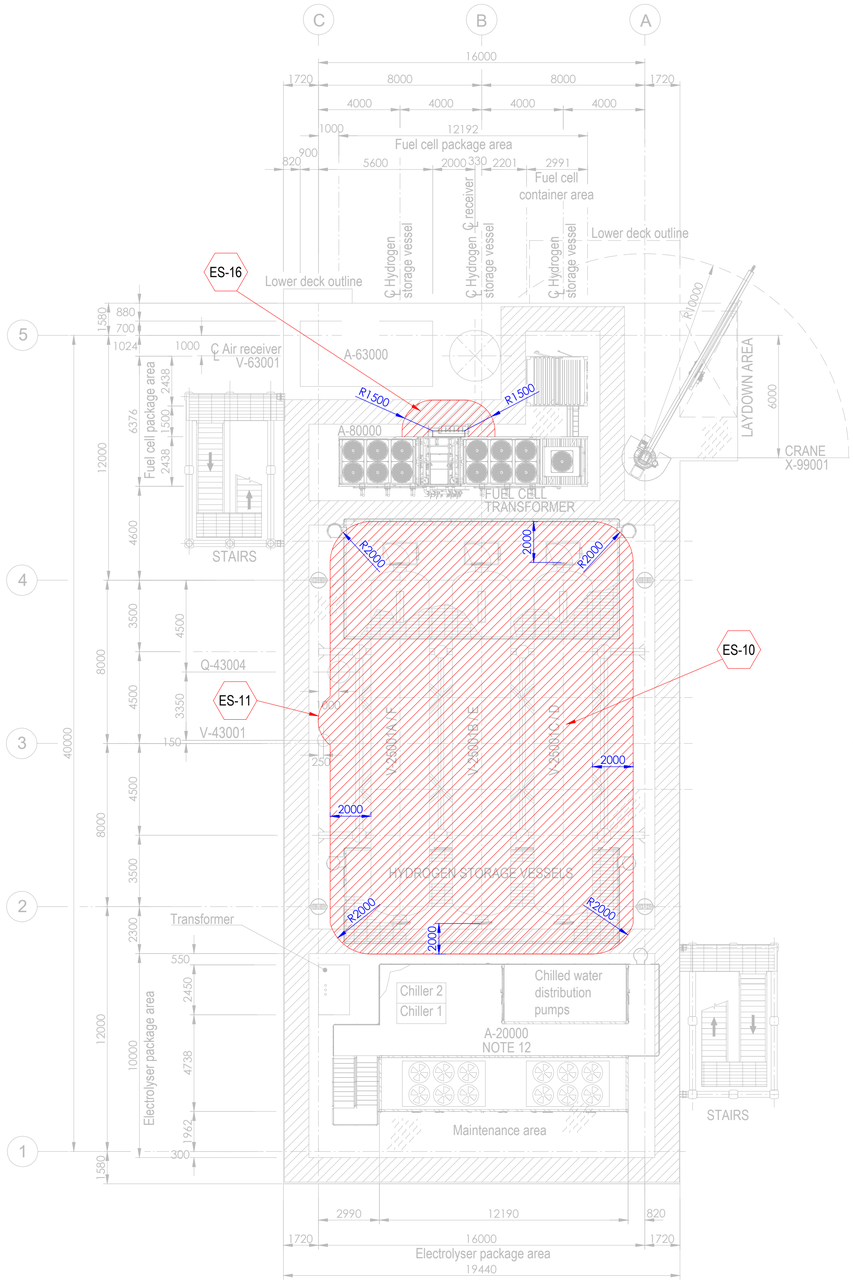
Drawing No	Sheets	Rev	Approved date	Title
A3-7466	1 to 6	0	06 May 2020	LifEx-M Luminaires
A4-7467	1 to 6	0	06 May 2020	Technical Note

Issue 1

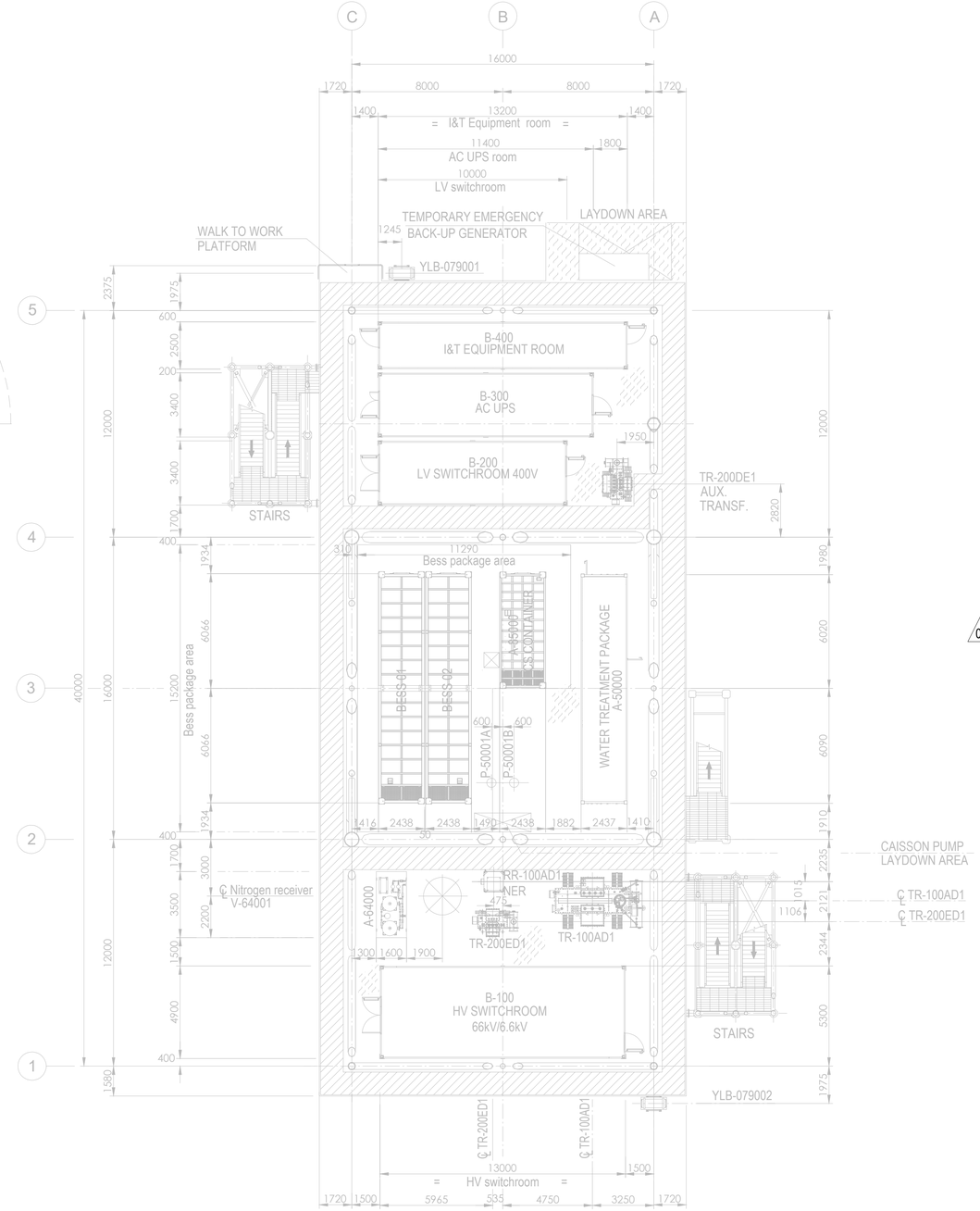
Drawing No.	Sheets	Rev	Approved date	Title
A3-7466	1 of 6	1	01 Jul 2022	LifEx-M Luminaires Assembly and External Dimensions
A3-7466	2 of 6	1	01 Jul 2022	LifEx-M Luminaires Detail of sealing and op is protection
A3-7466	3 of 6	1	01 Jul 2022	LifEx-M Luminaires Detail of driver and inverter for LifEx-ME version
A3-7466	4 of 6	1	01 Jul 2022	LifEx-M Luminaires Circuit diagram for LifeEx-ME version
A3-7466	5 of 6	1	01 Jul 2022	LifEx-M Luminaires Circuit diagram LifEx-MN and LifEx-MT version
A3-7466	6 of 6	1	01 Jul 2022	LifEx-M Luminaires Detail of battery pack
A3-7729	1 to 3	0	01 Jul 2022	Battery heater for -60°C /-40°C applications Assembly and External Dimensions
A4-7727	1 to 8	0	01 Jul 2022	Technical Note

DRAWING NO. 123A90-DDL-SAF-DL-30022

REV. 02



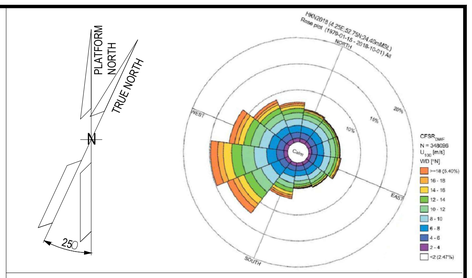
PLAN ON UPPER DECK
EL+30.310 T.O.S.



PLAN ON LOWER DECK
EL+23.310 T.O.S.

Tag No.	Equipment Tag	Description	Material	Ventilation Type
01	P-50001 A/B	SEA WATER LIFT PUMPS	SEA WATER	NATURAL (OPEN AREA)
02	Q-43004	HYDROGEN VENT	HYDROGEN	NATURAL (OPEN AREA)
03	V-43001	HYDROGEN VENT KO DRUM	HYDROGEN	NATURAL (OPEN AREA)
04	V-25001 (A/B/C/D/E/F)	HYDROGEN STORAGE VESSELS	HYDROGEN	NATURAL (OPEN AREA)
05	V-63001	AIR RECEIVER	INSTRUMENT AIR	NATURAL (OPEN AREA)
06	A-20000	ELECTROLYSER PACKAGE		
07	A-63000	INSTRUMENT AIR PACKAGE		
08	A-80000	FUEL CELL PACKAGE		
09	A-85000	BESS PACKAGE		
10	YLB-079001/2	LIFE RAFTS		
11	A-50000	WATER TREATMENT PACKAGE		

Tag No.	Equipment Tag	Description	Material	Ventilation Type
12	A-64000	NITROGEN SYSTEM		
13	B-100	HV SWITCHROOM 66kV/6.6kV		
14	B-200	LV SWITCHROOM 400V		
15	B-300	AC UPS EQUIPMENT ROOM		
16	B-400	I&T EQUIPMENT ROOM		
17	TR-100AD1	TRANSFORMER MAIN 66kV/6.6kV		
18	RR-100AD1-NER	NEUTRAL EARTHING RESISTOR		
19	TR-200DE1	TRANSFORMER AUX. 6.6kV/0.4kV		
20	TR-200ED1	SOLAR TRANSFORMER PV FARM EQUIPMENT		
21	X-99001	CRANE		
22	V-64001	NITROGEN RECEIVER		



NOTES

1. ALL DIMENSIONS IN mm U.N.O.
2. ALL ELEVATIONS IN METERS.
3. PLATFORM NORTH DIRECTION IS N 25°W.
4. VENT TOP SHALL BE REACHEABLE FOR MAINTENANCE PURPOSE.
5. THE BESS IS CONSIDERED SAFE AREA EXCEPT EXTRACTORES FROM BATTERIES , CURRENTLY NOT SHOWN IN DRAWINGS, SINCE INFORMATION FROM VENDOR IS NOT YET AVAILABLE.[ES17].
6. THE LOCATION OF EMISSION SOURCES ON THE LAYOUT ARE ONLY INDICATIVE. EMISSION SOURCES CONSIDERED ARE PRESENT WITHIN THE EXTENSION OF HAZARDOUS CLASSIFIED AREAS SHOWN ON THE LAYOUT. THIS IS BECAUSE VALVES AND FLANGES,WHICH ARE CONSIDERED POTENTIAL SOURCES OF RELEASE POINTS FOR FLAMMABLE GAS ARE NOT SHOWN ON CURRENT LAYOUT PROVIDED. THE SAME APPLIES TO THE EMISSION SOURCES FOR CPI'S ITEM.
7. IDENTIFIED EMISSION SOURCES DETAIL.

02
8. FOR DETAILS RELATED TO ELECTROLYSER PACKAGE INTERNAL ENCLOSURES REFER TO DRAWING 224J10-DDL-PP-DA-00001 REV 0.
9. FOR DETAILS RELATED TO FUELL CELL PACKAGE INTERNAL ENCLOSURES REFER TO DRAWING K559-2254-CWIWP4202202-B01-001 REV 009".
10. THE N.6 HYDROGEN STORAGE VESSELS ARE NOT CLASSIFIED INTERNALLY SINCE THEY ARE DESIGNED TO CONTAIN HYDROGEN OR NITROGEN FOR THE ENTIRE DURATION OF THE 2 YEARS OF OPERATION.

EMISSION SOURCE No.	IDENTIFIED AREAS
ES10	HYDROGEN STORAGE VESSLES
ES11	HYDROGEN VENT KO DRUM
ES16	FUEL CELL

LEGEND

ZONE 0 — ZONE 1

ZONE 2 — ES EMISSION SOURCES

123A90-DDL-PP-DS-70071	PLOT PLAN - BELOW LOWER DECK
123A90-DDL-PP-DS-70072	PLOT PLAN - ELEVATION LOOKING NORTH & EAST

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	15/01/25	MMA	CCA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	27/08/24	MMA	CCA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	08/02/24	MMA	CCA	DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND

ROSETTI MARINO

TITLE :
BASE LOAD POWER HUB (BLPH)
HAZARDOUS AREA CLASSIFICATION
LOWER & UPPER DECK

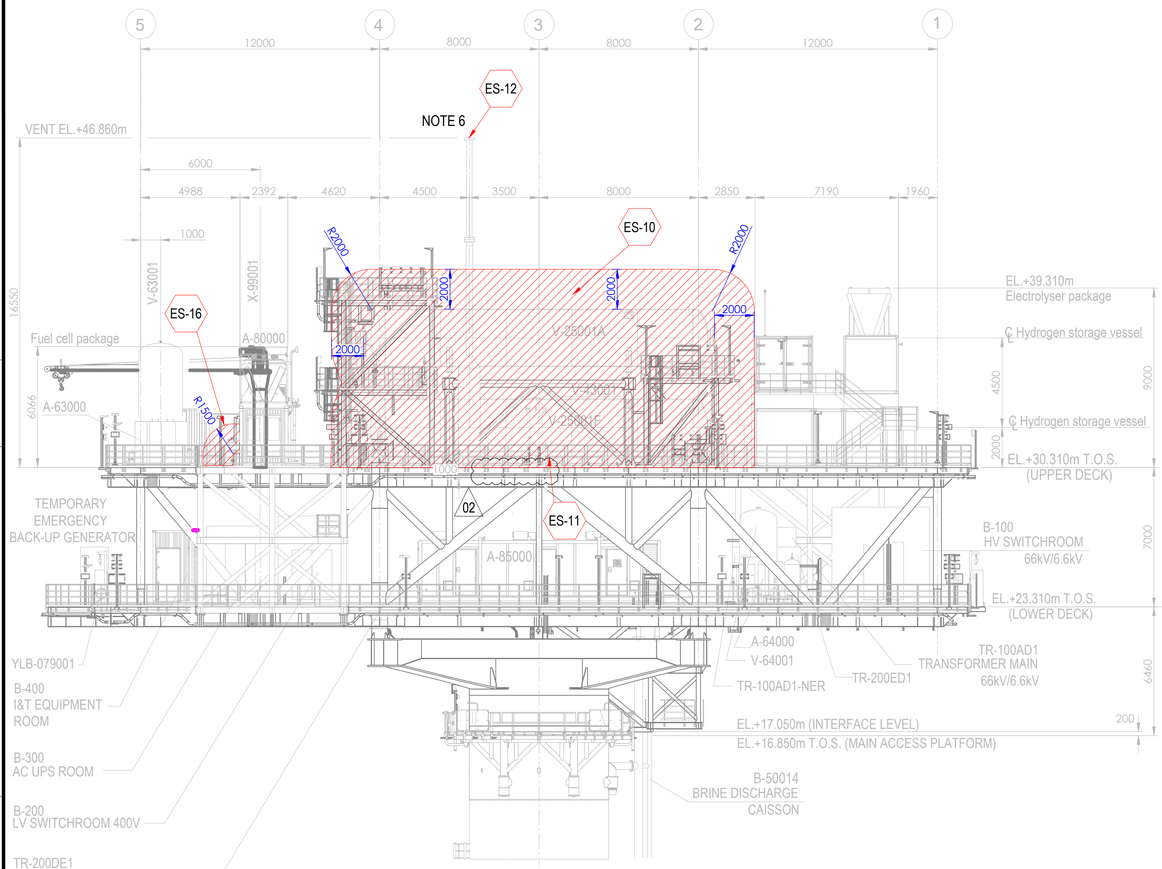
CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK			SCALE 1:150
DRAWN M. MAGNI	CHECKED C. CARACCIOLO	APPROVED D. LO STERZO	DATE 03/07/24

	DRAWING NO.	SHEET	REV.
A1	123A90-DDL-SAF-DL-30022	001	02

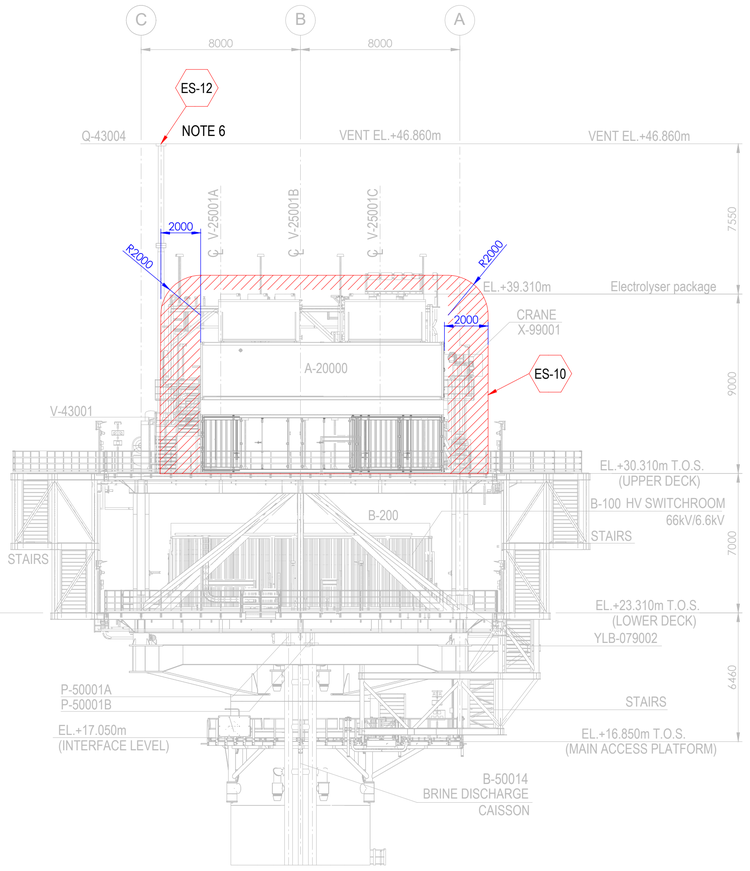
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DRAWING NO. 123A90-DDL-SAF-DL-30024

REV. 02

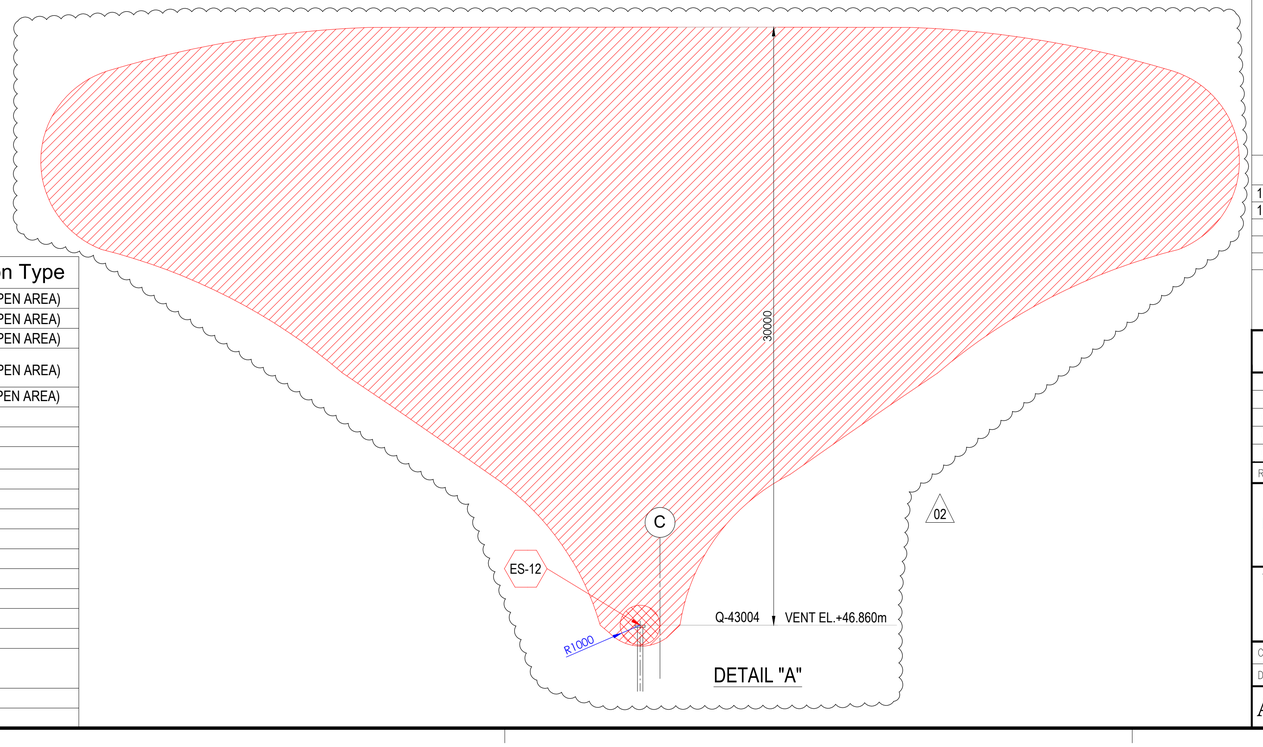


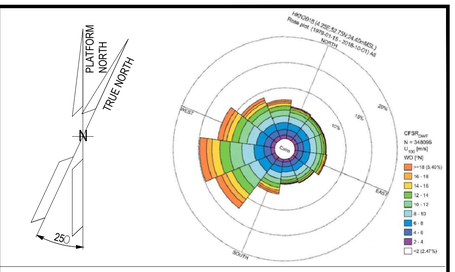
ELEVATION LOOKING EAST



ELEVATION LOOKING NORTH

Tag No.	Equipment Tag	Description	Material	Ventilation Type
01	P-50001 A/B	SEA WATER LIFT PUMPS	SEA WATER	NATURAL (OPEN AREA)
02	Q-43004	HYDROGEN VENT	HYDROGEN	NATURAL (OPEN AREA)
03	V-43001	HYDROGEN VENT KO DRUM	HYDROGEN	NATURAL (OPEN AREA)
04	V-25001 (A/B/C/D/E/F)	HYDROGEN STORAGE VESSELS	HYDROGEN	NATURAL (OPEN AREA)
05	V-63001	INSTRUMENT AIR RECEIVER	INSTRUMENT AIR	NATURAL (OPEN AREA)
06	A-20000	ELECTROLYSER PACKAGE		
07	A-63000	INSTRUMENT AIR PACKAGE		
08	A-80000	FUEL CELL PACKAGE		
09	A-85000	BESS PACKAGE		
10	YLB-079001/2	LIFE RAFTS		
11	B-100	HV SWITCHROOM 66kV/6.6kV		
12	B-200	LV SWITCHROOM 400V		
13	B-300	AC UPS EQUIPMENT ROOM		
14	B-400	I&T EQUIPMENT ROOM		
15	TR-100AD1	TRANSFORMER MAIN 66kV/6.6kV		
16	TR-100AD1-NER	NEUTRAL EARTHING RESISTOR		
17	TR-200DE1	TRANSFORMER AUX. 6.6kV/0.4kV		
18	TR-200ED1	SOLAR TRANSFORMER PV FARM EQUIPMENT		
19	X-99001	CRANE		
20	V-64001	NITROGEN RECEIVER		





NOTES

1. ALL DIMENSIONS IN mm U.N.O
2. ALL ELEVATIONS IN METERS.
3. PLATFORM NORTH DIRECTION IS N 25°W.
4. VENT TOP SHALL BE REACHEABLE FOR MAINTENANCE PURPOSE.
5. THE BESS IS CONSIDERED SAFE AREA EXCEPT EXTRACTORES FROM BATTERIES , CURRENTLY NOT SHOWN IN DRAWINGS, SINCE INFORMATION FROM VENDOR IS NOT YET AVAILABLE.[ES17]
6. FOR ES12 PLUME, PLEASE REFER TO THE DETAIL "A" BELOW. (02)
7. THE LOCATION OF EMISSION SOURCES ON THE LAYOUT ARE ONLY INDICATIVE. EMISSION SOURCES CONSIDERED ARE PRESENT WITHIN THE EXTENSION OF HAZARDOUS CLASSIFIED AREAS SHOWN ON THE LAYOUT. THIS IS BECAUSE VALVES AND FLANGES,WHICH ARE CONSIDERED POTENTIAL SOURCES OF RELEASE POINTS FOR FLAMMABLE GAS ARE NOT SHOWN ON CURRENT LAYOUT PROVIDED. THE SAME APPLIES TO THE EMISSION SOURCES FOR CPI'S ITEM.
8. IDENTIFIED EMISSION SOURCES DETAIL

EMISSION SOURCE No.	IDENTIFIED AREAS
ES10	HYDROGEN STORAGE VESSLES
ES11	HYDROGEN VENT KO DRUM
ES12	HYDROGEN VENT
ES16	FUEL CELL

LEGEND

ZONE 0 — ZONE 1

ZONE 2 — ES EMISSION SOURCES

REFERENCE DOCUMENTS

123A90-DDL-PP-DS-70070	PLOT PLAN - LOWER & UPPER DECK
123A90-DDL-PP-DS-70071	PLOT PLAN - BELOW LOWER DECK

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	15/01/24	MMA	CCA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	27/08/24	MMA	CCA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	08/02/24	MMA	CCA	DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND

ROSETTI MARINO

TITLE :
BASE LOAD POWER HUB (BLPH)
HAZARDOUS AREA CLASSIFICATION
ELEVATION LOOKING NORTH & EAST

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK			SCALE 1:150
DRAWN M. MAGNI	CHECKED C. CARACCIOLO	APPROVED D. LO STERZO	DATE 03/07/24

A1 | DRAWING NO. 123A90-DDL-SAF-DL-30024 | SHEET 001 | REV. 02

File Name : 123A90-DDL-SAF-DL-30024 Rev.02

ITEM	Tag	ELF-200N1-02-L1-08 : NORMAL LIGHT		Dwg	123A90-DDL-EL-DL-20118
	S/Sys	83-40 : Normal Lighting Upper Deck		Module	UD
TASK	code	C10001662	Location: Onshore Activities	User	Rosetti Marino Quality Control
FORM	Process	MC	Activity: CCK / Discipline: ATEX / Form: CJX01		Hazardous Area Equipment Detailed Inspection

Schedule Ref. #				**Area Code**					
Area Class Drawing	123A90-DDL-SAF-DL-30022			**Serial No.**	24/86772				
Manufacturer	Cortem Spa			**Model**	LIFEX-ME-1260N-BB				
Cert No.	CML 20 ATEX 3018X			**Equipment Ambient Temp.**	-60°C to +60°C				
Area Classification	hazardous	**Zone**	2	**Gas group**	IIC	**Temp class**	T1		
Equipment Protection Type	Ex db	**EPL**	Gb	**Gas group**	IIC	**Temp class**	T4	**IP Rating**	IP66

Detailed Note:

1) Inspection shall only be performed by competent personnel

2) All fields are to be completed. Any non-applicable field shall state “NA”. Comments are required for ‘Failure’ column ONLY.

3) An Inspection Sheet should be completed for EACH individual item of Equipment.

	General Equipment	Detailed	OK/NA/PL	Comments
1	Equipment is appropriate to the EPL / Zone requirements of the area	x	OK	
2	Equipment group is correct	x	OK	
3	Equipment temperature class is correct	x	OK	
4	Degree of IP protection of equipment is appropriate for the level of protection	x	OK	
5	Equipment circuit identification is correct	x	PL	
6	Equipment circuit identification is available	x	NA	
7	Enclosure glass parts and glass-to-metal sealing gaskets and / or compounds are satisfactory	x	OK	
8	There is no damage or unauthorized modifications	x	OK	
9	There is no evidence of unauthorized modifications	x	OK	
10	Bolts, cable entry devices (direct and indirect) & blanking elements are of the correct type, are complete & tight		NA	
	Physical check	x	PL	
11	Threaded covers on enclosures are of the correct type, are tight and secured		NA	
	Physical check	x	NA	
12	Joint surfaces are clean and undamaged and gaskets, if any, are satisfactory and positioned correctly	x	OK	
13	Condition of enclosure gaskets is satisfactory	x	OK	
14	There is no evidence or ingress of water or dust in the enclosure in accordance with the IP rating	x	OK	
15	Electrical connections are tight	x	OK	
16	Bridging links do not reduce creepage / clearance and are allowed	x	OK	
17	Unused terminals are tightened	x	OK	
18	Encapsulated components are undamaged	x	NA	
19	Flameproof components are undamaged	x	NA	
20	Fluorescent lamps are not indicating EOL effects (only for Ex “e” – Ex “n” – Ex “t”)	x	NA	
21	HID lamps are not indicating EOL effects	x	NA	
22	Lamp type, rating, pin configuration and position are correct	x	NA	
23	Breathing and drainage devices are satisfactory	x	OK	
24	Type of cable is appropriate	x	OK	
25	There is no obvious damage to the cables	x	OK	
26	Cable glands are the correct type and installed correctly	x	OK	
27	Sealing of trunking, ducts, pipes and or conduits is satisfactory	x	NA	
28	Stopping boxes and cable boxes are corrected filled	x	OK	

ITEM	Tag	ELF-200N1-02-L1-08	: NORMAL LIGHT			Dwg	123A90-DDL-EL-DL-20118
	S/Sys	83-40	: Normal Lighting Upper Deck			Module	UD
TASK	code	C10001662		Location	Onshore Activities	User	Rosetti Marino Quality Control
FORM	Process	MC	Activity CCK	Discipline	ATEX	Form	CJX01 Hazardous Area Equipment Detailed Inspection

29	Integrity of conduit system and interface with mixed system maintained	x	NA	
30	Earthing connections, including any supplementary earthing bonding connections are satisfactory (for example connections are tight and conductors are of sufficient cross-section		NA	
	Physical check	x	PL	
31	Automated electric protective devices operate within permitted limits	x	NA	
32	Special conditions (if applicable) have been complied with.	x	OK	
33	All cable cores are uniquely labeled	x	OK	
34	Cable cores not in use are correctly terminated	x	NA	
35	Equipment is adequately protected against corrosion, weather, vibration and other adverse factors	x	PL	
36	No undue accumulation of dust and dirt	x	OK	
37	All equipment housings are clean and dry	x	OK	
38	All moving parts are free and have no mechanical damage	x	NA	
	Applicable for Installation of Heating Systems			
39	Temperature sensors function according to manufacturer's documents (only applicable for Ex-d e Ex-e)	x	NA	
40	Safety cut off devices function according to manufacturer's documents (only applicable for Ex-d e Ex-e)	x	NA	
41	The setting of the safety cut off is sealed (only applicable for Ex-d e Ex-e)	x	NA	
42	Reset of a heating system safety cut off possible with tool only(only applicable for Ex-d e Ex-e)	x	NA	
43	Auto-reset is not possible (only applicable for Ex-d e Ex-e)	x	NA	
44	Reset of a safety cut off under fault conditions is prevented (only applicable for Ex-d e Ex-e)	x	NA	
45	Safety cut off independent from control system (only applicable for Ex-d e Ex-e)	x	NA	
46	Level switch is installed and correctly set, if required (only applicable for Ex-d e Ex-e)	x	NA	
47	Flow switch is installed and correctly set, if required (only applicable for Ex-d e Ex-e)	x	NA	
	Extra Ex d checks			
48	Obstructions adjacent to flame proof flanged joints are in accordance with IEC 60079-14	x	NA	
49	Ex d conduits seals are fitted to all conduits and satisfactorily sealed	x	NA	
50	Cable glands are of the correct type and installed correctly	x	OK	
51	Adaptors, reducers, stop ends, etc. are all certified Ex d	x	OK	
52	Flame path are clean and undamaged	x	OK	
53	Flange gap dimensions are within tolerances	x	NA	
54	Motor fans have sufficient clearance to the enclosure and/or covers, cooling systems are undamaged, motor foundations have no indentations or cracks	x	NA	
55	The ventilation airflow is not impeded	x	NA	
56	Insulation resistance (IR) of the motor windings is satisfactory	x	NA	
57	Fault loop impedance (TN systems) or earthing resistance (IT systems) is satisfactory	x	NA	
58	Variable voltage/frequency installation complies with documentation	x	NA	
	Extra Ex e checks			
59	All Equipment is Ex e certified (including components within enclosure)	x	NA	
60	Power conductors are not bunched together causing possible hot spots	x	NA	
61	Motor fans have sufficient clearance to the enclosure and/or covers, cooling systems are undamaged, motor foundations have no indentations or cracks	x	NA	
62	Insulation resistance (IR) of the motor windings is satisfactory	x	NA	
63	Fault loop impedance (TN systems) or earthing resistance (IT systems) is satisfactory	x	NA	
64	The ventilation airflow is not impeded	x	NA	
65	Motor protection devices operate within the permitted tE or tA time limits.	x	NA	
66	Variable voltage/frequency installation complies with documentation	x	NA	

ROSETTI MARINO PROVERLIS CROSSWIND

ITEM	Tag	ELF-200N1-02-L1-08	: NORMAL LIGHT			Dwg	123A90-DDL-EL-DL-20118
	S/Sys	83-40	: Normal Lighting Upper Deck			Module	UD
TASK	code	C10001662		Location	Onshore Activities	User	Rosetti Marino Quality Control
FORM	Process	MC	Activity CCK	Discipline	ATEX	Form	CJX01
							Hazardous Area Equipment Detailed Inspection

	Extra Ex n (nR, nL) checks				
67	All Terminals are Ex n certified (if required on certificate)	x	NA		
68	Hermetically sealed and enclosed break devices are undamaged	x	NA		
69	Restricted breathing properties satisfactory (conduct vacuum test)	x	NA		
70	Test port, if fitted, is functional (type "nR" only)	x	NA		
71	Breathing operation is satisfactory (type "nR" only)	x	NA		
72	Motor fans have sufficient clearance to the enclosure and/or covers, cooling systems are	x	NA		
73	The ventilation airflow is not impeded	x	NA		
74	Insulation resistance (IR) of the motor windings is satisfactory	x	NA		
75	Motor protection devices operate within the permitted tE or tA time limits.	x	NA		
76	Variable voltage/frequency installation complies with documentation	x	NA		
	Extra Ex p checks				
77	Pressurization gas is correct type	x	NA		
78	Actual pressure is within maximum and minimum settings for equipment	x	NA		
79	Timers set as per certification documentation	x	NA		
80	Alarms and trip functions operate correctly as per certification documentation	x	NA		
81	Fault loop impedance (TN systems) or earthing resistance (IT systems) is satisfactory	x	NA		
82	Automatic electrical protective devices operate within permitted limits	x	NA		
83	Automatic electrical protective devices are set correctly	x	NA		
84	Protective gas inlet temperature is below maximum specified	x	NA		
85	Ducts, pipes and enclosures are in good condition	x	NA		
86	Protective gas is substantially free from contaminants	x	NA		
87	Protective gas pressure and/or flow is adequate	x	NA		
88	Pressure and/or flow indicators, alarms and interlocks function correctly	x	NA		
89	Conditions of spark and particle barriers of ducts for exhausting the gas in hazardous area are satisfactory	x	NA		
90	Specific conditions of use (if applicable) are complied with		NA		
	Extra Ex i (Intrinsically Safe – IS) checks				
91	Equipment has adequate circuit identification for 'IS' Installation	x	NA		
92	Cables are installed in accordance with the documentation	x	NA		
93	Segregation is maintained between IS and non-IS Circuits	x	NA		
94	Cable screens are isolated at one end (field side)	x	NA		
95	Cable screens are earthed in accordance with the documentation	x	NA		
96	Safety barrier units, relays and other energy limiting devices are of the approved type, installed in	x	NA		
97	Equipment installed is the one specified in the documentation	x	NA		
98	Ambient temperature range of the apparatus is correct for the installation	x	NA		
99	Service temperature range of the apparatus is correct for the installation	x	NA		
100	Installation is clearly labelled	x	NA		
101	Printed circuit boards are clean and undamaged	x	NA		
102	The maximum voltage Um of the associated apparatus is not exceeded	x	NA		
103	Point-to-point connections are all correct	x	NA		
104	Earth continuity is satisfactory (e.g. connections are tight, conductors are of sufficient cross-section)	x	NA		
105	Earth connections maintain the integrity of the type of protection	x	NA		
106	Intrinsically safe circuit earthing is satisfactory	x	NA		
107	Insulation resistance is satisfactory	x	NA		
108	Short-circuit protection of the power supply is in accordance with the documentation	x	NA		

	BARRIER:	**Manufacturer:**	NA	**Model:**	NA		
		Authority:	NA	**Cert No:**	NA	**Type:**	NA

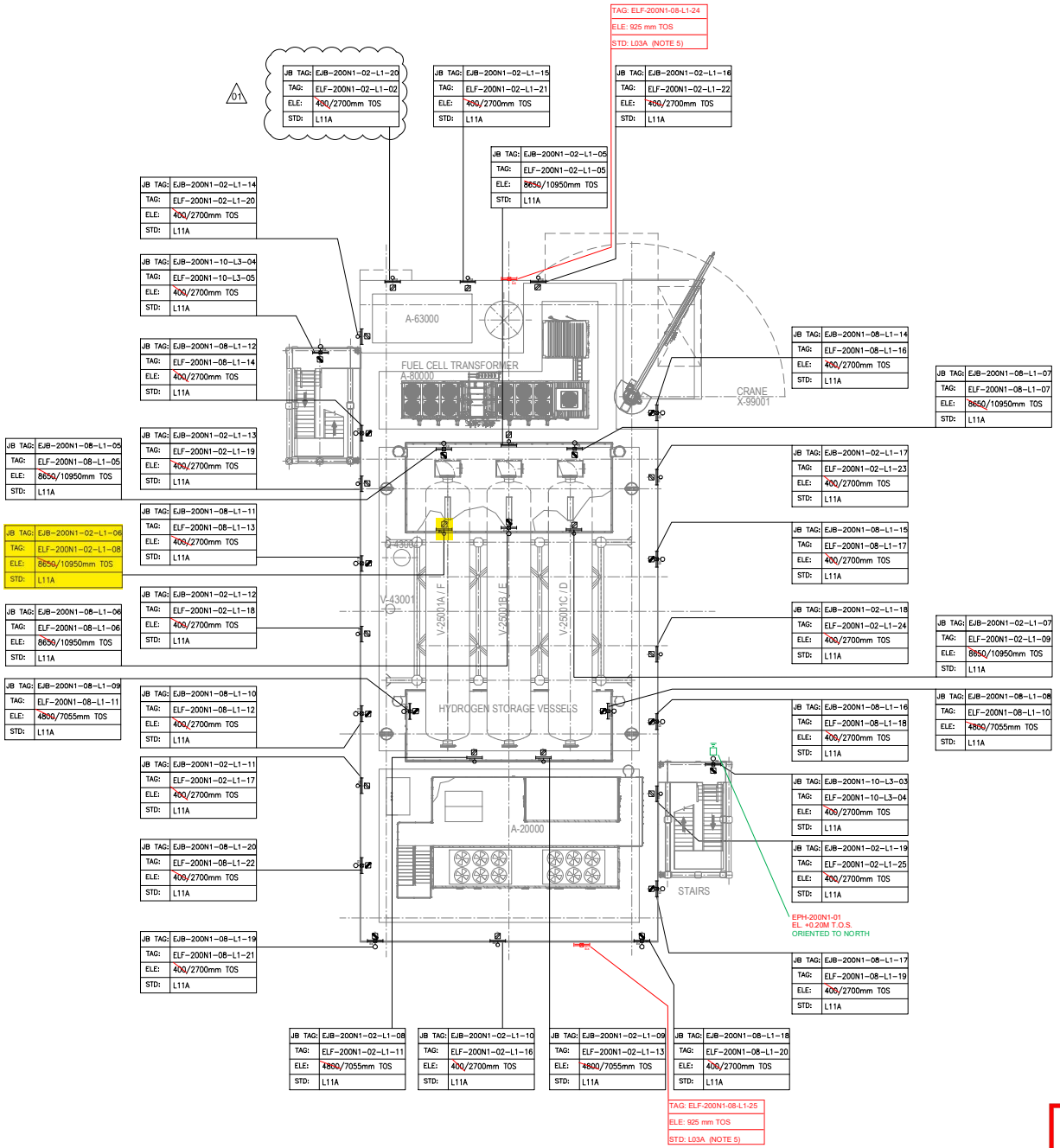
Remarks: Initial inspection should be detailed and carried out before equipment is brought into service as per IEC 60079-17

Please mark only one box as appropriate	
●	**Passed - Complete**
	Failed

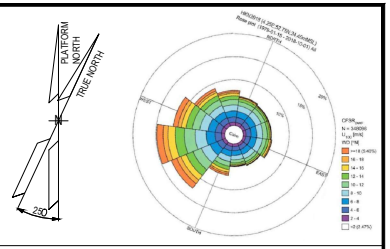
Page 3/3	Performed by	☐ WITNESS ☐ REVIEW	☐ WITNESS ☐ REVIEW
Company	ICS IMPIANTI	RM(ROSETTI MARINO)	
Name	Michele Tartaglia	Andrea Andreani	
Date	2025-01-14	2025-01-16	
Signature	PROVERLIS Digitaly signed by Michele Tartaglia 2025-01-14T08:51:30.053Z	PROVERLIS Digitaly signed by Andrea Andreani 2025-01-16T08:05:06.481Z	

DRAWING NO. 123A90-DDL-EL-DL-20118

REV. 01



PLAN ON UPPER DECK
EL+30.310 T.O.S.



NOTES

1. ALL DIMENSIONS AND ELEVATIONS ARE GIVEN IN mm UNLESS OTHERWISE NOTED.
2. ELEVATIONS REFER TO T.O.S.
3. ELEVATION OF THE LAMPS ARE REFFERED TO THE BOTTOM OF THE LAMP.
4. FOR THE ELEVATION OF JB, REFER TO THE TYPICAL INSTALLATION.
5. FOR ELF-200N1-08-L1-24 AND ELF-200N1-08-L1-25 CONSTRUCTION DETAILS REFER TO DOC. 123A90-DDL-ST-DD-90076

LEGEND

- EMERGENCY LIGHTING JB
- 60W LED EMERGENCY LUMINARIES
- 60W LED EMERGENCY LUMINARIES FIXTURE POLE MOUNTED
- NORMAL LIGHTING JB
- 45W LED NORMAL LUMINARIES
- 45W LED NORMAL LUMINARIES FIXTURE POLE MOUNTED
- WELDING SOCKET WITH INTEGRATED JB
- SMALL POWER SOCKET WITH INTEGRATED JB
- TWILIGHT RELAY SENSOR

JB TAG: — JB-TAG
TAG: — TAG
ELE: — ELEVATION
STD: — STANDARD

REFERENCE DOCUMENTS

123A90-DDL-PP-DL-70070	PLOT PLAN - LOWER & UPPER DECK
123A90-DDL-EL-DL-20100	ELECTRICAL EQUIPMENT LAYOUT - TOP DECK
123A90-DDL-EL-DD-20091	ELECTRICAL TYPICAL INSTALLATION DETAILS - LIGHTING SYSTEM
123A90-DDL-EL-DD-20092	ELECTRICAL TYPICAL INSTALLATION DETAILS - POWER SYSTEM & CABLE INSTALLATION
123A90-DDL-EL-RE-20153	LIGHTING CALCULATION STUDY REPORT
123A90-DDL-ST-DD-90076	IDENTIFICATION PANELS ASSEMBLY AND DETAILS

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	02/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	28/05/24	ASR	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DL-20118**

REV.:	DATE:	SIGNATURE:
1_F	26/11/24	G.Randi

ROSETTI MARINO SpA

CROSSWIND

ROSETTI MARINO

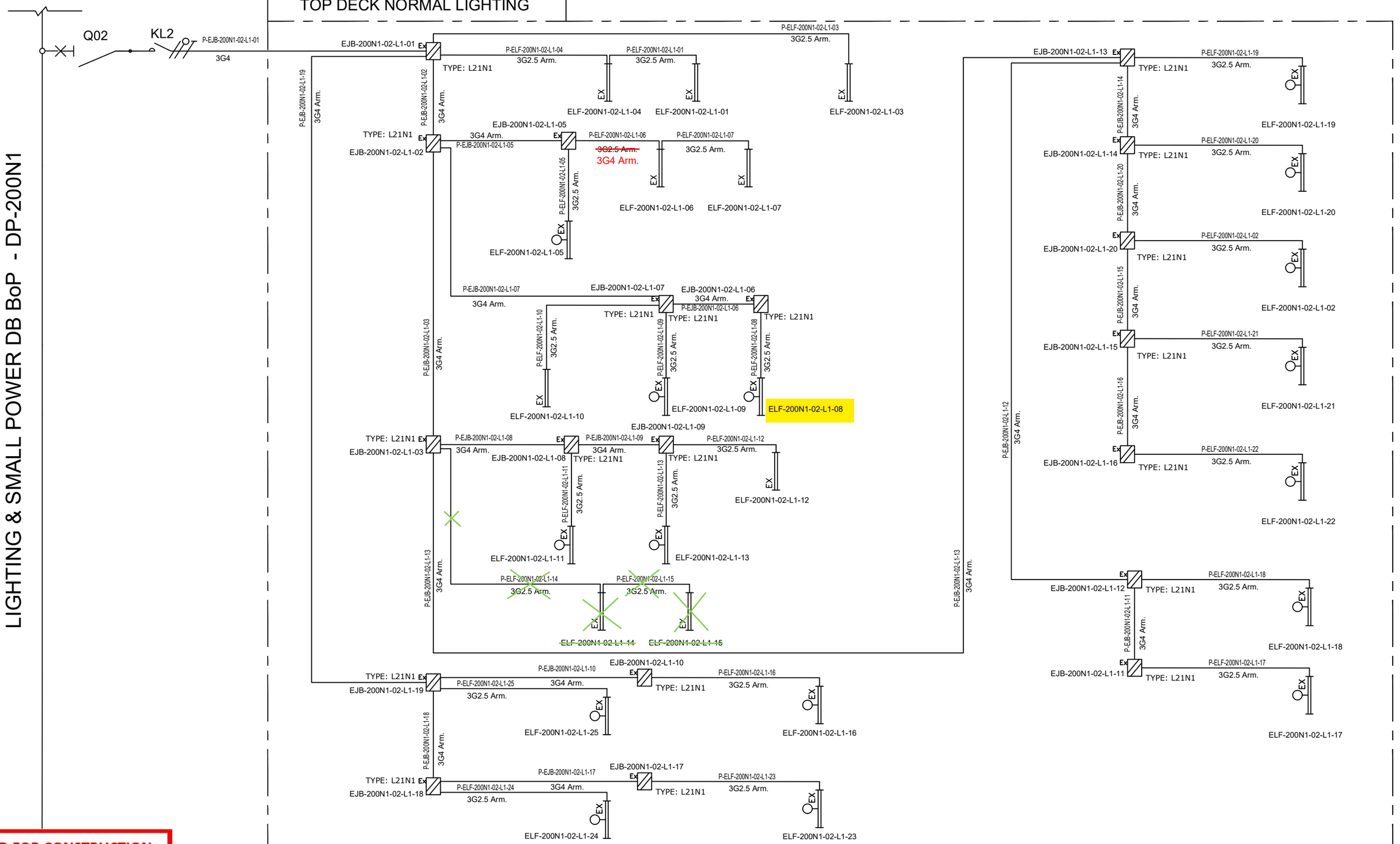
TITLE : BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET LAYOUT – TOP DECK

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK			SCALE 1:150
DRAWN ASR	CHECKED FMA/AMA	APPROVED FPA/DLO	DATE 01/08/24
A1	DRAWING NO. 123A90-DDL-EL-DL-20118	SHEET 1of2	REV. 01

File Name : 123A90-DDL-EL-DL-20118

LIGHTING & SMALL POWER DB BoP - DP-200N1

TOP DECK NORMAL LIGHTING



VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DG-20152**

REV.:	DATE:	SIGNATURE:
2_F	14/01/25	G.Randi

ROSETTI MARINO SpA

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	08/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	01/07/24	ASR	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

TITLE : BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET CIRCUIT DIAGRAM
TOP DECK–NORMAL LIGHTING

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK | SCALE : NTS

A3 | DRAWING NO. 123A90–DDL–EL–DG–20125 | SHEET 010 | REV. 01

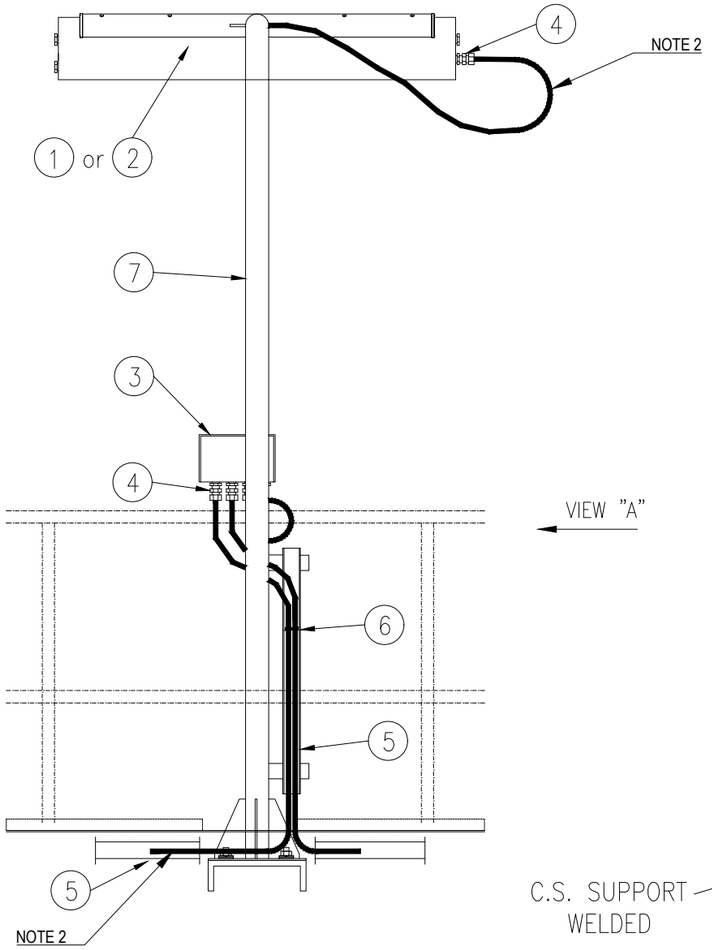
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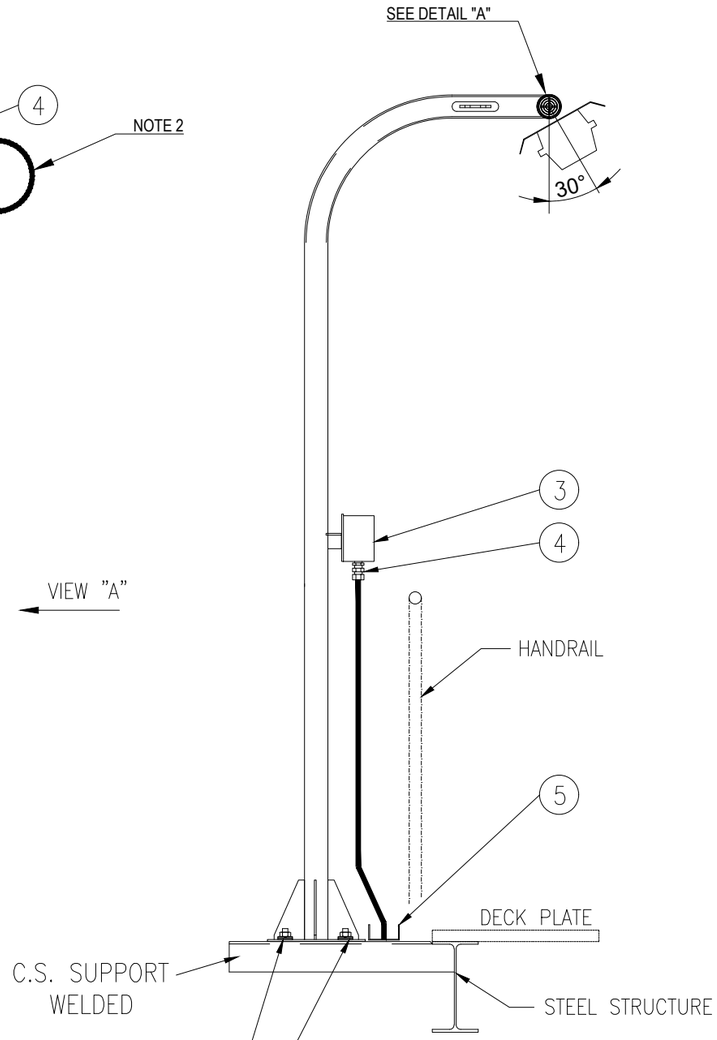
CROSSWIND

ROSETTI MARINO

L11A

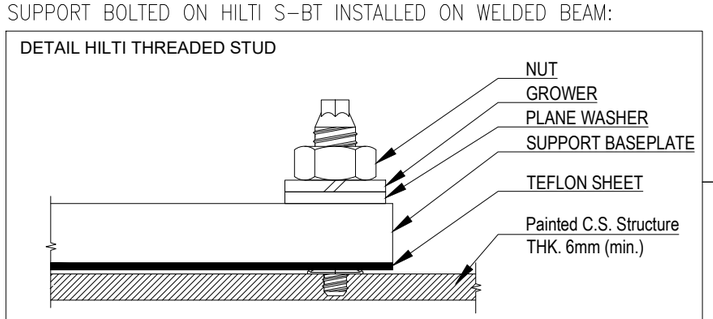


VIEW "A"

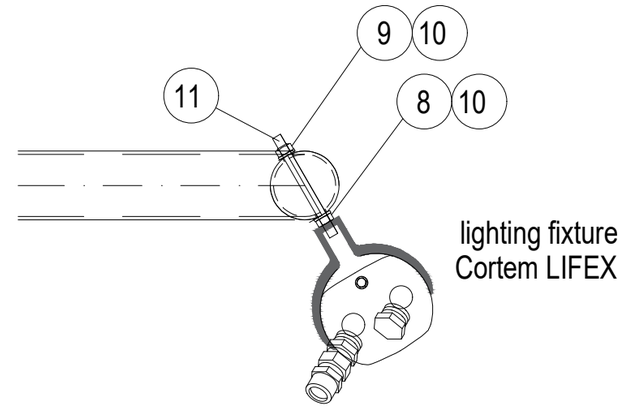


VIEW "A"

SUPPORT BOLTED ON HILTI S-BT INSTALLED ON WELDED BEAM:



POS.	DESCRIPTION	MATERIAL	SIZE	Q.TY	NOTE
1	42W LED LUMINARIES	ALUMINIUM ALLOY		1	
2	45W LED LUMINARIES C/W BATTERY	ALUMINIUM ALLOY		1	
3	JUNCTION BOX (Ex)	GRP		1	NOTE 1
4	CABLE GLAND C/W EARTH TAG, WASHERS, LOCKNUT AND WEATHERPROOF WASHERS	BRASS NICKEL PLATED		AS REQ.	
5	CABLE TRAY	AISI 316L			
6	STAINLESS STEEL NYLON COATED CABLE TIE	SS NYLON COATED			
7	POLE SUPPORT FOR LAMP	AISI 316L	2"		
8	NUT	AISI 316L	M8		
9	SELF.LOCKING NUT	AISI 316L	M8		
10	LARGE PLANE WASHER (24mm DIAM.)	AISI 316L	M8		
11	THREADED ROD M8x100	AISI 316L	M8		



DETAIL "A"

NOTES:

1) FOR LAMPS IN HAZARDOUS AREA, USE ARMOURED CABLE, DOUBLE SEAL CABLE GLAND AND EX JUNCTION BOX.

2) ALWAYS ENSURE CABLE LENGTH IS >3m

VALID FOR CONSTRUCTION
FDL DWG: 123A90-FDL-EL-DD-20091
REV.: 2_A | DATE: 30/09/24 | SIGNATURE: G.Randi
ROSETTI MARINO SpA

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	30/09/24	GRA	AMA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	04/07/24	NLK	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	21/11/23	SPS	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

02

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL TYPICAL INSTALLATION DETAILS-LIGHTING SYSTEM
LIGHTING FIXTURE MOUNTED ON POLE

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK | SCALE : NTS

A3 | DRAWING NO. 123A90-DDL-EL-DD-20091 | SHEET 014 | REV. 02

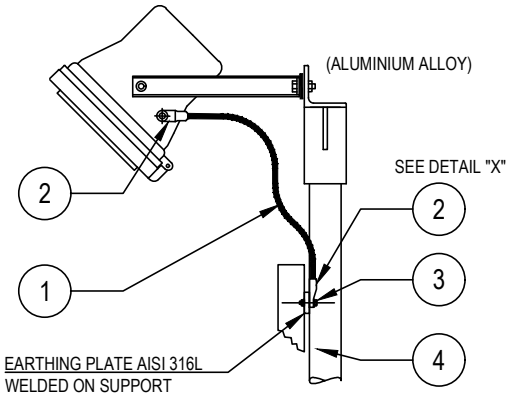
F.to UNI A3: 420mmx297mm

File Name : 123A90-DDL-EL-DD-20091 REV.02.DWG

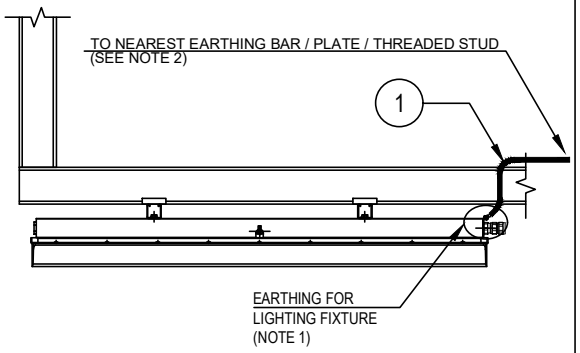
E05

POS.	DESCRIPTION	MATERIAL	SIZE	Q.TY	NOTE
1	Y/G INSULATING COPPER CONDUCTOR	COPPER	$6mm^2$		
2	COMPRESSION TYPE LUG FOR INSULATION COPPER CONDUCTOR	TINNED COPPER	$6mm^2$	2	
3	HEXAG. BOLTS, PLANE WASHERS, SPRING WASHER AND NUT	AISI 316L	M8X30	1	

LIGHTING FIXTURE/GENERAL ITEM ON POLE

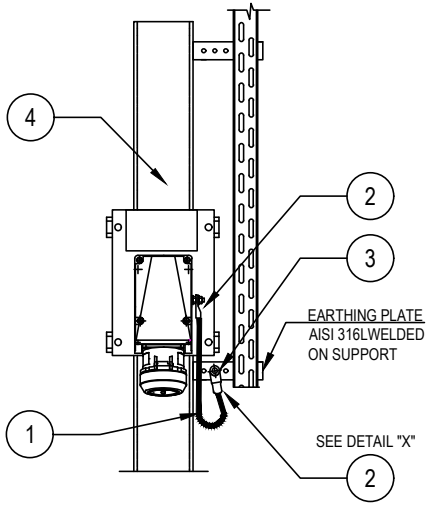


LIGHTING FIXTURES

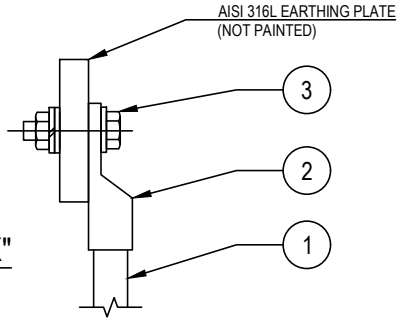


Refer also to TYP. "E32" (SEE SHEET 23)

POWER SOCKET OUTLET



DETAIL "X"



TYPICAL VALID ALSO FOR NAVAID LIGHTS

NOTES:

1) ALL LIGHTING FIXTURES AND RELEVANT ARMOUR OF THE CABLE, ARE CONNECTED TO EARTH CONNECTION THROUGH THE EARTHING TAG OF THE CABLE GLAND

2) FOR EARTHING POINT USE ONE OF THE FOLLOWING METHODS:
TYP. E03A-D sh. 004 (EARTHING BAR ON STRUCT. UNISTRUT AND CABLE TRAY)
TYP. E11C sh. 003 (EARTHING PLATE)
TYP. E11D sh. 003 (THREADED STUD ON EXTERNAL STRUCTURE)

VALID FOR CONSTRUCTION
FDL DWG: 123A90-FDL-EL-DD-20090
REV.: 2_I | DATE: 07/11/24 | SIGNATURE: G.Randi
ROSETTI MARINO SpA

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	26/08/24	GRA	AMA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	10/06/24	SPS	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	21/11/23	SPS	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL TYPICAL INSTALLATION DETAILS–EARTHING SYSTEM
EARTHING FOR ELECTRICAL EQUIPMENTS

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK | SCALE : NTS

A3 | DRAWING NO. 123A90–DDL–EL–DD–20090 | SHEET 006 | REV. 02

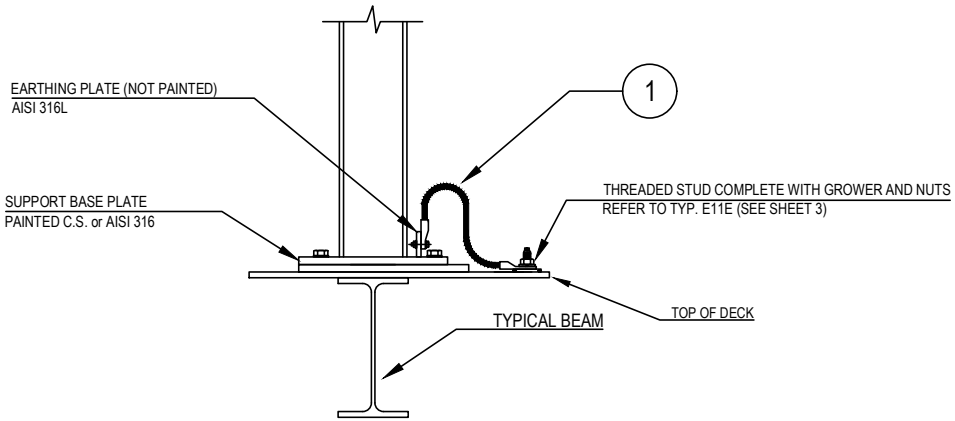
F.to UNI A3: 420mmx297mm

File Name : 123A90-DDL-EL-DD-20090 REV.02.DWG

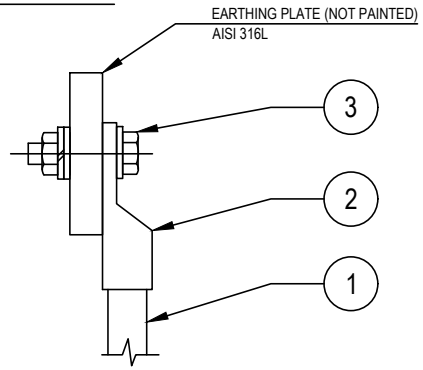
E24

POS.	DESCRIPTION	MATERIAL	SIZE	Q.TY	NOTE
1	As. R. Y/G INSULATING COPPER CONDUCTOR	COPPER	35mm^2		
2	COMPRESSION TYPE LUG FOR INSULATION COPPER CONDUCTOR	TINNED COPPER	35mm^2	2	~~NOTE 1~~
3	HEXAG. BOLT M10X30 COMPLETE WITH PLANE WASHERS, SPRING WASHER AND NUT	AISI 316L	M10X30	2	

GENERIC SUPPORT BOLTED ON STRUCTURE



DETAIL "X"



NOTES:
1) ~~CABLE LUG CRIMPING METHOD SHALL BE HEXAGONAL COMPRESSION DIES ONLY~~
2) EXTERNAL EARTHING CONNECTION ONLY SHALL BE PROTECTED AGAINST CORROSION USING OXIDE RESISTANT COMPOUND (E.G. COPPER GREASE)

VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DD-20090**
REV.: 2_I | DATE: 07/11/24 | SIGNATURE: G.Randi
ROSETTI MARINO SpA

CROSSWIND

ROSETTI MARINO

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	26/08/24	GRA	AMA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	10/06/24	SPS	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	21/11/23	SPS	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL TYPICAL INSTALLATION DETAILS–EARTHING SYSTEM
EARTHING FOR POLE/SUPPORT OF GENERIC EQUIPMENTS

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK | SCALE : NTS

A3	DRAWING NO.	SHEET	REV.
	123A90-DDL-EL-DD-20090	012	02

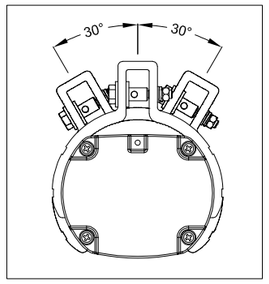
F.to UNI A3: 420mmx297mm

File Name : 123A90-DDL-EL-DD-20090 REV.02.DWG

MODEL C-225 REV.1

GENERAL NOTE:
- PO: 1724001290 DD 26/06/2024
- ITEM.: 1
- Q.TY: 57
- EXTERNAL PAINTING: RAL 7022 (END CAPS)
- INTERNAL PAINTING: NOT PAINTED
- ALL DIMENSIONS ARE IN mm

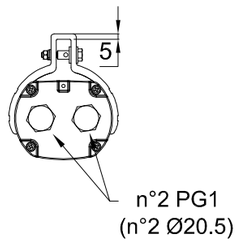
STANDARD FIXING BRACKET
FASTENING WITH 2 THREADED M8
HOLES, ADJUSTABLE FROM 0° TO ±30°



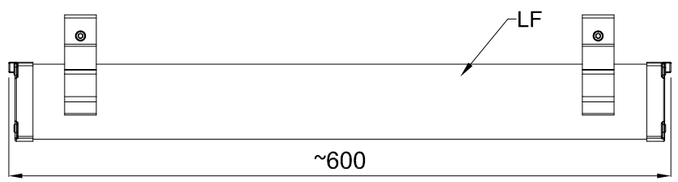
LF INFORMATION	
NOMINAL POWER	45W
CONSUMED POWER	43,5W
POWER FACTOR	>0,93
RATED CURRENT	200 mA
VIEWING ANGLE	120°
COLOUR TEMP.	5000 K
CRI	>80
INSTANT RESTRIKE	YES
LUMEN	6200 lm
LIGHT INTENSITY	2248 cd
EFFICIENCY	143 lm/W
WEIGHT	2,5 Kg
IP PROTECTION	IP66

N°	Q.TY	CODE	DESCRIPTION
LF	1	LIFEX-ME-0645-BB	110-277Vac 50-60Hz 45W LED LINEAR LIGHTING FIXTURE BODY: ALUMINUM ALLOY EXTRUSION AND ALUMINUM END CAPS TRANSPARENT PART: GLASS RESISTANT TO SHOCKS, UV RAYS AND IMPACT RESISTANCE IK09 GASKETS: ACID AND HYDROCARBON RESISTANT SILICONE ASSEMBLY: FASTENING BRACKETS FOR M8 HOLES, ADJUSTABLE 0° TO ±30° MADE IN ANODIZED ALUMINUM CONNECTION: TERMINAL BLOCK ON SIDE (IN) L, N, PE CROSS SEC. MAX. 4mmq SUITABLE FOR LOOP-IN LOOP-OUT SCREWS, BOLTS AND NUTS: STAINLESS STEEL 304
PG1	4	PLG1IB +DL1IB +RDI1IS/A4	IP66 Ex db IIC Gb - Ex eb IIC Gb NICKEL PLATED BRASS PLUG ISO M20x1,5 WITH RELEVANT LOCKNUT AND SERRATED WASHER MADE IN STAINLESS STEEL

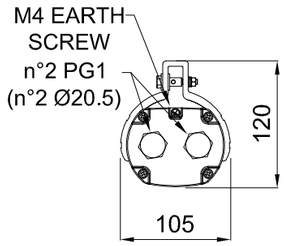
LEFT SIDE (OUT)



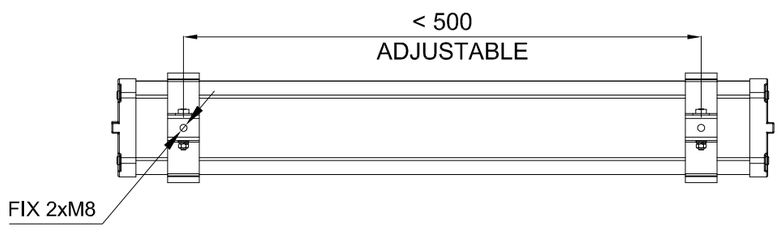
FRONT SIDE



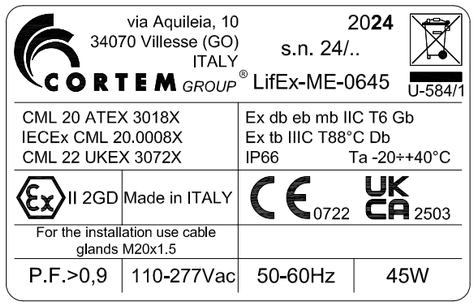
RIGHT SIDE (IN)



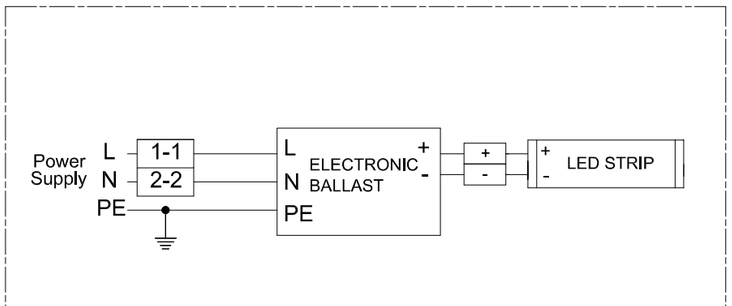
TOP SIDE



CERTIFICATE NAMEPLATE



WIRING DIAGRAM



REV.	DATE	PREP'D	CHK'D	APP'D	DESCRIPTION
2	09/07/2024	FRATTARUOLO	GIUSTI	GRATTON	REISSUED FOR APPROVAL
1	05/07/2024	FRATTARUOLO	GIUSTI	GRATTON	REISSUED FOR APPROVAL
0	28/06/2024	FRATTARUOLO	GIUSTI	GRATTON	ISSUED FOR APPROVAL

DRAWING TITLE: ROSETTI MARINO S.P.A.

CORTEM S.p.a.
GENERAL LAYOUT
001 LIFEX-ME-0645-BB/C2402693/10.

CORTEM JOB: COV2402693
DRAWING SCALE: /
DRAWING NUMBER: A3-C 27521
SHEET: 1
NEXT: 2
TOT.: 2

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AUTHORIZATION

Smart Professional R. 2012

Row	Data Sheet for Lighting Fixtures & Accessories				Rev.
1	42W LED Linear Luminaire-Normal Lighting-ATEX Area				
2	Item	Required	Manufacturer Proposal	Comments	
3	Model Number	by vendor	LIFEX-ME-0645-BB		01
4	Serial Number	by vendor			00
5	Quantity	28 Nos.		(25+3 Spare)	01
6	Location / Module	Upper deck			00
7	**LED Lamp**				
8	Nominal power	42 watts	45 watts		01
9	No. of linear	1	1		01
10	Luminous flux	5810 lm	6200 lm		01
11	Colour Temperature	5000 K	5000 K		01
12	**Protection**				
13	Hazardous Area Certification (Ex)	Zone 1 Gas Group IIC (or) IIB + H2, T1	Ex II 2GD Ex db eb mb IIC Gb Ex tb IIIC Db		01
14	Degree of Protection (IP)	IP 56	IP 66		01
15	ATEX certified	Classification EX db	ATEX CML 20 ATEX 3018X		01
16	**Material**				
17	Body	GRP/Aluminium alloy	Aluminium alloy		01
18	Reflector	GRP/Aluminium	Aluminium		01
19	Diffuser	Polycarbonate/temperate glass	Tempered glass		01
20	**Cable Entry**				
21	No. of cable entry	4 Nos.	4 Entries, 2 per side		01
22	Size	M20	Ø20.5mm		01
23	**Emergency Battery Pack**				
24	Requirement	Not required			00
25	Battery type	Not required			00
26	Autonomy	Not required			00
27	Emergency luminous flux	Not required			00
28	**Mechanical parameters**				
29	Dimension	by vendor	600x105x120(mm)		01
30	Weight	by vendor	2.5kg		01

Note:

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Its distribution is electronically controlled. Once printed shall be considered as "NOT CONTROLLED" copy

Tag Number	Tag Description	Location	P.O.	Vendor	Manufacturer	Serial Number	Model Type Catalogue Number	Installation Zone	ATEX Certificate Number	Reference Document	ATEX Certification Marking	Notes / Comments	Skid / Package	Electrical Equip.	Barrier Calculation Ref.	Special Conditions of Safe Use Applicable	3D Location
EJB-200N1-08-L1-07	Emergency Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990079	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-08-L1-08	Emergency Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990081	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-08-L1-09	Emergency Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990080	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-08-L1-10	Emergency Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990075	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-08-L1-11	Emergency Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990074	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-08-L1-12	Emergency Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990073	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-08-L1-14	Emergency Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990071	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-08-L1-15	Emergency Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990070	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-08-L1-16	Emergency Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990069	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-08-L1-17	Emergency Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990068	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-08-L1-18	Emergency Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990067	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-08-L1-19	Emergency Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990066	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-08-L1-20	Emergency Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990076	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-09-L2-01	Emergency Lighting JB	LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990016	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-09-L2-02	Emergency Lighting JB	LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990019	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-09-L2-04	Emergency Lighting JB	LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990017	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-09-L2-05	Emergency Lighting JB	LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990030	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-09-L2-06	Emergency Lighting JB	LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990029	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-09-L2-07	Emergency Lighting JB	LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990028	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-09-L2-08	Emergency Lighting JB	LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990027	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-09-L2-09	Emergency Lighting JB	LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990026	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-09-L2-10	Emergency Lighting JB	LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990025	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-09-L2-11	Emergency Lighting JB	LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990024	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-09-L2-12	Emergency Lighting JB	LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990023	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-09-L2-13	Emergency Lighting JB	LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990022	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-09-L2-14	Emergency Lighting JB	LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990021	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-09-L2-15	Emergency Lighting JB	LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990020	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-09-L2-16	Emergency Lighting JB	LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990031	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-09-L2-17	Emergency Lighting JB	BELOW LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990015	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-10-L3-01	Stair Emergency Lighting JB	LOWER & UPPER DECK STAIRS	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990040	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-10-L3-02	Stair Emergency Lighting JB	LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990039	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-10-L3-03	Stair Emergency Lighting JB	LOWER & UPPER DECK STAIRS	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990041	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-10-L3-04	Stair Emergency Lighting JB	LOWER & UPPER DECK STAIRS	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990042	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-10-L3-05	Stair Emergency Lighting JB	BELOW LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990034	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-10-L3-06	Stair Emergency Lighting JB	BELOW LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990035	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-10-L3-07	Stair Emergency Lighting JB	BELOW LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990036	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-10-L3-08	Stair Emergency Lighting JB	BELOW LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990037	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-10-L3-09	Stair Emergency Lighting JB	BELOW LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990038	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
ELF-200N1-02-L1-01	Normal Lighting Fixture	UPPER DECK	1724001290	Cortem Spa	Cortem Spa	24/86772	LIFEX-ME-0645-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	
ELF-200N1-02-L1-02	Normal Lighting Fixture	UPPER DECK	1724001290	Cortem Spa	Cortem Spa	24/86773	LIFEX-ME-1260N-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	
ELF-200N1-02-L1-03	Normal Lighting Fixture	UPPER DECK	1724001290	Cortem Spa	Cortem Spa	24/86772	LIFEX-ME-0645-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	
ELF-200N1-02-L1-04	Normal Lighting Fixture	UPPER DECK	1724001290	Cortem Spa	Cortem Spa	24/86772	LIFEX-ME-0645-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	
ELF-200N1-02-L1-05	Normal Lighting Fixture	UPPER DECK	1724001290	Cortem Spa	Cortem Spa	24/86772	LIFEX-ME-0645-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	HAZARDOUS-AREA_8
ELF-200N1-02-L1-06	Normal Lighting Fixture	UPPER DECK	1724001290	Cortem Spa	Cortem Spa	24/86772	LIFEX-ME-0645-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	
ELF-200N1-02-L1-07	Normal Lighting Fixture	UPPER DECK	1724001290	Cortem Spa	Cortem Spa	24/86772	LIFEX-ME-0645-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	HAZARDOUS-AREA_8 HAZARDOUS-AREA_3
ELF-200N1-02-L1-08	Normal Lighting Fixture	UPPER DECK	1724001290	Cortem Spa	Cortem Spa	24/86772	LIFEX-ME-0645-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	HAZARDOUS-AREA_8 HAZARDOUS-AREA_3
ELF-200N1-02-L1-09	Normal Lighting Fixture	UPPER DECK	1724001290	Cortem Spa	Cortem Spa	24/86772	LIFEX-ME-0645-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	HAZARDOUS-AREA_8 HAZARDOUS-AREA_1
ELF-200N1-02-L1-10	Normal Lighting Fixture	UPPER DECK	1724001290	Cortem Spa	Cortem Spa	24/86772	LIFEX-ME-0645-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	HAZARDOUS-AREA_8 HAZARDOUS-AREA_1
ELF-200N1-02-L1-11	Normal Lighting Fixture	UPPER DECK	1724001290	Cortem Spa	Cortem Spa	24/86772	LIFEX-ME-0645-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	HAZARDOUS-AREA_3 HAZARDOUS-AREA_2 HAZARDOUS-AREA_5 HAZARDOUS-AREA_6
ELF-200N1-02-L1-12	Normal Lighting Fixture	UPPER DECK	1724001290	Cortem Spa	Cortem Spa	24/86772	LIFEX-ME-0645-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	HAZARDOUS-AREA_1 HAZARDOUS-AREA_2 HAZARDOUS-AREA_5 HAZARDOUS-AREA_4
ELF-200N1-02-L1-13	Normal Lighting Fixture	UPPER DECK	1724001290	Cortem Spa	Cortem Spa	24/86772	LIFEX-ME-0645-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	HAZARDOUS-AREA_1 HAZARDOUS-AREA_2 HAZARDOUS-AREA_5 HAZARDOUS-AREA_4
ELF-200N1-02-L1-14	Normal Lighting Fixture	UPPER DECK	1724001290	Cortem Spa	Cortem Spa	24/86772	LIFEX-ME-0645-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	
ELF-200N1-02-L1-15	Normal Lighting Fixture	UPPER DECK	1724001290	Cortem Spa	Cortem Spa	24/86772	LIFEX-ME-0645-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	
ELF-200N1-02-L1-16	Normal Lighting Fixture	UPPER DECK	1724001290	Cortem Spa	Cortem Spa	24/86772	LIFEX-ME-0645-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	

EU Type Examination Certificate CML 20ATEX3018X Issue 1

1 Equipment intended for use in Potentially Explosive Atmospheres Directive 2014/34/EU

2 Equipment **LifEx-ME, LifEx-MN and LifEx-MT series of linear lighting fixtures**

3 Manufacturer **Cortem S.p.A.**

4 Address **Via Aquileia 10**
34070 Villesse
(GO)
Italy

5 The equipment is specified in the description of this certificate and the documents to which it refers.

6 CML B.V., Chamber of Commerce No 6738671, Koopvaardijweg 32, 4906CV Oosterhout, The Netherlands, Notified Body Number 2776, in accordance with Article 17 of Directive 2014/34/EU of the European Parliament and of the Council, dated 26 February 2014, certifies that this equipment has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of equipment intended for use in potentially explosive atmospheres given in Annex II to the Directive.

The examination and test results are recorded in the confidential reports listed in Section 12.

7 If an 'X' suffix appears after the certificate number, it indicates that the equipment is subject to conditions of safe use (affecting correct installation or safe use). These are specified in Section 14.

8 This EU Type Examination certificate relates only to the design and construction of the specified equipment or component. Further requirements of Directive 2014/34/EU Article 13 apply to the manufacture of the equipment or component and are separately certified.

9 Compliance with the Essential Health and Safety Requirements, with the exception of those listed in the confidential report, has been demonstrated through compliance with the following documents:

EN IEC 60079-0:2018	EN 60079-1:2014	EN IEC 60079-7:2015+A1:2018
EN 60079-18:2015+A1:2017	EN 60079-31:2014	

10 The equipment shall be marked with the following:

LifEx-ME	LifEx-MN and LifEx-MT
Ex db eb mb IIC T.. Gb	Ex tb IIIC T…°C Db
Ex eb mb IIC T.. Gb *(when Ex mb LED drivers are used)*	IP66
Ex tb IIIC T…°C Db	
IP66	
Ta=* see description	Ta=* see description

11 Description

The LifEx is a range of linear LED lighting fixtures that are available in three different configurations for different applications, designated as the LifEx-ME, LifEx-MT and LifEx-MN.

LifEx-ME

The LifEx-ME version has an Equipment Protection Level of EPL Gb and Db and utilises types of protection increased safety (eb) and dust protection by enclosure (tb), along with encapsulation (mb) for the light source and flameproof (db) for the driver.

It is constructed from an aluminium enclosure, with either a glass or polycarbonate lens and with optional polycarbonate diffuser.

LifEx-MN

The LifEx-MN version has an Equipment Protection Level of EPL Gc and Db and utilises types of protection increased safety (ec) and dust protection by enclosure (tb).

It is constructed from an aluminium enclosure, with polycarbonate diffuser and/or with optional glass or polycarbonate lens.

LifEx-MT

The LifEx-MT versions has an Equipment Protection Level of EPL Db and utilises types of protection dust protection by enclosure (tb).

It is constructed from an aluminium enclosure, with polycarbonate diffuser and/or with optional glass or polycarbonate lens.

Design Options

Every configuration is available in lengths ranging from 300 mm to 1500 mm, and power ratings up to a maximum of 105W of nominal power.

The LifEx can be used in only normal service, in only emergency service or in normal and emergency service.

The minimum ambient temperature for the range is:

- -60°C for versions without battery
- -60°C for versions with the battery heater
- -20°C for versions with battery

The range is available with the following maximum ambient temperatures:

	With glass lens and with/without polycarbonate diffuser	With Polycarbonate lens and with/without polycarbonate diffuser	Without lens polycarbonate diffuser only
LifEx-M...0310	+60°C	+60°C	+60°C
LifEx-M...0315	+60°C	+60°C	+60°C
LifEx-M...0330	+60°C	Configuration not available	Configuration not available
LifEx-M...0615	+60°C	+60°C	+60°C
LifEx-M...0630	+60°C	+50°C	+60°C
LifEx-M...0645	+57°C	+47°C	+60°C
LifEx-M...0660	+47°C	Configuration not available	+58°C
LifEx-M...1230	+60°C	+60°C	+60°C
LifEx-M...1260	+60°C	+50°C	+60°C
LifEx-M...1290	+60°C	+40°C	+60°C
LifEx-M...12120	+54°C	Configuration not available	+60°C
LifEx-M...1590	+60°C	+40°C	+60°C

Table 1: Maximum Ambient Temperatures

The following tables provide the Temperature Class (EPL Gb) and Maximum Surface Temperature (EPL Db) for each LifEx type, with the following notes:

- The LifEx-MN with an ambient temperature greater than 50°C is T5 or T4. T6 is not included.
- The Temperature Class (EPL Gb) and Maximum Surface Temperature (EPL Db) in the tables below are not applicable when the ambient temperature is not permitted in the above maximum ambient temperature range table.

13. (For example, the LifEx-M...0660 is not permitted with polycarbonate lens, therefore the Temperature Class (EPL Gb) and Maximum Surface Temperature (EPL Db) for this version in tables 2 and 3 are not applicable)

	Temperature Class (EPL Gb and Gc) and Maximum Surface Temperature (EPL Db) Based on ambient temperature													
	40°C		45°C		47°C		50°C		54°C		57°C		60°C	
	EPL Db	EPL Gb/Gc	EPL Db	EPL Gb/Gc	EPL Db	EPL Gb/Gc	EPL Db	EPL Gb/Gc	EPL Db	EPL Gb/Gc	EPL Db	EPL Gb/Gc	EPL Db	EPL Gb/Gc
LifEx-M...0310	T56°C	T6	T56°C	T6	T58°C	T6	T61°C	T6	T65°C	T6	T68°C	T6	T71°C	T6
LifEx-M...0315	T56°C	T6	T56°C	T6	T58°C	T6	T61°C	T6	T65°C	T6	T68°C	T6	T71°C	T6
LifEx-M...0615	T56°C	T6	T56°C	T6	T58°C	T6	T61°C	T6	T65°C	T6	T68°C	T6	T71°C	T6
LifEx-M...0630	T69°C	T6	T69°C	T5	T71°C	T5	T74°C	T5	T78°C	T5	T81°C	T4	T84°C	T4
LifEx-M...0645	T72°C	T5	T72°C	T5	T74°C	T5	T77°C	T5	T81°C	T4	T84°C	T4	T87°C	T4
LifEx-M...0660	T77°C	T5	T77°C	T4	T79°C	T4	T82°C	T4	T86°C	T4	T89°C	T4	T92°C	T4
LifEx-M...1230	T58°C	T6	T58°C	T6	T60°C	T6	T63°C	T6	T67°C	T6	T70°C	T6	T73°C	T6
LifEx-M...1260	T67°C	T6	T67°C	T5	T69°C	T5	T72°C	T5	T76°C	T5	T79°C	T4	T82°C	T4
LifEx-M...1290	T72°C	T5	T72°C	T5	T74°C	T4	T77°C	T4	T81°C	T4	T84°C	T4	T87°C	T4
LifEx-M...12120	T75°C	T5	T75°C	T4	T77°C	T4	T80°C	T4	T84°C	T4	T87°C	T4	T90°C	T4
LifEx-M...1590	T72°C	T5	T72°C	T5	T74°C	T4	T77°C	T4	T81°C	T4	T84°C	T4	T87°C	T4

Table 2: Temperature Class (EPL Gb) and Maximum Surface Temperature (EPL Db) for LifEx types with glass/polycarbonate lens and with polycarbonate diffuser

	Temperature Class (EPL Gb and Gc) and Maximum Surface Temperature (EPL Db) Based on ambient temperature					
	40°C		55°C		60°C	
	EPL Db	EPL Gc	EPL Db	EPL Gc	EPL Db	EPL Gc
LifEx-ME-0330	T58°C	T6	T73°C	T6	T78°C	T5
LifEx-MN-0330	T58°C	T6	T73°C	T5	T78°C	T4
LifEx-MT-0330	T58°C	-	T73°C	-	T78°C	-

Table 3: Temperature Class (EPL Gb and Gc) and Maximum Surface Temperature (EPL Db) for LifEx-M...-0330 types with glass/polycarbonate window and without polycarbonate diffuser

	Temperature Class (EPL Gb) and Maximum Surface Temperature (EPL Db) Based on ambient temperature													
	40°C		45°C		47°C		50°C		54°C		57°C		60°C	
	EPL Db	EPL Gb	EPL Db	EPL Gb	EPL Db	EPL Gb	EPL Db	EPL Gb	EPL Db	EPL Gb	EPL Db	EPL Gb	EPL Db	EPL Gb
LifEx-M...0310	T62°C	T6	T62°C	T6	T64°C	T6	T67°C	T6	T71°C	T6	T74°C	T6	T77°C	T6
LifEx-M...0315	T62°C	T6	T62°C	T6	T64°C	T6	T67°C	T6	T71°C	T6	T74°C	T6	T77°C	T6
LifEx-M...0615	T62°C	T6	T62°C	T6	T64°C	T6	T67°C	T6	T71°C	T6	T74°C	T6	T77°C	T6
LifEx-M...0630	T85°C	T6	T85°C	T5	T87°C	T5	T90°C	T5	T94°C	T5	T97°C	T4	T100°C	T4
LifEx-M...0645	T88°C	T6	T88°C	T5	T90°C	T5	T93°C	T5	T97°C	T4	T100°C	T4	T103°C	T4
LifEx-M...0660	T100°C	T6	T100°C	T4	T102°C	T4	T105°C	T4	T109°C	T4	T112°C	T4	T115°C	T4
LifEx-M...1230	T65°C	T6	T65°C	T6	T67°C	T6	T70°C	T6	T74°C	T6	T77°C	T6	T80°C	T6
LifEx-M...1260	T85°C	T6	T85°C	T5	T87°C	T5	T90°C	T5	T94°C	T5	T97°C	T4	T100°C	T4
LifEx-M...1290	T94°C	T6	T94°C	T5	T96°C	T4	T99°C	T4	T103°C	T4	T106°C	T4	T109°C	T4
LifEx-M...12120	T96°C	T5	T96°C	T4	T98°C	T4	T101°C	T4	T105°C	T4	T108°C	T4	T111°C	T4
LifEx-M...1590	T94°C	T6	T94°C	T5	T96°C	T4	T99°C	T4	T103°C	T4	T106°C	T4	T109°C	T4

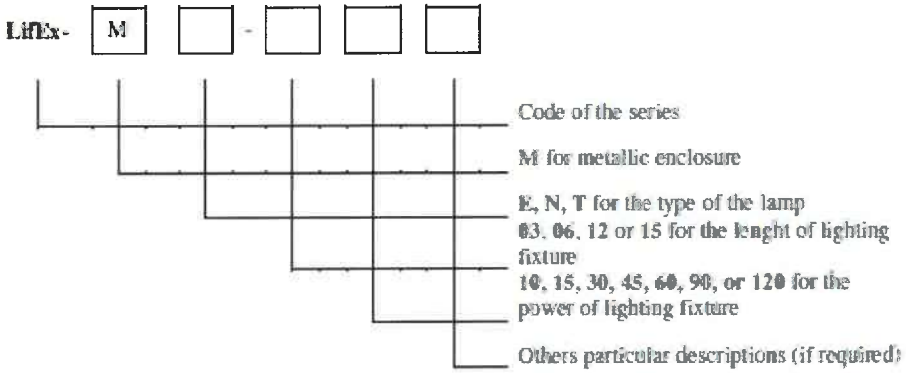
Table 4: Temperature Class (EPL Gb) and Maximum Surface Temperature (EPL Db) for LifEx types with glass/polycarbonate lens and without polycarbonate diffuser

	Maximum Surface Temperature (EPL Db) Based on ambient temperature						
	40°C	45°C	47°C	50°C	54°C	57°C	60°C
LifEx-M...0310	T56°C	T56°C	T58°C	T61°C	T65°C	T68°C	T71°C
LifEx-M...0315	T56°C	T56°C	T58°C	T61°C	T65°C	T68°C	T71°C
LifEx-M...0615	T56°C	T56°C	T58°C	T61°C	T65°C	T68°C	T71°C
LifEx-M...0630	T69°C	T69°C	T71°C	T74°C	T78°C	T81°C	T84°C
LifEx-M...0645	T72°C	T72°C	T74°C	T77°C	T81°C	T84°C	T87°C
LifEx-M...0660	T77°C	T77°C	T79°C	T82°C	T86°C	T89°C	T92°C
LifEx-M...1230	T58°C	T58°C	T60°C	T63°C	T67°C	T70°C	T73°C
LifEx-M...1260	T67°C	T67°C	T69°C	T72°C	T76°C	T79°C	T82°C
LifEx-M...1290	T72°C	T72°C	T74°C	T77°C	T81°C	T84°C	T87°C
LifEx-M...12120	T75°C	T75°C	T77°C	T80°C	T84°C	T87°C	T90°C
LifEx-M...1590	T72°C	T72°C	T74°C	T77°C	T81°C	T84°C	T87°C

Table 5: (Applicable to EPL Db only) Maximum Surface Temperature for LifEx types without glass/polycarbonate lens and with polycarbonate diffuser

The equipment has been separately tested against the requirements of IEC 60529 and it meets IP66. The gaskets on the caps provide the degree of protection.

The equipment uses the following nomenclature:



Variation 1:

This variation has assed the following changes:

i. Addition of an optional new removable cover for "easy installation" (which use the new aluminium extrusion);
ii. Addition of an optional external battery box;
iii. minimum ambient temperature extended to -60°C when Ex mb heater is used;
iv. Additional optional Ex mb EBM LED driver as an alternative to EBL3040 / EBL4040 Ex db series LED drivers;
v. added 30W model for size 300mm (LifEx-M..-0330).

12 Certificate history and evaluation reports

Issue	Date	Associated report	Notes
0	06 May 2020	R13027A/00	Prime Issue
1	01 Jul 2022	R14875A/00	Introduction of Variation 1

Note: Drawings that describe the equipment or component are listed in the Annex.

13 Conditions of Manufacture

The following conditions are required of the manufacturing process for compliance with the certification.

i. Where the product incorporates certified parts or safety critical components the manufacturer shall ensure that any changes to those parts or components do not affect the compliance of the certified product that is the subject of this certificate.
ii. The LifEx series lighting fixtures are to be designed in accordance with general electrical safety standards.
iii. The routine dielectric strength test on the LifEx-ME and LifEx-MN luminaries with applied voltage shall be performed at 2U + 1000V with a minimum value of 1560V (U = maximum rated voltage of the lamp)

iv. A routine visual inspection of the encapsulated parts is required, as per Clause 9.1 of IEC 60079-18. There shall be no visible damage or deformation to the encapsulant.

v. Where the removable battery pack is used with phoenix contacts, if used with a T6 version of the equipment, the maximum ambient shall be limited to +40°C.

14 Specific Conditions of Use (Special Conditions)

The following conditions relate to safe installation and/or use of the equipment.

i. Cable entries are provided which have less than 5 threads engaged. Care must be taken to ensure the correct gaskets and washers are sued with the cable gland to maintain IP66.

ii. The equipment uses an external part that is constructed from non-metallic materials, and as such care is to be taken to prevent an electro-static charging hazard. See instruction manual for details.

iii. For versions with glass window of 4mm thickness without cover, the luminaire must be installed in a location with a low risk of mechanical danger

iv. The temperature at the entry point may reach up to 75°C. Suitably rated cable glands must be used.

Certificate Annex

Certificate Number	**CML 20ATEX3018X**
Equipment	**LifEx-ME, LifEx-MN and LifEx-MT series of linear lighting fixtures**
Manufacturer	**Cortem S.p.A.**

The following documents describe the equipment or component defined in this certificate:

Issue 0

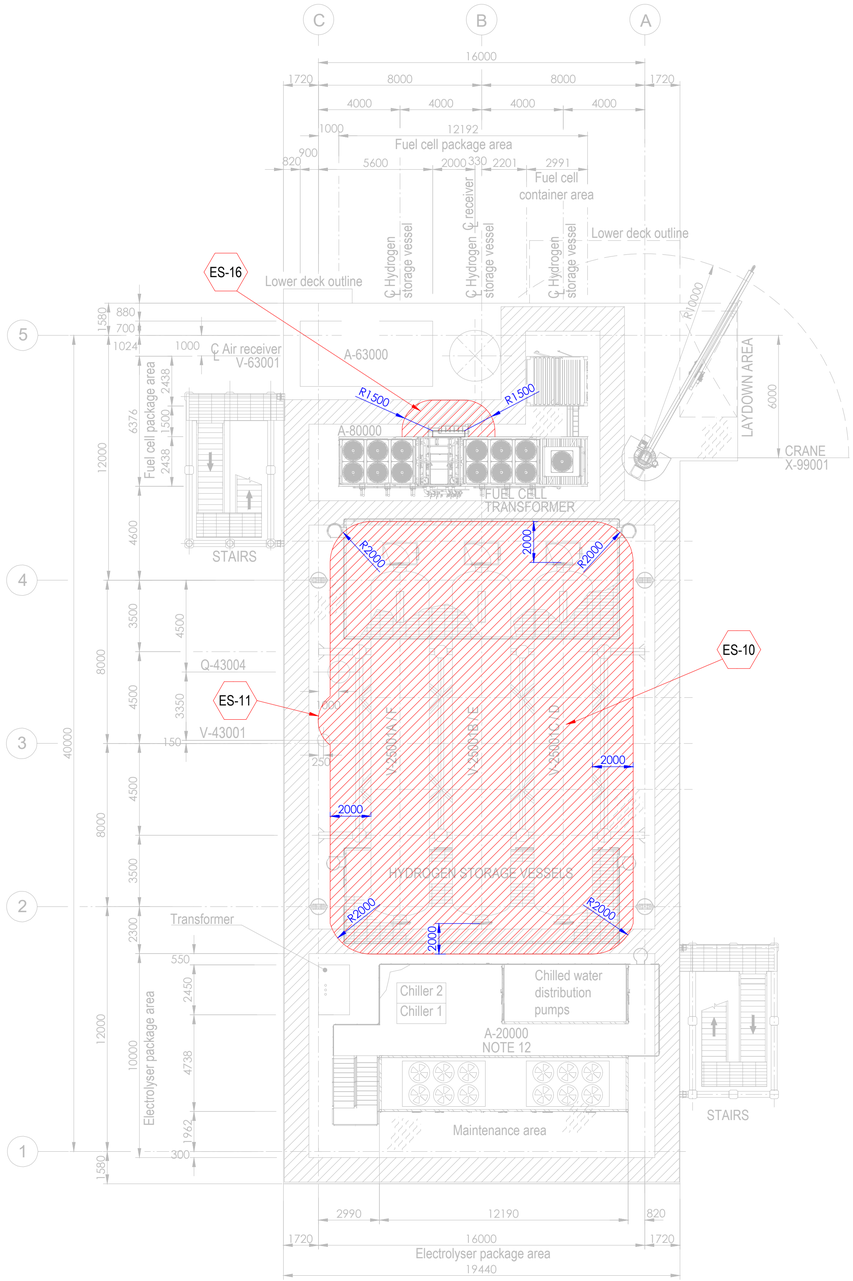
Drawing No	Sheets	Rev	Approved date	Title
A3-7466	1 to 6	0	06 May 2020	LifEx-M Luminaires
A4-7467	1 to 6	0	06 May 2020	Technical Note

Issue 1

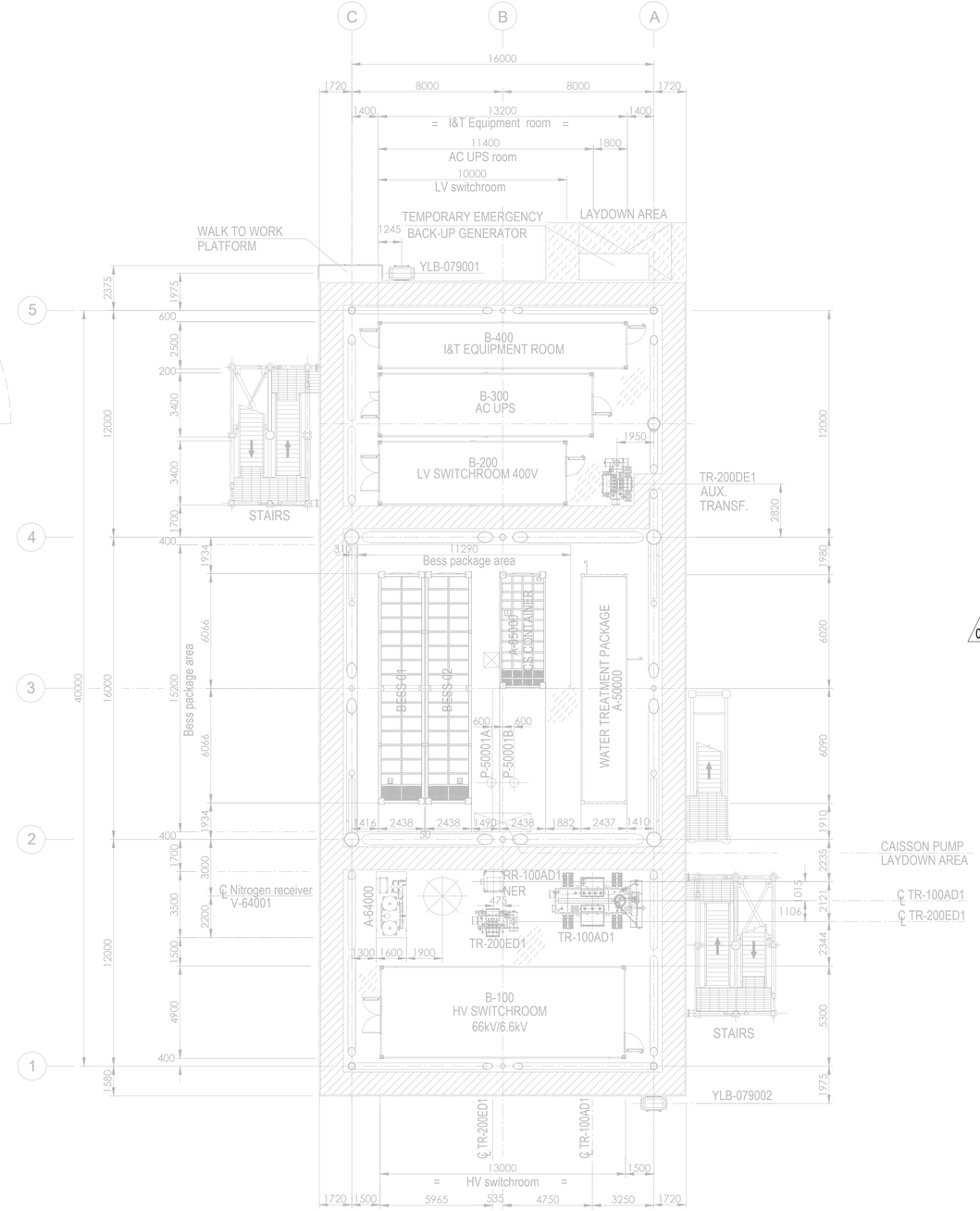
Drawing No.	Sheets	Rev	Approved date	Title
A3-7466	1 of 6	1	01 Jul 2022	LifEx-M Luminaires Assembly and External Dimensions
A3-7466	2 of 6	1	01 Jul 2022	LifEx-M Luminaires Detail of sealing and op is protection
A3-7466	3 of 6	1	01 Jul 2022	LifEx-M Luminaires Detail of driver and inverter for LifEx-ME version
A3-7466	4 of 6	1	01 Jul 2022	LifEx-M Luminaires Circuit diagram for LifeEx-ME version
A3-7466	5 of 6	1	01 Jul 2022	LifEx-M Luminaires Circuit diagram LifEx-MN and LifEx-MT version
A3-7466	6 of 6	1	01 Jul 2022	LifEx-M Luminaires Detail of battery pack
A3-7729	1 to 3	0	01 Jul 2022	Battery heater for -60°C /-40°C applications Assembly and External Dimensions
A4-7727	1 to 8	0	01 Jul 2022	Technical Note

DRAWING NO. 123A90-DDL-SAF-DL-30022

REV. 02



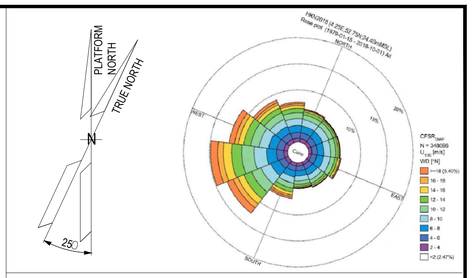
PLAN ON UPPER DECK
EL+30.310 T.O.S.



PLAN ON LOWER DECK
EL+23.310 T.O.S.

Tag No.	Equipment Tag	Description	Material	Ventilation Type
01	P-50001 A/B	SEA WATER LIFT PUMPS	SEA WATER	NATURAL (OPEN AREA)
02	Q-43004	HYDROGEN VENT	HYDROGEN	NATURAL (OPEN AREA)
03	V-43001	HYDROGEN VENT KO DRUM	HYDROGEN	NATURAL (OPEN AREA)
04	V-25001 (A/B/C/D/E/F)	HYDROGEN STORAGE VESSELS	HYDROGEN	NATURAL (OPEN AREA)
05	V-63001	AIR RECEIVER	INSTRUMENT AIR	NATURAL (OPEN AREA)
06	A-20000	ELECTROLYSER PACKAGE		
07	A-63000	INSTRUMENT AIR PACKAGE		
08	A-80000	FUEL CELL PACKAGE		
09	A-85000	BESS PACKAGE		
10	YLB-079001/2	LIFE RAFTS		
11	A-50000	WATER TREATMENT PACKAGE		

Tag No.	Equipment Tag	Description	Material	Ventilation Type
12	A-64000	NITROGEN SYSTEM		
13	B-100	HV SWITCHROOM 66kV/6.6kV		
14	B-200	LV SWITCHROOM 400V		
15	B-300	AC UPS EQUIPMENT ROOM		
16	B-400	I&T EQUIPMENT ROOM		
17	TR-100AD1	TRANSFORMER MAIN 66kV/6.6kV		
18	RR-100AD1-NER	NEUTRAL EARTHING RESISTOR		
19	TR-200DE1	TRANSFORMER AUX. 6.6kV/0.4kV		
20	TR-200ED1	SOLAR TRANSFORMER PV FARM EQUIPMENT		
21	X-99001	CRANE		
22	V-64001	NITROGEN RECEIVER		



NOTES

1. ALL DIMENSIONS IN mm U.N.O.
2. ALL ELEVATIONS IN METERS.
3. PLATFORM NORTH DIRECTION IS N 25°W.
4. VENT TOP SHALL BE REACHEABLE FOR MAINTENANCE PURPOSE.
5. THE BESS IS CONSIDERED SAFE AREA EXCEPT EXTRACTORES FROM BATTERIES , CURRENTLY NOT SHOWN IN DRAWINGS, SINCE INFORMATION FROM VENDOR IS NOT YET AVAILABLE.[ES17].
6. THE LOCATION OF EMISSION SOURCES ON THE LAYOUT ARE ONLY INDICATIVE. EMISSION SOURCES CONSIDERED ARE PRESENT WITHIN THE EXTENSION OF HAZARDOUS CLASSIFIED AREAS SHOWN ON THE LAYOUT. THIS IS BECAUSE VALVES AND FLANGES,WHICH ARE CONSIDERED POTENTIAL SOURCES OF RELEASE POINTS FOR FLAMMABLE GAS ARE NOT SHOWN ON CURRENT LAYOUT PROVIDED. THE SAME APPLIES TO THE EMISSION SOURCES FOR CPI'S ITEM.
7. IDENTIFIED EMISSION SOURCES DETAIL.

02
8. FOR DETAILS RELATED TO ELECTROLYSER PACKAGE INTERNAL ENCLOSURES REFER TO DRAWING 224J10-DDL-PP-DA-00001 REV 0.
9. FOR DETAILS RELATED TO FUELL CELL PACKAGE INTERNAL ENCLOSURES REFER TO DRAWING K559-2254-CWIWP4202202-B01-001 REV 009".
10. THE N.6 HYDROGEN STORAGE VESSELS ARE NOT CLASSIFIED INTERNALLY SINCE THEY ARE DESIGNED TO CONTAIN HYDROGEN OR NITROGEN FOR THE ENTIRE DURATION OF THE 2 YEARS OF OPERATION.

EMISSION SOURCE No.	IDENTIFIED AREAS
ES10	HYDROGEN STORAGE VESSLES
ES11	HYDROGEN VENT KO DRUM
ES16	FUEL CELL

LEGEND

ZONE 0 — ZONE 1

ZONE 2 — ES EMISSION SOURCES

123A90-DDL-PP-DS-70071	PLOT PLAN - BELOW LOWER DECK
123A90-DDL-PP-DS-70072	PLOT PLAN - ELEVATION LOOKING NORTH & EAST

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	15/01/25	MMA	CCA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	27/08/24	MMA	CCA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	08/02/24	MMA	CCA	DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND

ROSETTI MARINO

TITLE :
BASE LOAD POWER HUB (BLPH)
HAZARDOUS AREA CLASSIFICATION
LOWER & UPPER DECK

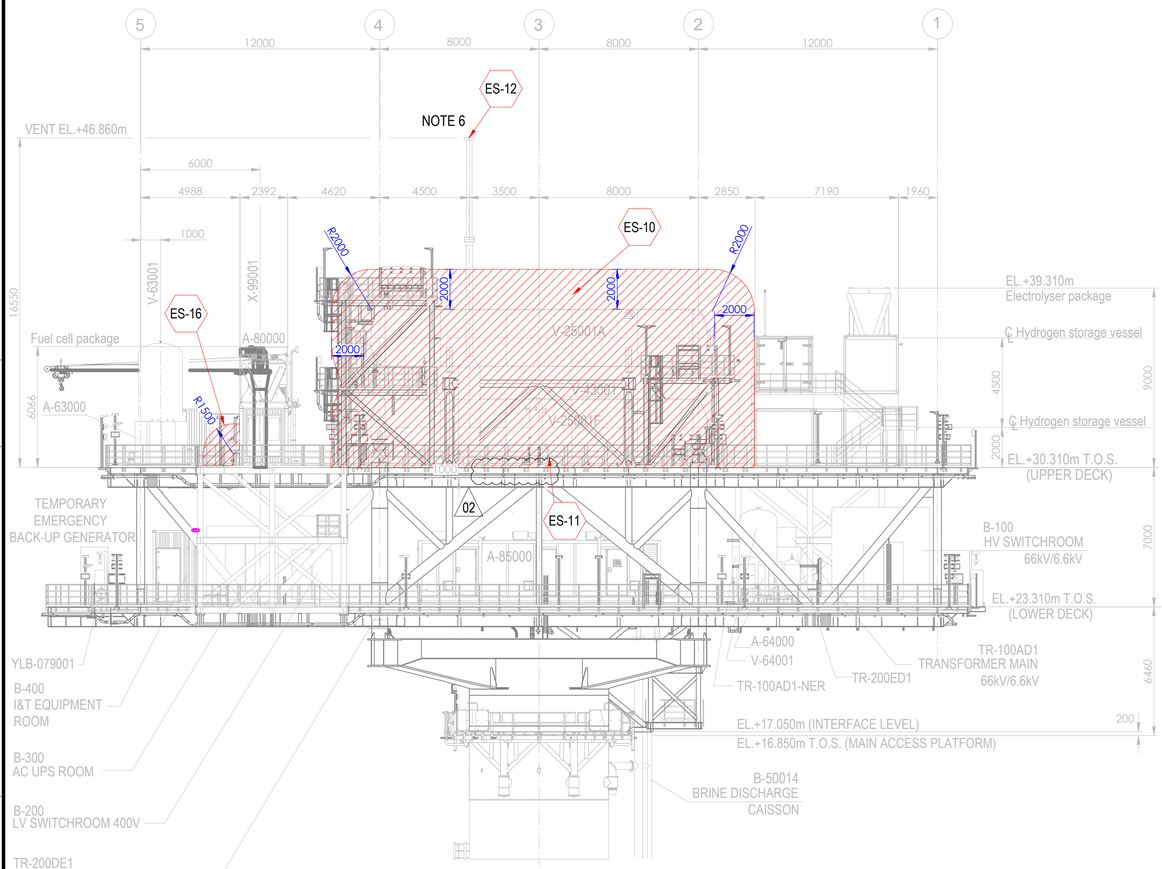
CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK			SCALE 1:150
DRAWN M. MAGNI	CHECKED C. CARACCIOLO	APPROVED D. LO STERZO	DATE 03/07/24

	DRAWING NO.	SHEET	REV.
A1	123A90-DDL-SAF-DL-30022	001	02

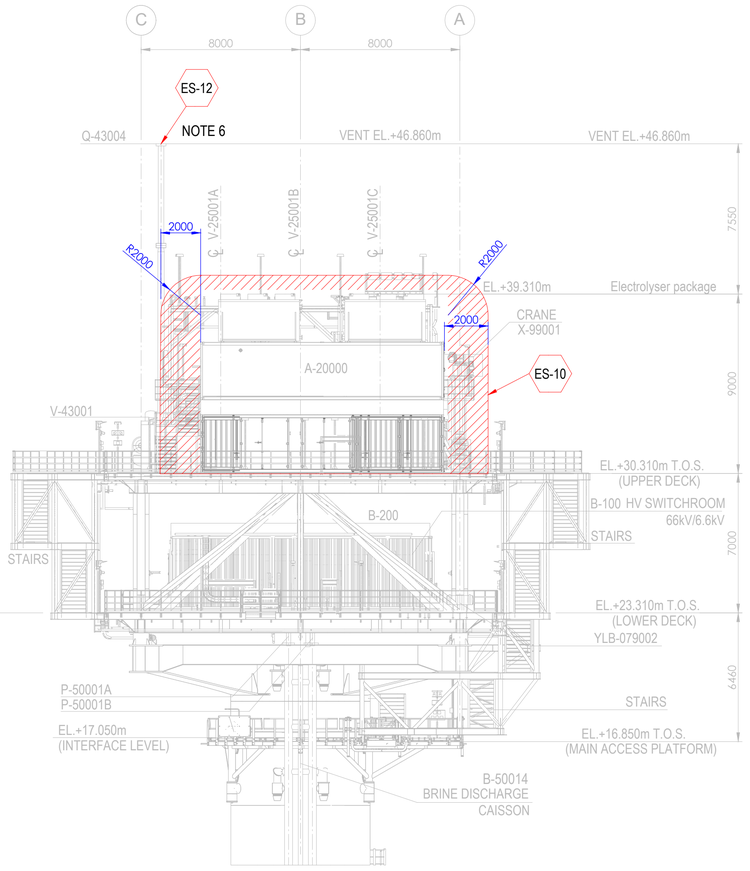
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DRAWING NO. 123A90-DDL-SAF-DL-30024

REV. 02

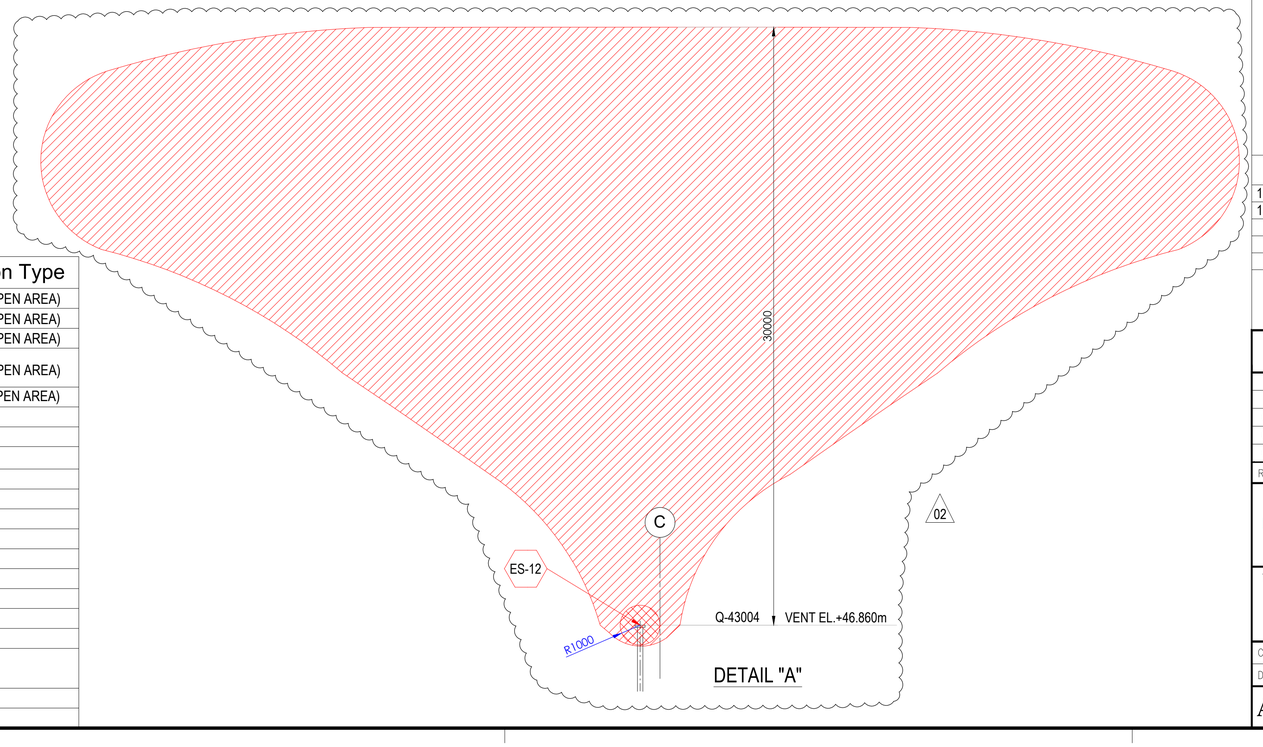


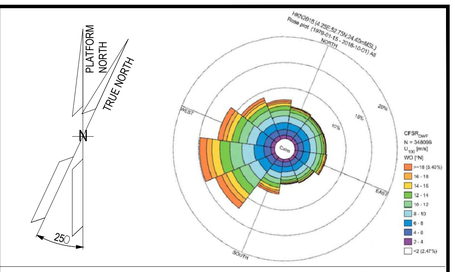
ELEVATION LOOKING EAST



ELEVATION LOOKING NORTH

Tag No.	Equipment Tag	Description	Material	Ventilation Type
01	P-50001 A/B	SEA WATER LIFT PUMPS	SEA WATER	NATURAL (OPEN AREA)
02	Q-43004	HYDROGEN VENT	HYDROGEN	NATURAL (OPEN AREA)
03	V-43001	HYDROGEN VENT KO DRUM	HYDROGEN	NATURAL (OPEN AREA)
04	V-25001 (A/B/C/D/E/F)	HYDROGEN STORAGE VESSELS	HYDROGEN	NATURAL (OPEN AREA)
05	V-63001	INSTRUMENT AIR RECEIVER	INSTRUMENT AIR	NATURAL (OPEN AREA)
06	A-20000	ELECTROLYSER PACKAGE		
07	A-63000	INSTRUMENT AIR PACKAGE		
08	A-80000	FUEL CELL PACKAGE		
09	A-85000	BESS PACKAGE		
10	YLB-079001/2	LIFE RAFTS		
11	B-100	HV SWITCHROOM 66kV/6.6kV		
12	B-200	LV SWITCHROOM 400V		
13	B-300	AC UPS EQUIPMENT ROOM		
14	B-400	I&T EQUIPMENT ROOM		
15	TR-100AD1	TRANSFORMER MAIN 66kV/6.6kV		
16	TR-100AD1-NER	NEUTRAL EARTHING RESISTOR		
17	TR-200DE1	TRANSFORMER AUX. 6.6kV/0.4kV		
18	TR-200ED1	SOLAR TRANSFORMER PV FARM EQUIPMENT		
19	X-99001	CRANE		
20	V-64001	NITROGEN RECEIVER		





NOTES

1. ALL DIMENSIONS IN mm U.N.O
2. ALL ELEVATIONS IN METERS.
3. PLATFORM NORTH DIRECTION IS N 25°W.
4. VENT TOP SHALL BE REACHEABLE FOR MAINTENANCE PURPOSE.
5. THE BESS IS CONSIDERED SAFE AREA EXCEPT EXTRACTORES FROM BATTERIES , CURRENTLY NOT SHOWN IN DRAWINGS, SINCE INFORMATION FROM VENDOR IS NOT YET AVAILABLE.[ES17]
6. FOR ES12 PLUME, PLEASE REFER TO THE DETAIL "A" BELOW. (02)
7. THE LOCATION OF EMISSION SOURCES ON THE LAYOUT ARE ONLY INDICATIVE. EMISSION SOURCES CONSIDERED ARE PRESENT WITHIN THE EXTENSION OF HAZARDOUS CLASSIFIED AREAS SHOWN ON THE LAYOUT. THIS IS BECAUSE VALVES AND FLANGES,WHICH ARE CONSIDERED POTENTIAL SOURCES OF RELEASE POINTS FOR FLAMMABLE GAS ARE NOT SHOWN ON CURRENT LAYOUT PROVIDED. THE SAME APPLIES TO THE EMISSION SOURCES FOR CPI'S ITEM.
8. IDENTIFIED EMISSION SOURCES DETAIL

EMISSION SOURCE No.	IDENTIFIED AREAS
ES10	HYDROGEN STORAGE VESSLES
ES11	HYDROGEN VENT KO DRUM
ES12	HYDROGEN VENT
ES16	FUEL CELL

LEGEND

ZONE 0 — ZONE 1

ZONE 2 — ES EMISSION SOURCES

REFERENCE DOCUMENTS

123A90-DDL-PP-DS-70070	PLOT PLAN - LOWER & UPPER DECK
123A90-DDL-PP-DS-70071	PLOT PLAN - BELOW LOWER DECK

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	15/01/24	MMA	CCA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	27/08/24	MMA	CCA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	08/02/24	MMA	CCA	DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND

ROSETTI MARINO

TITLE :
BASE LOAD POWER HUB (BLPH)
HAZARDOUS AREA CLASSIFICATION
ELEVATION LOOKING NORTH & EAST

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK			SCALE 1:150
DRAWN M. MAGNI	CHECKED C. CARACCIOLO	APPROVED D. LO STERZO	DATE 03/07/24

A1 | DRAWING NO. 123A90-DDL-SAF-DL-30024 | SHEET 001 | REV. 02

File Name : 123A90-DDL-SAF-DL-30024 Rev.02

ITEM	Tag	ELF-200N1-02-L1-07 : NORMAL LIGHT		Dwg	123A90-DDL-EL-DL-20118
	S/Sys	83-40 : Normal Lighting Upper Deck		Module	UD
TASK	code	C10001663	Location: Onshore Activities	User	Rosetti Marino Quality Control
FORM	Process	MC	Activity: CCK / Discipline: ATEX / Form: CJX01		Hazardous Area Equipment Detailed Inspection

Schedule Ref. #				**Area Code**					
Area Class Drawing	123A90-DDL-SAF-DL-30022			**Serial No.**	24/86772				
Manufacturer	Cortem Spa			**Model**	LIFEX-ME-0645-BB				
Cert No.	CML 20 ATEX 3018X			**Equipment Ambient Temp.**	-60°C to +50°C				
Area Classification	Hazardous	**Zone**	2	**Gas group**	IIC	**Temp class**	T1		
Equipment Protection Type	Ex db	**EPL**	Gb	**Gas group**	IIC	**Temp class**	T4	**IP Rating**	IP66

Detailed Note:

1) Inspection shall only be performed by competent personnel

2) All fields are to be completed. Any non-applicable field shall state “NA”. Comments are required for ‘Failure’ column ONLY.

3) An Inspection Sheet should be completed for EACH individual item of Equipment.

	General Equipment	Detailed	OK/NA/PL	Comments
1	Equipment is appropriate to the EPL / Zone requirements of the area	x	OK	
2	Equipment group is correct	x	OK	
3	Equipment temperature class is correct	x	OK	
4	Degree of IP protection of equipment is appropriate for the level of protection	x	OK	
5	Equipment circuit identification is correct	x	PL	
6	Equipment circuit identification is available	x	NA	
7	Enclosure glass parts and glass-to-metal sealing gaskets and / or compounds are satisfactory	x	OK	
8	There is no damage or unauthorized modifications	x	PL	
9	There is no evidence of unauthorized modifications	x	OK	
10	Bolts, cable entry devices (direct and indirect) & blanking elements are of the correct type, are complete & tight		NA	
	Physical check	x	PL	
11	Threaded covers on enclosures are of the correct type, are tight and secured		NA	
	Physical check	x	NA	
12	Joint surfaces are clean and undamaged and gaskets, if any, are satisfactory and positioned correctly	x	OK	
13	Condition of enclosure gaskets is satisfactory	x	OK	
14	There is no evidence or ingress of water or dust in the enclosure in accordance with the IP rating	x	OK	
15	Electrical connections are tight	x	OK	
16	Bridging links do not reduce creepage / clearance and are allowed	x	OK	
17	Unused terminals are tightened	x	OK	
18	Encapsulated components are undamaged	x	NA	
19	Flameproof components are undamaged	x	NA	
20	Fluorescent lamps are not indicating EOL effects (only for Ex “e” – Ex “n” – Ex “t”)	x	NA	
21	HID lamps are not indicating EOL effects	x	NA	
22	Lamp type, rating, pin configuration and position are correct	x	OK	
23	Breathing and drainage devices are satisfactory	x	NA	
24	Type of cable is appropriate	x	OK	
25	There is no obvious damage to the cables	x	OK	
26	Cable glands are the correct type and installed correctly	x	OK	
27	Sealing of trunking, ducts, pipes and or conduits is satisfactory	x	OK	
28	Stopping boxes and cable boxes are corrected filled	x	OK	

ITEM	Tag	ELF-200N1-02-L1-07	: NORMAL LIGHT			Dwg	123A90-DDL-EL-DL-20118
	S/Sys	83-40	: Normal Lighting Upper Deck			Module	UD
TASK	code	C10001663		Location	Onshore Activities	User	Rosetti Marino Quality Control
FORM	Process	MC	Activity CCK	Discipline	ATEX	Form	CJX01 Hazardous Area Equipment Detailed Inspection

29	Integrity of conduit system and interface with mixed system maintained	x	NA	
30	Earthing connections, including any supplementary earthing bonding connections are satisfactory (for example connections are tight and conductors are of sufficient cross-section		NA	
	Physical check	x	PL	
31	Automated electric protective devices operate within permitted limits	x	NA	
32	Special conditions (if applicable) have been complied with.	x	OK	
33	All cable cores are uniquely labeled	x	OK	
34	Cable cores not in use are correctly terminated	x	NA	
35	Equipment is adequately protected against corrosion, weather, vibration and other adverse factors	x	OK	
36	No undue accumulation of dust and dirt	x	OK	
37	All equipment housings are clean and dry	x	OK	
38	All moving parts are free and have no mechanical damage	x	NA	
	Applicable for Installation of Heating Systems			
39	Temperature sensors function according to manufacturer's documents (only applicable for Ex-d e Ex-e)	x	NA	
40	Safety cut off devices function according to manufacturer's documents (only applicable for Ex-d e Ex-e)	x	NA	
41	The setting of the safety cut off is sealed (only applicable for Ex-d e Ex-e)	x	NA	
42	Reset of a heating system safety cut off possible with tool only(only applicable for Ex-d e Ex-e)	x	NA	
43	Auto-reset is not possible (only applicable for Ex-d e Ex-e)	x	NA	
44	Reset of a safety cut off under fault conditions is prevented (only applicable for Ex-d e Ex-e)	x	NA	
45	Safety cut off independent from control system (only applicable for Ex-d e Ex-e)	x	NA	
46	Level switch is installed and correctly set, if required (only applicable for Ex-d e Ex-e)	x	NA	
47	Flow switch is installed and correctly set, if required (only applicable for Ex-d e Ex-e)	x	NA	
	Extra Ex d checks			
48	Obstructions adjacent to flame proof flanged joints are in accordance with IEC 60079-14	x	NA	
49	Ex d conduits seals are fitted to all conduits and satisfactorily sealed	x	NA	
50	Cable glands are of the correct type and installed correctly	x	OK	
51	Adaptors, reducers, stop ends, etc. are all certified Ex d	x	OK	
52	Flame path are clean and undamaged	x	OK	
53	Flange gap dimensions are within tolerances	x	NA	
54	Motor fans have sufficient clearance to the enclosure and/or covers, cooling systems are undamaged, motor foundations have no indentations or cracks	x	NA	
55	The ventilation airflow is not impeded	x	NA	
56	Insulation resistance (IR) of the motor windings is satisfactory	x	NA	
57	Fault loop impedance (TN systems) or earthing resistance (IT systems) is satisfactory	x	NA	
58	Variable voltage/frequency installation complies with documentation	x	NA	
	Extra Ex e checks			
59	All Equipment is Ex e certified (including components within enclosure)	x	NA	
60	Power conductors are not bunched together causing possible hot spots	x	NA	
61	Motor fans have sufficient clearance to the enclosure and/or covers, cooling systems are undamaged, motor foundations have no indentations or cracks	x	NA	
62	Insulation resistance (IR) of the motor windings is satisfactory	x	NA	
63	Fault loop impedance (TN systems) or earthing resistance (IT systems) is satisfactory	x	NA	
64	The ventilation airflow is not impeded	x	NA	
65	Motor protection devices operate within the permitted tE or tA time limits.	x	NA	
66	Variable voltage/frequency installation complies with documentation	x	NA	

ITEM	Tag	ELF-200N1-02-L1-07	: NORMAL LIGHT			Dwg	123A90-DDL-EL-DL-20118
	S/Sys	83-40	: Normal Lighting Upper Deck			Module	UD
TASK	code	C10001663		Location	Onshore Activities	User	Rosetti Marino Quality Control
FORM	Process	MC	Activity CCK	Discipline	ATEX	Form	CJX01
							Hazardous Area Equipment Detailed Inspection

	Extra Ex n (nR, nL) checks				
67	All Terminals are Ex n certified (if required on certificate)	x	NA		
68	Hermetically sealed and enclosed break devices are undamaged	x	NA		
69	Restricted breathing properties satisfactory (conduct vacuum test)	x	NA		
70	Test port, if fitted, is functional (type “nR” only)	x	NA		
71	Breathing operation is satisfactory (type “nR” only)	x	NA		
72	Motor fans have sufficient clearance to the enclosure and/or covers, cooling systems are	x	NA		
73	The ventilation airflow is not impeded	x	NA		
74	Insulation resistance (IR) of the motor windings is satisfactory	x	NA		
75	Motor protection devices operate within the permitted tE or tA time limits.	x	NA		
76	Variable voltage/frequency installation complies with documentation	x	NA		
	Extra Ex p checks				
77	Pressurization gas is correct type	x	NA		
78	Actual pressure is within maximum and minimum settings for equipment	x	NA		
79	Timers set as per certification documentation	x	NA		
80	Alarms and trip functions operate correctly as per certification documentation	x	NA		
81	Fault loop impedance (TN systems) or earthing resistance (IT systems) is satisfactory	x	NA		
82	Automatic electrical protective devices operate within permitted limits	x	NA		
83	Automatic electrical protective devices are set correctly	x	NA		
84	Protective gas inlet temperature is below maximum specified	x	NA		
85	Ducts, pipes and enclosures are in good condition	x	NA		
86	Protective gas is substantially free from contaminants	x	NA		
87	Protective gas pressure and/or flow is adequate	x	NA		
88	Pressure and/or flow indicators, alarms and interlocks function correctly	x	NA		
89	Conditions of spark and particle barriers of ducts for exhausting the gas in hazardous area are satisfactory	x	NA		
90	Specific conditions of use (if applicable) are complied with		NA		
	Extra Ex i (Intrinsically Safe – IS) checks				
91	Equipment has adequate circuit identification for ‘IS’ Installation	x	NA		
92	Cables are installed in accordance with the documentation	x	NA		
93	Segregation is maintained between IS and non-IS Circuits	x	NA		
94	Cable screens are isolated at one end (field side)	x	NA		
95	Cable screens are earthed in accordance with the documentation	x	NA		
96	Safety barrier units, relays and other energy limiting devices are of the approved type, installed in	x	NA		
97	Equipment installed is the one specified in the documentation	x	NA		
98	Ambient temperature range of the apparatus is correct for the installation	x	NA		
99	Service temperature range of the apparatus is correct for the installation	x	NA		
100	Installation is clearly labelled	x	NA		
101	Printed circuit boards are clean and undamaged	x	NA		
102	The maximum voltage Um of the associated apparatus is not exceeded	x	NA		
103	Point-to-point connections are all correct	x	NA		
104	Earth continuity is satisfactory (e.g. connections are tight, conductors are of sufficient cross-section)	x	NA		
105	Earth connections maintain the integrity of the type of protection	x	NA		
106	Intrinsically safe circuit earthing is satisfactory	x	NA		
107	Insulation resistance is satisfactory	x	NA		
108	Short-circuit protection of the power supply is in accordance with the documentation	x	NA		

	BARRIER:	**Manufacturer:**	NA	**Model:**	NA		
		Authority:	NA	**Cert No:**	NA	**Type:**	NA

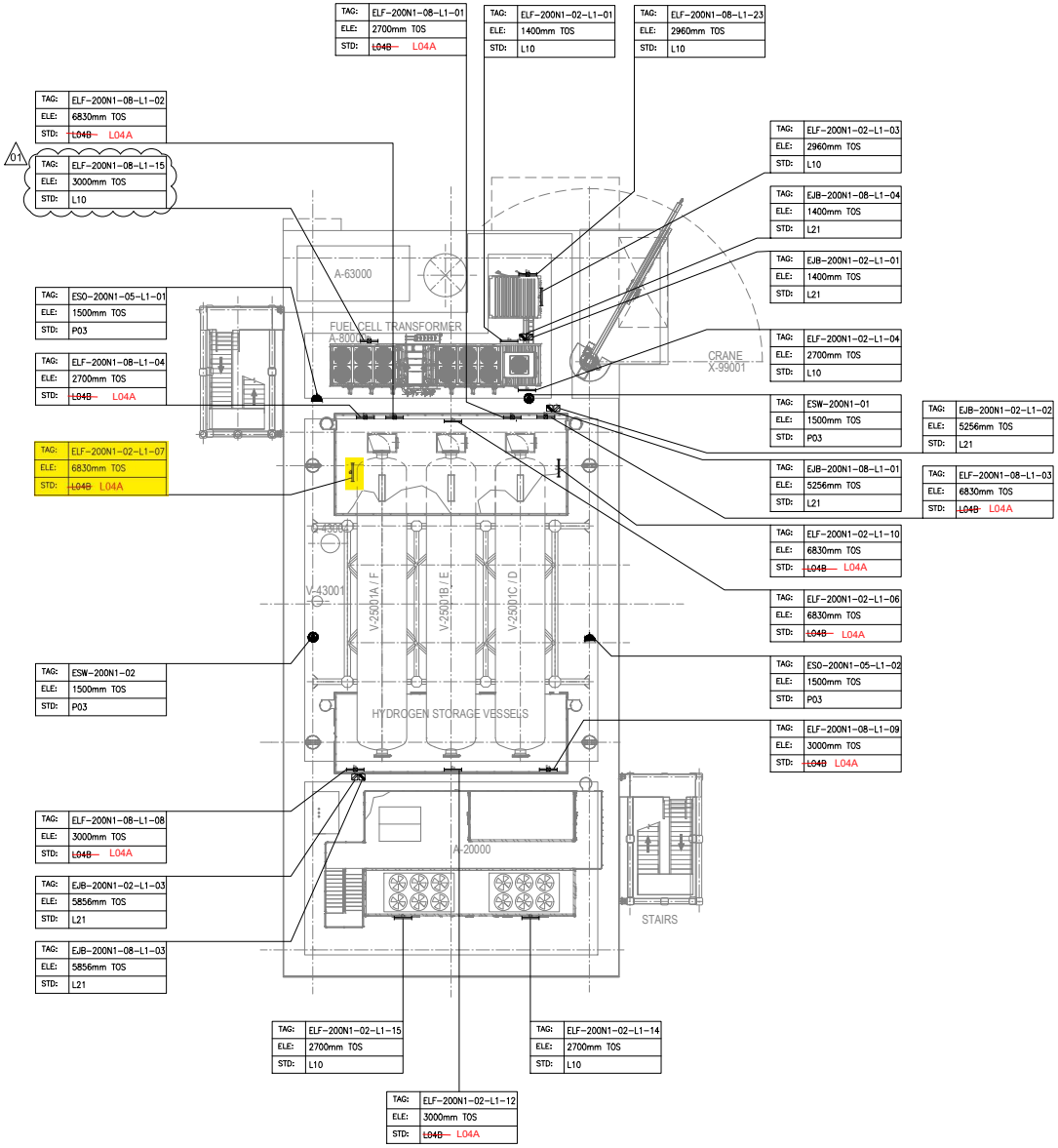
Remarks: Initial inspection should be detailed and carried out before equipment is brought into service as per IEC 60079-17

Please mark only one box as appropriate	
●	**Passed - Complete**
	Failed

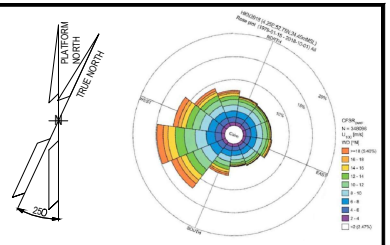
	Performed by	☐ WITNESS ☐ REVIEW	☐ WITNESS ☐ REVIEW
Company	ICS IMPIANTI	RM(ROSETTI MARINO)	
Name	Michele Tartaglia	Andrea Andreani	
Date	2025-01-08	2025-01-15	
Signature	PROVERLIS Digitaly signed by Michele Tartaglia 2025-01-08T10:02:41.142Z	PROVERLIS Digitaly signed by Andrea Andreani 2025-01-15T16:46:06.507Z	

DRAWING NO. 123A90-DDL-EL-DL-20118

REV. 01



PLAN ON UPPER DECK
EL+30.310 T.O.S.



NOTES

1. ALL DIMENSIONS AND ELEVATIONS ARE GIVEN IN mm UNLESS OTHERWISE NOTED.
2. ELEVATIONS REFER TO T.O.S.
3. ELEVATION OF THE LAMPS ARE REFFERED TO THE BOTTOM OF THE LAMP.
4. FOR THE ELEVATION OF JB, REFER TO THE TYPICAL INSTALLATION.

LEGEND

- EMERGENCY LIGHTING JB
- 60W LED EMERGENCY LUMINARIES
- 60W LED EMERGENCY LUMINARIES FIXTURE POLE MOUNTED
- NORMAL LIGHTING JB
- 45W LED NORMAL LUMINARIES
- 45W LED NORMAL LUMINARIES FIXTURE POLE MOUNTED
- WELDING SOCKET WITH INTEGRATED JB
- SMALL POWER SOCKET WITH INTEGRATED JB

JB TAG:	JB-TAG
TAG:	TAG
ELE:	ELEVATION
STD:	STANDARD

REFERENCE DOCUMENTS

123A90-DDL-PP-DL-70070	PLOT PLAN - LOWER & UPPER DECK
123A90-DDL-EL-DL-20100	ELECTRICAL EQUIPMENT LAYOUT - TOP DECK
123A90-DDL-EL-DD-20091	ELECTRICAL TYPICAL INSTALLATION DETAILS - LIGHTING SYSTEM
123A90-DDL-EL-DD-20092	ELECTRICAL TYPICAL INSTALLATION DETAILS - POWER SYSTEM & CABLE INSTALLATION
123A90-DDL-EL-RE-20153	LIGHTING CALCULATION STUDY REPORT
123A90-DDL-ST-DD-90076	IDENTIFICATION PANELS ASSEMBLY AND DETAILS

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	02/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	28/05/24	ASR	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

VALID FOR CONSTRUCTION
FDL DWG: 123A90-FDL-EL-DL-20118

REV.:	DATE:	SIGNATURE:
1_F	26/11/24	G.Randi

ROSETTI MARINO SpA

CROSSWIND

ROSETTI MARINO

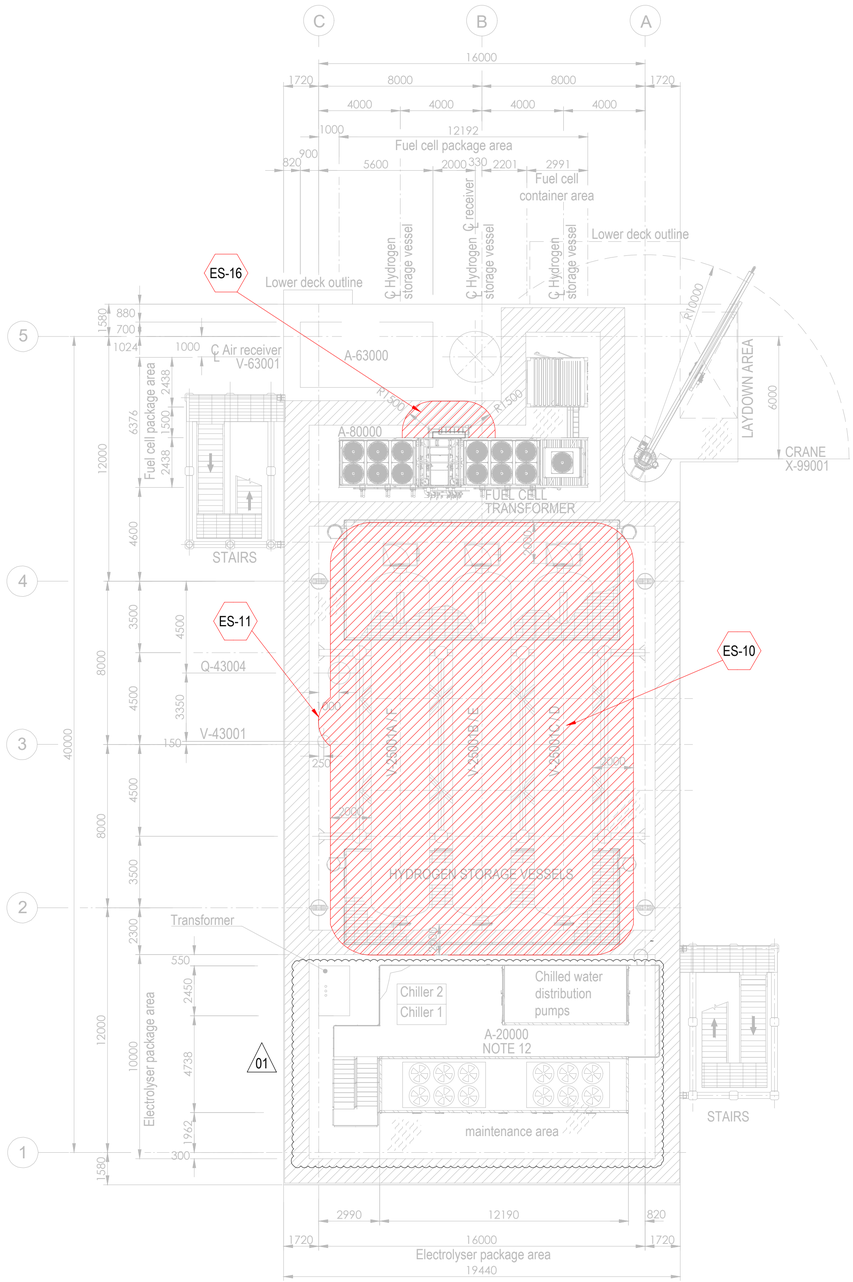
TITLE : BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET LAYOUT – TOP DECK

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK			SCALE 1:150
DRAWN ASR	CHECKED FMA/AMA	APPROVED FPA/DLO	DATE 01/08/24
A1	DRAWING NO. 123A90-DDL-EL-DL-20118	SHEET 2of2	REV. 01

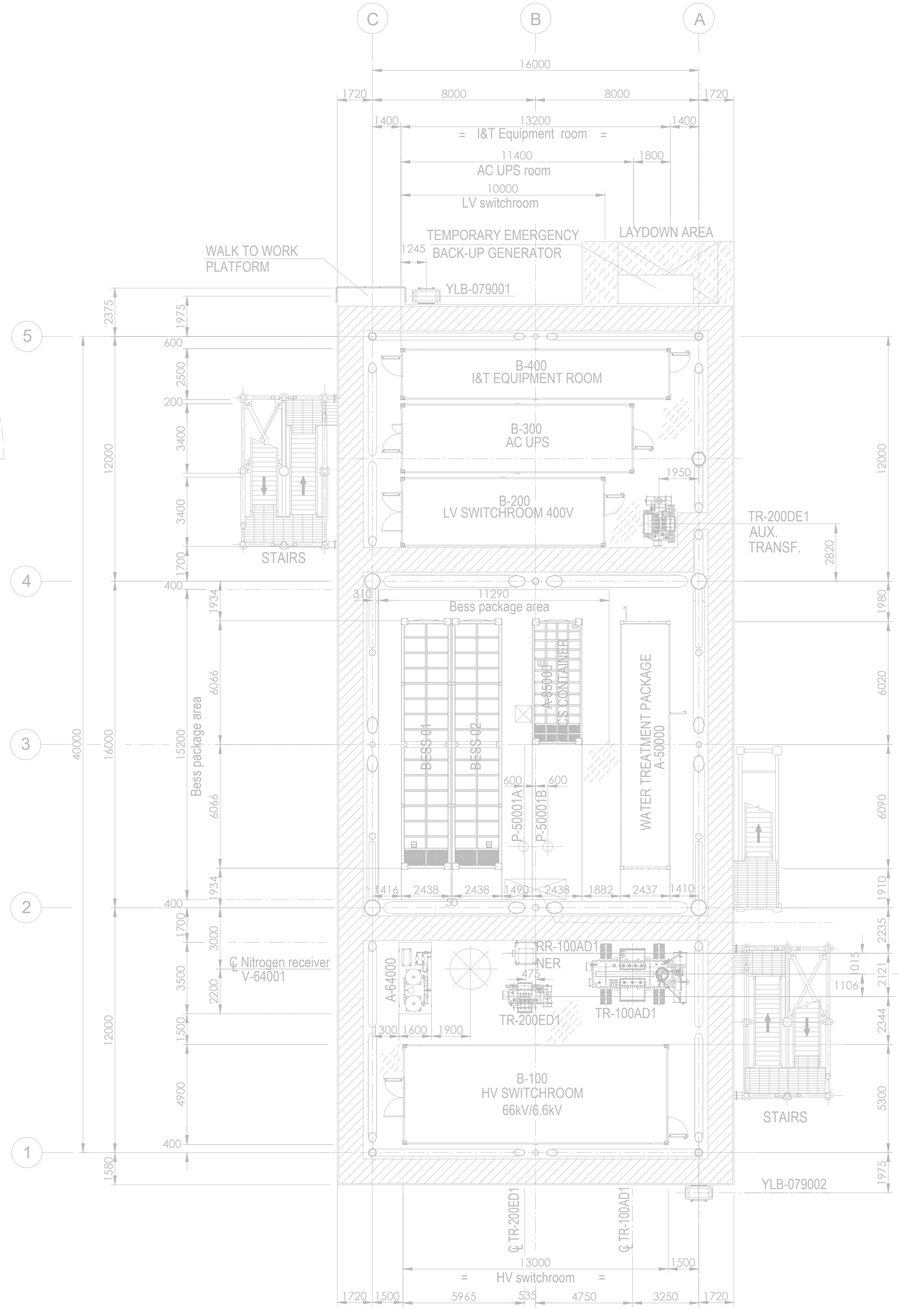
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DRAWING NO. 123A90-DDL-SAF-DL-30022

REV. 01



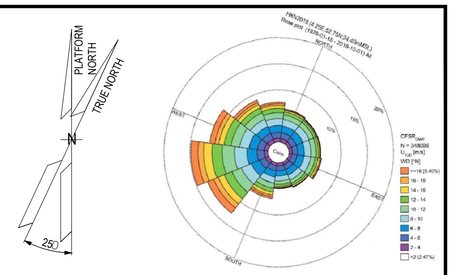
PLAN ON UPPER DECK
EL+30.310 T.O.S.



PLAN ON LOWER DECK
EL+23.310 T.O.S.

Tag No.	Equipment Tag	Description	Material	Ventilation Type
01	P-50001 A/B	SEA WATER LIFT PUMPS	SEA WATER	NATURAL (OPEN AREA)
02	Q-43004	HYDROGEN VENT	HYDROGEN	NATURAL (OPEN AREA)
03	V-43001	HYDROGEN VENT KO DRUM	HYDROGEN	NATURAL (OPEN AREA)
04	V-25001 (A/B/C/D/E/F)	HYDROGEN STORAGE VESSELS	HYDROGEN	NATURAL (OPEN AREA)
05	V-63001	AIR RECEIVER	INSTRUMENT AIR	NATURAL (OPEN AREA)
06	A-20000	ELECTROLYSER PACKAGE		
07	A-63000	INSTRUMENT AIR PACKAGE		
08	A-80000	FUEL CELL PACKAGE		
09	A-85000	BESS PACKAGE		
10	YLB-079001/2	LIFE RAFTS		
11	A-50000	WATER TREATMENT PACKAGE		

Tag No.	Equipment Tag	Description	Material	Ventilation Type
12	A-64000	NITROGEN SYSTEM		
13	B-100	HV SWITCHROOM 66kV/6.6kV		
14	B-200	LV SWITCHROOM 400V		
15	B-300	AC UPS EQUIPMENT ROOM		
16	B-400	I&T EQUIPMENT ROOM		
17	TR-100AD1	TRANSFORMER MAIN 66kV/6.6kV		
18	RR-100AD1-NER	NEUTRAL EARTHING RESISTOR		
19	TR-200DE1	TRANSFORMER AUX. 6.6kV/0.4kV		
20	TR-200ED1	SOLAR TRANSFORMER PV FARM EQUIPMENT		
21	X-99001	CRANE		
22	V-64001	NITROGEN RECEIVER		



1. ALL DIMENSIONS IN mm U.N.O
2. ALL ELEVATIONS IN METERS.
3. PLATFORM NORTH DIRECTION IS N 25°W.
4. VENT TOP SHALL BE REACHEABLE FOR MAINTENANCE PURPOSE.
5. THE BESS IS CONSIDERED SAFE AREA EXCEPT EXTRACTORES FROM BATTERIES , CURRENTLY NOT SHOWN IN DRAWINGS, SINCE INFORMATION FROM VENDOR IS NOT YET AVAILABLE.[ES17]
6. THE LOCATION OF EMISSION SOURCES ON THE LAYOUT ARE ONLY INDICATIVE. EMISSION SOURCES CONSIDERED ARE PRESENT WITHIN THE EXTENSION OF HAZARDOUS CLASSIFIED AREAS SHOWN ON THE LAYOUT. THIS IS BECAUSE VALVES AND FLANGES,WHICH ARE CONSIDERED POTENTIAL SOURCES OF RELEASE POINTS FOR FLAMMABLE GAS ARE NOT SHOWN ON CURRENT LAYOUT PROVIDED. THE SAME APPLIES TO THE EMISSION SOURCES FOR CPI'S ITEM.
7. IDENTIFIED EMISSION SOURCES DETAIL

EMISSION SOURCE No.	IDENTIFIED AREAS
ES10	HYDROGEN STORAGE VESSLES
ES11	HYDROGEN VENT KO DRUM
ES16	FUEL CELL

01

ZONE 0 | ZONE 1 | ZONE 2 | ES EMISSION SOURCES

01

01

123A90-DDL-PP-DS-70071	PLOT PLAN - BELOW LOWER DECK
123A90-DDL-PP-DS-70072	PLOT PLAN - ELEVATION LOOKING NORTH & EAST

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	27/08/24	MMA	CCA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	08/02/24	MMA	CCA	DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND

ROSETTI MARINO

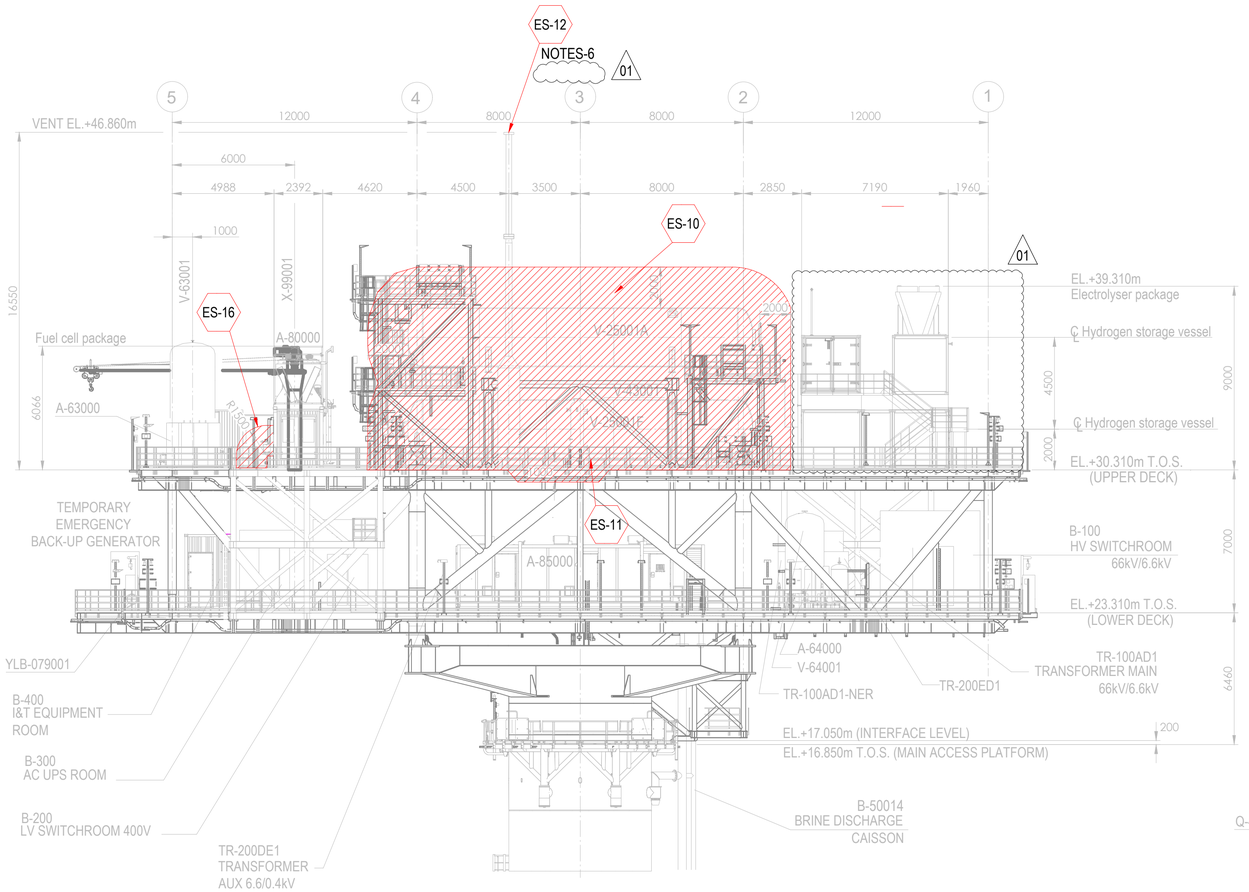
TITLE : BASE LOAD POWER HUB (BLPH)
HAZARDOUS AREA CLASSIFICATION
LOWER & UPPER DECK

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK		SCALE 1:150
DRAWN M. MAGNI	CHECKED C. CARACCIOLO	APPROVED D. LO STERZO	DATE 03/07/24
A1	DRAWING NO. 123A90-DDL-SAF-DL-30022	SHEET 001	REV. 01

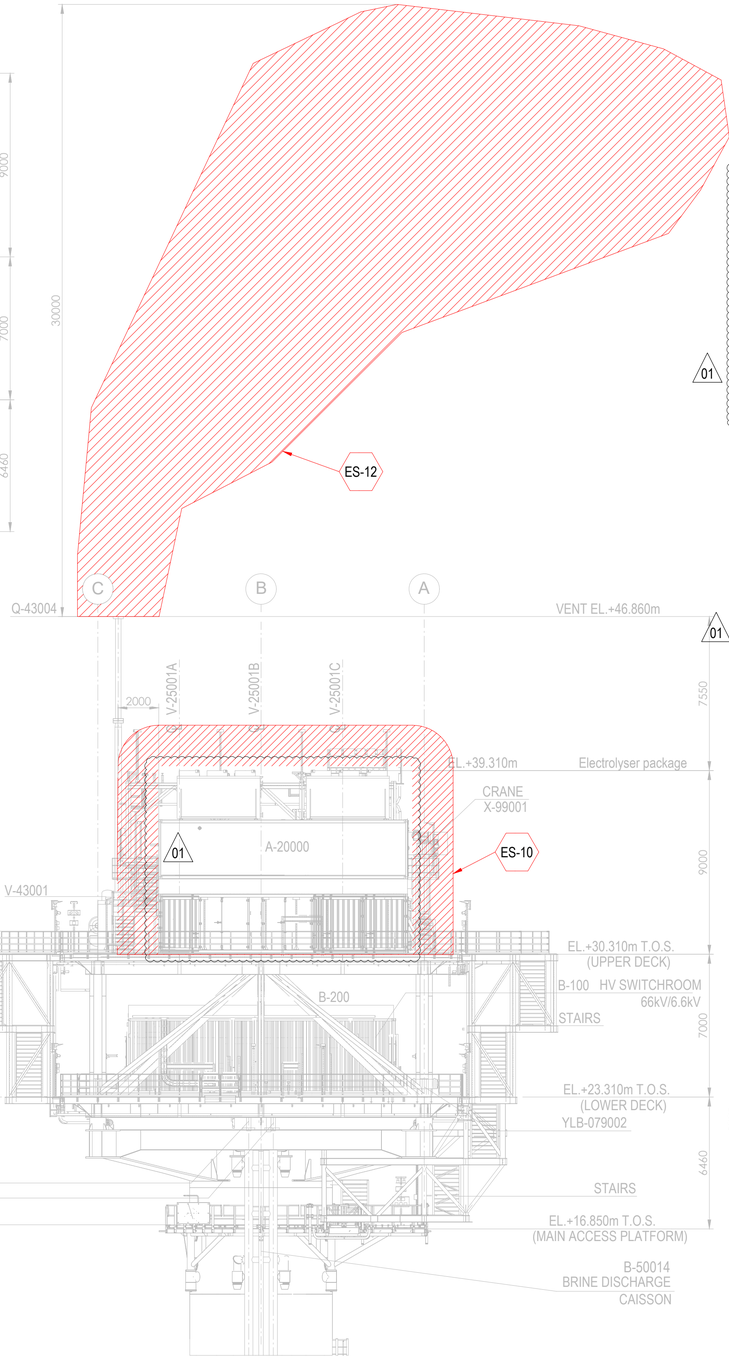
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DRAWING NO. 123A90-DDL-SAF-DL-30024

REV. 01



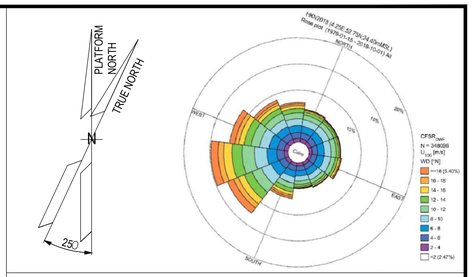
ELEVATION LOOKING EAST



ELEVATION LOOKING NORTH

01

Tag No.	Equipment Tag	Description	Material	Ventilation Type
01	P-50001 A/B	SEA WATER LIFT PUMPS	SEA WATER	NATURAL (OPEN AREA)
02	Q-43004	HYDROGEN VENT	HYDROGEN	NATURAL (OPEN AREA)
03	V-43001	HYDROGEN VENT KO DRUM	HYDROGEN	NATURAL (OPEN AREA)
04	V-25001 (A/B/C/D/E/F)	HYDROGEN STORAGE VESSELS	HYDROGEN	NATURAL (OPEN AREA)
05	V-63001	INSTRUMENT AIR RECEIVER	INSTRUMENT AIR	NATURAL (OPEN AREA)
06	A-20000	ELECTROLYSER PACKAGE		
07	A-63000	INSTRUMENT AIR PACKAGE		
08	A-80000	FUEL CELL PACKAGE		
09	A-85000	BESS PACKAGE		
10	YLB-079001/2	LIFE RAFTS		
11	B-100	HV SWITCHROOM 66kV/6.6kV		
12	B-200	LV SWITCHROOM 400V		
13	B-300	AC UPS EQUIPMENT ROOM		
14	B-400	I&T EQUIPMENT ROOM		
15	TR-100AD1	TRANSFORMER MAIN 66kV/6.6kV		
16	TR-100AD1-NER	NEUTRAL EARTHING RESISTOR		
17	TR-200DE1	TRANSFORMER AUX. 6.6kV/0.4kV		
18	TR-200ED1	SOLAR TRANSFORMER PV FARM EQUIPMENT		
19	X-99001	CRANE		
20	V-64001	NITROGEN RECEIVER		



NOTES

1. ALL DIMENSIONS IN mm U.N.O
2. ALL ELEVATIONS IN METERS.
3. PLATFORM NORTH DIRECTION IS N 25°W.
4. VENT TOP SHALL BE REACHEABLE FOR MAINTENANCE PURPOSE.
5. THE BESS IS CONSIDERED SAFE AREA EXCEPT EXTRACTORES FROM BATTERIES , CURRENTLY NOT SHOWN IN DRAWINGS, SINCE INFORMATION FROM VENDOR IS NOT YET AVAILABLE.[ES17]
6. (ES12) IS SHOWN ONLY ON ELEVATION LOOKING NORTH ON THIS LAYOUT
7. THE LOCATION OF EMISSION SOURCES ON THE LAYOUT ARE ONLY INDICATIVE. EMISSION SOURCES CONSIDERED ARE PRESENT WITHIN THE EXTENSION OF HAZARDOUS CLASSIFIED AREAS SHOWN ON THE LAYOUT. THIS IS BECAUSE VALVES AND FLANGES,WHICH ARE CONSIDERED POTENTIAL SOURCES OF RELEASE POINTS FOR FLAMMABLE GAS ARE NOT SHOWN ON CURRENT LAYOUT PROVIDED. THE SAME APPLIES TO THE EMISSION SOURCES FOR CPI'S ITEM.
8. IDENTIFIED EMISSION SOURCES DETAIL

EMISSION SOURCE No.	IDENTIFIED AREAS
ES10	HYDROGEN STORAGE VESSLES
ES11	HYDROGEN VENT KO DRUM
ES12	HYDROGEN VENT
ES16	FUEL CELL

01

LEGEND

ZONE 0 | ZONE 1 | ZONE 2 | ES EMISSION SOURCES

01

REFERENCE DOCUMENTS

123A90-DDL-PP-DS-70070	PLOT PLAN - LOWER & UPPER DECK
123A90-DDL-PP-DS-70071	PLOT PLAN - BELOW LOWER DECK

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	27/08/24	MMA	CCA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	08/02/24	MMA	CCA	DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND | ROSETTI MARINO

TITLE :
BASE LOAD POWER HUB (BLPH)
HAZARDOUS AREA CLASSIFICATION
ELEVATION LOOKING NORTH & EAST

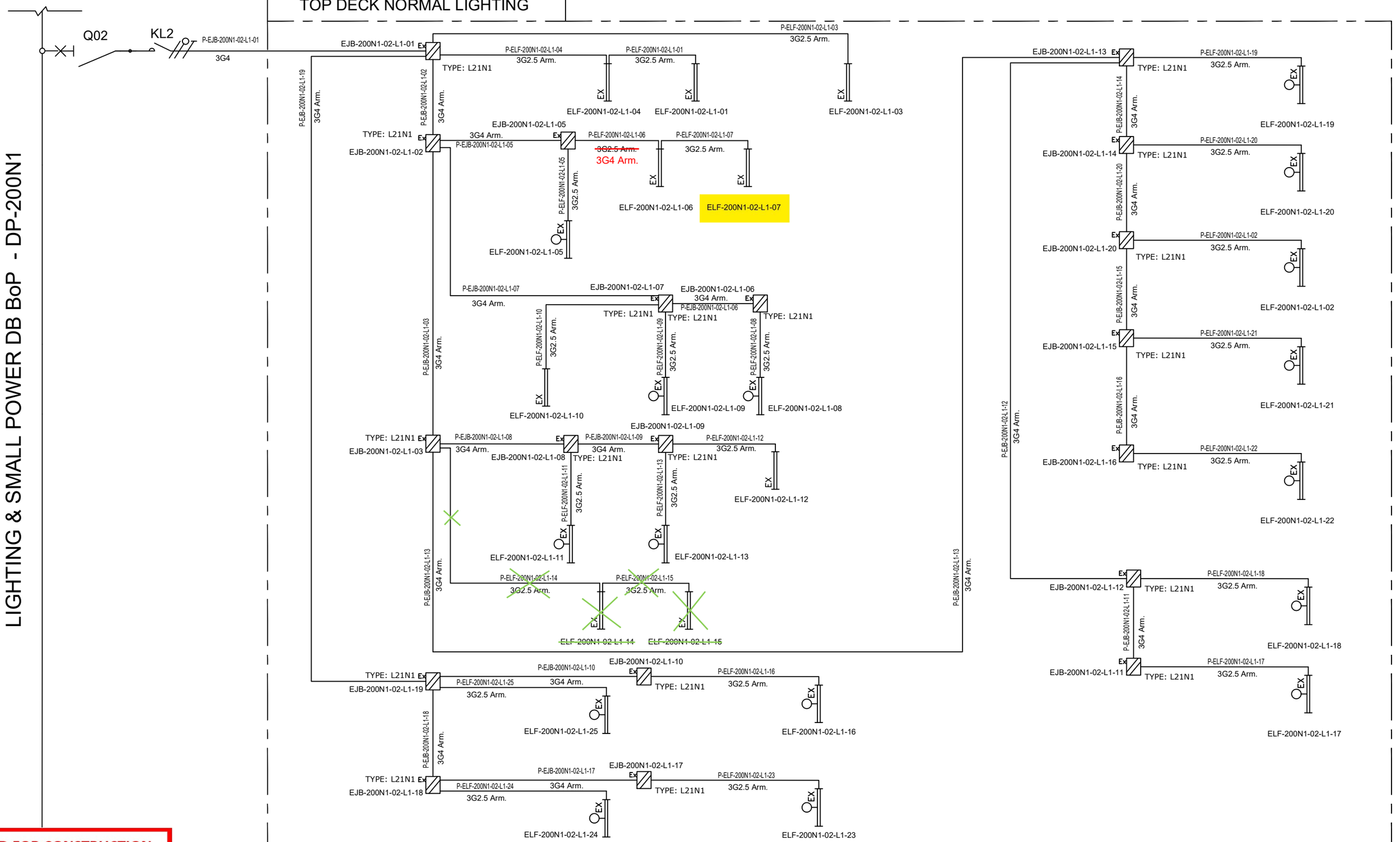
CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK			SCALE 1:150
DRAWN M. MAGNI	CHECKED C. CARACCIOLO	APPROVED D. LO STERZO	DATE 03/07/24

A1	DRAWING NO. 123A90-DDL-SAF-DL-30024	SHEET 001	REV. 01

File Name : 123A90-DDL-SAF-DL-30024 Rev.01

LIGHTING & SMALL POWER DB BoP - DP-200N1

TOP DECK NORMAL LIGHTING



VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DG-20152**

REV.:	DATE:	SIGNATURE:
2_F	14/01/25	G.Randi

ROSETTI MARINO SpA

CROSSWIND

ROSETTI MARINO

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	08/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	01/07/24	ASR	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

TITLE : BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET CIRCUIT DIAGRAM
TOP DECK–NORMAL LIGHTING

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE : NTS

A3

DRAWING NO. 123A90–DDL–EL–DG–20125

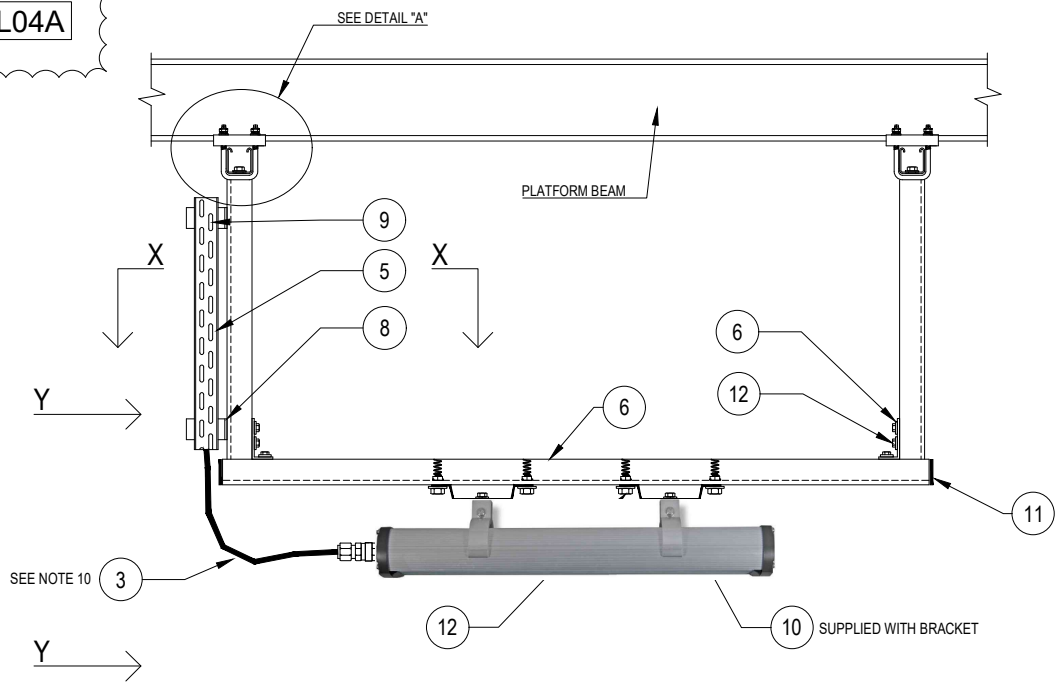
SHEET 010

REV. 01

F.to UNI A3: 420mmx297mm

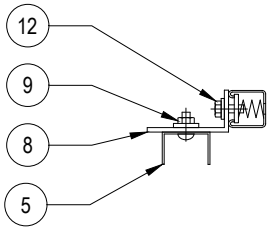
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L04A

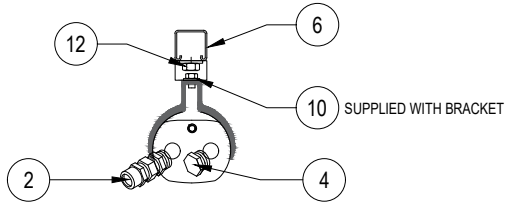


POS.	DESCRIPTION	MATERIAL	SIZE	Q.TY	NOTE
1	LIGHITNG FIXTURE (Ex e) WITH LED LAMP	ALUMINIUM ALLOY		1	
2	CABLE GLAND (Ex) FOR ARMOURED/UNARMOURED CABLE	NICK.PL.BRASS		1	NOTE 2 NOTE 5
3	ARMOURED/UNARMOURED CABLE				NOTE 5
4	PLUG	NICK.PL.BRASS		AS REQ.	NOTE 3
5	CABLE LADDER OR PERFORATED TRAY	AISI 316L		AS REQ.	
6	SINGLE U-CHANNEL PERFORATED ON NO. 3 SIDE	AISI 316L	41x41x2	AS REQ.	
7	SINGLE U-CHANNEL BEAM ATTACHMENT (10-14) OR (15-19) WITH COLLAR COMPLETE WITH HARDWARE	AISI 316L		2	NOTE 4
8	PLATE FOR ORTHOGONAL-TRASVERSAL CONNECTION (3 HOLES)	LPDE		4	
9	ROUND HEAD SCREW WITH SQUARE NECK COMPLETE WITH PLANE WASHER, SPRING WASHER AND NUT	AISI 316L			
10	HEX. BOLT M8X16 WITH LARGE PLANE WASHER	AISI 316L		2	
11	PLUG FOR U-CHANNEL	LPDE		2	
12	HEX. BOLT M10X30 WITH PLANE WASHER, NUT FOR U-CHANNEL AND SPRING	AISI 316L		2	

SECTION "X-X"

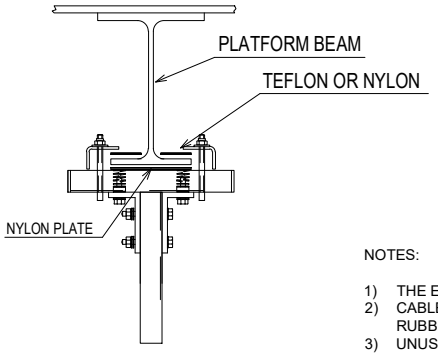


SECTION "Y-Y"

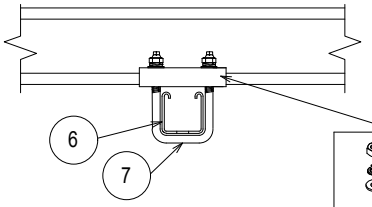


lighting fixture
Cortem LIFEX

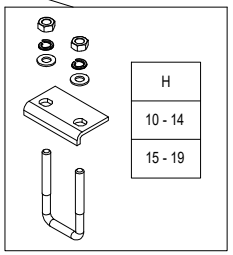
02



DETAIL "A"



VIEW "A"



NOTES:

1) THE EXACT DIMENSIONS WILL BE DEFINED DURING ASSEMBLY PHASE.
2) CABLE GLAND COMPLETE WITH LOCKNUT, NYLON WASHER, SERRATED WASHER, EXTERNAL RUBBER RING AND EARTH TAG (IF NECESSARY).
3) UNUSED CABLE ENTRIES MUST BE CLOSED WITH NICKEL PLATED BRASS PLUG.
4) SINGLE U-CHANNEL BEAM ATTACHMENT (CLAMP) IS PRODUCED IN NO. 2 DIFFERENT SIZES (10-14 OR 15-19) SIZE REFERS TO THE THICKNESS OF THE BEAM WHERE THE CLAMP IS INSTALLED.
5) FOR LAMPS IN HAZARDOUS AREA, USE ARMOURED CABLE, DOUBLE SEAL CABLE GLAND AND EX JUNCTION BOX.

VALID FOR CONSTRUCTION

REV.:	DATE:	SIGNATURE:
2_B	12/12/24	C.Pilato

ROSETTI MARINO SpA

CROSSWIND

ROSETTI MARINO

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	30/09/24	GRA	AMA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	04/07/24	NLK	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	21/11/23	SPS	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL TYPICAL INSTALLATION DETAILS–LIGHTING SYSTEM
FIXTURE SUSPENSION MOUNTED WITH U–CHANNEL SUPP.

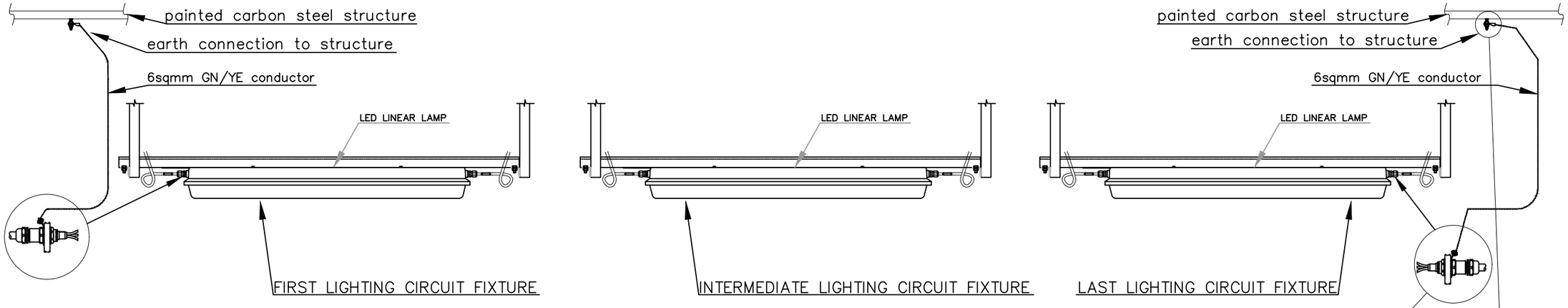
CONTRACT NO./TITLE CW–I–WP4–2023–05/HOLLANDSE KUST NOORD WIND PARK | SCALE : NTS

A3 | DRAWING NO. 123A90–DDL–EL–DD–20091 | SHEET 006 | REV. 02

F.to UNI A3: 420mmx297mm

File Name : 123A90-DDL-EL-DD-20091 REV.02.DWG

E32

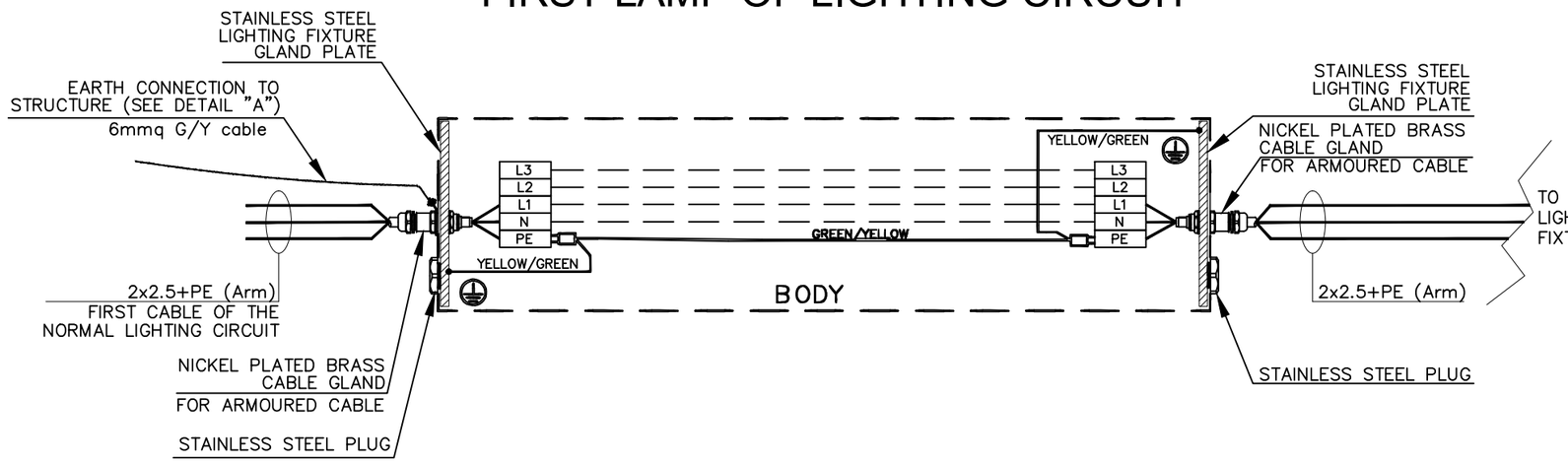


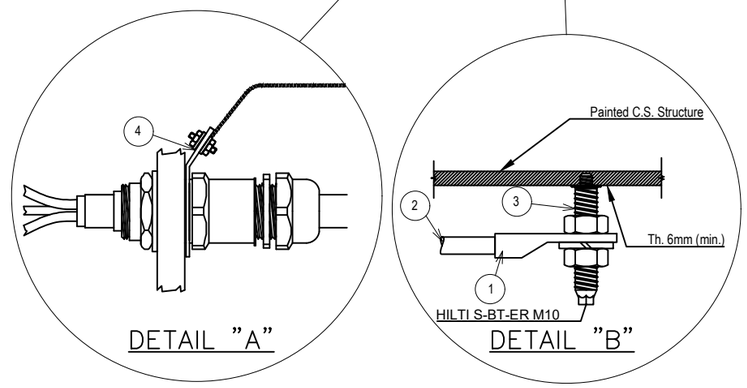
ONLY the first and the last lighting fixture of all circuits are connected to earthing system. The earthing continuity of the intermediate lighting fixtures of the circuits is guaranteed by the using of the first and the last lighting fixture earthing connection which is permanently connected to the earthing system as per the typical below.

Refer also to TYP. "E05" for Lighting Fixtures.

NORMAL LIGHTING CIRCUIT EARTHING CONTINUITY TYPICAL

FIRST LAMP OF LIGHTING CIRCUIT





POS.	DESCRIPTION	MATERIAL	SIZE	Q.TY	NOTE
1	COMPRESSION TYPE LUG FOR INSULATION COPPER CONDUCTOR	TINNED COPPER			
2	Y/G INSULATING COPPER CONDUCTOR		6sqmm	ASR	
3	HILTI S-BT-ER M10/15 SN6 C/W NUTS AND GROWER	AISI 316L	M10X28		NOTE 1
4	CABLE GLAND EARTH TAG	NPB	M20		

The same logic is used for the earthing continuity of Emergency Lighting Circuits. The above typical has been done to represent the Earthing Continuity of G/Y conductors, the correct connections of all conductors in the respective Terminal Strips are shown in doc. AR-FEN-10-ROEC-600132 Lighting and Socket Circuit Diagrams.

NOTES:
1) HILTI S-BT-ER M10/15 SN6 CERTIFIED FOR EARTHING SYSTEM FOR SINGLE EQUIPMENTS EARTHING CONNECTION.

VALID FOR CONSTRUCTION
FDL DWG: 123A90-FDL-EL-DD-20090
REV.: 2_I | DATE: 07/11/24 | SIGNATURE: G.Randi
ROSETTI MARINO SpA

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	26/08/24	GRA	AMA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	10/06/24	SPS	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	21/11/23	SPS	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL TYPICAL INSTALLATION DETAILS–EARTHING SYSTEM
EARTHING – OUTDOOR LINEAR LIGHTING FIXTURE

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK | SCALE : NTS

A3 | DRAWING NO. 123A90-DDL-EL-DD-20090 | SHEET 023 | REV. 02

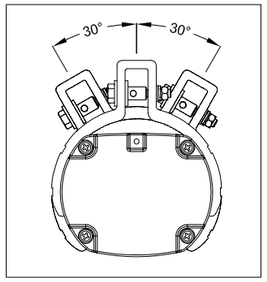
F.to UNI A3: 420mmx297mm

File Name : 123A90-DDL-EL-DD-20090 REV.02.DWG

MODEL C-225 REV.1

GENERAL NOTE:
- PO: 1724001290 DD 26/06/2024
- ITEM.: 1
- Q.TY: 57
- EXTERNAL PAINTING: RAL 7022 (END CAPS)
- INTERNAL PAINTING: NOT PAINTED
- ALL DIMENSIONS ARE IN mm

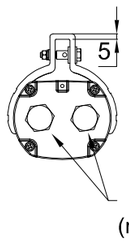
STANDARD FIXING BRACKET
FASTENING WITH 2 THREADED M8
HOLES, ADJUSTABLE FROM 0° TO ±30°



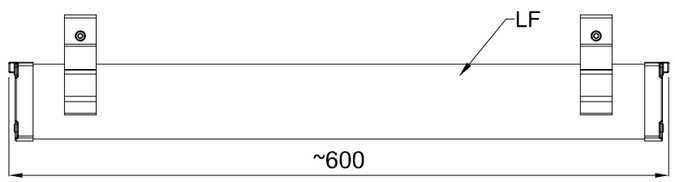
LF INFORMATION	
NOMINAL POWER	45W
CONSUMED POWER	43,5W
POWER FACTOR	>0,93
RATED CURRENT	200 mA
VIEWING ANGLE	120°
COLOUR TEMP.	5000 K
CRI	>80
INSTANT RESTRIKE	YES
LUMEN	6200 lm
LIGHT INTENSITY	2248 cd
EFFICIENCY	143 lm/W
WEIGHT	2,5 Kg
IP PROTECTION	IP66

N°	Q.TY	CODE	DESCRIPTION
LF	1	LIFEX-ME-0645-BB	110-277Vac 50-60Hz 45W LED LINEAR LIGHTING FIXTURE BODY: ALUMINUM ALLOY EXTRUSION AND ALUMINUM END CAPS TRANSPARENT PART: GLASS RESISTANT TO SHOCKS, UV RAYS AND IMPACT RESISTANCE IK09 GASKETS: ACID AND HYDROCARBON RESISTANT SILICONE ASSEMBLY: FASTENING BRACKETS FOR M8 HOLES, ADJUSTABLE 0° TO ±30° MADE IN ANODIZED ALUMINUM CONNECTION: TERMINAL BLOCK ON SIDE (IN) L, N, PE CROSS SEC. MAX. 4mmq SUITABLE FOR LOOP-IN LOOP-OUT SCREWS, BOLTS AND NUTS: STAINLESS STEEL 304
PG1	4	PLG1IB +DL1IB +RDI1IS/A4	IP66 Ex db IIC Gb - Ex eb IIC Gb NICKEL PLATED BRASS PLUG ISO M20x1,5 WITH RELEVANT LOCKNUT AND SERRATED WASHER MADE IN STAINLESS STEEL

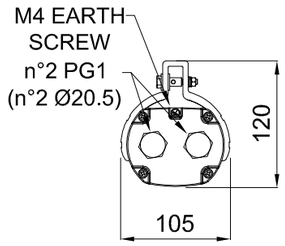
LEFT SIDE (OUT)



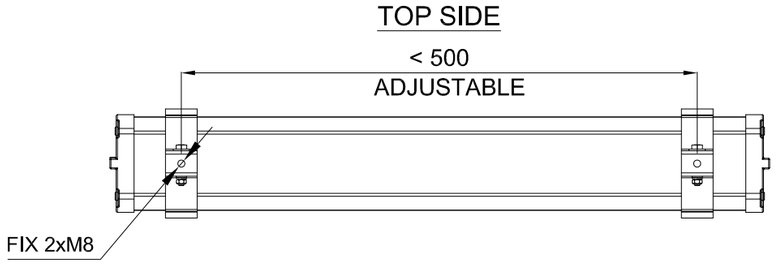
FRONT SIDE



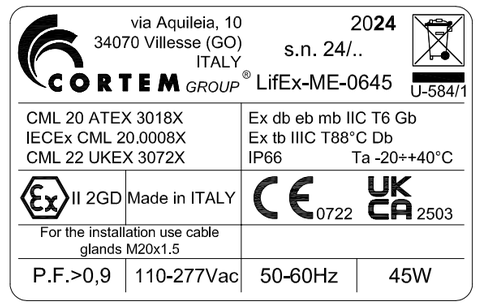
RIGHT SIDE (IN)



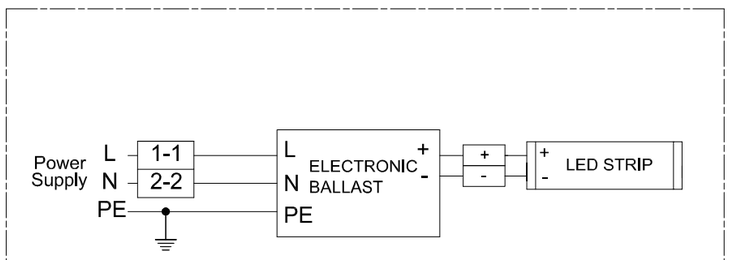
TOP SIDE



CERTIFICATE NAMEPLATE



WIRING DIAGRAM



REV.	DATE	PREP'D	CHK'D	APP'D	DESCRIPTION
2	09/07/2024	FRATTARUOLO	GIUSTI	GRATTON	REISSUED FOR APPROVAL
1	05/07/2024	FRATTARUOLO	GIUSTI	GRATTON	REISSUED FOR APPROVAL
0	28/06/2024	FRATTARUOLO	GIUSTI	GRATTON	ISSUED FOR APPROVAL

DRAWING TITLE: ROSETTI MARINO S.P.A.

CORTEM S.p.a.
GENERAL LAYOUT
001 LIFEX-ME-0645-BB/C2402693/10.

CORTEM JOB: COV2402693
DRAWING SCALE: /
DRAWING NUMBER: A3-C 27521
SHEET: 1
NEXT: 2
TOT.: 2

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Smart Professional R. 2012

Row	Data Sheet for Lighting Fixtures & Accessories				Rev.
1	42W LED Linear Luminaire-Normal Lighting-ATEX Area				
2	Item	Required	Manufacturer Proposal	Comments	
3	Model Number	by vendor	LIFEX-ME-0645-BB		01
4	Serial Number	by vendor			00
5	Quantity	28 Nos.		(25+3 Spare)	01
6	Location / Module	Upper deck			00
7	**LED Lamp**				
8	Nominal power	42 watts	45 watts		01
9	No. of linear	1	1		01
10	Luminous flux	5810 lm	6200 lm		01
11	Colour Temperature	5000 K	5000 K		01
12	**Protection**				
13	Hazardous Area Certification (Ex)	Zone 1 Gas Group IIC (or) IIB + H2, T1	Ex II 2GD Ex db eb mb IIC Gb Ex tb IIIC Db		01
14	Degree of Protection (IP)	IP 56	IP 66		01
15	ATEX certified	Classification EX db	ATEX CML 20 ATEX 3018X		01
16	**Material**				
17	Body	GRP/Aluminium alloy	Aluminium alloy		01
18	Reflector	GRP/Aluminium	Aluminium		01
19	Diffuser	Polycarbonate/temperate glass	Tempered glass		01
20	**Cable Entry**				
21	No. of cable entry	4 Nos.	4 Entries, 2 per side		01
22	Size	M20	Ø20.5mm		01
23	**Emergency Battery Pack**				
24	Requirement	Not required			00
25	Battery type	Not required			00
26	Autonomy	Not required			00
27	Emergency luminous flux	Not required			00
28	**Mechanical parameters**				
29	Dimension	by vendor	600x105x120(mm)		01
30	Weight	by vendor	2.5kg		01

Note:

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Its distribution is electronically controlled. Once printed shall be considered as "NOT CONTROLLED" copy

Tag Number	Tag Description	Location	P.O.	Vendor	Manufacturer	Serial Number	Model Type Catalogue Number	Installation Zone	ATEX Certificate Number	Reference Document	ATEX Certification Marking	Notes / Comments	Skid / Package	Electrical Equip.	Barrier Calculation Ref.	Special Conditions of Safe Use Applicable	3D Location
EJB-200N1-08-L1-07	Emergency Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990079	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-08-L1-08	Emergency Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990081	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-08-L1-09	Emergency Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990080	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-08-L1-10	Emergency Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990075	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-08-L1-11	Emergency Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990074	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-08-L1-12	Emergency Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990073	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-08-L1-14	Emergency Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990071	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-08-L1-15	Emergency Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990070	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-08-L1-16	Emergency Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990069	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-08-L1-17	Emergency Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990068	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-08-L1-18	Emergency Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990067	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-08-L1-19	Emergency Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990066	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-08-L1-20	Emergency Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990076	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-09-L2-01	Emergency Lighting JB	LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990016	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-09-L2-02	Emergency Lighting JB	LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990019	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-09-L2-04	Emergency Lighting JB	LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990017	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-09-L2-05	Emergency Lighting JB	LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990030	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-09-L2-06	Emergency Lighting JB	LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990029	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-09-L2-07	Emergency Lighting JB	LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990028	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
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EJB-200N1-09-L2-11	Emergency Lighting JB	LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990024	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-09-L2-12	Emergency Lighting JB	LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990023	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-09-L2-13	Emergency Lighting JB	LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990022	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-09-L2-14	Emergency Lighting JB	LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990021	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-09-L2-15	Emergency Lighting JB	LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990020	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-09-L2-16	Emergency Lighting JB	LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990031	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-09-L2-17	Emergency Lighting JB	BELOW LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990015	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-10-L3-01	Stair Emergency Lighting JB	LOWER & UPPER DECK STAIRS	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990040	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-10-L3-02	Stair Emergency Lighting JB	LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990039	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-10-L3-03	Stair Emergency Lighting JB	LOWER & UPPER DECK STAIRS	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990041	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-10-L3-04	Stair Emergency Lighting JB	LOWER & UPPER DECK STAIRS	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990042	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-10-L3-05	Stair Emergency Lighting JB	BELOW LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990034	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-10-L3-06	Stair Emergency Lighting JB	BELOW LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990035	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-10-L3-07	Stair Emergency Lighting JB	BELOW LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990036	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-10-L3-08	Stair Emergency Lighting JB	BELOW LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990037	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-10-L3-09	Stair Emergency Lighting JB	BELOW LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990038	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
ELF-200N1-02-L1-01	Normal Lighting Fixture	UPPER DECK	1724001290	Cortem Spa	Cortem Spa	24/86772	LIFEX-ME-0645-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	
ELF-200N1-02-L1-02	Normal Lighting Fixture	UPPER DECK	1724001290	Cortem Spa	Cortem Spa	24/86773	LIFEX-ME-1260N-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	
ELF-200N1-02-L1-03	Normal Lighting Fixture	UPPER DECK	1724001290	Cortem Spa	Cortem Spa	24/86772	LIFEX-ME-0645-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	
ELF-200N1-02-L1-04	Normal Lighting Fixture	UPPER DECK	1724001290	Cortem Spa	Cortem Spa	24/86772	LIFEX-ME-0645-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	
ELF-200N1-02-L1-05	Normal Lighting Fixture	UPPER DECK	1724001290	Cortem Spa	Cortem Spa	24/86772	LIFEX-ME-0645-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	HAZARDOUS-AREA_8
ELF-200N1-02-L1-06	Normal Lighting Fixture	UPPER DECK	1724001290	Cortem Spa	Cortem Spa	24/86772	LIFEX-ME-0645-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	
ELF-200N1-02-L1-07	Normal Lighting Fixture	UPPER DECK	1724001290	Cortem Spa	Cortem Spa	24/86772	LIFEX-ME-0645-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	HAZARDOUS-AREA_8 HAZARDOUS-AREA_3
ELF-200N1-02-L1-08	Normal Lighting Fixture	UPPER DECK	1724001290	Cortem Spa	Cortem Spa	24/86772	LIFEX-ME-0645-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	HAZARDOUS-AREA_8 HAZARDOUS-AREA_3
ELF-200N1-02-L1-09	Normal Lighting Fixture	UPPER DECK	1724001290	Cortem Spa	Cortem Spa	24/86772	LIFEX-ME-0645-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	HAZARDOUS-AREA_8 HAZARDOUS-AREA_1
ELF-200N1-02-L1-10	Normal Lighting Fixture	UPPER DECK	1724001290	Cortem Spa	Cortem Spa	24/86772	LIFEX-ME-0645-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	HAZARDOUS-AREA_8 HAZARDOUS-AREA_1
ELF-200N1-02-L1-11	Normal Lighting Fixture	UPPER DECK	1724001290	Cortem Spa	Cortem Spa	24/86772	LIFEX-ME-0645-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	HAZARDOUS-AREA_3 HAZARDOUS-AREA_2 HAZARDOUS-AREA_5 HAZARDOUS-AREA_6
ELF-200N1-02-L1-12	Normal Lighting Fixture	UPPER DECK	1724001290	Cortem Spa	Cortem Spa	24/86772	LIFEX-ME-0645-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	HAZARDOUS-AREA_1 HAZARDOUS-AREA_2 HAZARDOUS-AREA_5 HAZARDOUS-AREA_4
ELF-200N1-02-L1-13	Normal Lighting Fixture	UPPER DECK	1724001290	Cortem Spa	Cortem Spa	24/86772	LIFEX-ME-0645-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	HAZARDOUS-AREA_1 HAZARDOUS-AREA_2 HAZARDOUS-AREA_5 HAZARDOUS-AREA_4
ELF-200N1-02-L1-14	Normal Lighting Fixture	UPPER DECK	1724001290	Cortem Spa	Cortem Spa	24/86772	LIFEX-ME-0645-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	
ELF-200N1-02-L1-15	Normal Lighting Fixture	UPPER DECK	1724001290	Cortem Spa	Cortem Spa	24/86772	LIFEX-ME-0645-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	
ELF-200N1-02-L1-16	Normal Lighting Fixture	UPPER DECK	1724001290	Cortem Spa	Cortem Spa	24/86772	LIFEX-ME-0645-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	

EU Type Examination Certificate CML 20ATEX3018X Issue 1

1 Equipment intended for use in Potentially Explosive Atmospheres Directive 2014/34/EU

2 Equipment **LifEx-ME, LifEx-MN and LifEx-MT series of linear lighting fixtures**

3 Manufacturer **Cortem S.p.A.**

4 Address **Via Aquileia 10**
34070 Villesse
(GO)
Italy

5 The equipment is specified in the description of this certificate and the documents to which it refers.

6 CML B.V., Chamber of Commerce No 6738671, Koopvaardijweg 32, 4906CV Oosterhout, The Netherlands, Notified Body Number 2776, in accordance with Article 17 of Directive 2014/34/EU of the European Parliament and of the Council, dated 26 February 2014, certifies that this equipment has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of equipment intended for use in potentially explosive atmospheres given in Annex II to the Directive.

The examination and test results are recorded in the confidential reports listed in Section 12.

7 If an 'X' suffix appears after the certificate number, it indicates that the equipment is subject to conditions of safe use (affecting correct installation or safe use). These are specified in Section 14.

8 This EU Type Examination certificate relates only to the design and construction of the specified equipment or component. Further requirements of Directive 2014/34/EU Article 13 apply to the manufacture of the equipment or component and are separately certified.

9 Compliance with the Essential Health and Safety Requirements, with the exception of those listed in the confidential report, has been demonstrated through compliance with the following documents:

EN IEC 60079-0:2018	EN 60079-1:2014	EN IEC 60079-7:2015+A1:2018
EN 60079-18:2015+A1:2017	EN 60079-31:2014	

10 The equipment shall be marked with the following:

LifEx-ME	LifEx-MN and LifEx-MT
Ex db eb mb IIC T.. Gb	Ex tb IIIC T…°C Db
Ex eb mb IIC T.. Gb *(when Ex mb LED drivers are used)*	IP66
Ex tb IIIC T…°C Db	
IP66	
Ta=* see description	Ta=* see description

11 Description

The LifEx is a range of linear LED lighting fixtures that are available in three different configurations for different applications, designated as the LifEx-ME, LifEx-MT and LifEx-MN.

LifEx-ME

The LifEx-ME version has an Equipment Protection Level of EPL Gb and Db and utilises types of protection increased safety (eb) and dust protection by enclosure (tb), along with encapsulation (mb) for the light source and flameproof (db) for the driver.

It is constructed from an aluminium enclosure, with either a glass or polycarbonate lens and with optional polycarbonate diffuser.

LifEx-MN

The LifEx-MN version has an Equipment Protection Level of EPL Gc and Db and utilises types of protection increased safety (ec) and dust protection by enclosure (tb).

It is constructed from an aluminium enclosure, with polycarbonate diffuser and/or with optional glass or polycarbonate lens.

LifEx-MT

The LifEx-MT versions has an Equipment Protection Level of EPL Db and utilises types of protection dust protection by enclosure (tb).

It is constructed from an aluminium enclosure, with polycarbonate diffuser and/or with optional glass or polycarbonate lens.

Design Options

Every configuration is available in lengths ranging from 300 mm to 1500 mm, and power ratings up to a maximum of 105W of nominal power.

The LifEx can be used in only normal service, in only emergency service or in normal and emergency service.

The minimum ambient temperature for the range is:

- -60°C for versions without battery
- -60°C for versions with the battery heater
- -20°C for versions with battery

The range is available with the following maximum ambient temperatures:

	With glass lens and with/without polycarbonate diffuser	With Polycarbonate lens and with/without polycarbonate diffuser	Without lens polycarbonate diffuser only
LifEx-M...0310	+60°C	+60°C	+60°C
LifEx-M...0315	+60°C	+60°C	+60°C
LifEx-M...0330	+60°C	Configuration not available	Configuration not available
LifEx-M...0615	+60°C	+60°C	+60°C
LifEx-M...0630	+60°C	+50°C	+60°C
LifEx-M...0645	+57°C	+47°C	+60°C
LifEx-M...0660	+47°C	Configuration not available	+58°C
LifEx-M...1230	+60°C	+60°C	+60°C
LifEx-M...1260	+60°C	+50°C	+60°C
LifEx-M...1290	+60°C	+40°C	+60°C
LifEx-M...12120	+54°C	Configuration not available	+60°C
LifEx-M...1590	+60°C	+40°C	+60°C

Table 1: Maximum Ambient Temperatures

The following tables provide the Temperature Class (EPL Gb) and Maximum Surface Temperature (EPL Db) for each LifEx type, with the following notes:

- The LifEx-MN with an ambient temperature greater than 50°C is T5 or T4. T6 is not included.
- The Temperature Class (EPL Gb) and Maximum Surface Temperature (EPL Db) in the tables below are not applicable when the ambient temperature is not permitted in the above maximum ambient temperature range table.

13. (For example, the LifEx-M...0660 is not permitted with polycarbonate lens, therefore the Temperature Class (EPL Gb) and Maximum Surface Temperature (EPL Db) for this version in tables 2 and 3 are not applicable)

	Temperature Class (EPL Gb and Gc) and Maximum Surface Temperature (EPL Db) Based on ambient temperature													
	40°C		45°C		47°C		50°C		54°C		57°C		60°C	
	EPL Db	EPL Gb/Gc	EPL Db	EPL Gb/Gc	EPL Db	EPL Gb/Gc	EPL Db	EPL Gb/Gc	EPL Db	EPL Gb/Gc	EPL Db	EPL Gb/Gc	EPL Db	EPL Gb/Gc
LifEx-M...0310	T56°C	T6	T56°C	T6	T58°C	T6	T61°C	T6	T65°C	T6	T68°C	T6	T71°C	T6
LifEx-M...0315	T56°C	T6	T56°C	T6	T58°C	T6	T61°C	T6	T65°C	T6	T68°C	T6	T71°C	T6
LifEx-M...0615	T56°C	T6	T56°C	T6	T58°C	T6	T61°C	T6	T65°C	T6	T68°C	T6	T71°C	T6
LifEx-M...0630	T69°C	T6	T69°C	T5	T71°C	T5	T74°C	T5	T78°C	T5	T81°C	T4	T84°C	T4
LifEx-M...0645	T72°C	T5	T72°C	T5	T74°C	T5	T77°C	T5	T81°C	T4	T84°C	T4	T87°C	T4
LifEx-M...0660	T77°C	T5	T77°C	T4	T79°C	T4	T82°C	T4	T86°C	T4	T89°C	T4	T92°C	T4
LifEx-M...1230	T58°C	T6	T58°C	T6	T60°C	T6	T63°C	T6	T67°C	T6	T70°C	T6	T73°C	T6
LifEx-M...1260	T67°C	T6	T67°C	T5	T69°C	T5	T72°C	T5	T76°C	T5	T79°C	T4	T82°C	T4
LifEx-M...1290	T72°C	T5	T72°C	T5	T74°C	T4	T77°C	T4	T81°C	T4	T84°C	T4	T87°C	T4
LifEx-M...12120	T75°C	T5	T75°C	T4	T77°C	T4	T80°C	T4	T84°C	T4	T87°C	T4	T90°C	T4
LifEx-M...1590	T72°C	T5	T72°C	T5	T74°C	T4	T77°C	T4	T81°C	T4	T84°C	T4	T87°C	T4

Table 2: Temperature Class (EPL Gb) and Maximum Surface Temperature (EPL Db) for LifEx types with glass/polycarbonate lens and with polycarbonate diffuser

	Temperature Class (EPL Gb and Gc) and Maximum Surface Temperature (EPL Db) Based on ambient temperature					
	40°C		55°C		60°C	
	EPL Db	EPL Gc	EPL Db	EPL Gc	EPL Db	EPL Gc
LifEx-ME-0330	T58°C	T6	T73°C	T6	T78°C	T5
LifEx-MN-0330	T58°C	T6	T73°C	T5	T78°C	T4
LifEx-MT-0330	T58°C	-	T73°C	-	T78°C	-

Table 3: Temperature Class (EPL Gb and Gc) and Maximum Surface Temperature (EPL Db) for LifEx-M...-0330 types with glass/polycarbonate window and without polycarbonate diffuser

	Temperature Class (EPL Gb) and Maximum Surface Temperature (EPL Db) Based on ambient temperature													
	40°C		45°C		47°C		50°C		54°C		57°C		60°C	
	EPL Db	EPL Gb	EPL Db	EPL Gb	EPL Db	EPL Gb	EPL Db	EPL Gb	EPL Db	EPL Gb	EPL Db	EPL Gb	EPL Db	EPL Gb
LifEx-M...0310	T62°C	T6	T62°C	T6	T64°C	T6	T67°C	T6	T71°C	T6	T74°C	T6	T77°C	T6
LifEx-M...0315	T62°C	T6	T62°C	T6	T64°C	T6	T67°C	T6	T71°C	T6	T74°C	T6	T77°C	T6
LifEx-M...0615	T62°C	T6	T62°C	T6	T64°C	T6	T67°C	T6	T71°C	T6	T74°C	T6	T77°C	T6
LifEx-M...0630	T85°C	T6	T85°C	T5	T87°C	T5	T90°C	T5	T94°C	T5	T97°C	T4	T100°C	T4
LifEx-M...0645	T88°C	T6	T88°C	T5	T90°C	T5	T93°C	T5	T97°C	T4	T100°C	T4	T103°C	T4
LifEx-M...0660	T100°C	T6	T100°C	T4	T102°C	T4	T105°C	T4	T109°C	T4	T112°C	T4	T115°C	T4
LifEx-M...1230	T65°C	T6	T65°C	T6	T67°C	T6	T70°C	T6	T74°C	T6	T77°C	T6	T80°C	T6
LifEx-M...1260	T85°C	T6	T85°C	T5	T87°C	T5	T90°C	T5	T94°C	T5	T97°C	T4	T100°C	T4
LifEx-M...1290	T94°C	T6	T94°C	T5	T96°C	T4	T99°C	T4	T103°C	T4	T106°C	T4	T109°C	T4
LifEx-M...12120	T96°C	T5	T96°C	T4	T98°C	T4	T101°C	T4	T105°C	T4	T108°C	T4	T111°C	T4
LifEx-M...1590	T94°C	T6	T94°C	T5	T96°C	T4	T99°C	T4	T103°C	T4	T106°C	T4	T109°C	T4

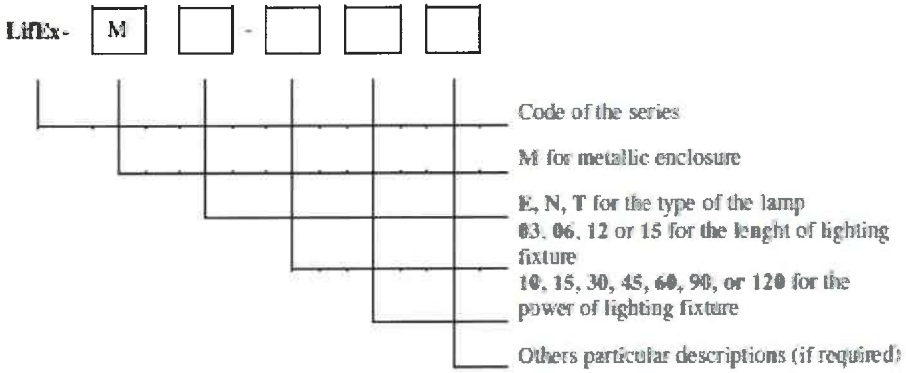
Table 4: Temperature Class (EPL Gb) and Maximum Surface Temperature (EPL Db) for LifEx types with glass/polycarbonate lens and without polycarbonate diffuser

	Maximum Surface Temperature (EPL Db) Based on ambient temperature						
	40°C	45°C	47°C	50°C	54°C	57°C	60°C
LifEx-M...0310	T56°C	T56°C	T58°C	T61°C	T65°C	T68°C	T71°C
LifEx-M...0315	T56°C	T56°C	T58°C	T61°C	T65°C	T68°C	T71°C
LifEx-M...0615	T56°C	T56°C	T58°C	T61°C	T65°C	T68°C	T71°C
LifEx-M...0630	T69°C	T69°C	T71°C	T74°C	T78°C	T81°C	T84°C
LifEx-M...0645	T72°C	T72°C	T74°C	T77°C	T81°C	T84°C	T87°C
LifEx-M...0660	T77°C	T77°C	T79°C	T82°C	T86°C	T89°C	T92°C
LifEx-M...1230	T58°C	T58°C	T60°C	T63°C	T67°C	T70°C	T73°C
LifEx-M...1260	T67°C	T67°C	T69°C	T72°C	T76°C	T79°C	T82°C
LifEx-M...1290	T72°C	T72°C	T74°C	T77°C	T81°C	T84°C	T87°C
LifEx-M...12120	T75°C	T75°C	T77°C	T80°C	T84°C	T87°C	T90°C
LifEx-M...1590	T72°C	T72°C	T74°C	T77°C	T81°C	T84°C	T87°C

Table 5: (Applicable to EPL Db only) Maximum Surface Temperature for LifEx types without glass/polycarbonate lens and with polycarbonate diffuser

The equipment has been separately tested against the requirements of IEC 60529 and it meets IP66. The gaskets on the caps provide the degree of protection.

The equipment uses the following nomenclature:



Variation 1:

This variation has assed the following changes:

i. Addition of an optional new removable cover for "easy installation" (which use the new aluminium extrusion);
ii. Addition of an optional external battery box;
iii. minimum ambient temperature extended to -60°C when Ex mb heater is used;
iv. Additional optional Ex mb EBM LED driver as an alternative to EBL3040 / EBL4040 Ex db series LED drivers;
v. added 30W model for size 300mm (LifEx-M..-0330).

12 Certificate history and evaluation reports

Issue	Date	Associated report	Notes
0	06 May 2020	R13027A/00	Prime Issue
1	01 Jul 2022	R14875A/00	Introduction of Variation 1

Note: Drawings that describe the equipment or component are listed in the Annex.

13 Conditions of Manufacture

The following conditions are required of the manufacturing process for compliance with the certification.

i. Where the product incorporates certified parts or safety critical components the manufacturer shall ensure that any changes to those parts or components do not affect the compliance of the certified product that is the subject of this certificate.
ii. The LifEx series lighting fixtures are to be designed in accordance with general electrical safety standards.
iii. The routine dielectric strength test on the LifEx-ME and LifEx-MN luminaries with applied voltage shall be performed at 2U + 1000V with a minimum value of 1560V (U = maximum rated voltage of the lamp)

iv. A routine visual inspection of the encapsulated parts is required, as per Clause 9.1 of IEC 60079-18. There shall be no visible damage or deformation to the encapsulant.

v. Where the removable battery pack is used with phoenix contacts, if used with a T6 version of the equipment, the maximum ambient shall be limited to +40°C.

14 Specific Conditions of Use (Special Conditions)

The following conditions relate to safe installation and/or use of the equipment.

i. Cable entries are provided which have less than 5 threads engaged. Care must be taken to ensure the correct gaskets and washers are sued with the cable gland to maintain IP66.

ii. The equipment uses an external part that is constructed from non-metallic materials, and as such care is to be taken to prevent an electro-static charging hazard. See instruction manual for details.

iii. For versions with glass window of 4mm thickness without cover, the luminaire must be installed in a location with a low risk of mechanical danger

iv. The temperature at the entry point may reach up to 75°C. Suitably rated cable glands must be used.

Certificate Annex

Certificate Number	**CML 20ATEX3018X**
Equipment	**LifEx-ME, LifEx-MN and LifEx-MT series of linear lighting fixtures**
Manufacturer	**Cortem S.p.A.**

The following documents describe the equipment or component defined in this certificate:

Issue 0

Drawing No	Sheets	Rev	Approved date	Title
A3-7466	1 to 6	0	06 May 2020	LifEx-M Luminaires
A4-7467	1 to 6	0	06 May 2020	Technical Note

Issue 1

Drawing No.	Sheets	Rev	Approved date	Title
A3-7466	1 of 6	1	01 Jul 2022	LifEx-M Luminaires Assembly and External Dimensions
A3-7466	2 of 6	1	01 Jul 2022	LifEx-M Luminaires Detail of sealing and op is protection
A3-7466	3 of 6	1	01 Jul 2022	LifEx-M Luminaires Detail of driver and inverter for LifEx-ME version
A3-7466	4 of 6	1	01 Jul 2022	LifEx-M Luminaires Circuit diagram for LifeEx-ME version
A3-7466	5 of 6	1	01 Jul 2022	LifEx-M Luminaires Circuit diagram LifEx-MN and LifEx-MT version
A3-7466	6 of 6	1	01 Jul 2022	LifEx-M Luminaires Detail of battery pack
A3-7729	1 to 3	0	01 Jul 2022	Battery heater for -60°C /-40°C applications Assembly and External Dimensions
A4-7727	1 to 8	0	01 Jul 2022	Technical Note

ITEM	Tag	ELF-200N1-02-L1-06	: NORMAL LIGHT	Dwg	123A90-DDL-EL-DL-20118
	S/Sys	83-40	: Normal Lighting Upper Deck	Module	UD
TASK	code	C10001664	Location: Onshore Activities	User	Rosetti Marino Quality Control
FORM	Process	MC	Activity: CCK / Discipline: ATEX / Form: CJX01		Hazardous Area Equipment Detailed Inspection

Schedule Ref. #				**Area Code**					
Area Class Drawing	123A90-DDL-SAF-DL-30022			**Serial No.**		24/86772			
Manufacturer	Cortem Spa			**Model**		LIFEX-ME-1260N-BB			
Cert No.	CML 20 ATEX 3018X			**Equipment Ambient Temp.**		-60°C to +60°C			
Area Classification	hazardous	**Zone**	2	**Gas group**	IIC	**Temp class**	T1		
Equipment Protection Type	Ex db	**EPL**	Gb	**Gas group**	IIC	**Temp class**	T4	**IP Rating**	IP66

Detailed Note:

1) Inspection shall only be performed by competent personnel

2) All fields are to be completed. Any non-applicable field shall state “NA”. Comments are required for ‘Failure’ column ONLY.

3) An Inspection Sheet should be completed for EACH individual item of Equipment.

	General Equipment	Detailed	OK/NA/PL	Comments
1	Equipment is appropriate to the EPL / Zone requirements of the area	x	OK	
2	Equipment group is correct	x	OK	
3	Equipment temperature class is correct	x	OK	
4	Degree of IP protection of equipment is appropriate for the level of protection	x	OK	
5	Equipment circuit identification is correct	x	PL	
6	Equipment circuit identification is available	x	NA	
7	Enclosure glass parts and glass-to-metal sealing gaskets and / or compounds are satisfactory	x	OK	
8	There is no damage or unauthorized modifications	x	OK	
9	There is no evidence of unauthorized modifications	x	OK	
10	Bolts, cable entry devices (direct and indirect) & blanking elements are of the correct type, are complete & tight		NA	
	Physical check	x	PL	
11	Threaded covers on enclosures are of the correct type, are tight and secured		NA	
	Physical check	x	NA	
12	Joint surfaces are clean and undamaged and gaskets, if any, are satisfactory and positioned correctly	x	OK	
13	Condition of enclosure gaskets is satisfactory	x	OK	
14	There is no evidence or ingress of water or dust in the enclosure in accordance with the IP rating	x	OK	
15	Electrical connections are tight	x	OK	
16	Bridging links do not reduce creepage / clearance and are allowed	x	NA	
17	Unused terminals are tightened	x	OK	
18	Encapsulated components are undamaged	x	NA	
19	Flameproof components are undamaged	x	NA	
20	Fluorescent lamps are not indicating EOL effects (only for Ex “e” – Ex “n” – Ex “t”)	x	NA	
21	HID lamps are not indicating EOL effects	x	NA	
22	Lamp type, rating, pin configuration and position are correct	x	NA	
23	Breathing and drainage devices are satisfactory	x	OK	
24	Type of cable is appropriate	x	OK	
25	There is no obvious damage to the cables	x	OK	
26	Cable glands are the correct type and installed correctly	x	OK	
27	Sealing of trunking, ducts, pipes and or conduits is satisfactory	x	NA	
28	Stopping boxes and cable boxes are corrected filled	x	OK	

ITEM	Tag	ELF-200N1-02-L1-06	: NORMAL LIGHT			Dwg	123A90-DDL-EL-DL-20118
	S/Sys	83-40	: Normal Lighting Upper Deck			Module	UD
TASK	code	C10001664		Location	Onshore Activities	User	Rosetti Marino Quality Control
FORM	Process	MC	Activity CCK	Discipline	ATEX	Form	CJX01 Hazardous Area Equipment Detailed Inspection

29	Integrity of conduit system and interface with mixed system maintained	x	NA	
30	Earthing connections, including any supplementary earthing bonding connections are satisfactory (for example connections are tight and conductors are of sufficient cross-section		NA	
	Physical check	x	PL	
31	Automated electric protective devices operate within permitted limits	x	NA	
32	Special conditions (if applicable) have been complied with.	x	OK	
33	All cable cores are uniquely labeled	x	OK	
34	Cable cores not in use are correctly terminated	x	NA	
35	Equipment is adequately protected against corrosion, weather, vibration and other adverse factors	x	OK	
36	No undue accumulation of dust and dirt	x	OK	
37	All equipment housings are clean and dry	x	OK	
38	All moving parts are free and have no mechanical damage	x	NA	
	Applicable for Installation of Heating Systems			
39	Temperature sensors function according to manufacturer's documents (only applicable for Ex-d e Ex-e)	x	NA	
40	Safety cut off devices function according to manufacturer's documents (only applicable for Ex-d e Ex-e)	x	NA	
41	The setting of the safety cut off is sealed (only applicable for Ex-d e Ex-e)	x	NA	
42	Reset of a heating system safety cut off possible with tool only(only applicable for Ex-d e Ex-e)	x	NA	
43	Auto-reset is not possible (only applicable for Ex-d e Ex-e)	x	NA	
44	Reset of a safety cut off under fault conditions is prevented (only applicable for Ex-d e Ex-e)	x	NA	
45	Safety cut off independent from control system (only applicable for Ex-d e Ex-e)	x	NA	
46	Level switch is installed and correctly set, if required (only applicable for Ex-d e Ex-e)	x	NA	
47	Flow switch is installed and correctly set, if required (only applicable for Ex-d e Ex-e)	x	NA	
	Extra Ex d checks			
48	Obstructions adjacent to flame proof flanged joints are in accordance with IEC 60079-14	x	NA	
49	Ex d conduits seals are fitted to all conduits and satisfactorily sealed	x	NA	
50	Cable glands are of the correct type and installed correctly	x	OK	
51	Adaptors, reducers, stop ends, etc. are all certified Ex d	x	OK	
52	Flame path are clean and undamaged	x	OK	
53	Flange gap dimensions are within tolerances	x	NA	
54	Motor fans have sufficient clearance to the enclosure and/or covers, cooling systems are undamaged, motor foundations have no indentations or cracks	x	NA	
55	The ventilation airflow is not impeded	x	NA	
56	Insulation resistance (IR) of the motor windings is satisfactory	x	NA	
57	Fault loop impedance (TN systems) or earthing resistance (IT systems) is satisfactory	x	NA	
58	Variable voltage/frequency installation complies with documentation	x	NA	
	Extra Ex e checks			
59	All Equipment is Ex e certified (including components within enclosure)	x	NA	
60	Power conductors are not bunched together causing possible hot spots	x	NA	
61	Motor fans have sufficient clearance to the enclosure and/or covers, cooling systems are undamaged, motor foundations have no indentations or cracks	x	NA	
62	Insulation resistance (IR) of the motor windings is satisfactory	x	NA	
63	Fault loop impedance (TN systems) or earthing resistance (IT systems) is satisfactory	x	NA	
64	The ventilation airflow is not impeded	x	NA	
65	Motor protection devices operate within the permitted tE or tA time limits.	x	NA	
66	Variable voltage/frequency installation complies with documentation	x	NA	

ITEM	Tag	ELF-200N1-02-L1-06	: NORMAL LIGHT			Dwg	123A90-DDL-EL-DL-20118
	S/Sys	83-40	: Normal Lighting Upper Deck			Module	UD
TASK	code	C10001664		Location	Onshore Activities	User	Rosetti Marino Quality Control
FORM	Process	MC	Activity CCK	Discipline	ATEX	Form	CJX01
							Hazardous Area Equipment Detailed Inspection

	Extra Ex n (nR, nL) checks				
67	All Terminals are Ex n certified (if required on certificate)	x	NA		
68	Hermetically sealed and enclosed break devices are undamaged	x	NA		
69	Restricted breathing properties satisfactory (conduct vacuum test)	x	NA		
70	Test port, if fitted, is functional (type “nR” only)	x	NA		
71	Breathing operation is satisfactory (type “nR” only)	x	NA		
72	Motor fans have sufficient clearance to the enclosure and/or covers, cooling systems are	x	NA		
73	The ventilation airflow is not impeded	x	NA		
74	Insulation resistance (IR) of the motor windings is satisfactory	x	NA		
75	Motor protection devices operate within the permitted tE or tA time limits.	x	NA		
76	Variable voltage/frequency installation complies with documentation	x	NA		
	Extra Ex p checks				
77	Pressurization gas is correct type	x	NA		
78	Actual pressure is within maximum and minimum settings for equipment	x	NA		
79	Timers set as per certification documentation	x	NA		
80	Alarms and trip functions operate correctly as per certification documentation	x	NA		
81	Fault loop impedance (TN systems) or earthing resistance (IT systems) is satisfactory	x	NA		
82	Automatic electrical protective devices operate within permitted limits	x	NA		
83	Automatic electrical protective devices are set correctly	x	NA		
84	Protective gas inlet temperature is below maximum specified	x	NA		
85	Ducts, pipes and enclosures are in good condition	x	NA		
86	Protective gas is substantially free from contaminants	x	NA		
87	Protective gas pressure and/or flow is adequate	x	NA		
88	Pressure and/or flow indicators, alarms and interlocks function correctly	x	NA		
89	Conditions of spark and particle barriers of ducts for exhausting the gas in hazardous area are satisfactory	x	NA		
90	Specific conditions of use (if applicable) are complied with		NA		
	Extra Ex i (Intrinsically Safe – IS) checks				
91	Equipment has adequate circuit identification for ‘IS’ Installation	x	NA		
92	Cables are installed in accordance with the documentation	x	NA		
93	Segregation is maintained between IS and non-IS Circuits	x	NA		
94	Cable screens are isolated at one end (field side)	x	NA		
95	Cable screens are earthed in accordance with the documentation	x	NA		
96	Safety barrier units, relays and other energy limiting devices are of the approved type, installed in	x	NA		
97	Equipment installed is the one specified in the documentation	x	NA		
98	Ambient temperature range of the apparatus is correct for the installation	x	NA		
99	Service temperature range of the apparatus is correct for the installation	x	NA		
100	Installation is clearly labelled	x	NA		
101	Printed circuit boards are clean and undamaged	x	NA		
102	The maximum voltage Um of the associated apparatus is not exceeded	x	NA		
103	Point-to-point connections are all correct	x	NA		
104	Earth continuity is satisfactory (e.g. connections are tight, conductors are of sufficient cross-section)	x	NA		
105	Earth connections maintain the integrity of the type of protection	x	NA		
106	Intrinsically safe circuit earthing is satisfactory	x	NA		
107	Insulation resistance is satisfactory	x	NA		
108	Short-circuit protection of the power supply is in accordance with the documentation	x	NA		

	BARRIER:	**Manufacturer:**	NA	**Model:**	NA		
		Authority:	NA	**Cert No:**	NA	**Type:**	NA

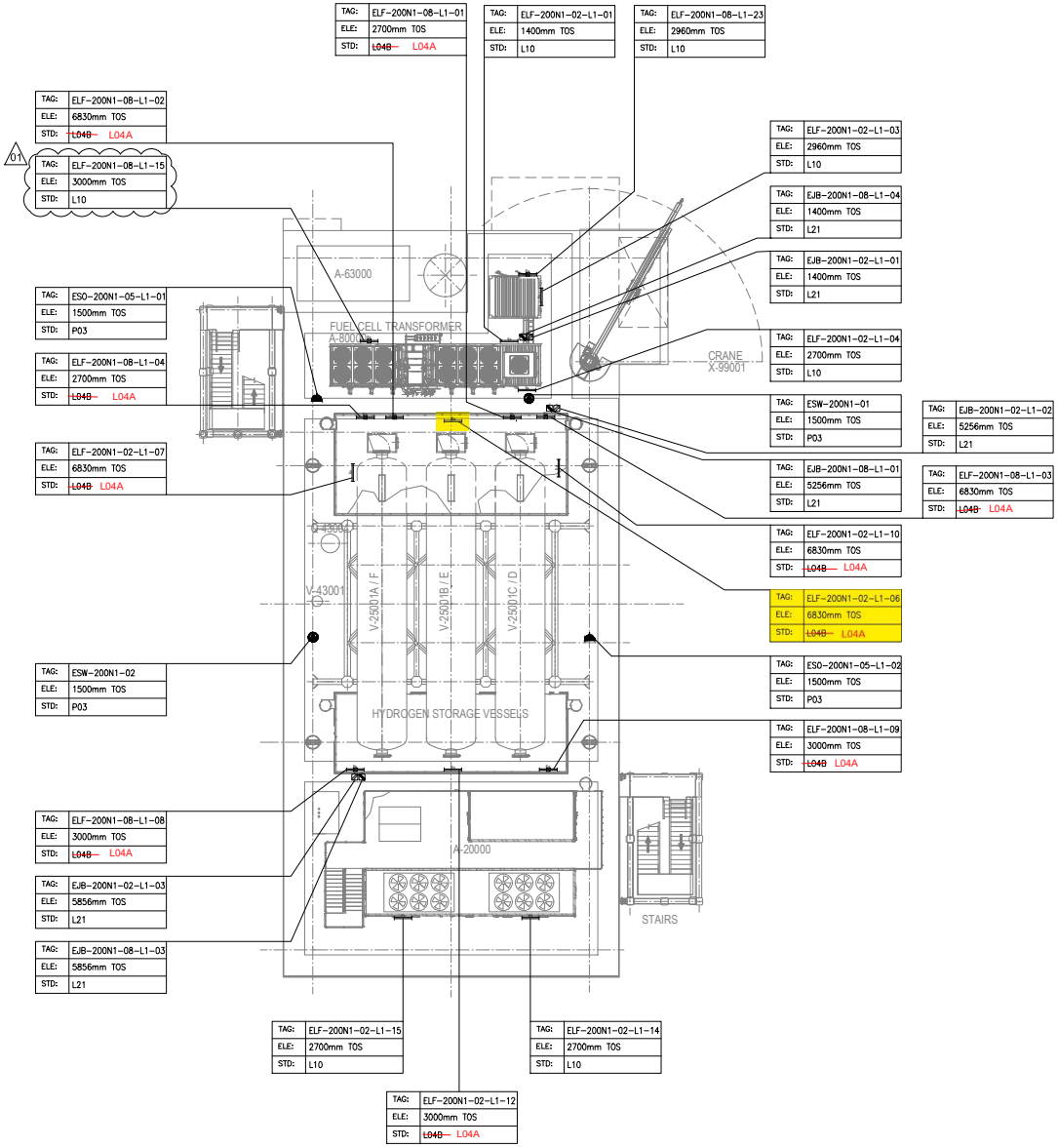
Remarks: Initial inspection should be detailed and carried out before equipment is brought into service as per IEC 60079-17

Please mark only one box as appropriate	
●	**Passed - Complete**
	Failed

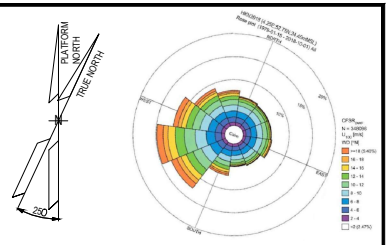
Page 3/3	Performed by	☐ WITNESS ☐ REVIEW	☐ WITNESS ☐ REVIEW
Company	ICS IMPIANTI	RM(ROSETTI MARINO)	
Name	Michele Tartaglia	Andrea Andreani	
Date	2025-01-08	2025-01-16	
Signature	PROVERLIS Digitaly signed by Michele Tartaglia 2025-01-08T10:02:57.983Z	PROVERLIS Digitaly signed by Andrea Andreani 2025-01-16T08:42:02.252Z	

DRAWING NO. 123A90-DDL-EL-DL-20118

REV. 01



PLAN ON UPPER DECK
EL+30.310 T.O.S.



NOTES

1. ALL DIMENSIONS AND ELEVATIONS ARE GIVEN IN mm UNLESS OTHERWISE NOTED.
2. ELEVATIONS REFER TO T.O.S.
3. ELEVATION OF THE LAMPS ARE REFFERED TO THE BOTTOM OF THE LAMP.
4. FOR THE ELEVATION OF JB, REFER TO THE TYPICAL INSTALLATION.

LEGEND

- EMERGENCY LIGHTING JB
- 60W LED EMERGENCY LUMINARIES
- 60W LED EMERGENCY LUMINARIES FIXTURE POLE MOUNTED
- NORMAL LIGHTING JB
- 45W LED NORMAL LUMINARIES
- 45W LED NORMAL LUMINARIES FIXTURE POLE MOUNTED
- WELDING SOCKET WITH INTEGRATED JB
- SMALL POWER SOCKET WITH INTEGRATED JB

JB TAG:	JB-TAG
TAG:	TAG
ELE:	ELEVATION
STD:	STANDARD

REFERENCE DOCUMENTS

123A90-DDL-PP-DL-70070	PLOT PLAN - LOWER & UPPER DECK
123A90-DDL-EL-DL-20100	ELECTRICAL EQUIPMENT LAYOUT - TOP DECK
123A90-DDL-EL-DD-20091	ELECTRICAL TYPICAL INSTALLATION DETAILS - LIGHTING SYSTEM
123A90-DDL-EL-DD-20092	ELECTRICAL TYPICAL INSTALLATION DETAILS - POWER SYSTEM & CABLE INSTALLATION
123A90-DDL-EL-RE-20153	LIGHTING CALCULATION STUDY REPORT
123A90-DDL-ST-DD-90076	IDENTIFICATION PANELS ASSEMBLY AND DETAILS

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	02/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	28/05/24	ASR	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DL-20118**

REV.:	DATE:	SIGNATURE:
1_F	26/11/24	G.Randi

ROSETTI MARINO SpA

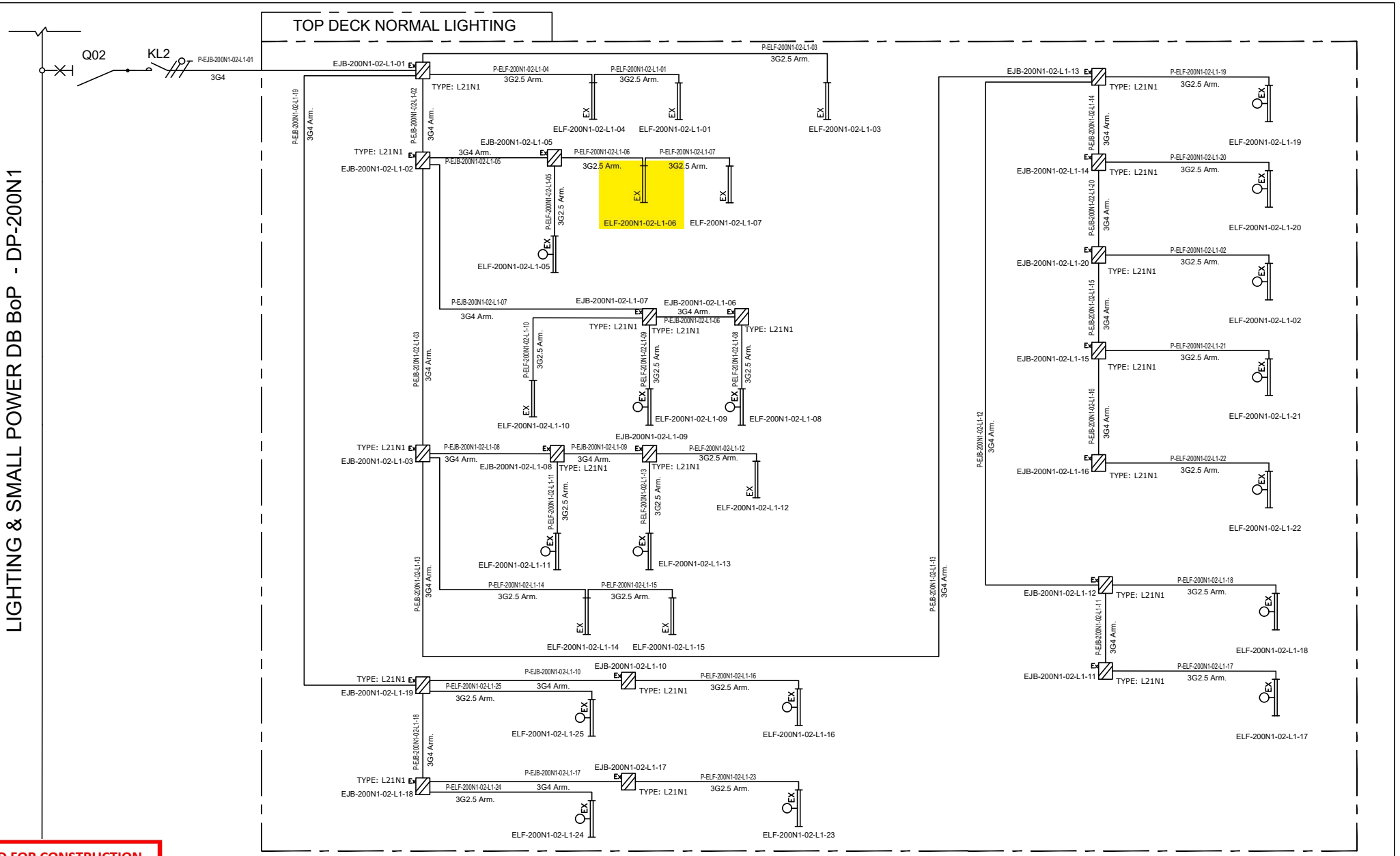
CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET LAYOUT – TOP DECK

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK			SCALE 1:150
DRAWN ASR	CHECKED FMA/AMA	APPROVED FPA/DLO	DATE 01/08/24
A1	DRAWING NO. 123A90-DDL-EL-DL-20118	SHEET 2of2	REV. 01

File Name : 123A90-DDL-EL-DL-20118



VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DG-20125**

REV.:	DATE:	SIGNATURE:
2_C	20/12/24	V.Ramponi

ROSETTI MARINO SpA

CROSSWIND

ROSETTI MARINO

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	08/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	01/07/24	ASR	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

TITLE : BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET CIRCUIT DIAGRAM
TOP DECK–NORMAL LIGHTING

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE : NTS

A3

DRAWING NO. 123A90–DDL–EL–DG–20125

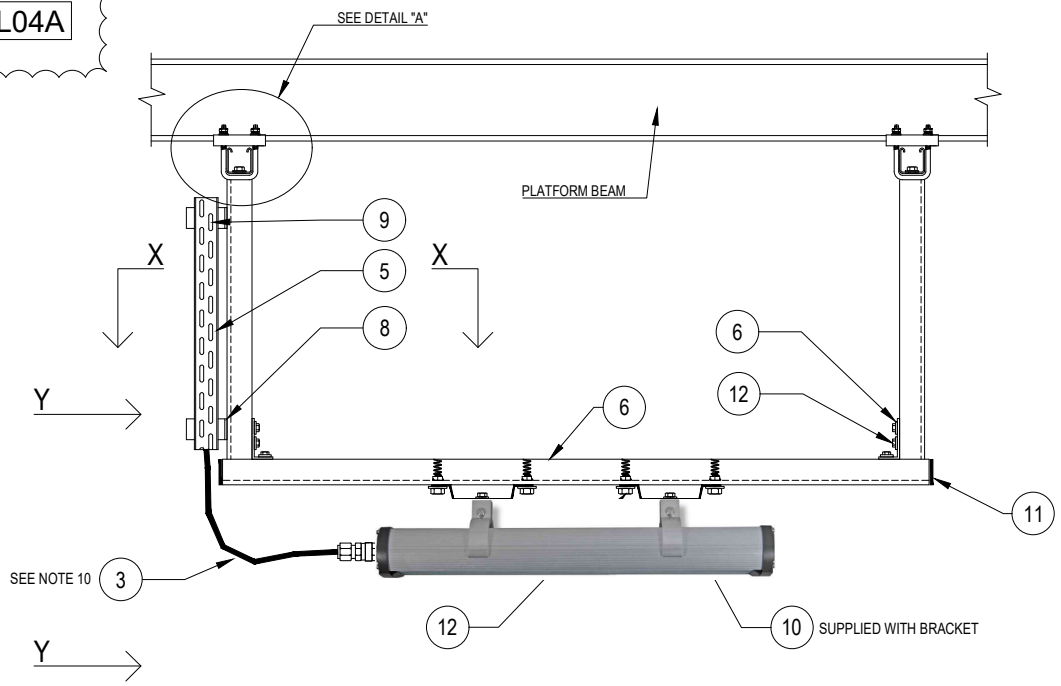
SHEET 010

REV. 01

F.to UNI A3: 420mmx297mm

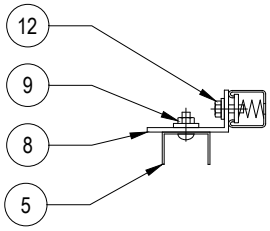
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L04A

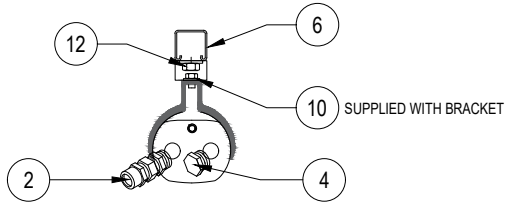


POS.	DESCRIPTION	MATERIAL	SIZE	Q.TY	NOTE
1	LIGHITNG FIXTURE (Ex e) WITH LED LAMP	ALUMINIUM ALLOY		1	
2	CABLE GLAND (Ex) FOR ARMOURED/UNARMOURED CABLE	NICK.PL.BRASS		1	NOTE 2 NOTE 5
3	ARMOURED/UNARMOURED CABLE				NOTE 5
4	PLUG	NICK.PL.BRASS		AS REQ.	NOTE 3
5	CABLE LADDER OR PERFORATED TRAY	AISI 316L		AS REQ.	
6	SINGLE U-CHANNEL PERFORATED ON NO. 3 SIDE	AISI 316L	41x41x2	AS REQ.	
7	SINGLE U-CHANNEL BEAM ATTACHMENT (10-14) OR (15-19) WITH COLLAR COMPLETE WITH HARDWARE	AISI 316L		2	NOTE 4
8	PLATE FOR ORTHOGONAL-TRASVERSAL CONNECTION (3 HOLES)	LPDE		4	
9	ROUND HEAD SCREW WITH SQUARE NECK COMPLETE WITH PLANE WASHER, SPRING WASHER AND NUT	AISI 316L			
10	HEX. BOLT M8X16 WITH LARGE PLANE WASHER	AISI 316L		2	
11	PLUG FOR U-CHANNEL	LPDE		2	
12	HEX. BOLT M10X30 WITH PLANE WASHER, NUT FOR U-CHANNEL AND SPRING	AISI 316L		2	

SECTION "X-X"

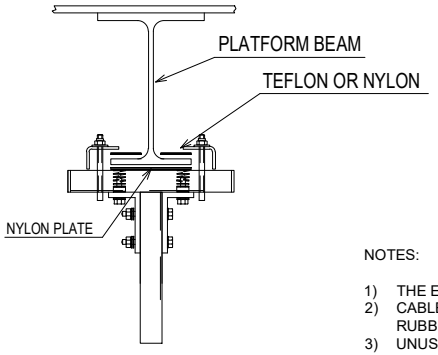


SECTION "Y-Y"

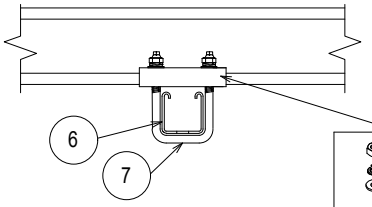


lighting fixture
Cortem LIFEX

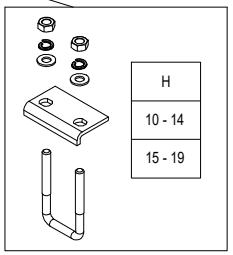
02



DETAIL "A"



VIEW "A"



NOTES:

1) THE EXACT DIMENSIONS WILL BE DEFINED DURING ASSEMBLY PHASE.
2) CABLE GLAND COMPLETE WITH LOCKNUT, NYLON WASHER, SERRATED WASHER, EXTERNAL RUBBER RING AND EARTH TAG (IF NECESSARY).
3) UNUSED CABLE ENTRIES MUST BE CLOSED WITH NICKEL PLATED BRASS PLUG.
4) SINGLE U-CHANNEL BEAM ATTACHMENT (CLAMP) IS PRODUCED IN NO. 2 DIFFERENT SIZES (10-14 OR 15-19) SIZE REFERS TO THE THICKNESS OF THE BEAM WHERE THE CLAMP IS INSTALLED.
5) FOR LAMPS IN HAZARDOUS AREA, USE ARMOURED CABLE, DOUBLE SEAL CABLE GLAND AND EX JUNCTION BOX.

VALID FOR CONSTRUCTION

REV.:	DATE:	SIGNATURE:
2_B	12/12/24	C.Pilato

ROSETTI MARINO SpA

CROSSWIND

ROSETTI MARINO

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	30/09/24	GRA	AMA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	04/07/24	NLK	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	21/11/23	SPS	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL TYPICAL INSTALLATION DETAILS–LIGHTING SYSTEM
FIXTURE SUSPENSION MOUNTED WITH U–CHANNEL SUPP.

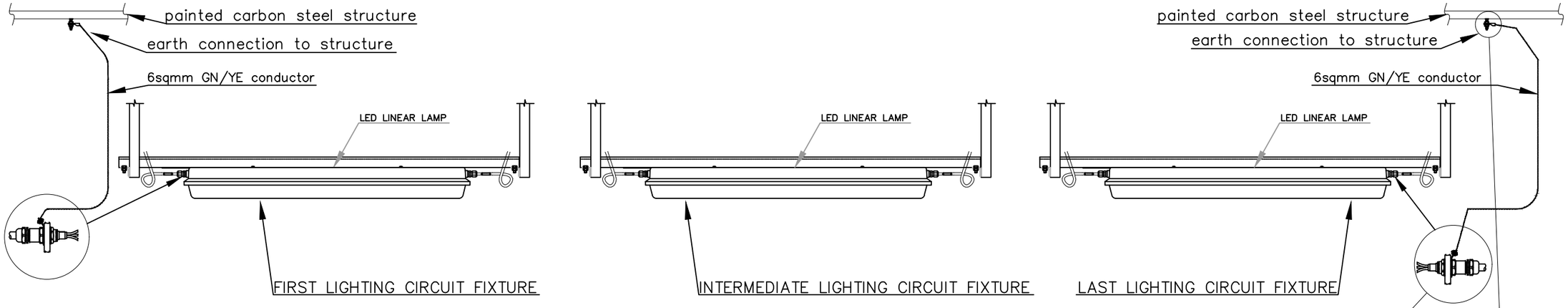
CONTRACT NO./TITLE CW–I–WP4–2023–05/HOLLANDSE KUST NOORD WIND PARK | SCALE : NTS

A3 | DRAWING NO. 123A90–DDL–EL–DD–20091 | SHEET 006 | REV. 02

F.to UNI A3: 420mmx297mm

File Name : 123A90-DDL-EL-DD-20091 REV.02.DWG

E32

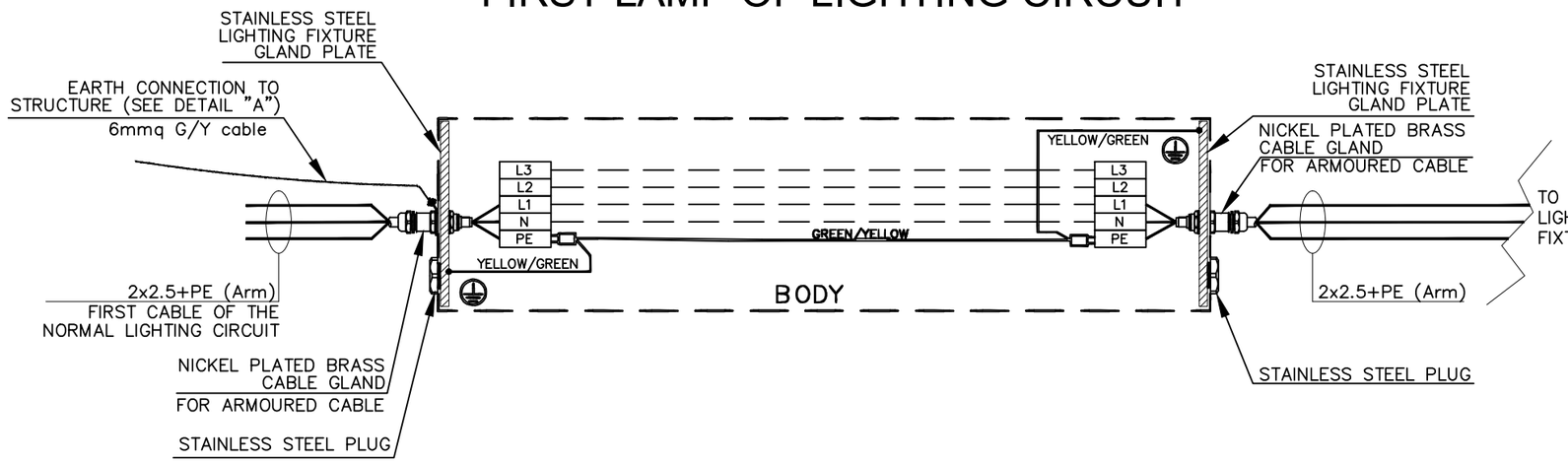


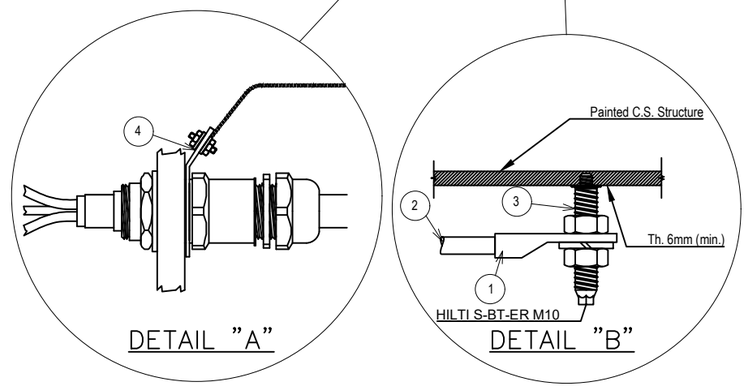
ONLY the first and the last lighting fixture of all circuits are connected to earthing system. The earthing continuity of the intermediate lighting fixtures of the circuits is guaranteed by the using of the first and the last lighting fixture earthing connection which is permanently connected to the earthing system as per the typical below.

Refer also to TYP. "E05" for Lighting Fixtures.

NORMAL LIGHTING CIRCUIT EARTHING CONTINUITY TYPICAL

FIRST LAMP OF LIGHTING CIRCUIT





POS.	DESCRIPTION	MATERIAL	SIZE	Q.TY	NOTE
1	COMPRESSION TYPE LUG FOR INSULATION COPPER CONDUCTOR	TINNED COPPER			
2	Y/G INSULATING COPPER CONDUCTOR		6sqmm	ASR	
3	HILTI S-BT-ER M10/15 SN6 C/W NUTS AND GROWER	AISI 316L	M10X28		NOTE 1
4	CABLE GLAND EARTH TAG	NPB	M20		

The same logic is used for the earthing continuity of Emergency Lighting Circuits. The above typical has been done to represent the Earthing Continuity of G/Y conductors, the correct connections of all conductors in the respective Terminal Strips are shown in doc. AR-FEN-10-ROEC-600132 Lighting and Socket Circuit Diagrams.

NOTES:
1) HILTI S-BT-ER M10/15 SN6 CERTIFIED FOR EARTHING SYSTEM FOR SINGLE EQUIPMENTS EARTHING CONNECTION.

VALID FOR CONSTRUCTION
FDL DWG: 123A90-FDL-EL-DD-20090
REV.: 2_I | DATE: 07/11/24 | SIGNATURE: G.Randi
ROSETTI MARINO SpA

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	26/08/24	GRA	AMA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	10/06/24	SPS	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	21/11/23	SPS	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL TYPICAL INSTALLATION DETAILS–EARTHING SYSTEM
EARTHING – OUTDOOR LINEAR LIGHTING FIXTURE

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK | SCALE : NTS

A3 | DRAWING NO. 123A90-DDL-EL-DD-20090 | SHEET 023 | REV. 02

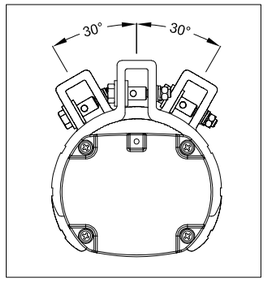
F.to UNI A3: 420mmx297mm

File Name : 123A90-DDL-EL-DD-20090 REV.02.DWG

MODEL C-225 REV.1

GENERAL NOTE:
- PO: 1724001290 DD 26/06/2024
- ITEM.: 1
- Q.TY: 57
- EXTERNAL PAINTING: RAL 7022 (END CAPS)
- INTERNAL PAINTING: NOT PAINTED
- ALL DIMENSIONS ARE IN mm

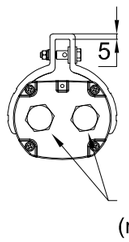
STANDARD FIXING BRACKET
FASTENING WITH 2 THREADED M8
HOLES, ADJUSTABLE FROM 0° TO ±30°



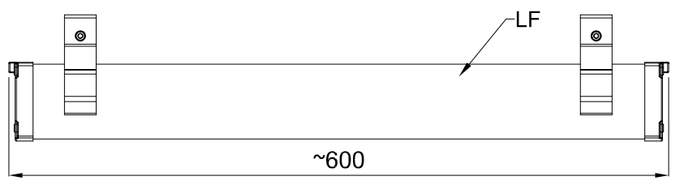
LF INFORMATION	
NOMINAL POWER	45W
CONSUMED POWER	43,5W
POWER FACTOR	>0,93
RATED CURRENT	200 mA
VIEWING ANGLE	120°
COLOUR TEMP.	5000 K
CRI	>80
INSTANT RESTRIKE	YES
LUMEN	6200 lm
LIGHT INTENSITY	2248 cd
EFFICIENCY	143 lm/W
WEIGHT	2,5 Kg
IP PROTECTION	IP66

N°	Q.TY	CODE	DESCRIPTION
LF	1	LIFEX-ME-0645-BB	110-277Vac 50-60Hz 45W LED LINEAR LIGHTING FIXTURE BODY: ALUMINUM ALLOY EXTRUSION AND ALUMINUM END CAPS TRANSPARENT PART: GLASS RESISTANT TO SHOCKS, UV RAYS AND IMPACT RESISTANCE IK09 GASKETS: ACID AND HYDROCARBON RESISTANT SILICONE ASSEMBLY: FASTENING BRACKETS FOR M8 HOLES, ADJUSTABLE 0° TO ±30° MADE IN ANODIZED ALUMINUM CONNECTION: TERMINAL BLOCK ON SIDE (IN) L, N, PE CROSS SEC. MAX. 4mmq SUITABLE FOR LOOP-IN LOOP-OUT SCREWS, BOLTS AND NUTS: STAINLESS STEEL 304
PG1	4	PLG1IB +DL1IB +RDI1IS/A4	IP66 Ex db IIC Gb - Ex eb IIC Gb NICKEL PLATED BRASS PLUG ISO M20x1,5 WITH RELEVANT LOCKNUT AND SERRATED WASHER MADE IN STAINLESS STEEL

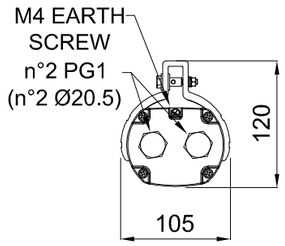
LEFT SIDE (OUT)



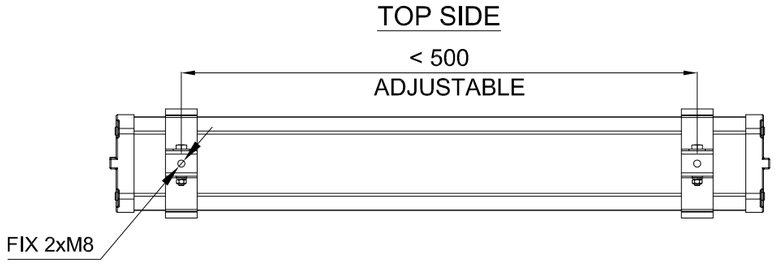
FRONT SIDE



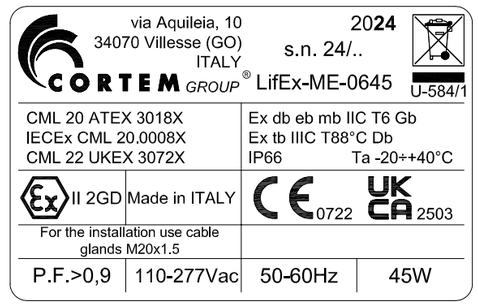
RIGHT SIDE (IN)



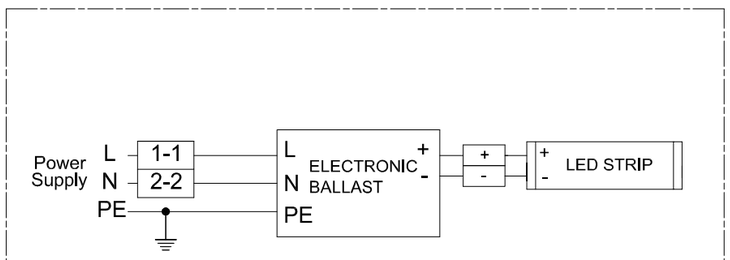
TOP SIDE



CERTIFICATE NAMEPLATE



WIRING DIAGRAM



REV.	DATE	PREP'D	CHK'D	APP'D	DESCRIPTION
2	09/07/2024	FRATTARUOLO	GIUSTI	GRATTON	REISSUED FOR APPROVAL
1	05/07/2024	FRATTARUOLO	GIUSTI	GRATTON	REISSUED FOR APPROVAL
0	28/06/2024	FRATTARUOLO	GIUSTI	GRATTON	ISSUED FOR APPROVAL

DRAWING TITLE: ROSETTI MARINO S.P.A.

CORTEM S.p.a.
GENERAL LAYOUT
001 LIFEX-ME-0645-BB/C2402693/10.

CORTEM JOB: COV2402693
DRAWING SCALE: /
DRAWING NUMBER: A3-C 27521
SHEET: 1
NEXT: 2
TOT.: 2

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Smart Professional R. 2012

Row	Data Sheet for Lighting Fixtures & Accessories				Rev.
1	42W LED Linear Luminaire-Normal Lighting-ATEX Area				
2	Item	Required	Manufacturer Proposal	Comments	
3	Model Number	by vendor	LIFEX-ME-0645-BB		01
4	Serial Number	by vendor			00
5	Quantity	28 Nos.		(25+3 Spare)	01
6	Location / Module	Upper deck			00
7	**LED Lamp**				
8	Nominal power	42 watts	45 watts		01
9	No. of linear	1	1		01
10	Luminous flux	5810 lm	6200 lm		01
11	Colour Temperature	5000 K	5000 K		01
12	**Protection**				
13	Hazardous Area Certification (Ex)	Zone 1 Gas Group IIC (or) IIB + H2, T1	Ex II 2GD Ex db eb mb IIC Gb Ex tb IIIC Db		01
14	Degree of Protection (IP)	IP 56	IP 66		01
15	ATEX certified	Classification EX db	ATEX CML 20 ATEX 3018X		01
16	**Material**				
17	Body	GRP/Aluminium alloy	Aluminium alloy		01
18	Reflector	GRP/Aluminium	Aluminium		01
19	Diffuser	Polycarbonate/temperate glass	Tempered glass		01
20	**Cable Entry**				
21	No. of cable entry	4 Nos.	4 Entries, 2 per side		01
22	Size	M20	Ø20.5mm		01
23	**Emergency Battery Pack**				
24	Requirement	Not required			00
25	Battery type	Not required			00
26	Autonomy	Not required			00
27	Emergency luminous flux	Not required			00
28	**Mechanical parameters**				
29	Dimension	by vendor	600x105x120(mm)		01
30	Weight	by vendor	2.5kg		01

Note:

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Tag Number	Tag Description	Location	P.O.	Vendor	Manufacturer	Serial Number	Model Type Catalogue Number	Installation Zone	ATEX Certificate Number	Reference Document	ATEX Certification Marking	Notes / Comments	Skid / Package	Electrical Equip.	Barrier Calculation Ref.	Special Conditions of Safe Use Applicable	3D Location
EJB-200N1-08-L1-07	Emergency Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990079	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-08-L1-08	Emergency Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990081	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-08-L1-09	Emergency Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990080	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-08-L1-10	Emergency Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990075	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-08-L1-11	Emergency Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990074	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-08-L1-12	Emergency Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990073	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-08-L1-14	Emergency Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990071	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-08-L1-15	Emergency Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990070	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-08-L1-16	Emergency Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990069	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-08-L1-17	Emergency Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990068	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-08-L1-18	Emergency Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990067	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-08-L1-19	Emergency Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990066	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-08-L1-20	Emergency Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990076	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-09-L2-01	Emergency Lighting JB	LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990016	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-09-L2-02	Emergency Lighting JB	LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990019	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-09-L2-04	Emergency Lighting JB	LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990017	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-09-L2-05	Emergency Lighting JB	LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990030	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-09-L2-06	Emergency Lighting JB	LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990029	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-09-L2-07	Emergency Lighting JB	LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990028	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-09-L2-08	Emergency Lighting JB	LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990027	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-09-L2-09	Emergency Lighting JB	LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990026	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-09-L2-10	Emergency Lighting JB	LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990025	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-09-L2-11	Emergency Lighting JB	LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990024	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-09-L2-12	Emergency Lighting JB	LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990023	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-09-L2-13	Emergency Lighting JB	LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990022	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-09-L2-14	Emergency Lighting JB	LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990021	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-09-L2-15	Emergency Lighting JB	LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990020	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-09-L2-16	Emergency Lighting JB	LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990031	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-09-L2-17	Emergency Lighting JB	BELOW LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990015	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-10-L3-01	Stair Emergency Lighting JB	LOWER & UPPER DECK STAIRS	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990040	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-10-L3-02	Stair Emergency Lighting JB	LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990039	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-10-L3-03	Stair Emergency Lighting JB	LOWER & UPPER DECK STAIRS	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990041	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-10-L3-04	Stair Emergency Lighting JB	LOWER & UPPER DECK STAIRS	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990042	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-10-L3-05	Stair Emergency Lighting JB	BELOW LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990034	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-10-L3-06	Stair Emergency Lighting JB	BELOW LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990035	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-10-L3-07	Stair Emergency Lighting JB	BELOW LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990036	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-10-L3-08	Stair Emergency Lighting JB	BELOW LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990037	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-10-L3-09	Stair Emergency Lighting JB	BELOW LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990038	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
ELF-200N1-02-L1-01	Normal Lighting Fixture	UPPER DECK	1724001290	Cortem Spa	Cortem Spa	24/86772	LIFEX-ME-0645-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	
ELF-200N1-02-L1-02	Normal Lighting Fixture	UPPER DECK	1724001290	Cortem Spa	Cortem Spa	24/86773	LIFEX-ME-1260N-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	
ELF-200N1-02-L1-03	Normal Lighting Fixture	UPPER DECK	1724001290	Cortem Spa	Cortem Spa	24/86772	LIFEX-ME-0645-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	
ELF-200N1-02-L1-04	Normal Lighting Fixture	UPPER DECK	1724001290	Cortem Spa	Cortem Spa	24/86772	LIFEX-ME-0645-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	
ELF-200N1-02-L1-05	Normal Lighting Fixture	UPPER DECK	1724001290	Cortem Spa	Cortem Spa	24/86772	LIFEX-ME-0645-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	HAZARDOUS-AREA_8
ELF-200N1-02-L1-06	Normal Lighting Fixture	UPPER DECK	1724001290	Cortem Spa	Cortem Spa	24/86772	LIFEX-ME-0645-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	
ELF-200N1-02-L1-07	Normal Lighting Fixture	UPPER DECK	1724001290	Cortem Spa	Cortem Spa	24/86772	LIFEX-ME-0645-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	HAZARDOUS-AREA_8 HAZARDOUS-AREA_3
ELF-200N1-02-L1-08	Normal Lighting Fixture	UPPER DECK	1724001290	Cortem Spa	Cortem Spa	24/86772	LIFEX-ME-0645-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	HAZARDOUS-AREA_8 HAZARDOUS-AREA_3
ELF-200N1-02-L1-09	Normal Lighting Fixture	UPPER DECK	1724001290	Cortem Spa	Cortem Spa	24/86772	LIFEX-ME-0645-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	HAZARDOUS-AREA_8 HAZARDOUS-AREA_1
ELF-200N1-02-L1-10	Normal Lighting Fixture	UPPER DECK	1724001290	Cortem Spa	Cortem Spa	24/86772	LIFEX-ME-0645-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	HAZARDOUS-AREA_8 HAZARDOUS-AREA_1
ELF-200N1-02-L1-11	Normal Lighting Fixture	UPPER DECK	1724001290	Cortem Spa	Cortem Spa	24/86772	LIFEX-ME-0645-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	HAZARDOUS-AREA_3 HAZARDOUS-AREA_2 HAZARDOUS-AREA_5 HAZARDOUS-AREA_6
ELF-200N1-02-L1-12	Normal Lighting Fixture	UPPER DECK	1724001290	Cortem Spa	Cortem Spa	24/86772	LIFEX-ME-0645-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	HAZARDOUS-AREA_1 HAZARDOUS-AREA_2 HAZARDOUS-AREA_5 HAZARDOUS-AREA_4
ELF-200N1-02-L1-13	Normal Lighting Fixture	UPPER DECK	1724001290	Cortem Spa	Cortem Spa	24/86772	LIFEX-ME-0645-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	HAZARDOUS-AREA_1 HAZARDOUS-AREA_2 HAZARDOUS-AREA_5 HAZARDOUS-AREA_4
ELF-200N1-02-L1-14	Normal Lighting Fixture	UPPER DECK	1724001290	Cortem Spa	Cortem Spa	24/86772	LIFEX-ME-0645-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	
ELF-200N1-02-L1-15	Normal Lighting Fixture	UPPER DECK	1724001290	Cortem Spa	Cortem Spa	24/86772	LIFEX-ME-0645-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	
ELF-200N1-02-L1-16	Normal Lighting Fixture	UPPER DECK	1724001290	Cortem Spa	Cortem Spa	24/86772	LIFEX-ME-0645-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	

EU Type Examination Certificate CML 20ATEX3018X Issue 1

1 Equipment intended for use in Potentially Explosive Atmospheres Directive 2014/34/EU

2 Equipment **LifEx-ME, LifEx-MN and LifEx-MT series of linear lighting fixtures**

3 Manufacturer **Cortem S.p.A.**

4 Address **Via Aquileia 10**
34070 Villesse
(GO)
Italy

5 The equipment is specified in the description of this certificate and the documents to which it refers.

6 CML B.V., Chamber of Commerce No 6738671, Koopvaardijweg 32, 4906CV Oosterhout, The Netherlands, Notified Body Number 2776, in accordance with Article 17 of Directive 2014/34/EU of the European Parliament and of the Council, dated 26 February 2014, certifies that this equipment has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of equipment intended for use in potentially explosive atmospheres given in Annex II to the Directive.

The examination and test results are recorded in the confidential reports listed in Section 12.

7 If an 'X' suffix appears after the certificate number, it indicates that the equipment is subject to conditions of safe use (affecting correct installation or safe use). These are specified in Section 14.

8 This EU Type Examination certificate relates only to the design and construction of the specified equipment or component. Further requirements of Directive 2014/34/EU Article 13 apply to the manufacture of the equipment or component and are separately certified.

9 Compliance with the Essential Health and Safety Requirements, with the exception of those listed in the confidential report, has been demonstrated through compliance with the following documents:

EN IEC 60079-0:2018	EN 60079-1:2014	EN IEC 60079-7:2015+A1:2018
EN 60079-18:2015+A1:2017	EN 60079-31:2014	

10 The equipment shall be marked with the following:

LifEx-ME	LifEx-MN and LifEx-MT
Ex db eb mb IIC T.. Gb	Ex tb IIIC T…°C Db
Ex eb mb IIC T.. Gb *(when Ex mb LED drivers are used)*	IP66
Ex tb IIIC T…°C Db	
IP66	
Ta=* see description	Ta=* see description

11 Description

The LifEx is a range of linear LED lighting fixtures that are available in three different configurations for different applications, designated as the LifEx-ME, LifEx-MT and LifEx-MN.

LifEx-ME

The LifEx-ME version has an Equipment Protection Level of EPL Gb and Db and utilises types of protection increased safety (eb) and dust protection by enclosure (tb), along with encapsulation (mb) for the light source and flameproof (db) for the driver.

It is constructed from an aluminium enclosure, with either a glass or polycarbonate lens and with optional polycarbonate diffuser.

LifEx-MN

The LifEx-MN version has an Equipment Protection Level of EPL Gc and Db and utilises types of protection increased safety (ec) and dust protection by enclosure (tb).

It is constructed from an aluminium enclosure, with polycarbonate diffuser and/or with optional glass or polycarbonate lens.

LifEx-MT

The LifEx-MT versions has an Equipment Protection Level of EPL Db and utilises types of protection dust protection by enclosure (tb).

It is constructed from an aluminium enclosure, with polycarbonate diffuser and/or with optional glass or polycarbonate lens.

Design Options

Every configuration is available in lengths ranging from 300 mm to 1500 mm, and power ratings up to a maximum of 105W of nominal power.

The LifEx can be used in only normal service, in only emergency service or in normal and emergency service.

The minimum ambient temperature for the range is:

- -60°C for versions without battery
- -60°C for versions with the battery heater
- -20°C for versions with battery

The range is available with the following maximum ambient temperatures:

	With glass lens and with/without polycarbonate diffuser	With Polycarbonate lens and with/without polycarbonate diffuser	Without lens polycarbonate diffuser only
LifEx-M...0310	+60°C	+60°C	+60°C
LifEx-M...0315	+60°C	+60°C	+60°C
LifEx-M...0330	+60°C	Configuration not available	Configuration not available
LifEx-M...0615	+60°C	+60°C	+60°C
LifEx-M...0630	+60°C	+50°C	+60°C
LifEx-M...0645	+57°C	+47°C	+60°C
LifEx-M...0660	+47°C	Configuration not available	+58°C
LifEx-M...1230	+60°C	+60°C	+60°C
LifEx-M...1260	+60°C	+50°C	+60°C
LifEx-M...1290	+60°C	+40°C	+60°C
LifEx-M...12120	+54°C	Configuration not available	+60°C
LifEx-M...1590	+60°C	+40°C	+60°C

Table 1: Maximum Ambient Temperatures

The following tables provide the Temperature Class (EPL Gb) and Maximum Surface Temperature (EPL Db) for each LifEx type, with the following notes:

- The LifEx-MN with an ambient temperature greater than 50°C is T5 or T4. T6 is not included.
- The Temperature Class (EPL Gb) and Maximum Surface Temperature (EPL Db) in the tables below are not applicable when the ambient temperature is not permitted in the above maximum ambient temperature range table.

13. (For example, the LifEx-M...0660 is not permitted with polycarbonate lens, therefore the Temperature Class (EPL Gb) and Maximum Surface Temperature (EPL Db) for this version in tables 2 and 3 are not applicable)

	Temperature Class (EPL Gb and Gc) and Maximum Surface Temperature (EPL Db) Based on ambient temperature													
	40°C		45°C		47°C		50°C		54°C		57°C		60°C	
	EPL Db	EPL Gb/Gc	EPL Db	EPL Gb/Gc	EPL Db	EPL Gb/Gc	EPL Db	EPL Gb/Gc	EPL Db	EPL Gb/Gc	EPL Db	EPL Gb/Gc	EPL Db	EPL Gb/Gc
LifEx-M...0310	T56°C	T6	T56°C	T6	T58°C	T6	T61°C	T6	T65°C	T6	T68°C	T6	T71°C	T6
LifEx-M...0315	T56°C	T6	T56°C	T6	T58°C	T6	T61°C	T6	T65°C	T6	T68°C	T6	T71°C	T6
LifEx-M...0615	T56°C	T6	T56°C	T6	T58°C	T6	T61°C	T6	T65°C	T6	T68°C	T6	T71°C	T6
LifEx-M...0630	T69°C	T6	T69°C	T5	T71°C	T5	T74°C	T5	T78°C	T5	T81°C	T4	T84°C	T4
LifEx-M...0645	T72°C	T5	T72°C	T5	T74°C	T5	T77°C	T5	T81°C	T4	T84°C	T4	T87°C	T4
LifEx-M...0660	T77°C	T5	T77°C	T4	T79°C	T4	T82°C	T4	T86°C	T4	T89°C	T4	T92°C	T4
LifEx-M...1230	T58°C	T6	T58°C	T6	T60°C	T6	T63°C	T6	T67°C	T6	T70°C	T6	T73°C	T6
LifEx-M...1260	T67°C	T6	T67°C	T5	T69°C	T5	T72°C	T5	T76°C	T5	T79°C	T4	T82°C	T4
LifEx-M...1290	T72°C	T5	T72°C	T5	T74°C	T4	T77°C	T4	T81°C	T4	T84°C	T4	T87°C	T4
LifEx-M...12120	T75°C	T5	T75°C	T4	T77°C	T4	T80°C	T4	T84°C	T4	T87°C	T4	T90°C	T4
LifEx-M...1590	T72°C	T5	T72°C	T5	T74°C	T4	T77°C	T4	T81°C	T4	T84°C	T4	T87°C	T4

Table 2: Temperature Class (EPL Gb) and Maximum Surface Temperature (EPL Db) for LifEx types with glass/polycarbonate lens and with polycarbonate diffuser

	Temperature Class (EPL Gb and Gc) and Maximum Surface Temperature (EPL Db) Based on ambient temperature					
	40°C		55°C		60°C	
	EPL Db	EPL Gc	EPL Db	EPL Gc	EPL Db	EPL Gc
LifEx-ME-0330	T58°C	T6	T73°C	T6	T78°C	T5
LifEx-MN-0330	T58°C	T6	T73°C	T5	T78°C	T4
LifEx-MT-0330	T58°C	-	T73°C	-	T78°C	-

Table 3: Temperature Class (EPL Gb and Gc) and Maximum Surface Temperature (EPL Db) for LifEx-M...-0330 types with glass/polycarbonate window and without polycarbonate diffuser

	Temperature Class (EPL Gb) and Maximum Surface Temperature (EPL Db) Based on ambient temperature													
	40°C		45°C		47°C		50°C		54°C		57°C		60°C	
	EPL Db	EPL Gb	EPL Db	EPL Gb	EPL Db	EPL Gb	EPL Db	EPL Gb	EPL Db	EPL Gb	EPL Db	EPL Gb	EPL Db	EPL Gb
LifEx-M...0310	T62°C	T6	T62°C	T6	T64°C	T6	T67°C	T6	T71°C	T6	T74°C	T6	T77°C	T6
LifEx-M...0315	T62°C	T6	T62°C	T6	T64°C	T6	T67°C	T6	T71°C	T6	T74°C	T6	T77°C	T6
LifEx-M...0615	T62°C	T6	T62°C	T6	T64°C	T6	T67°C	T6	T71°C	T6	T74°C	T6	T77°C	T6
LifEx-M...0630	T85°C	T6	T85°C	T5	T87°C	T5	T90°C	T5	T94°C	T5	T97°C	T4	T100°C	T4
LifEx-M...0645	T88°C	T6	T88°C	T5	T90°C	T5	T93°C	T5	T97°C	T4	T100°C	T4	T103°C	T4
LifEx-M...0660	T100°C	T6	T100°C	T4	T102°C	T4	T105°C	T4	T109°C	T4	T112°C	T4	T115°C	T4
LifEx-M...1230	T65°C	T6	T65°C	T6	T67°C	T6	T70°C	T6	T74°C	T6	T77°C	T6	T80°C	T6
LifEx-M...1260	T85°C	T6	T85°C	T5	T87°C	T5	T90°C	T5	T94°C	T5	T97°C	T4	T100°C	T4
LifEx-M...1290	T94°C	T6	T94°C	T5	T96°C	T4	T99°C	T4	T103°C	T4	T106°C	T4	T109°C	T4
LifEx-M...12120	T96°C	T5	T96°C	T4	T98°C	T4	T101°C	T4	T105°C	T4	T108°C	T4	T111°C	T4
LifEx-M...1590	T94°C	T6	T94°C	T5	T96°C	T4	T99°C	T4	T103°C	T4	T106°C	T4	T109°C	T4

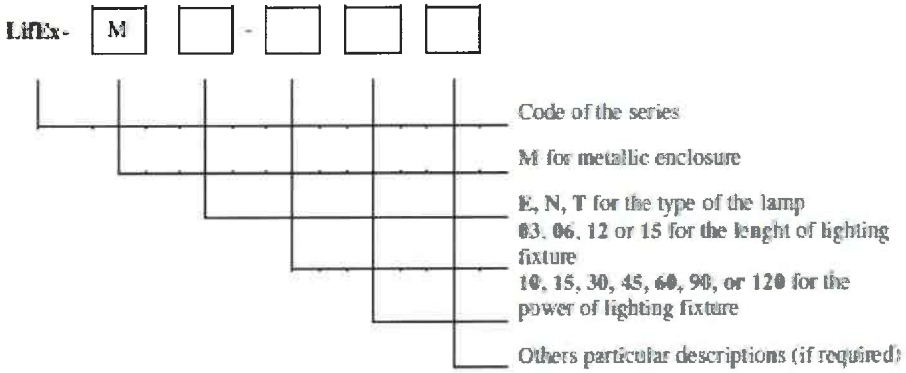
Table 4: Temperature Class (EPL Gb) and Maximum Surface Temperature (EPL Db) for LifEx types with glass/polycarbonate lens and without polycarbonate diffuser

	Maximum Surface Temperature (EPL Db) Based on ambient temperature						
	40°C	45°C	47°C	50°C	54°C	57°C	60°C
LifEx-M...0310	T56°C	T56°C	T58°C	T61°C	T65°C	T68°C	T71°C
LifEx-M...0315	T56°C	T56°C	T58°C	T61°C	T65°C	T68°C	T71°C
LifEx-M...0615	T56°C	T56°C	T58°C	T61°C	T65°C	T68°C	T71°C
LifEx-M...0630	T69°C	T69°C	T71°C	T74°C	T78°C	T81°C	T84°C
LifEx-M...0645	T72°C	T72°C	T74°C	T77°C	T81°C	T84°C	T87°C
LifEx-M...0660	T77°C	T77°C	T79°C	T82°C	T86°C	T89°C	T92°C
LifEx-M...1230	T58°C	T58°C	T60°C	T63°C	T67°C	T70°C	T73°C
LifEx-M...1260	T67°C	T67°C	T69°C	T72°C	T76°C	T79°C	T82°C
LifEx-M...1290	T72°C	T72°C	T74°C	T77°C	T81°C	T84°C	T87°C
LifEx-M...12120	T75°C	T75°C	T77°C	T80°C	T84°C	T87°C	T90°C
LifEx-M...1590	T72°C	T72°C	T74°C	T77°C	T81°C	T84°C	T87°C

Table 5: (Applicable to EPL Db only) Maximum Surface Temperature for LifEx types without glass/polycarbonate lens and with polycarbonate diffuser

The equipment has been separately tested against the requirements of IEC 60529 and it meets IP66. The gaskets on the caps provide the degree of protection.

The equipment uses the following nomenclature:



Variation 1:

This variation has assed the following changes:

i. Addition of an optional new removable cover for "easy installation" (which use the new aluminium extrusion);
ii. Addition of an optional external battery box;
iii. minimum ambient temperature extended to -60°C when Ex mb heater is used;
iv. Additional optional Ex mb EBM LED driver as an alternative to EBL3040 / EBL4040 Ex db series LED drivers;
v. added 30W model for size 300mm (LifEx-M..-0330).

12 Certificate history and evaluation reports

Issue	Date	Associated report	Notes
0	06 May 2020	R13027A/00	Prime Issue
1	01 Jul 2022	R14875A/00	Introduction of Variation 1

Note: Drawings that describe the equipment or component are listed in the Annex.

13 Conditions of Manufacture

The following conditions are required of the manufacturing process for compliance with the certification.

i. Where the product incorporates certified parts or safety critical components the manufacturer shall ensure that any changes to those parts or components do not affect the compliance of the certified product that is the subject of this certificate.
ii. The LifEx series lighting fixtures are to be designed in accordance with general electrical safety standards.
iii. The routine dielectric strength test on the LifEx-ME and LifEx-MN luminaries with applied voltage shall be performed at 2U + 1000V with a minimum value of 1560V (U = maximum rated voltage of the lamp)

iv. A routine visual inspection of the encapsulated parts is required, as per Clause 9.1 of IEC 60079-18. There shall be no visible damage or deformation to the encapsulant.

v. Where the removable battery pack is used with phoenix contacts, if used with a T6 version of the equipment, the maximum ambient shall be limited to +40°C.

14 Specific Conditions of Use (Special Conditions)

The following conditions relate to safe installation and/or use of the equipment.

i. Cable entries are provided which have less than 5 threads engaged. Care must be taken to ensure the correct gaskets and washers are sued with the cable gland to maintain IP66.

ii. The equipment uses an external part that is constructed from non-metallic materials, and as such care is to be taken to prevent an electro-static charging hazard. See instruction manual for details.

iii. For versions with glass window of 4mm thickness without cover, the luminaire must be installed in a location with a low risk of mechanical danger

iv. The temperature at the entry point may reach up to 75°C. Suitably rated cable glands must be used.

Certificate Annex

Certificate Number	**CML 20ATEX3018X**
Equipment	**LifEx-ME, LifEx-MN and LifEx-MT series of linear lighting fixtures**
Manufacturer	**Cortem S.p.A.**

The following documents describe the equipment or component defined in this certificate:

Issue 0

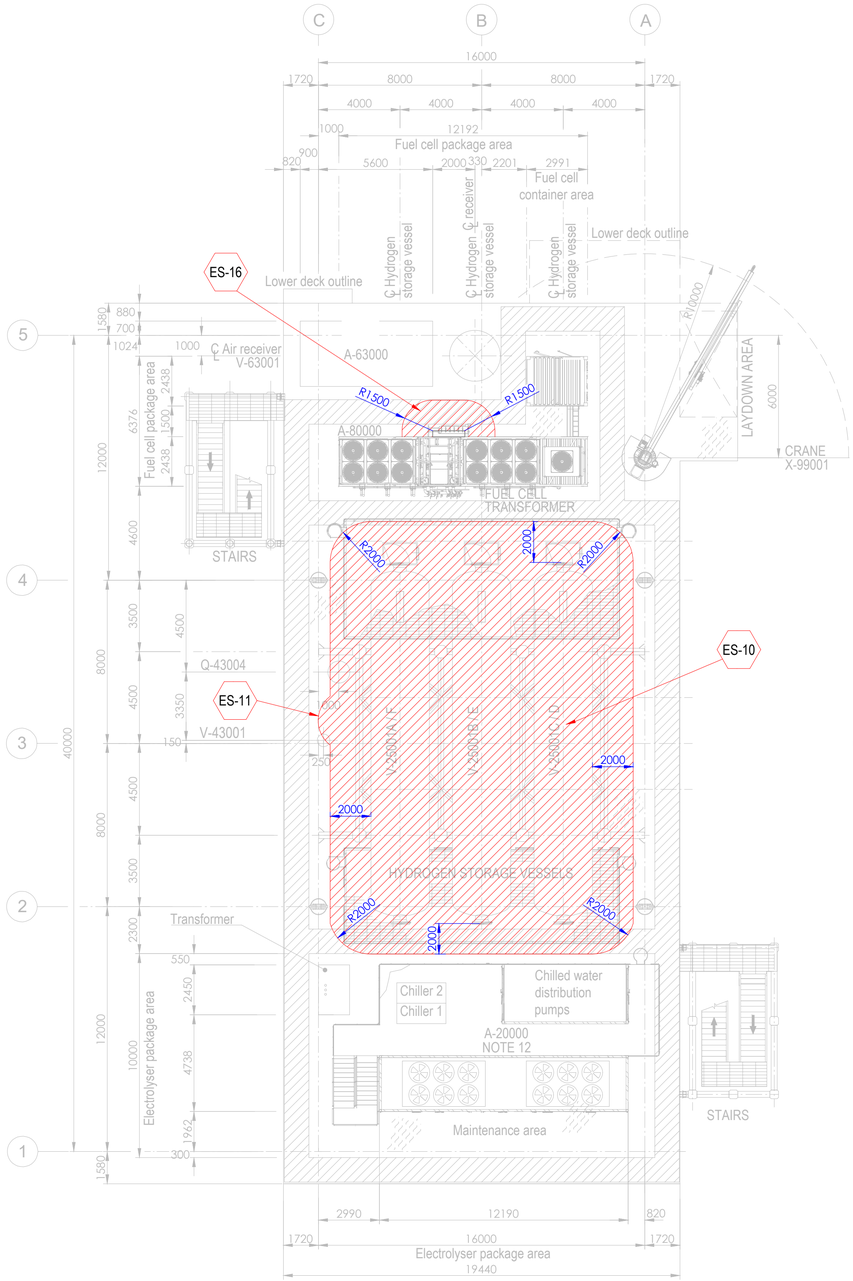
Drawing No	Sheets	Rev	Approved date	Title
A3-7466	1 to 6	0	06 May 2020	LifEx-M Luminaires
A4-7467	1 to 6	0	06 May 2020	Technical Note

Issue 1

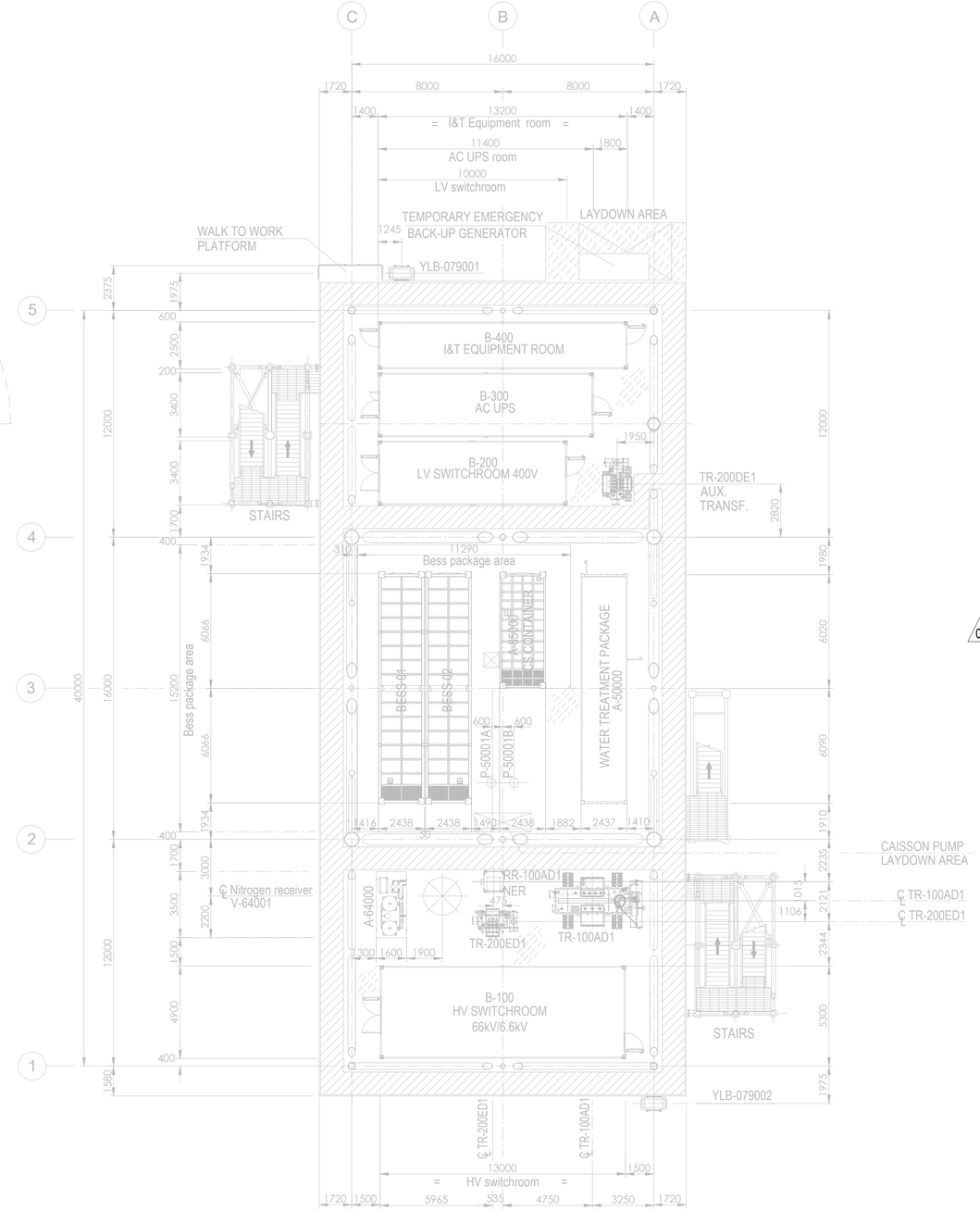
Drawing No.	Sheets	Rev	Approved date	Title
A3-7466	1 of 6	1	01 Jul 2022	LifEx-M Luminaires Assembly and External Dimensions
A3-7466	2 of 6	1	01 Jul 2022	LifEx-M Luminaires Detail of sealing and op is protection
A3-7466	3 of 6	1	01 Jul 2022	LifEx-M Luminaires Detail of driver and inverter for LifEx-ME version
A3-7466	4 of 6	1	01 Jul 2022	LifEx-M Luminaires Circuit diagram for LifeEx-ME version
A3-7466	5 of 6	1	01 Jul 2022	LifEx-M Luminaires Circuit diagram LifEx-MN and LifEx-MT version
A3-7466	6 of 6	1	01 Jul 2022	LifEx-M Luminaires Detail of battery pack
A3-7729	1 to 3	0	01 Jul 2022	Battery heater for -60°C /-40°C applications Assembly and External Dimensions
A4-7727	1 to 8	0	01 Jul 2022	Technical Note

DRAWING NO. 123A90-DDL-SAF-DL-30022

REV. 02



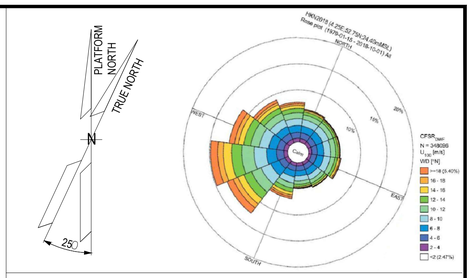
PLAN ON UPPER DECK
EL+30.310 T.O.S.



PLAN ON LOWER DECK
EL+23.310 T.O.S.

Tag No.	Equipment Tag	Description	Material	Ventilation Type
01	P-50001 A/B	SEA WATER LIFT PUMPS	SEA WATER	NATURAL (OPEN AREA)
02	Q-43004	HYDROGEN VENT	HYDROGEN	NATURAL (OPEN AREA)
03	V-43001	HYDROGEN VENT KO DRUM	HYDROGEN	NATURAL (OPEN AREA)
04	V-25001 (A/B/C/D/E/F)	HYDROGEN STORAGE VESSELS	HYDROGEN	NATURAL (OPEN AREA)
05	V-63001	AIR RECEIVER	INSTRUMENT AIR	NATURAL (OPEN AREA)
06	A-20000	ELECTROLYSER PACKAGE		
07	A-63000	INSTRUMENT AIR PACKAGE		
08	A-80000	FUEL CELL PACKAGE		
09	A-85000	BESS PACKAGE		
10	YLB-079001/2	LIFE RAFTS		
11	A-50000	WATER TREATMENT PACKAGE		

Tag No.	Equipment Tag	Description	Material	Ventilation Type
12	A-64000	NITROGEN SYSTEM		
13	B-100	HV SWITCHROOM 66kV/6.6kV		
14	B-200	LV SWITCHROOM 400V		
15	B-300	AC UPS EQUIPMENT ROOM		
16	B-400	I&T EQUIPMENT ROOM		
17	TR-100AD1	TRANSFORMER MAIN 66kV/6.6kV		
18	RR-100AD1-NER	NEUTRAL EARTHING RESISTOR		
19	TR-200DE1	TRANSFORMER AUX. 6.6kV/0.4kV		
20	TR-200ED1	SOLAR TRANSFORMER PV FARM EQUIPMENT		
21	X-99001	CRANE		
22	V-64001	NITROGEN RECEIVER		



NOTES

1. ALL DIMENSIONS IN mm U.N.O.
2. ALL ELEVATIONS IN METERS.
3. PLATFORM NORTH DIRECTION IS N 25°W.
4. VENT TOP SHALL BE REACHEABLE FOR MAINTENANCE PURPOSE.
5. THE BESS IS CONSIDERED SAFE AREA EXCEPT EXTRACTORES FROM BATTERIES , CURRENTLY NOT SHOWN IN DRAWINGS, SINCE INFORMATION FROM VENDOR IS NOT YET AVAILABLE.[ES17].
6. THE LOCATION OF EMISSION SOURCES ON THE LAYOUT ARE ONLY INDICATIVE. EMISSION SOURCES CONSIDERED ARE PRESENT WITHIN THE EXTENSION OF HAZARDOUS CLASSIFIED AREAS SHOWN ON THE LAYOUT. THIS IS BECAUSE VALVES AND FLANGES,WHICH ARE CONSIDERED POTENTIAL SOURCES OF RELEASE POINTS FOR FLAMMABLE GAS ARE NOT SHOWN ON CURRENT LAYOUT PROVIDED. THE SAME APPLIES TO THE EMISSION SOURCES FOR CPI'S ITEM.
7. IDENTIFIED EMISSION SOURCES DETAIL.

02
8. FOR DETAILS RELATED TO ELECTROLYSER PACKAGE INTERNAL ENCLOSURES REFER TO DRAWING 224J10-DDL-PP-DA-00001 REV 0.
9. FOR DETAILS RELATED TO FUELL CELL PACKAGE INTERNAL ENCLOSURES REFER TO DRAWING K559-2254-CWIWP4202202-B01-001 REV 009".
10. THE N.6 HYDROGEN STORAGE VESSELS ARE NOT CLASSIFIED INTERNALLY SINCE THEY ARE DESIGNED TO CONTAIN HYDROGEN OR NITROGEN FOR THE ENTIRE DURATION OF THE 2 YEARS OF OPERATION.

EMISSION SOURCE No.	IDENTIFIED AREAS
ES10	HYDROGEN STORAGE VESSLES
ES11	HYDROGEN VENT KO DRUM
ES16	FUEL CELL

LEGEND

ZONE 0 — ZONE 1

ZONE 2 — ES EMISSION SOURCES

123A90-DDL-PP-DS-70071	PLOT PLAN - BELOW LOWER DECK
123A90-DDL-PP-DS-70072	PLOT PLAN - ELEVATION LOOKING NORTH & EAST

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	15/01/25	MMA	CCA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	27/08/24	MMA	CCA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	08/02/24	MMA	CCA	DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND

ROSETTI MARINO

TITLE :
BASE LOAD POWER HUB (BLPH)
HAZARDOUS AREA CLASSIFICATION
LOWER & UPPER DECK

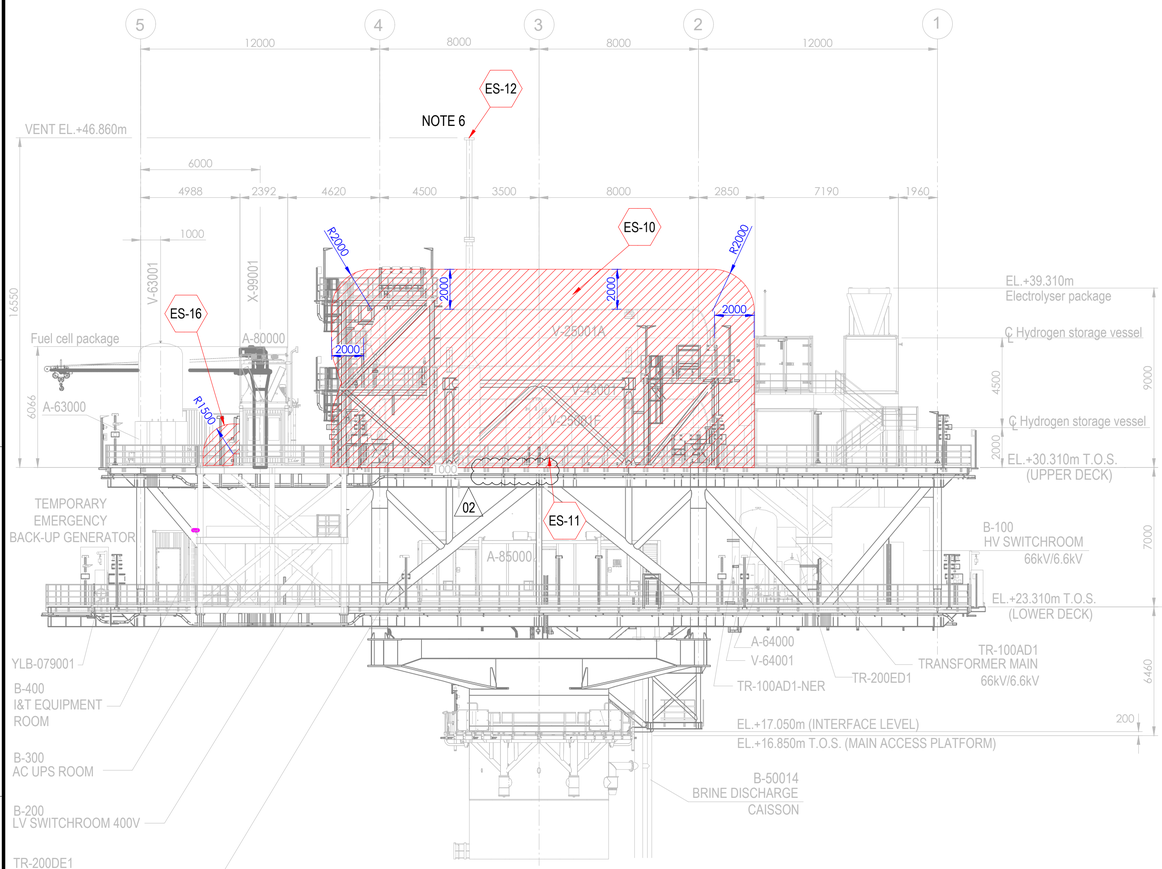
CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK			SCALE 1:150
DRAWN M. MAGNI	CHECKED C. CARACCIOLO	APPROVED D. LO STERZO	DATE 03/07/24

	DRAWING NO.	SHEET	REV.
A1	123A90-DDL-SAF-DL-30022	001	02

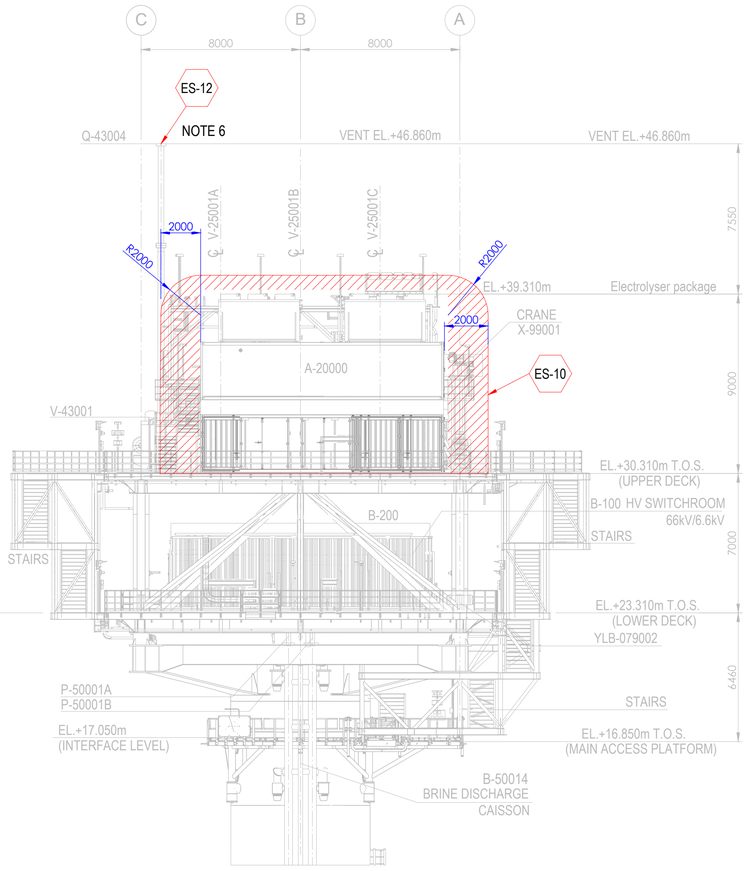
File Name : 123A90-DDL-SAF-DL-30022 Rev.02

DRAWING NO. 123A90-DDL-SAF-DL-30024

REV. 02

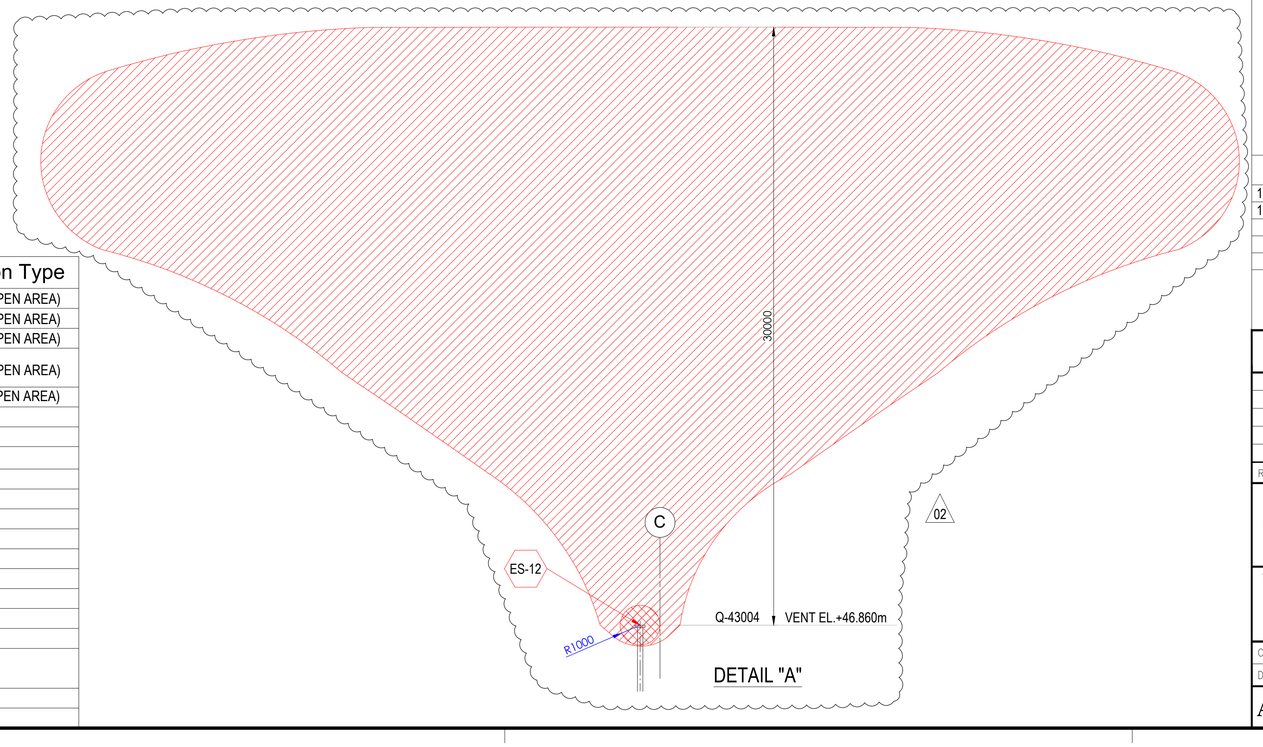


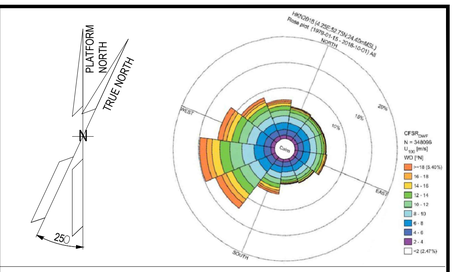
ELEVATION LOOKING EAST



ELEVATION LOOKING NORTH

Tag No.	Equipment Tag	Description	Material	Ventilation Type
01	P-50001 A/B	SEA WATER LIFT PUMPS	SEA WATER	NATURAL (OPEN AREA)
02	Q-43004	HYDROGEN VENT	HYDROGEN	NATURAL (OPEN AREA)
03	V-43001	HYDROGEN VENT KO DRUM	HYDROGEN	NATURAL (OPEN AREA)
04	V-25001 (A/B/C/D/E/F)	HYDROGEN STORAGE VESSELS	HYDROGEN	NATURAL (OPEN AREA)
05	V-63001	INSTRUMENT AIR RECEIVER	INSTRUMENT AIR	NATURAL (OPEN AREA)
06	A-20000	ELECTROLYSER PACKAGE		
07	A-63000	INSTRUMENT AIR PACKAGE		
08	A-80000	FUEL CELL PACKAGE		
09	A-85000	BESS PACKAGE		
10	YLB-079001/2	LIFE RAFTS		
11	B-100	HV SWITCHROOM 66kV/6.6kV		
12	B-200	LV SWITCHROOM 400V		
13	B-300	AC UPS EQUIPMENT ROOM		
14	B-400	I&T EQUIPMENT ROOM		
15	TR-100AD1	TRANSFORMER MAIN 66kV/6.6kV		
16	TR-100AD1-NER	NEUTRAL EARTHING RESISTOR		
17	TR-200DE1	TRANSFORMER AUX. 6.6kV/0.4kV		
18	TR-200ED1	SOLAR TRANSFORMER PV FARM EQUIPMENT		
19	X-99001	CRANE		
20	V-64001	NITROGEN RECEIVER		





NOTES

1. ALL DIMENSIONS IN mm U.N.O
2. ALL ELEVATIONS IN METERS.
3. PLATFORM NORTH DIRECTION IS N 25°W.
4. VENT TOP SHALL BE REACHEABLE FOR MAINTENANCE PURPOSE.
5. THE BESS IS CONSIDERED SAFE AREA EXCEPT EXTRACTORES FROM BATTERIES , CURRENTLY NOT SHOWN IN DRAWINGS, SINCE INFORMATION FROM VENDOR IS NOT YET AVAILABLE.[ES17]
6. FOR ES12 PLUME, PLEASE REFER TO THE DETAIL "A" BELOW. (02)
7. THE LOCATION OF EMISSION SOURCES ON THE LAYOUT ARE ONLY INDICATIVE. EMISSION SOURCES CONSIDERED ARE PRESENT WITHIN THE EXTENSION OF HAZARDOUS CLASSIFIED AREAS SHOWN ON THE LAYOUT. THIS IS BECAUSE VALVES AND FLANGES,WHICH ARE CONSIDERED POTENTIAL SOURCES OF RELEASE POINTS FOR FLAMMABLE GAS ARE NOT SHOWN ON CURRENT LAYOUT PROVIDED. THE SAME APPLIES TO THE EMISSION SOURCES FOR CPI'S ITEM.
8. IDENTIFIED EMISSION SOURCES DETAIL

EMISSION SOURCE No.	IDENTIFIED AREAS
ES10	HYDROGEN STORAGE VESSLES
ES11	HYDROGEN VENT KO DRUM
ES12	HYDROGEN VENT
ES16	FUEL CELL

LEGEND

ZONE 0 — ZONE 1

ZONE 2 — ES EMISSION SOURCES

REFERENCE DOCUMENTS

123A90-DDL-PP-DS-70070	PLOT PLAN - LOWER & UPPER DECK
123A90-DDL-PP-DS-70071	PLOT PLAN - BELOW LOWER DECK

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	15/01/24	MMA	CCA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	27/08/24	MMA	CCA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	08/02/24	MMA	CCA	DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND

ROSETTI MARINO

TITLE :
BASE LOAD POWER HUB (BLPH)
HAZARDOUS AREA CLASSIFICATION
ELEVATION LOOKING NORTH & EAST

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK			SCALE 1:150
DRAWN M. MAGNI	CHECKED C. CARACCIOLO	APPROVED D. LO STERZO	DATE 03/07/24

A1 | DRAWING NO. 123A90-DDL-SAF-DL-30024 | SHEET 001 | REV. 02

File Name : 123A90-DDL-SAF-DL-30024 Rev.02

ITEM	Tag	ELF-200N1-02-L1-05 : NORMAL LIGHT		Dwg	123A90-DDL-EL-DL-20118
	S/Sys	83-40 : Normal Lighting Upper Deck		Module	UD
TASK	code	C10001665	Location: Onshore Activities	User	Rosetti Marino Quality Control
FORM	Process	MC	Activity: CCK / Discipline: ATEX / Form: CJX01		Hazardous Area Equipment Detailed Inspection

Schedule Ref. #				**Area Code**					
Area Class Drawing	123A90-DDL-SAF-DL-30022			**Serial No.**	24/86772				
Manufacturer	Cortem Spa			**Model**	LIFEX-ME-1260N-BB				
Cert No.	CML 20 ATEX 3018X			**Equipment Ambient Temp.**	-60°C to +60°C				
Area Classification	hazardous	**Zone**	2	**Gas group**	IIC	**Temp class**	T1		
Equipment Protection Type	Ex db	**EPL**	Gb	**Gas group**	IIC	**Temp class**	T5	**IP Rating**	IP66

Detailed Note:

1) Inspection shall only be performed by competent personnel

2) All fields are to be completed. Any non-applicable field shall state “NA”. Comments are required for ‘Failure’ column ONLY.

3) An Inspection Sheet should be completed for EACH individual item of Equipment.

	General Equipment	Detailed	OK/NA/PL	Comments
1	Equipment is appropriate to the EPL / Zone requirements of the area	x	OK	
2	Equipment group is correct	x	OK	
3	Equipment temperature class is correct	x	OK	
4	Degree of IP protection of equipment is appropriate for the level of protection	x	OK	
5	Equipment circuit identification is correct	x	OK	
6	Equipment circuit identification is available	x	NA	
7	Enclosure glass parts and glass-to-metal sealing gaskets and / or compounds are satisfactory	x	OK	
8	There is no damage or unauthorized modifications	x	OK	
9	There is no evidence of unauthorized modifications	x	OK	
10	Bolts, cable entry devices (direct and indirect) & blanking elements are of the correct type, are complete & tight		NA	
	Physical check	x	PL	
11	Threaded covers on enclosures are of the correct type, are tight and secured		NA	
	Physical check	x	NA	
12	Joint surfaces are clean and undamaged and gaskets, if any, are satisfactory and positioned correctly	x	OK	
13	Condition of enclosure gaskets is satisfactory	x	OK	
14	There is no evidence or ingress of water or dust in the enclosure in accordance with the IP rating	x	OK	
15	Electrical connections are tight	x	OK	
16	Bridging links do not reduce creepage / clearance and are allowed	x	NA	
17	Unused terminals are tightened	x	OK	
18	Encapsulated components are undamaged	x	NA	
19	Flameproof components are undamaged	x	NA	
20	Fluorescent lamps are not indicating EOL effects (only for Ex “e” – Ex “n” – Ex “t”)	x	NA	
21	HID lamps are not indicating EOL effects	x	NA	
22	Lamp type, rating, pin configuration and position are correct	x	NA	
23	Breathing and drainage devices are satisfactory	x	OK	
24	Type of cable is appropriate	x	OK	
25	There is no obvious damage to the cables	x	OK	
26	Cable glands are the correct type and installed correctly	x	OK	
27	Sealing of trunking, ducts, pipes and or conduits is satisfactory	x	NA	
28	Stopping boxes and cable boxes are corrected filled	x	OK	

ITEM	Tag	ELF-200N1-02-L1-05	: NORMAL LIGHT			Dwg	123A90-DDL-EL-DL-20118
	S/Sys	83-40	: Normal Lighting Upper Deck			Module	UD
TASK	code	C10001665		Location	Onshore Activities	User	Rosetti Marino Quality Control
FORM	Process	MC	Activity CCK	Discipline	ATEX	Form	CJX01 Hazardous Area Equipment Detailed Inspection

29	Integrity of conduit system and interface with mixed system maintained	x	NA	
30	Earthing connections, including any supplementary earthing bonding connections are satisfactory (for example connections are tight and conductors are of sufficient cross-section		NA	
	Physical check	x	OK	
31	Automated electric protective devices operate within permitted limits	x	NA	
32	Special conditions (if applicable) have been complied with.	x	OK	
33	All cable cores are uniquely labeled	x	OK	
34	Cable cores not in use are correctly terminated	x	NA	
35	Equipment is adequately protected against corrosion, weather, vibration and other adverse factors	x	PL	
36	No undue accumulation of dust and dirt	x	OK	
37	All equipment housings are clean and dry	x	OK	
38	All moving parts are free and have no mechanical damage	x	NA	
	Applicable for Installation of Heating Systems			
39	Temperature sensors function according to manufacturer's documents (only applicable for Ex-d e Ex-e)	x	NA	
40	Safety cut off devices function according to manufacturer's documents (only applicable for Ex-d e Ex-e)	x	NA	
41	The setting of the safety cut off is sealed (only applicable for Ex-d e Ex-e)	x	NA	
42	Reset of a heating system safety cut off possible with tool only(only applicable for Ex-d e Ex-e)	x	NA	
43	Auto-reset is not possible (only applicable for Ex-d e Ex-e)	x	NA	
44	Reset of a safety cut off under fault conditions is prevented (only applicable for Ex-d e Ex-e)	x	NA	
45	Safety cut off independent from control system (only applicable for Ex-d e Ex-e)	x	NA	
46	Level switch is installed and correctly set, if required (only applicable for Ex-d e Ex-e)	x	NA	
47	Flow switch is installed and correctly set, if required (only applicable for Ex-d e Ex-e)	x	NA	
	Extra Ex d checks			
48	Obstructions adjacent to flame proof flanged joints are in accordance with IEC 60079-14	x	NA	
49	Ex d conduits seals are fitted to all conduits and satisfactorily sealed	x	NA	
50	Cable glands are of the correct type and installed correctly	x	OK	
51	Adaptors, reducers, stop ends, etc. are all certified Ex d	x	OK	
52	Flame path are clean and undamaged	x	OK	
53	Flange gap dimensions are within tolerances	x	NA	
54	Motor fans have sufficient clearance to the enclosure and/or covers, cooling systems are undamaged, motor foundations have no indentations or cracks	x	NA	
55	The ventilation airflow is not impeded	x	NA	
56	Insulation resistance (IR) of the motor windings is satisfactory	x	NA	
57	Fault loop impedance (TN systems) or earthing resistance (IT systems) is satisfactory	x	NA	
58	Variable voltage/frequency installation complies with documentation	x	NA	
	Extra Ex e checks			
59	All Equipment is Ex e certified (including components within enclosure)	x	NA	
60	Power conductors are not bunched together causing possible hot spots	x	NA	
61	Motor fans have sufficient clearance to the enclosure and/or covers, cooling systems are undamaged, motor foundations have no indentations or cracks	x	NA	
62	Insulation resistance (IR) of the motor windings is satisfactory	x	NA	
63	Fault loop impedance (TN systems) or earthing resistance (IT systems) is satisfactory	x	NA	
64	The ventilation airflow is not impeded	x	NA	
65	Motor protection devices operate within the permitted tE or tA time limits.	x	NA	
66	Variable voltage/frequency installation complies with documentation	x	NA	

ROSETTI MARINO PROVERLIS CROSSWIND

ITEM	Tag	ELF-200N1-02-L1-05	: NORMAL LIGHT			Dwg	123A90-DDL-EL-DL-20118
	S/Sys	83-40	: Normal Lighting Upper Deck			Module	UD
TASK	code	C10001665		Location	Onshore Activities	User	Rosetti Marino Quality Control
FORM	Process	MC	Activity CCK	Discipline	ATEX	Form	CJX01
							Hazardous Area Equipment Detailed Inspection

	Extra Ex n (nR, nL) checks				
67	All Terminals are Ex n certified (if required on certificate)	x	NA		
68	Hermetically sealed and enclosed break devices are undamaged	x	NA		
69	Restricted breathing properties satisfactory (conduct vacuum test)	x	NA		
70	Test port, if fitted, is functional (type “nR” only)	x	NA		
71	Breathing operation is satisfactory (type “nR” only)	x	NA		
72	Motor fans have sufficient clearance to the enclosure and/or covers, cooling systems are	x	NA		
73	The ventilation airflow is not impeded	x	NA		
74	Insulation resistance (IR) of the motor windings is satisfactory	x	NA		
75	Motor protection devices operate within the permitted tE or tA time limits.	x	NA		
76	Variable voltage/frequency installation complies with documentation	x	NA		
	Extra Ex p checks				
77	Pressurization gas is correct type	x	NA		
78	Actual pressure is within maximum and minimum settings for equipment	x	NA		
79	Timers set as per certification documentation	x	NA		
80	Alarms and trip functions operate correctly as per certification documentation	x	NA		
81	Fault loop impedance (TN systems) or earthing resistance (IT systems) is satisfactory	x	NA		
82	Automatic electrical protective devices operate within permitted limits	x	NA		
83	Automatic electrical protective devices are set correctly	x	NA		
84	Protective gas inlet temperature is below maximum specified	x	NA		
85	Ducts, pipes and enclosures are in good condition	x	NA		
86	Protective gas is substantially free from contaminants	x	NA		
87	Protective gas pressure and/or flow is adequate	x	NA		
88	Pressure and/or flow indicators, alarms and interlocks function correctly	x	NA		
89	Conditions of spark and particle barriers of ducts for exhausting the gas in hazardous area are satisfactory	x	NA		
90	Specific conditions of use (if applicable) are complied with		NA		
	Extra Ex i (Intrinsically Safe – IS) checks				
91	Equipment has adequate circuit identification for ‘IS’ Installation	x	NA		
92	Cables are installed in accordance with the documentation	x	NA		
93	Segregation is maintained between IS and non-IS Circuits	x	NA		
94	Cable screens are isolated at one end (field side)	x	NA		
95	Cable screens are earthed in accordance with the documentation	x	NA		
96	Safety barrier units, relays and other energy limiting devices are of the approved type, installed in	x	NA		
97	Equipment installed is the one specified in the documentation	x	NA		
98	Ambient temperature range of the apparatus is correct for the installation	x	NA		
99	Service temperature range of the apparatus is correct for the installation	x	NA		
100	Installation is clearly labelled	x	NA		
101	Printed circuit boards are clean and undamaged	x	NA		
102	The maximum voltage Um of the associated apparatus is not exceeded	x	NA		
103	Point-to-point connections are all correct	x	NA		
104	Earth continuity is satisfactory (e.g. connections are tight, conductors are of sufficient cross-section)	x	NA		
105	Earth connections maintain the integrity of the type of protection	x	NA		
106	Intrinsically safe circuit earthing is satisfactory	x	NA		
107	Insulation resistance is satisfactory	x	NA		
108	Short-circuit protection of the power supply is in accordance with the documentation	x	NA		

	BARRIER:	**Manufacturer:**	NA	**Model:**	NA		
		Authority:	NA	**Cert No:**	NA	**Type:**	NA

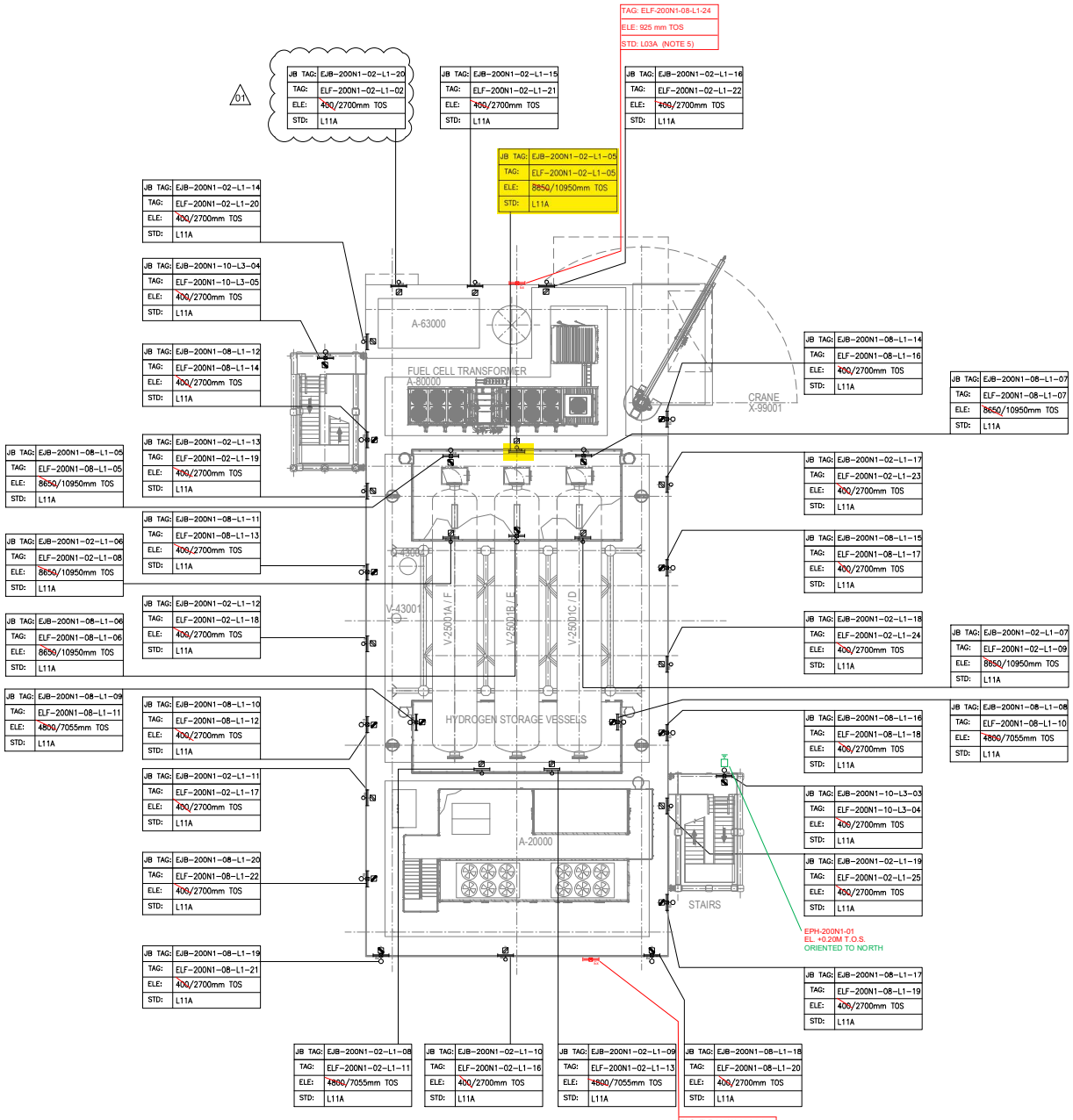
Remarks: Initial inspection should be detailed and carried out before equipment is brought into service as per IEC 60079-17

Please mark only one box as appropriate	
●	**Passed - Complete**
	Failed

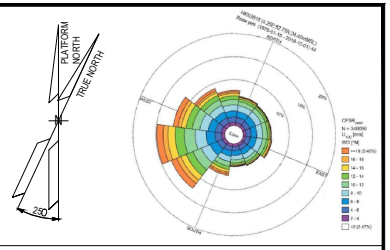
Page 3/3	Performed by	☐ WITNESS ☐ REVIEW	☐ WITNESS ☐ REVIEW
Company	ICS IMPIANTI	RM(ROSETTI MARINO)	
Name	Michele Tartaglia	Andrea Andreani	
Date	2025-01-08	2025-01-14	
Signature	PROVERLIS Digitaly signed by Michele Tartaglia 2025-01-08T10:03:11.263Z	PROVERLIS Digitaly signed by Andrea Andreani 2025-01-14T15:54:28.176Z	

DRAWING NO. 123A90-DDL-EL-DL-20118

REV. 01



PLAN ON UPPER DECK
EL+30.310 T.O.S.



NOTES

1. ALL DIMENSIONS AND ELEVATIONS ARE GIVEN IN mm UNLESS OTHERWISE NOTED.
2. ELEVATIONS REFER TO T.O.S.
3. ELEVATION OF THE LAMPS ARE REFFERED TO THE BOTTOM OF THE LAMP.
4. FOR THE ELEVATION OF JB, REFER TO THE TYPICAL INSTALLATION.
5. FOR ELF-200N1-08-L1-24 AND ELF-200N1-08-L1-25 CONSTRUCTION DETAILS REFER TO DOC. 123A90-DDL-ST-DD-90076

LEGEND

- EMERGENCY LIGHTING JB
- 60W LED EMERGENCY LUMINARIES
- 60W LED EMERGENCY LUMINARIES FIXTURE POLE MOUNTED
- NORMAL LIGHTING JB
- 45W LED NORMAL LUMINARIES
- 45W LED NORMAL LUMINARIES FIXTURE POLE MOUNTED
- WELDING SOCKET WITH INTEGRATED JB
- SMALL POWER SOCKET WITH INTEGRATED JB
- TWILIGHT RELAY SENSOR

JB TAG: — JB-TAG
TAG: — TAG
ELE: — ELEVATION
STD: — STANDARD

REFERENCE DOCUMENTS

123A90-DDL-PP-DL-70070	PLOT PLAN - LOWER & UPPER DECK
123A90-DDL-EL-DL-20100	ELECTRICAL EQUIPMENT LAYOUT - TOP DECK
123A90-DDL-EL-DD-20091	ELECTRICAL TYPICAL INSTALLATION DETAILS - LIGHTING SYSTEM
123A90-DDL-EL-DD-20092	ELECTRICAL TYPICAL INSTALLATION DETAILS - POWER SYSTEM & CABLE INSTALLATION
123A90-DDL-EL-RE-20153	LIGHTING CALCULATION STUDY REPORT
123A90-DDL-ST-DD-90076	IDENTIFICATION PANELS ASSEMBLY AND DETAILS

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	02/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	28/05/24	ASR	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DL-20118**

REV.:	DATE:	SIGNATURE:
1_F	26/11/24	G.Randi

ROSETTI MARINO SpA

CROSSWIND

ROSETTI MARINO

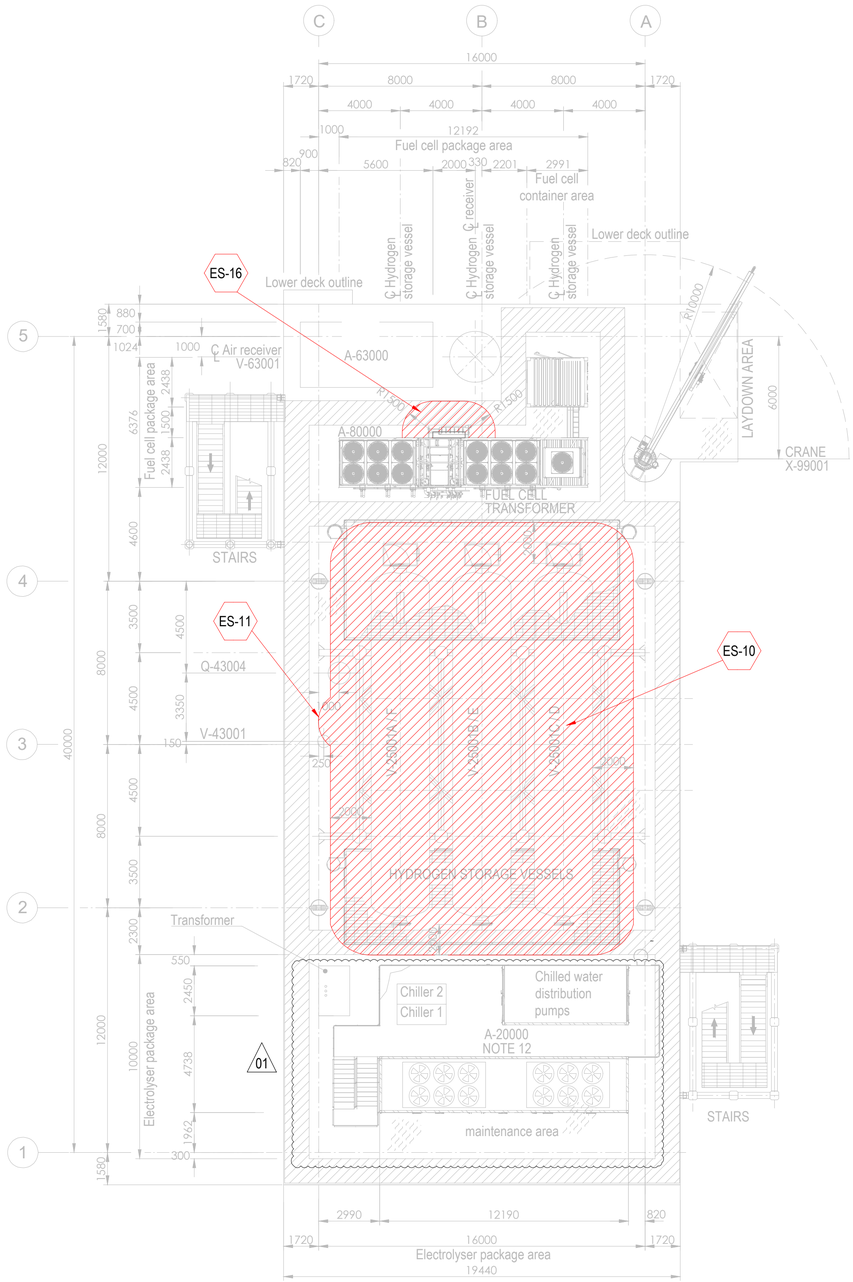
TITLE : BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET LAYOUT – TOP DECK

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK			SCALE 1:150
DRAWN ASR	CHECKED FMA/AMA	APPROVED FPA/DLO	DATE 01/08/24
A1	DRAWING NO. 123A90-DDL-EL-DL-20118	SHEET 1of2	REV. 01

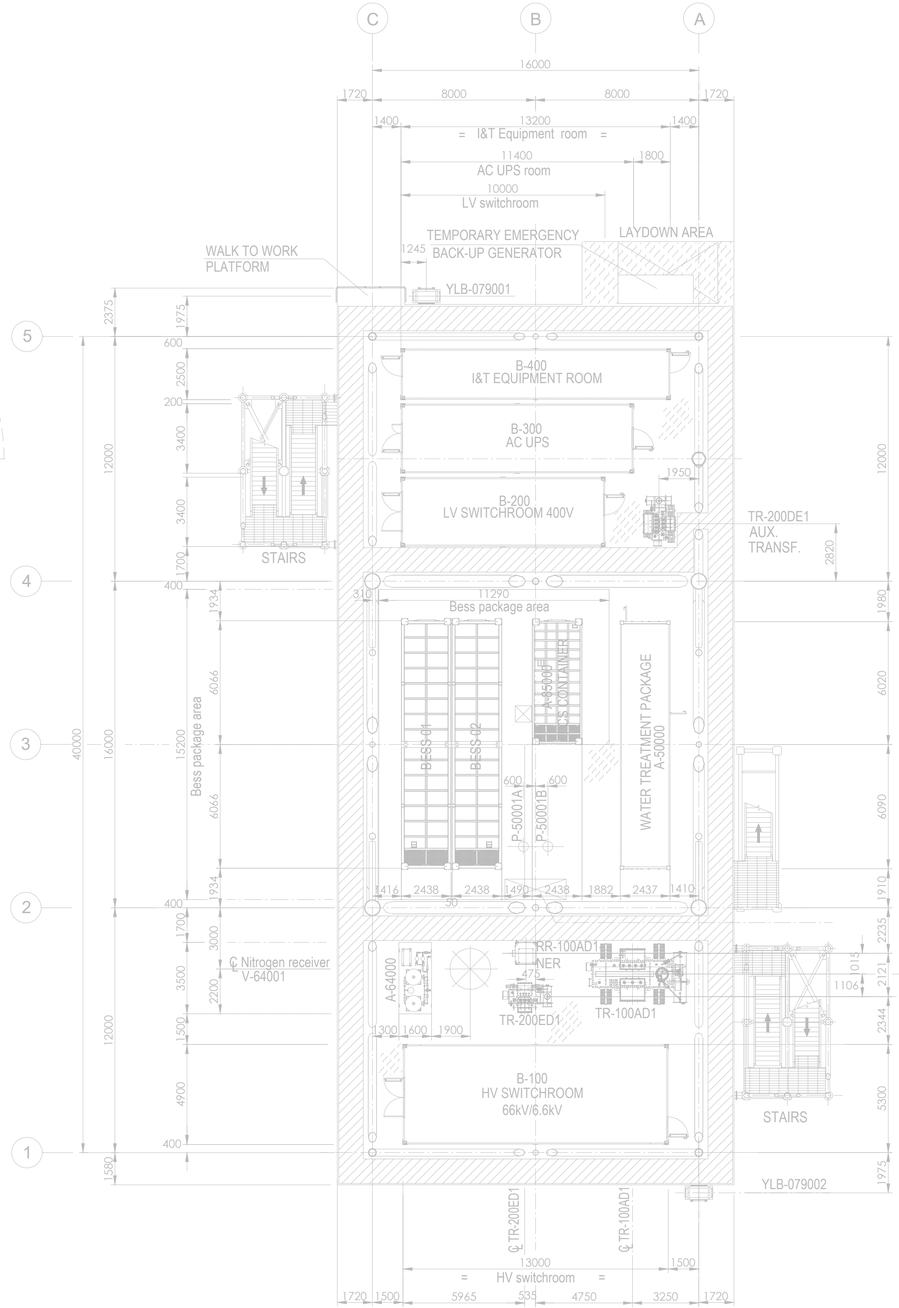
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REV. 01



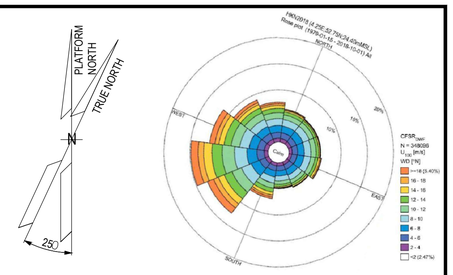
PLAN ON UPPER DECK
EL+30.310 T.O.S.



PLAN ON LOWER DECK
EL+23.310 T.O.S.

Tag No.	Equipment Tag	Description	Material	Ventilation Type
01	P-50001 A/B	SEA WATER LIFT PUMPS	SEA WATER	NATURAL (OPEN AREA)
02	Q-43004	HYDROGEN VENT	HYDROGEN	NATURAL (OPEN AREA)
03	V-43001	HYDROGEN VENT KO DRUM	HYDROGEN	NATURAL (OPEN AREA)
04	V-25001 (A/B/C/D/E/F)	HYDROGEN STORAGE VESSELS	HYDROGEN	NATURAL (OPEN AREA)
05	V-63001	AIR RECEIVER	INSTRUMENT AIR	NATURAL (OPEN AREA)
06	A-20000	ELECTROLYSER PACKAGE		
07	A-63000	INSTRUMENT AIR PACKAGE		
08	A-80000	FUEL CELL PACKAGE		
09	A-85000	BESS PACKAGE		
10	YLB-079001/2	LIFE RAFTS		
11	A-50000	WATER TREATMENT PACKAGE		

Tag No.	Equipment Tag	Description	Material	Ventilation Type
12	A-64000	NITROGEN SYSTEM		
13	B-100	HV SWITCHROOM 66kV/6.6kV		
14	B-200	LV SWITCHROOM 400V		
15	B-300	AC UPS EQUIPMENT ROOM		
16	B-400	I&T EQUIPMENT ROOM		
17	TR-100AD1	TRANSFORMER MAIN 66kV/6.6kV		
18	RR-100AD1-NER	NEUTRAL EARTHING RESISTOR		
19	TR-200DE1	TRANSFORMER AUX. 6.6kV/0.4kV		
20	TR-200ED1	SOLAR TRANSFORMER PV FARM EQUIPMENT		
21	X-99001	CRANE		
22	V-64001	NITROGEN RECEIVER		



1. ALL DIMENSIONS IN mm U.N.O
2. ALL ELEVATIONS IN METERS.
3. PLATFORM NORTH DIRECTION IS N 25°W.
4. VENT TOP SHALL BE REACHEABLE FOR MAINTENANCE PURPOSE.
5. THE BESS IS CONSIDERED SAFE AREA EXCEPT EXTRACTORES FROM BATTERIES , CURRENTLY NOT SHOWN IN DRAWINGS, SINCE INFORMATION FROM VENDOR IS NOT YET AVAILABLE.[ES17]
6. THE LOCATION OF EMISSION SOURCES ON THE LAYOUT ARE ONLY INDICATIVE. EMISSION SOURCES CONSIDERED ARE PRESENT WITHIN THE EXTENSION OF HAZARDOUS CLASSIFIED AREAS SHOWN ON THE LAYOUT. THIS IS BECAUSE VALVES AND FLANGES,WHICH ARE CONSIDERED POTENTIAL SOURCES OF RELEASE POINTS FOR FLAMMABLE GAS ARE NOT SHOWN ON CURRENT LAYOUT PROVIDED. THE SAME APPLIES TO THE EMISSION SOURCES FOR CPI'S ITEM.
7. IDENTIFIED EMISSION SOURCES DETAIL

EMISSION SOURCE No.	IDENTIFIED AREAS
ES10	HYDROGEN STORAGE VESSLES
ES11	HYDROGEN VENT KO DRUM
ES16	FUEL CELL

01

ZONE 0 | ZONE 1 | ZONE 2 | ES EMISSION SOURCES

01

01

123A90-DDL-PP-DS-70071	PLOT PLAN - BELOW LOWER DECK
123A90-DDL-PP-DS-70072	PLOT PLAN - ELEVATION LOOKING NORTH & EAST

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	27/08/24	MMA	CCA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	08/02/24	MMA	CCA	DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND

ROSETTI MARINO

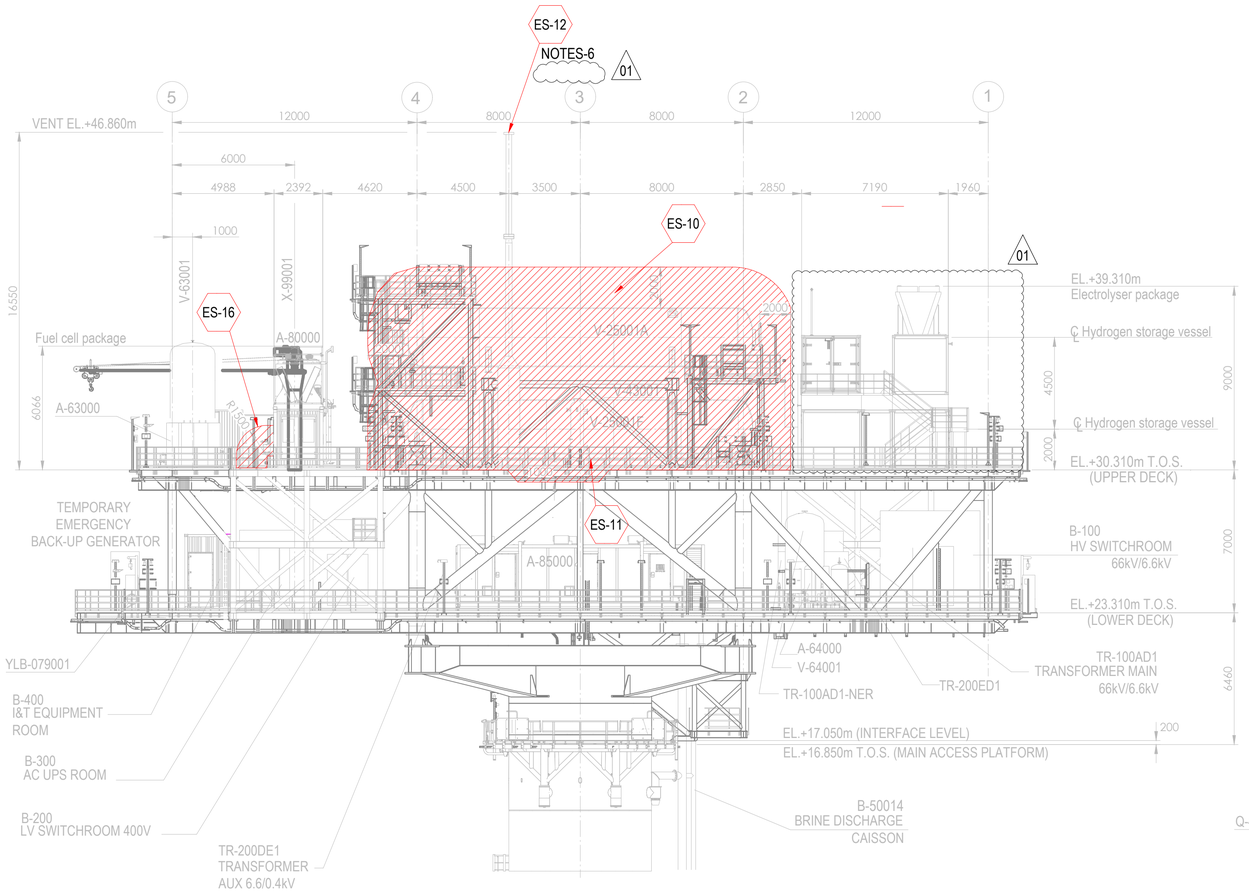
TITLE : BASE LOAD POWER HUB (BLPH)
HAZARDOUS AREA CLASSIFICATION
LOWER & UPPER DECK

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK		SCALE 1:150
DRAWN M. MAGNI	CHECKED C. CARACCIOLO	APPROVED D. LO STERZO	DATE 03/07/24
A1	DRAWING NO. 123A90-DDL-SAF-DL-30022	SHEET 001	REV. 01

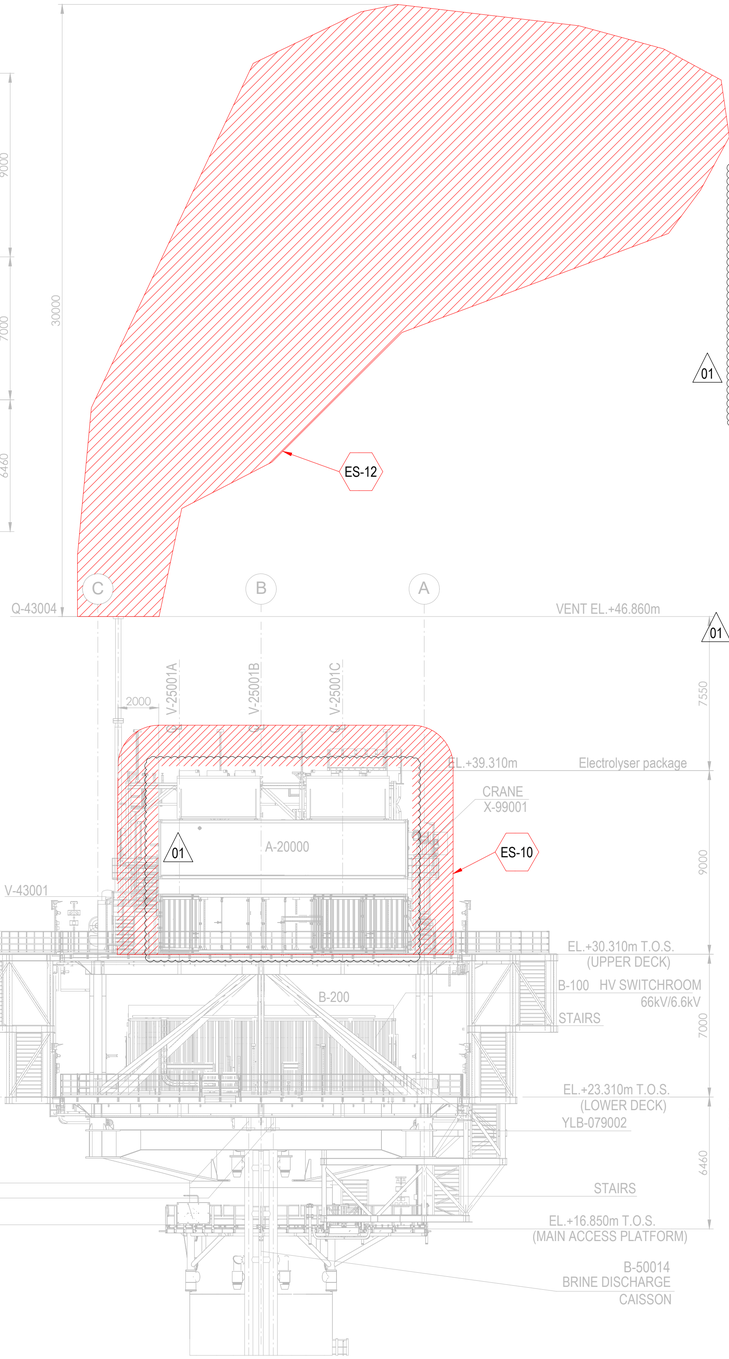
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DRAWING NO. 123A90-DDL-SAF-DL-30024

REV. 01



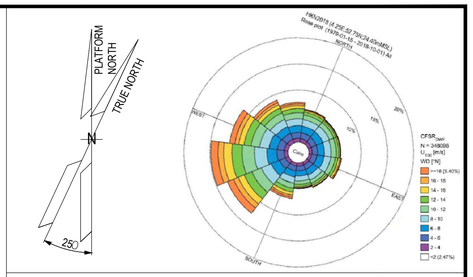
ELEVATION LOOKING EAST



ELEVATION LOOKING NORTH

01

Tag No.	Equipment Tag	Description	Material	Ventilation Type
01	P-50001 A/B	SEA WATER LIFT PUMPS	SEA WATER	NATURAL (OPEN AREA)
02	Q-43004	HYDROGEN VENT	HYDROGEN	NATURAL (OPEN AREA)
03	V-43001	HYDROGEN VENT KO DRUM	HYDROGEN	NATURAL (OPEN AREA)
04	V-25001 (A/B/C/D/E/F)	HYDROGEN STORAGE VESSELS	HYDROGEN	NATURAL (OPEN AREA)
05	V-63001	INSTRUMENT AIR RECEIVER	INSTRUMENT AIR	NATURAL (OPEN AREA)
06	A-20000	ELECTROLYSER PACKAGE		
07	A-63000	INSTRUMENT AIR PACKAGE		
08	A-80000	FUEL CELL PACKAGE		
09	A-85000	BESS PACKAGE		
10	YLB-079001/2	LIFE RAFTS		
11	B-100	HV SWITCHROOM 66kV/6.6kV		
12	B-200	LV SWITCHROOM 400V		
13	B-300	AC UPS EQUIPMENT ROOM		
14	B-400	I&T EQUIPMENT ROOM		
15	TR-100AD1	TRANSFORMER MAIN 66kV/6.6kV		
16	TR-100AD1-NER	NEUTRAL EARTHING RESISTOR		
17	TR-200DE1	TRANSFORMER AUX. 6.6kV/0.4kV		
18	TR-200ED1	SOLAR TRANSFORMER PV FARM EQUIPMENT		
19	X-99001	CRANE		
20	V-64001	NITROGEN RECEIVER		



NOTES

1. ALL DIMENSIONS IN mm U.N.O
2. ALL ELEVATIONS IN METERS.
3. PLATFORM NORTH DIRECTION IS N 25°W.
4. VENT TOP SHALL BE REACHEABLE FOR MAINTENANCE PURPOSE.
5. THE BESS IS CONSIDERED SAFE AREA EXCEPT EXTRACTORES FROM BATTERIES , CURRENTLY NOT SHOWN IN DRAWINGS, SINCE INFORMATION FROM VENDOR IS NOT YET AVAILABLE.[ES17]
6. (ES12) IS SHOWN ONLY ON ELEVATION LOOKING NORTH ON THIS LAYOUT
7. THE LOCATION OF EMISSION SOURCES ON THE LAYOUT ARE ONLY INDICATIVE. EMISSION SOURCES CONSIDERED ARE PRESENT WITHIN THE EXTENSION OF HAZARDOUS CLASSIFIED AREAS SHOWN ON THE LAYOUT. THIS IS BECAUSE VALVES AND FLANGES,WHICH ARE CONSIDERED POTENTIAL SOURCES OF RELEASE POINTS FOR FLAMMABLE GAS ARE NOT SHOWN ON CURRENT LAYOUT PROVIDED. THE SAME APPLIES TO THE EMISSION SOURCES FOR CPI'S ITEM.
8. IDENTIFIED EMISSION SOURCES DETAIL

EMISSION SOURCE No.	IDENTIFIED AREAS
ES10	HYDROGEN STORAGE VESSLES
ES11	HYDROGEN VENT KO DRUM
ES12	HYDROGEN VENT
ES16	FUEL CELL

01

LEGEND

ZONE 0 | ZONE 1 | ZONE 2 | ES EMISSION SOURCES

01

REFERENCE DOCUMENTS

123A90-DDL-PP-DS-70070	PLOT PLAN - LOWER & UPPER DECK
123A90-DDL-PP-DS-70071	PLOT PLAN - BELOW LOWER DECK

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	27/08/24	MMA	CCA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	08/02/24	MMA	CCA	DLO	ISSUE FOR REVIEW (IFR)

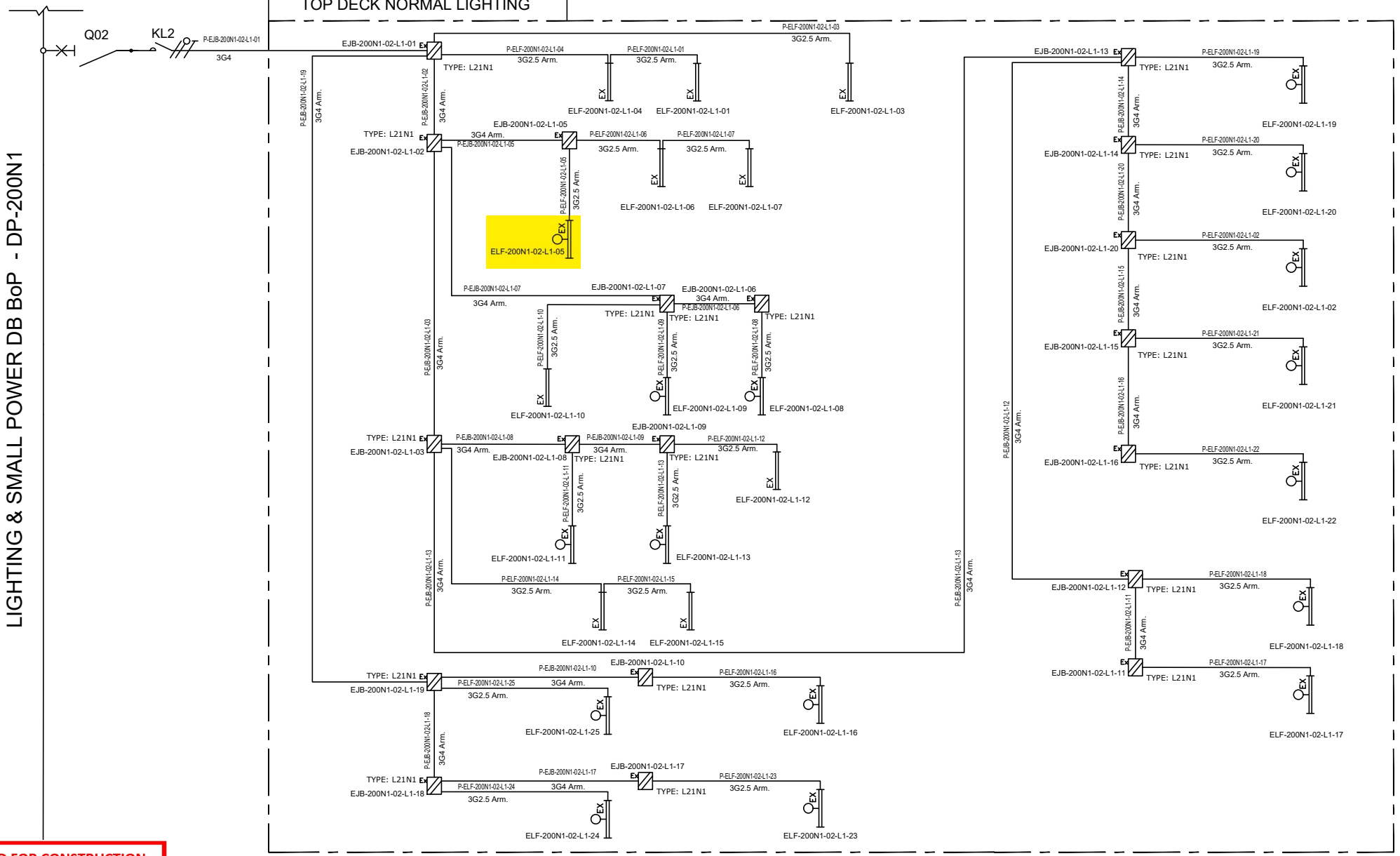
CROSSWIND | ROSETTI MARINO

TITLE :
BASE LOAD POWER HUB (BLPH)
HAZARDOUS AREA CLASSIFICATION
ELEVATION LOOKING NORTH & EAST

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK			SCALE 1:150
DRAWN M. MAGNI	CHECKED C. CARACCIOLO	APPROVED D. LO STERZO	DATE 03/07/24

A1	DRAWING NO. 123A90-DDL-SAF-DL-30024	SHEET 001	REV. 01

File Name : 123A90-DDL-SAF-DL-30024 Rev.01



VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DG-20125**

REV.:	DATE:	SIGNATURE:
2_C	20/12/24	V.Ramponi

ROSETTI MARINO SpA

CROSSWIND

ROSETTI MARINO

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	08/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	01/07/24	ASR	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

TITLE : BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET CIRCUIT DIAGRAM
TOP DECK–NORMAL LIGHTING

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE : NTS

A3

DRAWING NO. 123A90–DDL–EL–DG–20125

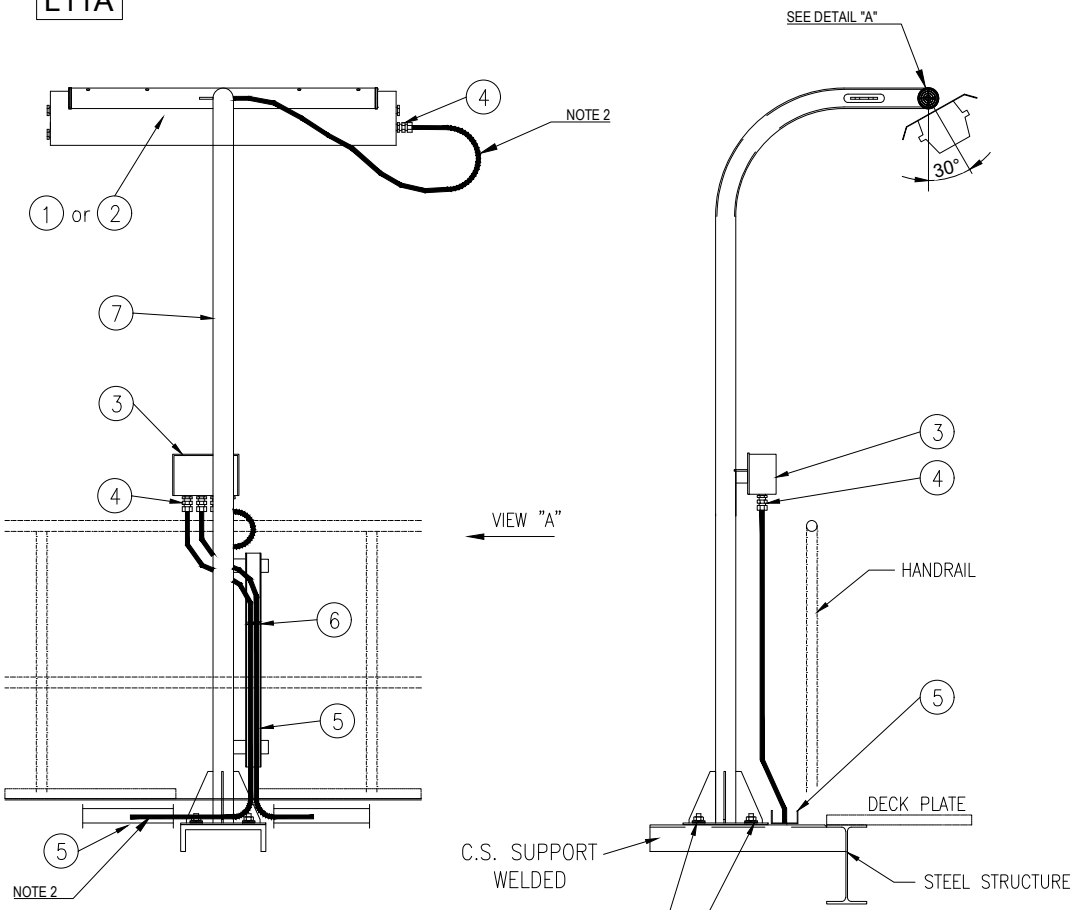
SHEET 010

REV. 01

F.to UNI A3: 420mmx297mm

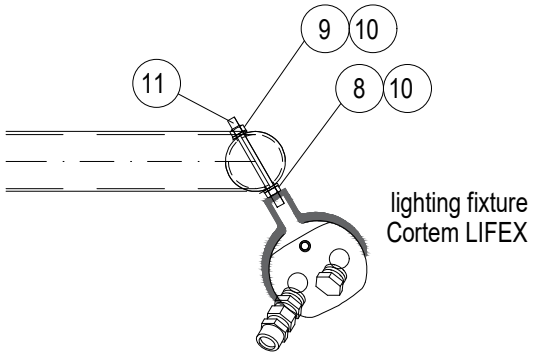
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L11A



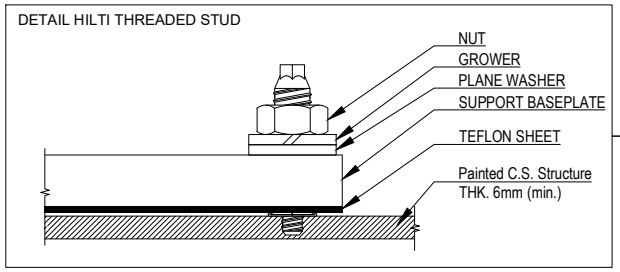
VIEW "A"

POS.	DESCRIPTION	MATERIAL	SIZE	Q.TY	NOTE
1	42W LED LUMINARIES	ALUMINIUM ALLOY		1	
2	45W LED LUMINARIES C/W BATTERY	ALUMINIUM ALLOY		1	
3	JUNCTION BOX (Ex)	GRP		1	NOTE 1
4	CABLE GLAND ~~C/W EARTH TAG,~~ WASHERS, LOCKNUT AND WEATHERPROOF WASHERS	BRASS NICKEL PLATED		AS REQ.	
5	CABLE TRAY	AISI 316L			
6	STAINLESS STEEL NYLON COATED CABLE TIE	SS NYLON COATED			
7	POLE SUPPORT FOR LAMP	AISI 316L	2"		
8	NUT	AISI 316L	M8		
9	SELF.LOCKING NUT	AISI 316L	M8		
10	LARGE PLANE WASHER (24mm DIAM.)	AISI 316L	M8		
11	THREADED ROD M8x100	AISI 316L	M8		



DETAIL "A"

SUPPORT BOLTED ON HILTI S-BT INSTALLED ON WELDED BEAM:



VALID FOR CONSTRUCTION

REV.:	DATE:	SIGNATURE:
2_B	12/12/24	C.Pilato

ROSETTI MARINO SpA

NOTES:

1) FOR LAMPS IN HAZARDOUS AREA, USE ARMOURED CABLE, DOUBLE SEAL CABLE GLAND AND EX JUNCTION BOX.

2) ALWAYS ENSURE CABLE LENGTH IS >3m

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	30/09/24	GRA	AMA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	04/07/24	NLK	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	21/11/23	SPS	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

02

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL TYPICAL INSTALLATION DETAILS-LIGHTING SYSTEM
LIGHTING FIXTURE MOUNTED ON POLE

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK | SCALE : NTS

A3 | DRAWING NO. 123A90-DDL-EL-DD-20091 | SHEET 014 | REV. 02

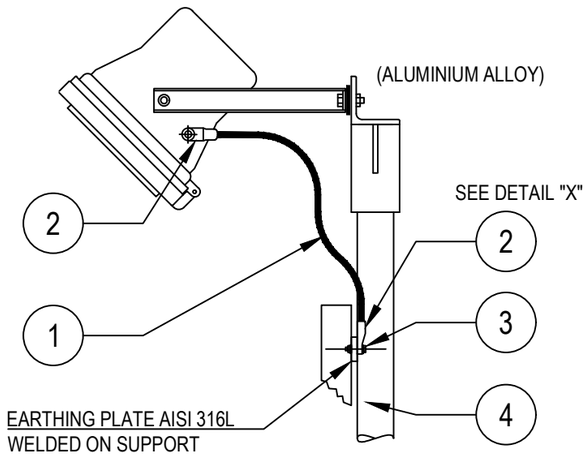
F.to UNI A3: 420mmx297mm

File Name : 123A90-DDL-EL-DD-20091 REV.02.DWG

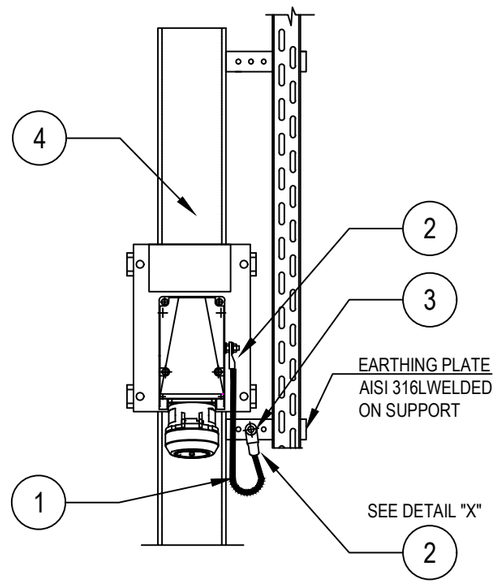
E05

POS.	DESCRIPTION	MATERIAL	SIZE	Q.TY	NOTE
1	Y/G INSULATING COPPER CONDUCTOR	COPPER	$6mm^2$		
2	COMPRESSION TYPE LUG FOR INSULATION COPPER CONDUCTOR	TINNED COPPER	$6mm^2$	2	
3	HEXAG. BOLTS, PLANE WASHERS, SPRING WASHER AND NUT	AISI 316L	M8X30	1	

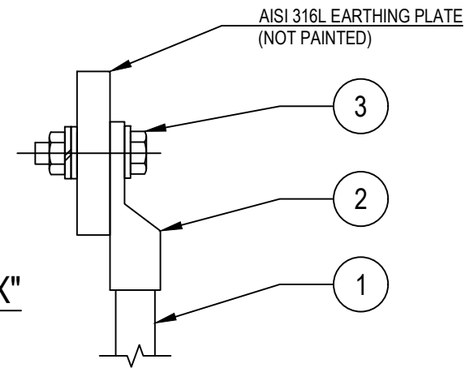
LIGHTING FIXTURE/GENERAL ITEM ON POLE



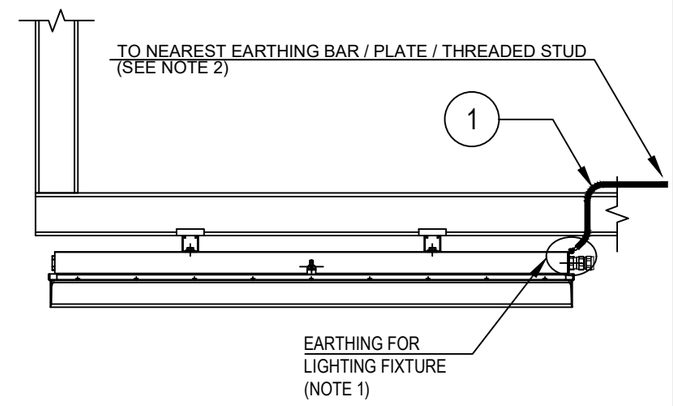
POWER SOCKET OUTLET



DETAIL "X"



LIGHTING FIXTURES



Refer also to TYP. "E32" (SEE SHEET 23)

TYPICAL VALID ALSO FOR NAVAID LIGHTS

NOTES:

1) ALL LIGHTING FIXTURES AND RELEVANT ARMOUR OF THE CABLE, ARE CONNECTED TO EARTH CONNECTION THROUGH THE EARTHING TAG OF THE CABLE GLAND

2) FOR EARTHING POINT USE ONE OF THE FOLLOWING METHODS:
TYP. E03A-D sh. 004 (EARTHING BAR ON STRUCT. UNISTRUT AND CABLE TRAY)
TYP. E11C sh. 003 (EARTHING PLATE)
TYP. E11D sh. 003 (THREADED STUD ON EXTERNAL STRUCTURE)

VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DD-20090**

REV.:	DATE:	SIGNATURE:
2_H	05/11/24	G.Randi

ROSETTI MARINO SpA

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	26/08/24	GRA	AMA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	10/06/24	SPS	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	21/11/23	SPS	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL TYPICAL INSTALLATION DETAILS–EARTHING SYSTEM
EARTHING FOR ELECTRICAL EQUIPMENTS

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK | SCALE : NTS

A3 | DRAWING NO. 123A90-DDL-EL-DD-20090 | SHEET 006 | REV. 02

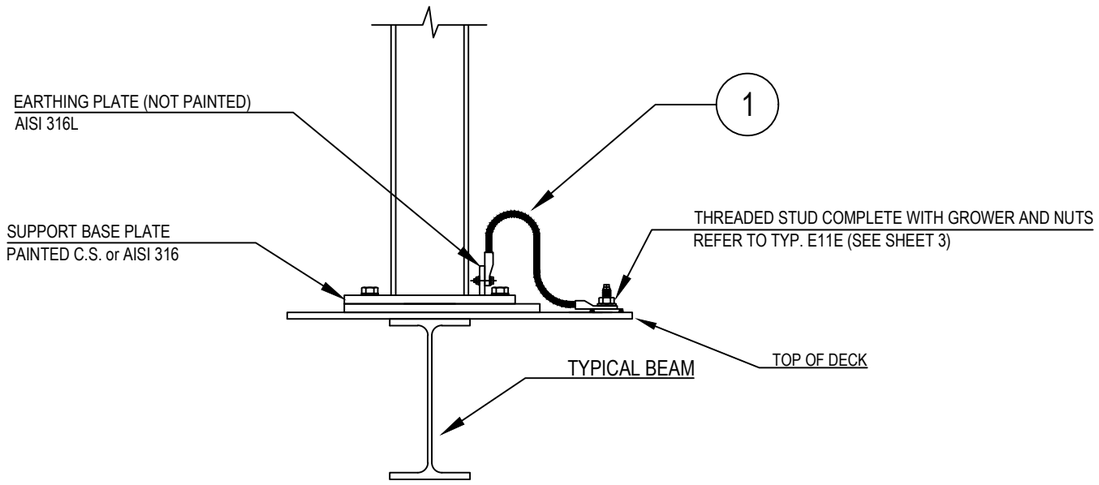
F.to UNI A3: 420mmx297mm

File Name : 123A90-DDL-EL-DD-20090 REV.02.DWG

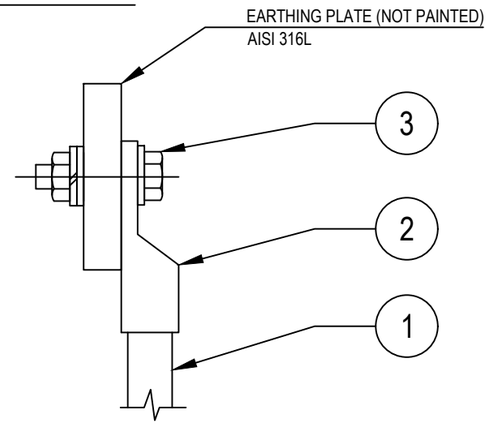
E24

POS.	DESCRIPTION	MATERIAL	SIZE	Q.TY	NOTE
1	As. R. Y/G INSULATING COPPER CONDUCTOR	COPPER	$35mm^2$		
2	COMPRESSION TYPE LUG FOR INSULATION COPPER CONDUCTOR	TINNED COPPER	$35mm^2$	2	~~NOTE 1~~
3	HEXAG. BOLT M10X30 COMPLETE WITH PLANE WASHERS, SPRING WASHER AND NUT	AISI 316L	M10X30	2	

GENERIC SUPPORT BOLTED ON STRUCTURE



DETAIL "X"



NOTES:
1) ~~CABLE LUG CRIMPING METHOD SHALL BE HEXAGONAL COMPRESSION DIES ONLY.~~
2) EXTERNAL EARTHING CONNECTION ONLY SHALL BE PROTECTED AGAINST CORROSION USING OXIDE RESISTANT COMPOUND (E.G. COPPER GREASE)

VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DD-20090**

REV.:	DATE:	SIGNATURE:
2_H	05/11/24	G.Randi

ROSETTI MARINO SpA

CROSSWIND

ROSETTI MARINO

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	26/08/24	GRA	AMA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	10/06/24	SPS	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	21/11/23	SPS	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL TYPICAL INSTALLATION DETAILS–EARTHING SYSTEM
EARTHING FOR POLE/SUPPORT OF GENERIC EQUIPMENTS

CONTRACT NO./TITLE CW–I–WP4–2023–05/HOLLANDSE KUST NOORD WIND PARK | SCALE : NTS

A3	DRAWING NO.	SHEET	REV.
	123A90–DDL–EL–DD–20090	012	02

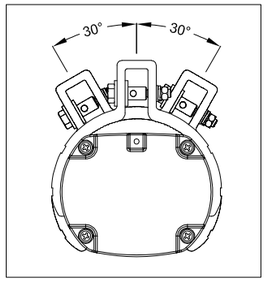
F.to UNI A3: 420mmx297mm

File Name : 123A90-DDL-EL-DD-20090 REV.02.DWG

MODEL C-225 REV.1

GENERAL NOTE:
- PO: 1724001290 DD 26/06/2024
- ITEM.: 1
- Q.TY: 57
- EXTERNAL PAINTING: RAL 7022 (END CAPS)
- INTERNAL PAINTING: NOT PAINTED
- ALL DIMENSIONS ARE IN mm

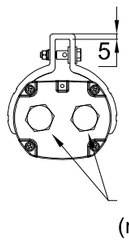
STANDARD FIXING BRACKET
FASTENING WITH 2 THREADED M8
HOLES, ADJUSTABLE FROM 0° TO ±30°



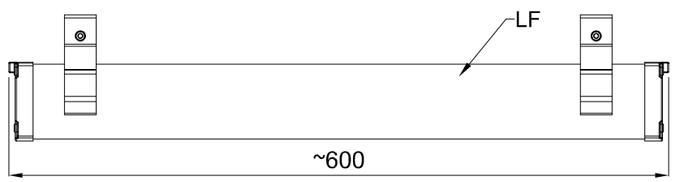
LF INFORMATION	
NOMINAL POWER	45W
CONSUMED POWER	43,5W
POWER FACTOR	>0,93
RATED CURRENT	200 mA
VIEWING ANGLE	120°
COLOUR TEMP.	5000 K
CRI	>80
INSTANT RESTRIKE	YES
LUMEN	6200 lm
LIGHT INTENSITY	2248 cd
EFFICIENCY	143 lm/W
WEIGHT	2,5 Kg
IP PROTECTION	IP66

N°	Q.TY	CODE	DESCRIPTION
LF	1	LIFEX-ME-0645-BB	110-277Vac 50-60Hz 45W LED LINEAR LIGHTING FIXTURE BODY: ALUMINUM ALLOY EXTRUSION AND ALUMINUM END CAPS TRANSPARENT PART: GLASS RESISTANT TO SHOCKS, UV RAYS AND IMPACT RESISTANCE IK09 GASKETS: ACID AND HYDROCARBON RESISTANT SILICONE ASSEMBLY: FASTENING BRACKETS FOR M8 HOLES, ADJUSTABLE 0° TO ±30° MADE IN ANODIZED ALUMINUM CONNECTION: TERMINAL BLOCK ON SIDE (IN) L, N, PE CROSS SEC. MAX. 4mmq SUITABLE FOR LOOP-IN LOOP-OUT SCREWS, BOLTS AND NUTS: STAINLESS STEEL 304
PG1	4	PLG1IB +DL1IB +RDI1IS/A4	IP66 Ex db IIC Gb - Ex eb IIC Gb NICKEL PLATED BRASS PLUG ISO M20x1,5 WITH RELEVANT LOCKNUT AND SERRATED WASHER MADE IN STAINLESS STEEL

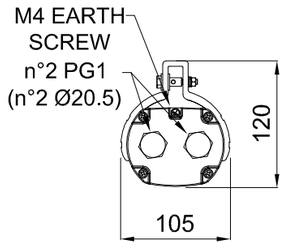
LEFT SIDE (OUT)



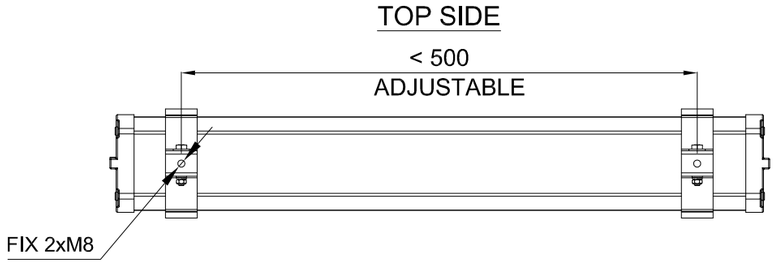
FRONT SIDE



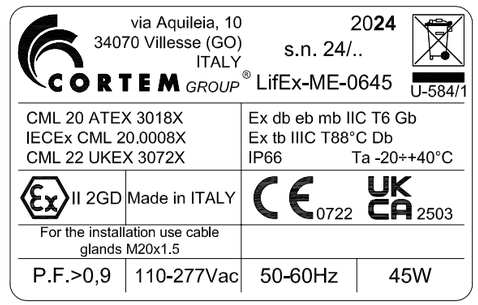
RIGHT SIDE (IN)



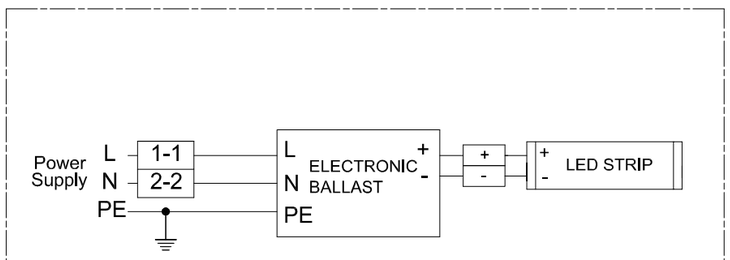
TOP SIDE



CERTIFICATE NAMEPLATE



WIRING DIAGRAM



REV.	DATE	PREP'D	CHK'D	APP'D	DESCRIPTION
2	09/07/2024	FRATTARUOLO	GIUSTI	GRATTON	REISSUED FOR APPROVAL
1	05/07/2024	FRATTARUOLO	GIUSTI	GRATTON	REISSUED FOR APPROVAL
0	28/06/2024	FRATTARUOLO	GIUSTI	GRATTON	ISSUED FOR APPROVAL

DRAWING TITLE: ROSETTI MARINO S.P.A.

CORTEM S.p.a.
GENERAL LAYOUT
001 LIFEX-ME-0645-BB/C2402693/10.

CORTEM JOB: COV2402693
DRAWING SCALE: /
DRAWING NUMBER: A3-C 27521
SHEET: 1
NEXT: 2
TOT.: 2

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Smart Professional R. 2012

Row	Data Sheet for Lighting Fixtures & Accessories				Rev.
1	42W LED Linear Luminaire-Normal Lighting-ATEX Area				
2	Item	Required	Manufacturer Proposal	Comments	
3	Model Number	by vendor	LIFEX-ME-0645-BB		01
4	Serial Number	by vendor			00
5	Quantity	28 Nos.		(25+3 Spare)	01
6	Location / Module	Upper deck			00
7	**LED Lamp**				
8	Nominal power	42 watts	45 watts		01
9	No. of linear	1	1		01
10	Luminous flux	5810 lm	6200 lm		01
11	Colour Temperature	5000 K	5000 K		01
12	**Protection**				
13	Hazardous Area Certification (Ex)	Zone 1 Gas Group IIC (or) IIB + H2, T1	Ex II 2GD Ex db eb mb IIC Gb Ex tb IIIC Db		01
14	Degree of Protection (IP)	IP 56	IP 66		01
15	ATEX certified	Classification EX db	ATEX CML 20 ATEX 3018X		01
16	**Material**				
17	Body	GRP/Aluminium alloy	Aluminium alloy		01
18	Reflector	GRP/Aluminium	Aluminium		01
19	Diffuser	Polycarbonate/temperate glass	Tempered glass		01
20	**Cable Entry**				
21	No. of cable entry	4 Nos.	4 Entries, 2 per side		01
22	Size	M20	Ø20.5mm		01
23	**Emergency Battery Pack**				
24	Requirement	Not required			00
25	Battery type	Not required			00
26	Autonomy	Not required			00
27	Emergency luminous flux	Not required			00
28	**Mechanical parameters**				
29	Dimension	by vendor	600x105x120(mm)		01
30	Weight	by vendor	2.5kg		01

Note:

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Tag Number	Tag Description	Location	P.O.	Vendor	Manufacturer	Serial Number	Model Type Catalogue Number	Installation Zone	ATEX Certificate Number	Reference Document	ATEX Certification Marking	Notes / Comments	Skid / Package	Electrical Equip.	Barrier Calculation Ref.	Special Conditions of Safe Use Applicable	3D Location
EJB-200N1-08-L1-07	Emergency Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990079	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-08-L1-08	Emergency Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990081	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-08-L1-09	Emergency Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990080	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-08-L1-10	Emergency Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990075	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-08-L1-11	Emergency Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990074	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-08-L1-12	Emergency Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990073	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-08-L1-14	Emergency Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990071	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-08-L1-15	Emergency Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990070	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-08-L1-16	Emergency Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990069	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-08-L1-17	Emergency Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990068	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-08-L1-18	Emergency Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990067	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-08-L1-19	Emergency Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990066	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-08-L1-20	Emergency Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990076	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-09-L2-01	Emergency Lighting JB	LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990016	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-09-L2-02	Emergency Lighting JB	LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990019	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-09-L2-04	Emergency Lighting JB	LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990017	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-09-L2-05	Emergency Lighting JB	LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990030	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-09-L2-06	Emergency Lighting JB	LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990029	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-09-L2-07	Emergency Lighting JB	LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990028	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-09-L2-08	Emergency Lighting JB	LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990027	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-09-L2-09	Emergency Lighting JB	LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990026	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-09-L2-10	Emergency Lighting JB	LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990025	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-09-L2-11	Emergency Lighting JB	LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990024	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-09-L2-12	Emergency Lighting JB	LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990023	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-09-L2-13	Emergency Lighting JB	LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990022	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-09-L2-14	Emergency Lighting JB	LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990021	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-09-L2-15	Emergency Lighting JB	LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990020	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-09-L2-16	Emergency Lighting JB	LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990031	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-09-L2-17	Emergency Lighting JB	BELOW LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990015	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-10-L3-01	Stair Emergency Lighting JB	LOWER & UPPER DECK STAIRS	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990040	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-10-L3-02	Stair Emergency Lighting JB	LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990039	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-10-L3-03	Stair Emergency Lighting JB	LOWER & UPPER DECK STAIRS	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990041	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-10-L3-04	Stair Emergency Lighting JB	LOWER & UPPER DECK STAIRS	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990042	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-10-L3-05	Stair Emergency Lighting JB	BELOW LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990034	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-10-L3-06	Stair Emergency Lighting JB	BELOW LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990035	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-10-L3-07	Stair Emergency Lighting JB	BELOW LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990036	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-10-L3-08	Stair Emergency Lighting JB	BELOW LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990037	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-10-L3-09	Stair Emergency Lighting JB	BELOW LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990038	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
ELF-200N1-02-L1-01	Normal Lighting Fixture	UPPER DECK	1724001290	Cortem Spa	Cortem Spa	24/86772	LIFEX-ME-0645-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	
ELF-200N1-02-L1-02	Normal Lighting Fixture	UPPER DECK	1724001290	Cortem Spa	Cortem Spa	24/86773	LIFEX-ME-1260N-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	
ELF-200N1-02-L1-03	Normal Lighting Fixture	UPPER DECK	1724001290	Cortem Spa	Cortem Spa	24/86772	LIFEX-ME-0645-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	
ELF-200N1-02-L1-04	Normal Lighting Fixture	UPPER DECK	1724001290	Cortem Spa	Cortem Spa	24/86772	LIFEX-ME-0645-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	
ELF-200N1-02-L1-05	Normal Lighting Fixture	UPPER DECK	1724001290	Cortem Spa	Cortem Spa	24/86772	LIFEX-ME-0645-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	HAZARDOUS-AREA_8
ELF-200N1-02-L1-06	Normal Lighting Fixture	UPPER DECK	1724001290	Cortem Spa	Cortem Spa	24/86772	LIFEX-ME-0645-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	
ELF-200N1-02-L1-07	Normal Lighting Fixture	UPPER DECK	1724001290	Cortem Spa	Cortem Spa	24/86772	LIFEX-ME-0645-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	HAZARDOUS-AREA_8 HAZARDOUS-AREA_3
ELF-200N1-02-L1-08	Normal Lighting Fixture	UPPER DECK	1724001290	Cortem Spa	Cortem Spa	24/86772	LIFEX-ME-0645-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	HAZARDOUS-AREA_8 HAZARDOUS-AREA_3
ELF-200N1-02-L1-09	Normal Lighting Fixture	UPPER DECK	1724001290	Cortem Spa	Cortem Spa	24/86772	LIFEX-ME-0645-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	HAZARDOUS-AREA_8 HAZARDOUS-AREA_1
ELF-200N1-02-L1-10	Normal Lighting Fixture	UPPER DECK	1724001290	Cortem Spa	Cortem Spa	24/86772	LIFEX-ME-0645-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	HAZARDOUS-AREA_8 HAZARDOUS-AREA_1
ELF-200N1-02-L1-11	Normal Lighting Fixture	UPPER DECK	1724001290	Cortem Spa	Cortem Spa	24/86772	LIFEX-ME-0645-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	HAZARDOUS-AREA_3 HAZARDOUS-AREA_2 HAZARDOUS-AREA_5 HAZARDOUS-AREA_6
ELF-200N1-02-L1-12	Normal Lighting Fixture	UPPER DECK	1724001290	Cortem Spa	Cortem Spa	24/86772	LIFEX-ME-0645-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	HAZARDOUS-AREA_1 HAZARDOUS-AREA_2 HAZARDOUS-AREA_5 HAZARDOUS-AREA_4
ELF-200N1-02-L1-13	Normal Lighting Fixture	UPPER DECK	1724001290	Cortem Spa	Cortem Spa	24/86772	LIFEX-ME-0645-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	HAZARDOUS-AREA_1 HAZARDOUS-AREA_2 HAZARDOUS-AREA_5 HAZARDOUS-AREA_4
ELF-200N1-02-L1-14	Normal Lighting Fixture	UPPER DECK	1724001290	Cortem Spa	Cortem Spa	24/86772	LIFEX-ME-0645-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	
ELF-200N1-02-L1-15	Normal Lighting Fixture	UPPER DECK	1724001290	Cortem Spa	Cortem Spa	24/86772	LIFEX-ME-0645-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	
ELF-200N1-02-L1-16	Normal Lighting Fixture	UPPER DECK	1724001290	Cortem Spa	Cortem Spa	24/86772	LIFEX-ME-0645-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	

EU Type Examination Certificate CML 20ATEX3018X Issue 1

1 Equipment intended for use in Potentially Explosive Atmospheres Directive 2014/34/EU

2 Equipment **LifEx-ME, LifEx-MN and LifEx-MT series of linear lighting fixtures**

3 Manufacturer **Cortem S.p.A.**

4 Address **Via Aquileia 10**
34070 Villesse
(GO)
Italy

5 The equipment is specified in the description of this certificate and the documents to which it refers.

6 CML B.V., Chamber of Commerce No 6738671, Koopvaardijweg 32, 4906CV Oosterhout, The Netherlands, Notified Body Number 2776, in accordance with Article 17 of Directive 2014/34/EU of the European Parliament and of the Council, dated 26 February 2014, certifies that this equipment has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of equipment intended for use in potentially explosive atmospheres given in Annex II to the Directive.

The examination and test results are recorded in the confidential reports listed in Section 12.

7 If an 'X' suffix appears after the certificate number, it indicates that the equipment is subject to conditions of safe use (affecting correct installation or safe use). These are specified in Section 14.

8 This EU Type Examination certificate relates only to the design and construction of the specified equipment or component. Further requirements of Directive 2014/34/EU Article 13 apply to the manufacture of the equipment or component and are separately certified.

9 Compliance with the Essential Health and Safety Requirements, with the exception of those listed in the confidential report, has been demonstrated through compliance with the following documents:

EN IEC 60079-0:2018	EN 60079-1:2014	EN IEC 60079-7:2015+A1:2018
EN 60079-18:2015+A1:2017	EN 60079-31:2014	

10 The equipment shall be marked with the following:

LifEx-ME	LifEx-MN and LifEx-MT
Ex db eb mb IIC T.. Gb	Ex tb IIIC T…°C Db
Ex eb mb IIC T.. Gb *(when Ex mb LED drivers are used)*	IP66
Ex tb IIIC T…°C Db	
IP66	
Ta=* see description	Ta=* see description

11 Description

The LifEx is a range of linear LED lighting fixtures that are available in three different configurations for different applications, designated as the LifEx-ME, LifEx-MT and LifEx-MN.

LifEx-ME

The LifEx-ME version has an Equipment Protection Level of EPL Gb and Db and utilises types of protection increased safety (eb) and dust protection by enclosure (tb), along with encapsulation (mb) for the light source and flameproof (db) for the driver.

It is constructed from an aluminium enclosure, with either a glass or polycarbonate lens and with optional polycarbonate diffuser.

LifEx-MN

The LifEx-MN version has an Equipment Protection Level of EPL Gc and Db and utilises types of protection increased safety (ec) and dust protection by enclosure (tb).

It is constructed from an aluminium enclosure, with polycarbonate diffuser and/or with optional glass or polycarbonate lens.

LifEx-MT

The LifEx-MT versions has an Equipment Protection Level of EPL Db and utilises types of protection dust protection by enclosure (tb).

It is constructed from an aluminium enclosure, with polycarbonate diffuser and/or with optional glass or polycarbonate lens.

Design Options

Every configuration is available in lengths ranging from 300 mm to 1500 mm, and power ratings up to a maximum of 105W of nominal power.

The LifEx can be used in only normal service, in only emergency service or in normal and emergency service.

The minimum ambient temperature for the range is:

- -60°C for versions without battery
- -60°C for versions with the battery heater
- -20°C for versions with battery

The range is available with the following maximum ambient temperatures:

	With glass lens and with/without polycarbonate diffuser	With Polycarbonate lens and with/without polycarbonate diffuser	Without lens polycarbonate diffuser only
LifEx-M...0310	+60°C	+60°C	+60°C
LifEx-M...0315	+60°C	+60°C	+60°C
LifEx-M...0330	+60°C	Configuration not available	Configuration not available
LifEx-M...0615	+60°C	+60°C	+60°C
LifEx-M...0630	+60°C	+50°C	+60°C
LifEx-M...0645	+57°C	+47°C	+60°C
LifEx-M...0660	+47°C	Configuration not available	+58°C
LifEx-M...1230	+60°C	+60°C	+60°C
LifEx-M...1260	+60°C	+50°C	+60°C
LifEx-M...1290	+60°C	+40°C	+60°C
LifEx-M...12120	+54°C	Configuration not available	+60°C
LifEx-M...1590	+60°C	+40°C	+60°C

Table 1: Maximum Ambient Temperatures

The following tables provide the Temperature Class (EPL Gb) and Maximum Surface Temperature (EPL Db) for each LifEx type, with the following notes:

- The LifEx-MN with an ambient temperature greater than 50°C is T5 or T4. T6 is not included.
- The Temperature Class (EPL Gb) and Maximum Surface Temperature (EPL Db) in the tables below are not applicable when the ambient temperature is not permitted in the above maximum ambient temperature range table.

13. (For example, the LifEx-M...0660 is not permitted with polycarbonate lens, therefore the Temperature Class (EPL Gb) and Maximum Surface Temperature (EPL Db) for this version in tables 2 and 3 are not applicable)

	Temperature Class (EPL Gb and Gc) and Maximum Surface Temperature (EPL Db) Based on ambient temperature													
	40°C		45°C		47°C		50°C		54°C		57°C		60°C	
	EPL Db	EPL Gb/Gc	EPL Db	EPL Gb/Gc	EPL Db	EPL Gb/Gc	EPL Db	EPL Gb/Gc	EPL Db	EPL Gb/Gc	EPL Db	EPL Gb/Gc	EPL Db	EPL Gb/Gc
LifEx-M...0310	T56°C	T6	T56°C	T6	T58°C	T6	T61°C	T6	T65°C	T6	T68°C	T6	T71°C	T6
LifEx-M...0315	T56°C	T6	T56°C	T6	T58°C	T6	T61°C	T6	T65°C	T6	T68°C	T6	T71°C	T6
LifEx-M...0615	T56°C	T6	T56°C	T6	T58°C	T6	T61°C	T6	T65°C	T6	T68°C	T6	T71°C	T6
LifEx-M...0630	T69°C	T6	T69°C	T5	T71°C	T5	T74°C	T5	T78°C	T5	T81°C	T4	T84°C	T4
LifEx-M...0645	T72°C	T5	T72°C	T5	T74°C	T5	T77°C	T5	T81°C	T4	T84°C	T4	T87°C	T4
LifEx-M...0660	T77°C	T5	T77°C	T4	T79°C	T4	T82°C	T4	T86°C	T4	T89°C	T4	T92°C	T4
LifEx-M...1230	T58°C	T6	T58°C	T6	T60°C	T6	T63°C	T6	T67°C	T6	T70°C	T6	T73°C	T6
LifEx-M...1260	T67°C	T6	T67°C	T5	T69°C	T5	T72°C	T5	T76°C	T5	T79°C	T4	T82°C	T4
LifEx-M...1290	T72°C	T5	T72°C	T5	T74°C	T4	T77°C	T4	T81°C	T4	T84°C	T4	T87°C	T4
LifEx-M...12120	T75°C	T5	T75°C	T4	T77°C	T4	T80°C	T4	T84°C	T4	T87°C	T4	T90°C	T4
LifEx-M...1590	T72°C	T5	T72°C	T5	T74°C	T4	T77°C	T4	T81°C	T4	T84°C	T4	T87°C	T4

Table 2: Temperature Class (EPL Gb) and Maximum Surface Temperature (EPL Db) for LifEx types with glass/polycarbonate lens and with polycarbonate diffuser

	Temperature Class (EPL Gb and Gc) and Maximum Surface Temperature (EPL Db) Based on ambient temperature					
	40°C		55°C		60°C	
	EPL Db	EPL Gc	EPL Db	EPL Gc	EPL Db	EPL Gc
LifEx-ME-0330	T58°C	T6	T73°C	T6	T78°C	T5
LifEx-MN-0330	T58°C	T6	T73°C	T5	T78°C	T4
LifEx-MT-0330	T58°C	-	T73°C	-	T78°C	-

Table 3: Temperature Class (EPL Gb and Gc) and Maximum Surface Temperature (EPL Db) for LifEx-M...-0330 types with glass/polycarbonate window and without polycarbonate diffuser

	Temperature Class (EPL Gb) and Maximum Surface Temperature (EPL Db) Based on ambient temperature													
	40°C		45°C		47°C		50°C		54°C		57°C		60°C	
	EPL Db	EPL Gb	EPL Db	EPL Gb	EPL Db	EPL Gb	EPL Db	EPL Gb	EPL Db	EPL Gb	EPL Db	EPL Gb	EPL Db	EPL Gb
LifEx-M...0310	T62°C	T6	T62°C	T6	T64°C	T6	T67°C	T6	T71°C	T6	T74°C	T6	T77°C	T6
LifEx-M...0315	T62°C	T6	T62°C	T6	T64°C	T6	T67°C	T6	T71°C	T6	T74°C	T6	T77°C	T6
LifEx-M...0615	T62°C	T6	T62°C	T6	T64°C	T6	T67°C	T6	T71°C	T6	T74°C	T6	T77°C	T6
LifEx-M...0630	T85°C	T6	T85°C	T5	T87°C	T5	T90°C	T5	T94°C	T5	T97°C	T4	T100°C	T4
LifEx-M...0645	T88°C	T6	T88°C	T5	T90°C	T5	T93°C	T5	T97°C	T4	T100°C	T4	T103°C	T4
LifEx-M...0660	T100°C	T6	T100°C	T4	T102°C	T4	T105°C	T4	T109°C	T4	T112°C	T4	T115°C	T4
LifEx-M...1230	T65°C	T6	T65°C	T6	T67°C	T6	T70°C	T6	T74°C	T6	T77°C	T6	T80°C	T6
LifEx-M...1260	T85°C	T6	T85°C	T5	T87°C	T5	T90°C	T5	T94°C	T5	T97°C	T4	T100°C	T4
LifEx-M...1290	T94°C	T6	T94°C	T5	T96°C	T4	T99°C	T4	T103°C	T4	T106°C	T4	T109°C	T4
LifEx-M...12120	T96°C	T5	T96°C	T4	T98°C	T4	T101°C	T4	T105°C	T4	T108°C	T4	T111°C	T4
LifEx-M...1590	T94°C	T6	T94°C	T5	T96°C	T4	T99°C	T4	T103°C	T4	T106°C	T4	T109°C	T4

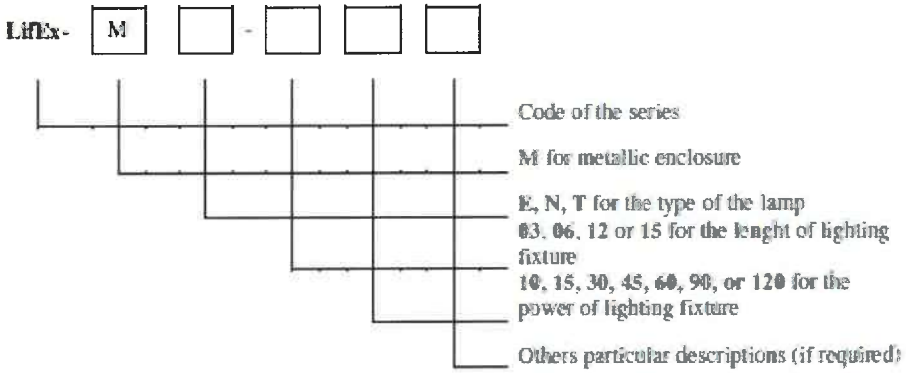
Table 4: Temperature Class (EPL Gb) and Maximum Surface Temperature (EPL Db) for LifEx types with glass/polycarbonate lens and without polycarbonate diffuser

	Maximum Surface Temperature (EPL Db) Based on ambient temperature						
	40°C	45°C	47°C	50°C	54°C	57°C	60°C
LifEx-M...0310	T56°C	T56°C	T58°C	T61°C	T65°C	T68°C	T71°C
LifEx-M...0315	T56°C	T56°C	T58°C	T61°C	T65°C	T68°C	T71°C
LifEx-M...0615	T56°C	T56°C	T58°C	T61°C	T65°C	T68°C	T71°C
LifEx-M...0630	T69°C	T69°C	T71°C	T74°C	T78°C	T81°C	T84°C
LifEx-M...0645	T72°C	T72°C	T74°C	T77°C	T81°C	T84°C	T87°C
LifEx-M...0660	T77°C	T77°C	T79°C	T82°C	T86°C	T89°C	T92°C
LifEx-M...1230	T58°C	T58°C	T60°C	T63°C	T67°C	T70°C	T73°C
LifEx-M...1260	T67°C	T67°C	T69°C	T72°C	T76°C	T79°C	T82°C
LifEx-M...1290	T72°C	T72°C	T74°C	T77°C	T81°C	T84°C	T87°C
LifEx-M...12120	T75°C	T75°C	T77°C	T80°C	T84°C	T87°C	T90°C
LifEx-M...1590	T72°C	T72°C	T74°C	T77°C	T81°C	T84°C	T87°C

Table 5: (Applicable to EPL Db only) Maximum Surface Temperature for LifEx types without glass/polycarbonate lens and with polycarbonate diffuser

The equipment has been separately tested against the requirements of IEC 60529 and it meets IP66. The gaskets on the caps provide the degree of protection.

The equipment uses the following nomenclature:



Variation 1:

This variation has assed the following changes:

i. Addition of an optional new removable cover for "easy installation" (which use the new aluminium extrusion);
ii. Addition of an optional external battery box;
iii. minimum ambient temperature extended to -60°C when Ex mb heater is used;
iv. Additional optional Ex mb EBM LED driver as an alternative to EBL3040 / EBL4040 Ex db series LED drivers;
v. added 30W model for size 300mm (LifEx-M..-0330).

12 Certificate history and evaluation reports

Issue	Date	Associated report	Notes
0	06 May 2020	R13027A/00	Prime Issue
1	01 Jul 2022	R14875A/00	Introduction of Variation 1

Note: Drawings that describe the equipment or component are listed in the Annex.

13 Conditions of Manufacture

The following conditions are required of the manufacturing process for compliance with the certification.

i. Where the product incorporates certified parts or safety critical components the manufacturer shall ensure that any changes to those parts or components do not affect the compliance of the certified product that is the subject of this certificate.
ii. The LifEx series lighting fixtures are to be designed in accordance with general electrical safety standards.
iii. The routine dielectric strength test on the LifEx-ME and LifEx-MN luminaries with applied voltage shall be performed at 2U + 1000V with a minimum value of 1560V (U = maximum rated voltage of the lamp)

iv. A routine visual inspection of the encapsulated parts is required, as per Clause 9.1 of IEC 60079-18. There shall be no visible damage or deformation to the encapsulant.

v. Where the removable battery pack is used with phoenix contacts, if used with a T6 version of the equipment, the maximum ambient shall be limited to +40°C.

14 Specific Conditions of Use (Special Conditions)

The following conditions relate to safe installation and/or use of the equipment.

i. Cable entries are provided which have less than 5 threads engaged. Care must be taken to ensure the correct gaskets and washers are sued with the cable gland to maintain IP66.

ii. The equipment uses an external part that is constructed from non-metallic materials, and as such care is to be taken to prevent an electro-static charging hazard. See instruction manual for details.

iii. For versions with glass window of 4mm thickness without cover, the luminaire must be installed in a location with a low risk of mechanical danger

iv. The temperature at the entry point may reach up to 75°C. Suitably rated cable glands must be used.

Certificate Annex

Certificate Number	**CML 20ATEX3018X**
Equipment	**LifEx-ME, LifEx-MN and LifEx-MT series of linear lighting fixtures**
Manufacturer	**Cortem S.p.A.**

The following documents describe the equipment or component defined in this certificate:

Issue 0

Drawing No	Sheets	Rev	Approved date	Title
A3-7466	1 to 6	0	06 May 2020	LifEx-M Luminaires
A4-7467	1 to 6	0	06 May 2020	Technical Note

Issue 1

Drawing No.	Sheets	Rev	Approved date	Title
A3-7466	1 of 6	1	01 Jul 2022	LifEx-M Luminaires Assembly and External Dimensions
A3-7466	2 of 6	1	01 Jul 2022	LifEx-M Luminaires Detail of sealing and op is protection
A3-7466	3 of 6	1	01 Jul 2022	LifEx-M Luminaires Detail of driver and inverter for LifEx-ME version
A3-7466	4 of 6	1	01 Jul 2022	LifEx-M Luminaires Circuit diagram for LifeEx-ME version
A3-7466	5 of 6	1	01 Jul 2022	LifEx-M Luminaires Circuit diagram LifEx-MN and LifEx-MT version
A3-7466	6 of 6	1	01 Jul 2022	LifEx-M Luminaires Detail of battery pack
A3-7729	1 to 3	0	01 Jul 2022	Battery heater for -60°C /-40°C applications Assembly and External Dimensions
A4-7727	1 to 8	0	01 Jul 2022	Technical Note

ITEM	Tag	ELF-200N1-02-L1-11	: NORMAL LIGHT	Dwg	123A90-DDL-EL-DL-20118
	S/Sys	83-40	: Normal Lighting Upper Deck	Module	UD
TASK	code	C10001666	Location: Onshore Activities	User	Rosetti Marino Quality Control
FORM	Process	MC	Activity: CCK / Discipline: ATEX / Form: CJX01		Hazardous Area Equipment Detailed Inspection

Schedule Ref. #				**Area Code**					
Area Class Drawing	123A90-DDL-SAF-DL-30022			**Serial No.**	24/86772				
Manufacturer	Cortem Spa			**Model**	LIFEX-ME-1260N-BB				
Cert No.	CML 20 ATEX 3018X			**Equipment Ambient Temp.**	-60°C to +60°C				
Area Classification	hazardous	**Zone**	2	**Gas group**	IIC	**Temp class**	T1		
Equipment Protection Type	Ex db	**EPL**	Gb	**Gas group**	IIC	**Temp class**	T5	**IP Rating**	IP66

Detailed Note:

1) Inspection shall only be performed by competent personnel

2) All fields are to be completed. Any non-applicable field shall state “NA”. Comments are required for ‘Failure’ column ONLY.

3) An Inspection Sheet should be completed for EACH individual item of Equipment.

	General Equipment	Detailed	OK/NA/PL	Comments
1	Equipment is appropriate to the EPL / Zone requirements of the area	x	OK	
2	Equipment group is correct	x	OK	
3	Equipment temperature class is correct	x	OK	
4	Degree of IP protection of equipment is appropriate for the level of protection	x	OK	
5	Equipment circuit identification is correct	x	PL	
6	Equipment circuit identification is available	x	NA	
7	Enclosure glass parts and glass-to-metal sealing gaskets and / or compounds are satisfactory	x	OK	
8	There is no damage or unauthorized modifications	x	OK	
9	There is no evidence of unauthorized modifications	x	OK	
10	Bolts, cable entry devices (direct and indirect) & blanking elements are of the correct type, are complete & tight		NA	
	Physical check	x	PL	
11	Threaded covers on enclosures are of the correct type, are tight and secured		NA	
	Physical check	x	NA	
12	Joint surfaces are clean and undamaged and gaskets, if any, are satisfactory and positioned correctly	x	OK	
13	Condition of enclosure gaskets is satisfactory	x	OK	
14	There is no evidence or ingress of water or dust in the enclosure in accordance with the IP rating	x	OK	
15	Electrical connections are tight	x	OK	
16	Bridging links do not reduce creepage / clearance and are allowed	x	NA	
17	Unused terminals are tightened	x	OK	
18	Encapsulated components are undamaged	x	NA	
19	Flameproof components are undamaged	x	NA	
20	Fluorescent lamps are not indicating EOL effects (only for Ex “e” – Ex “n” – Ex “t”)	x	NA	
21	HID lamps are not indicating EOL effects	x	NA	
22	Lamp type, rating, pin configuration and position are correct	x	NA	
23	Breathing and drainage devices are satisfactory	x	OK	
24	Type of cable is appropriate	x	OK	
25	There is no obvious damage to the cables	x	OK	
26	Cable glands are the correct type and installed correctly	x	OK	
27	Sealing of trunking, ducts, pipes and or conduits is satisfactory	x	NA	
28	Stopping boxes and cable boxes are corrected filled	x	OK	

ITEM	Tag	ELF-200N1-02-L1-11	: NORMAL LIGHT			Dwg	123A90-DDL-EL-DL-20118
	S/Sys	83-40	: Normal Lighting Upper Deck			Module	UD
TASK	code	C10001666		Location	Onshore Activities	User	Rosetti Marino Quality Control
FORM	Process	MC	Activity CCK	Discipline	ATEX	Form	CJX01 Hazardous Area Equipment Detailed Inspection

29	Integrity of conduit system and interface with mixed system maintained	x	NA	
30	Earthing connections, including any supplementary earthing bonding connections are satisfactory (for example connections are tight and conductors are of sufficient cross-section		NA	
	Physical check	x	OK	
31	Automated electric protective devices operate within permitted limits	x	NA	
32	Special conditions (if applicable) have been complied with.	x	OK	
33	All cable cores are uniquely labeled	x	OK	
34	Cable cores not in use are correctly terminated	x	NA	
35	Equipment is adequately protected against corrosion, weather, vibration and other adverse factors	x	PL	
36	No undue accumulation of dust and dirt	x	OK	
37	All equipment housings are clean and dry	x	OK	
38	All moving parts are free and have no mechanical damage	x	NA	
	Applicable for Installation of Heating Systems			
39	Temperature sensors function according to manufacturer's documents (only applicable for Ex-d e Ex-e)	x	NA	
40	Safety cut off devices function according to manufacturer's documents (only applicable for Ex-d e Ex-e)	x	NA	
41	The setting of the safety cut off is sealed (only applicable for Ex-d e Ex-e)	x	NA	
42	Reset of a heating system safety cut off possible with tool only(only applicable for Ex-d e Ex-e)	x	NA	
43	Auto-reset is not possible (only applicable for Ex-d e Ex-e)	x	NA	
44	Reset of a safety cut off under fault conditions is prevented (only applicable for Ex-d e Ex-e)	x	NA	
45	Safety cut off independent from control system (only applicable for Ex-d e Ex-e)	x	NA	
46	Level switch is installed and correctly set, if required (only applicable for Ex-d e Ex-e)	x	NA	
47	Flow switch is installed and correctly set, if required (only applicable for Ex-d e Ex-e)	x	NA	
	Extra Ex d checks			
48	Obstructions adjacent to flame proof flanged joints are in accordance with IEC 60079-14	x	NA	
49	Ex d conduits seals are fitted to all conduits and satisfactorily sealed	x	NA	
50	Cable glands are of the correct type and installed correctly	x	OK	
51	Adaptors, reducers, stop ends, etc. are all certified Ex d	x	OK	
52	Flame path are clean and undamaged	x	OK	
53	Flange gap dimensions are within tolerances	x	NA	
54	Motor fans have sufficient clearance to the enclosure and/or covers, cooling systems are undamaged, motor foundations have no indentations or cracks	x	NA	
55	The ventilation airflow is not impeded	x	NA	
56	Insulation resistance (IR) of the motor windings is satisfactory	x	NA	
57	Fault loop impedance (TN systems) or earthing resistance (IT systems) is satisfactory	x	NA	
58	Variable voltage/frequency installation complies with documentation	x	NA	
	Extra Ex e checks			
59	All Equipment is Ex e certified (including components within enclosure)	x	NA	
60	Power conductors are not bunched together causing possible hot spots	x	NA	
61	Motor fans have sufficient clearance to the enclosure and/or covers, cooling systems are undamaged, motor foundations have no indentations or cracks	x	NA	
62	Insulation resistance (IR) of the motor windings is satisfactory	x	NA	
63	Fault loop impedance (TN systems) or earthing resistance (IT systems) is satisfactory	x	NA	
64	The ventilation airflow is not impeded	x	NA	
65	Motor protection devices operate within the permitted tE or tA time limits.	x	NA	
66	Variable voltage/frequency installation complies with documentation	x	NA	

ITEM	Tag	ELF-200N1-02-L1-11	: NORMAL LIGHT			Dwg	123A90-DDL-EL-DL-20118
	S/Sys	83-40	: Normal Lighting Upper Deck			Module	UD
TASK	code	C10001666		Location	Onshore Activities	User	Rosetti Marino Quality Control
FORM	Process	MC	Activity CCK	Discipline	ATEX	Form	CJX01
							Hazardous Area Equipment Detailed Inspection

Extra Ex n (nR, nL) checks					
67	All Terminals are Ex n certified (if required on certificate)	x	NA		
68	Hermetically sealed and enclosed break devices are undamaged	x	NA		
69	Restricted breathing properties satisfactory (conduct vacuum test)	x	NA		
70	Test port, if fitted, is functional (type “nR” only)	x	NA		
71	Breathing operation is satisfactory (type “nR” only)	x	NA		
72	Motor fans have sufficient clearance to the enclosure and/or covers, cooling systems are	x	NA		
73	The ventilation airflow is not impeded	x	NA		
74	Insulation resistance (IR) of the motor windings is satisfactory	x	NA		
75	Motor protection devices operate within the permitted tE or tA time limits.	x	NA		
76	Variable voltage/frequency installation complies with documentation	x	NA		
Extra Ex p checks					
77	Pressurization gas is correct type	x	NA		
78	Actual pressure is within maximum and minimum settings for equipment	x	NA		
79	Timers set as per certification documentation	x	NA		
80	Alarms and trip functions operate correctly as per certification documentation	x	NA		
81	Fault loop impedance (TN systems) or earthing resistance (IT systems) is satisfactory	x	NA		
82	Automatic electrical protective devices operate within permitted limits	x	NA		
83	Automatic electrical protective devices are set correctly	x	NA		
84	Protective gas inlet temperature is below maximum specified	x	NA		
85	Ducts, pipes and enclosures are in good condition	x	NA		
86	Protective gas is substantially free from contaminants	x	NA		
87	Protective gas pressure and/or flow is adequate	x	NA		
88	Pressure and/or flow indicators, alarms and interlocks function correctly	x	NA		
89	Conditions of spark and particle barriers of ducts for exhausting the gas in hazardous area are satisfactory	x	NA		
90	Specific conditions of use (if applicable) are complied with		NA		
Extra Ex i (Intrinsically Safe – IS) checks					
91	Equipment has adequate circuit identification for ‘IS’ Installation	x	NA		
92	Cables are installed in accordance with the documentation	x	NA		
93	Segregation is maintained between IS and non-IS Circuits	x	NA		
94	Cable screens are isolated at one end (field side)	x	NA		
95	Cable screens are earthed in accordance with the documentation	x	NA		
96	Safety barrier units, relays and other energy limiting devices are of the approved type, installed in	x	NA		
97	Equipment installed is the one specified in the documentation	x	NA		
98	Ambient temperature range of the apparatus is correct for the installation	x	NA		
99	Service temperature range of the apparatus is correct for the installation	x	NA		
100	Installation is clearly labelled	x	NA		
101	Printed circuit boards are clean and undamaged	x	NA		
102	The maximum voltage Um of the associated apparatus is not exceeded	x	NA		
103	Point-to-point connections are all correct	x	NA		
104	Earth continuity is satisfactory (e.g. connections are tight, conductors are of sufficient cross-section)	x	NA		
105	Earth connections maintain the integrity of the type of protection	x	NA		
106	Intrinsically safe circuit earthing is satisfactory	x	NA		
107	Insulation resistance is satisfactory	x	NA		
108	Short-circuit protection of the power supply is in accordance with the documentation	x	NA		

	BARRIER:	**Manufacturer:**	NA	**Model:**	NA		
		Authority:	NA	**Cert No:**	NA	**Type:**	NA

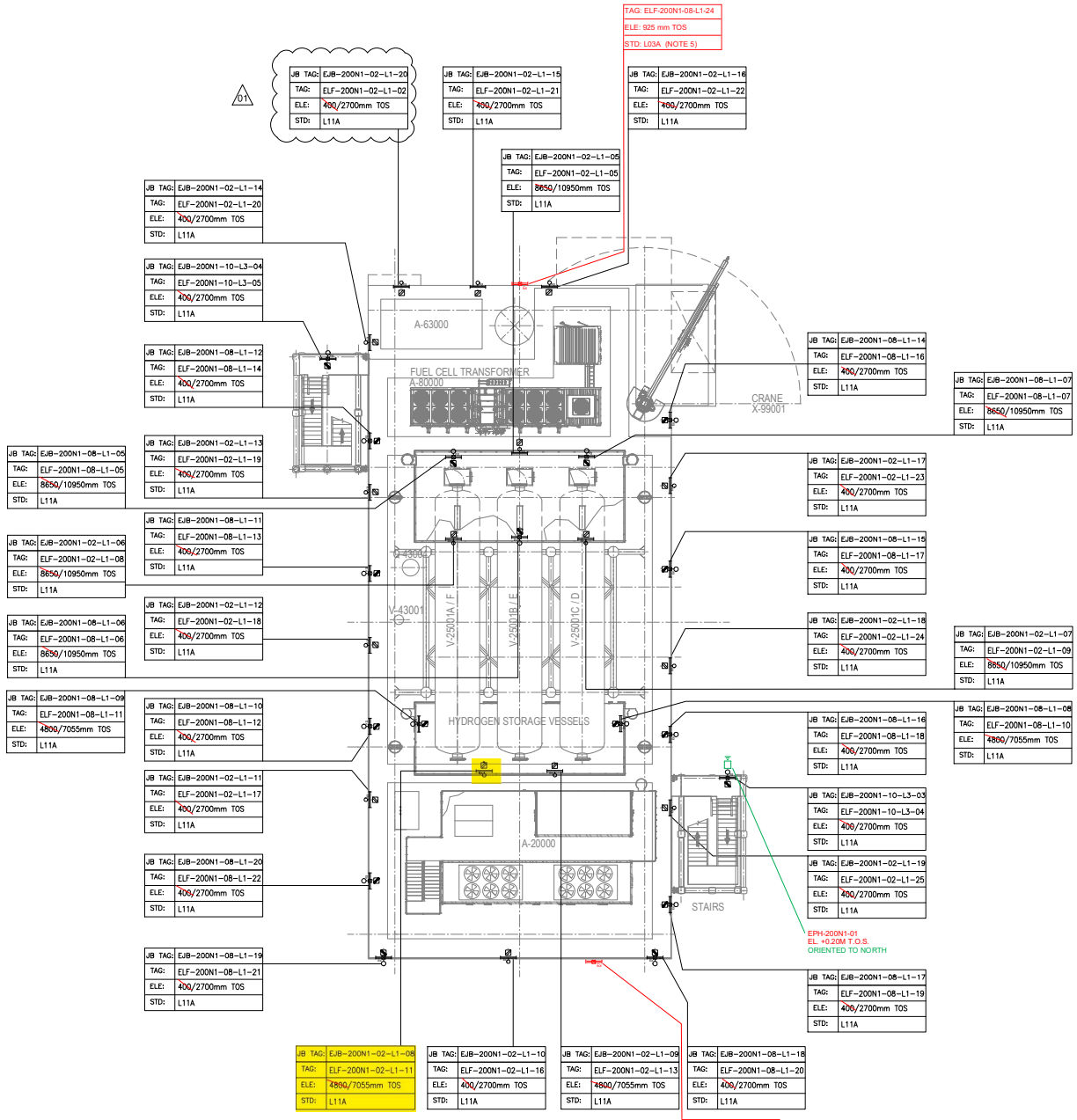
Remarks: Initial inspection should be detailed and carried out before equipment is brought into service as per IEC 60079-17

Please mark only one box as appropriate	
●	**Passed - Complete**
	Failed

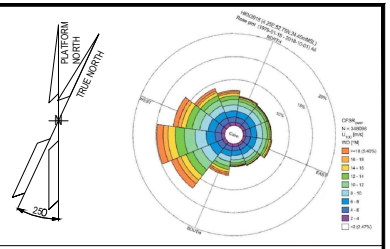
Page 3/3	Performed by	☐ WITNESS ☐ REVIEW	☐ WITNESS ☐ REVIEW
Company	ICS IMPIANTI	RM(ROSETTI MARINO)	
Name	Francesco Zucca	Andrea Andreani	
Date	2024-12-11	2025-01-13	
Signature	PROVERLIS Digitaly signed by Francesco Zucca 2024-12-11T15:25:30.607Z	PROVERLIS Digitaly signed by Andrea Andreani 2025-01-13T14:33:56.381Z	

DRAWING NO. 123A90-DDL-EL-DL-20118

REV. 01



PLAN ON UPPER DECK
EL+30.310 T.O.S.



NOTES

1. ALL DIMENSIONS AND ELEVATIONS ARE GIVEN IN mm UNLESS OTHERWISE NOTED.
2. ELEVATIONS REFER TO T.O.S.
3. ELEVATION OF THE LAMPS ARE REFFERED TO THE BOTTOM OF THE LAMP.
4. FOR THE ELEVATION OF JB, REFER TO THE TYPICAL INSTALLATION.
5. FOR ELF-200N1-08-L1-24 AND ELF-200N1-08-L1-25 CONSTRUCTION DETAILS REFER TO DOC. 123A90-DDL-ST-DD-90076

LEGEND

- EMERGENCY LIGHTING JB
- 60W LED EMERGENCY LUMINARIES
- 60W LED EMERGENCY LUMINARIES FIXTURE POLE MOUNTED
- NORMAL LIGHTING JB
- 45W LED NORMAL LUMINARIES
- 45W LED NORMAL LUMINARIES FIXTURE POLE MOUNTED
- WELDING SOCKET WITH INTEGRATED JB
- SMALL POWER SOCKET WITH INTEGRATED JB
- TWILIGHT RELAY SENSOR

JB TAG: — JB-TAG
TAG: — TAG
ELE: — ELEVATION
STD: — STANDARD

REFERENCE DOCUMENTS

123A90-DDL-PP-DL-70070	PLOT PLAN - LOWER & UPPER DECK
123A90-DDL-EL-DL-20100	ELECTRICAL EQUIPMENT LAYOUT - TOP DECK
123A90-DDL-EL-DD-20091	ELECTRICAL TYPICAL INSTALLATION DETAILS - LIGHTING SYSTEM
123A90-DDL-EL-DD-20092	ELECTRICAL TYPICAL INSTALLATION DETAILS - POWER SYSTEM & CABLE INSTALLATION
123A90-DDL-EL-RE-20153	LIGHTING CALCULATION STUDY REPORT
123A90-DDL-ST-DD-90076	IDENTIFICATION PANELS ASSEMBLY AND DETAILS

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	02/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	28/05/24	ASR	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DL-20118**

REV.:	DATE:	SIGNATURE:
1_F	26/11/24	G.Randi

ROSETTI MARINO SpA

CROSSWIND

ROSETTI MARINO

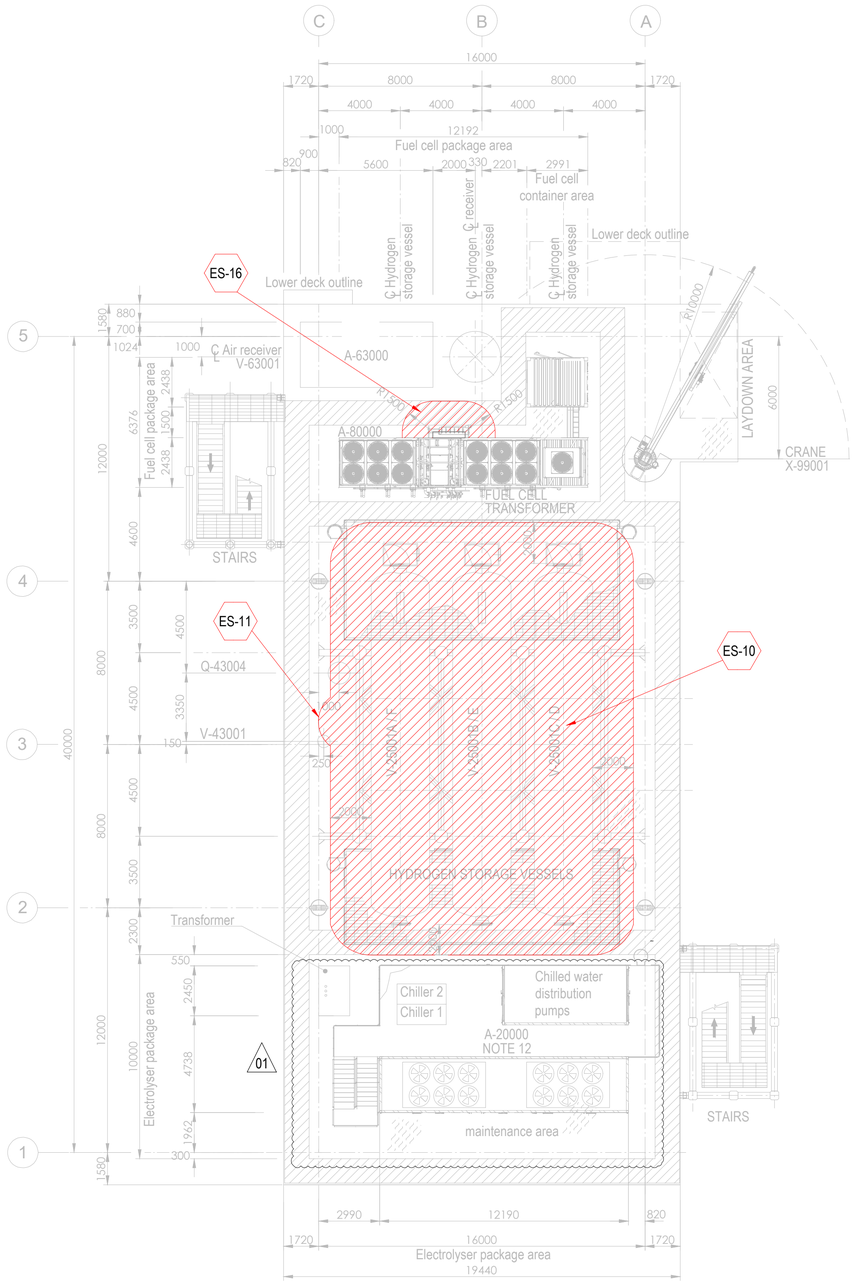
TITLE : BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET LAYOUT – TOP DECK

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK			SCALE 1:150
DRAWN ASR	CHECKED FMA/AMA	APPROVED FPA/DLO	DATE 01/08/24
A1	DRAWING NO. 123A90-DDL-EL-DL-20118	SHEET 1of2	REV. 01

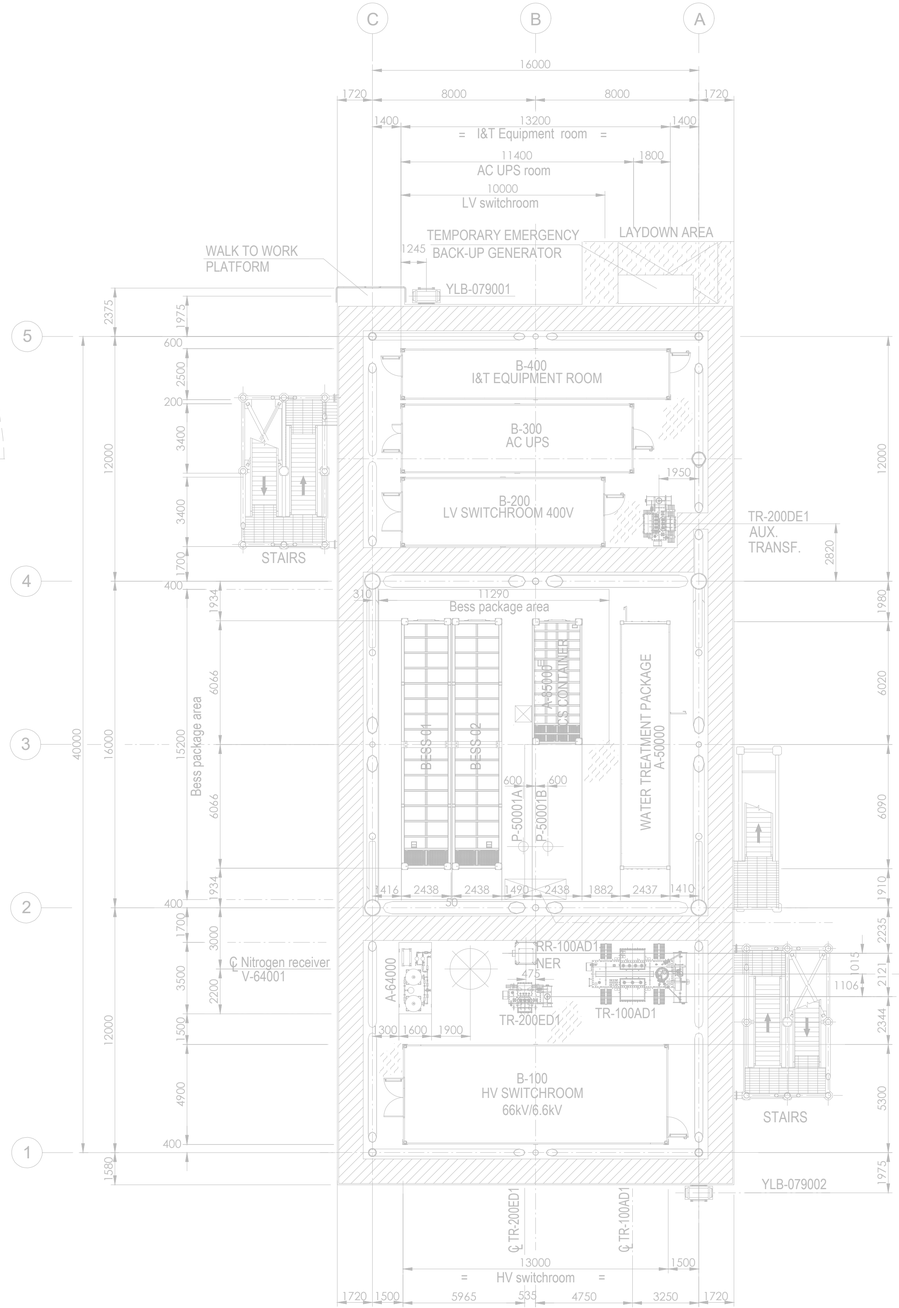
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DRAWING NO. 123A90-DDL-SAF-DL-30022

REV. 01



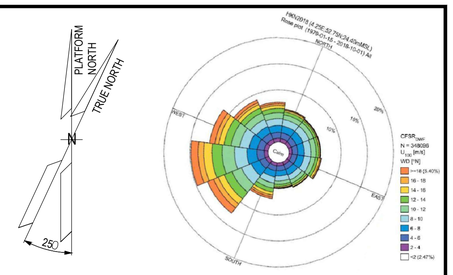
PLAN ON UPPER DECK
EL+30.310 T.O.S.



PLAN ON LOWER DECK
EL+23.310 T.O.S.

Tag No.	Equipment Tag	Description	Material	Ventilation Type
01	P-50001 A/B	SEA WATER LIFT PUMPS	SEA WATER	NATURAL (OPEN AREA)
02	Q-43004	HYDROGEN VENT	HYDROGEN	NATURAL (OPEN AREA)
03	V-43001	HYDROGEN VENT KO DRUM	HYDROGEN	NATURAL (OPEN AREA)
04	V-25001 (A/B/C/D/E/F)	HYDROGEN STORAGE VESSELS	HYDROGEN	NATURAL (OPEN AREA)
05	V-63001	AIR RECEIVER	INSTRUMENT AIR	NATURAL (OPEN AREA)
06	A-20000	ELECTROLYSER PACKAGE		
07	A-63000	INSTRUMENT AIR PACKAGE		
08	A-80000	FUEL CELL PACKAGE		
09	A-85000	BESS PACKAGE		
10	YLB-079001/2	LIFE RAFTS		
11	A-50000	WATER TREATMENT PACKAGE		

Tag No.	Equipment Tag	Description	Material	Ventilation Type
12	A-64000	NITROGEN SYSTEM		
13	B-100	HV SWITCHROOM 66kV/6.6kV		
14	B-200	LV SWITCHROOM 400V		
15	B-300	AC UPS EQUIPMENT ROOM		
16	B-400	I&T EQUIPMENT ROOM		
17	TR-100AD1	TRANSFORMER MAIN 66kV/6.6kV		
18	RR-100AD1-NER	NEUTRAL EARTHING RESISTOR		
19	TR-200DE1	TRANSFORMER AUX. 6.6kV/0.4kV		
20	TR-200ED1	SOLAR TRANSFORMER PV FARM EQUIPMENT		
21	X-99001	CRANE		
22	V-64001	NITROGEN RECEIVER		



1. ALL DIMENSIONS IN mm U.N.O
2. ALL ELEVATIONS IN METERS.
3. PLATFORM NORTH DIRECTION IS N 25°W.
4. VENT TOP SHALL BE REACHEABLE FOR MAINTENANCE PURPOSE.
5. THE BESS IS CONSIDERED SAFE AREA EXCEPT EXTRACTORES FROM BATTERIES , CURRENTLY NOT SHOWN IN DRAWINGS, SINCE INFORMATION FROM VENDOR IS NOT YET AVAILABLE.[ES17]
6. THE LOCATION OF EMISSION SOURCES ON THE LAYOUT ARE ONLY INDICATIVE. EMISSION SOURCES CONSIDERED ARE PRESENT WITHIN THE EXTENSION OF HAZARDOUS CLASSIFIED AREAS SHOWN ON THE LAYOUT. THIS IS BECAUSE VALVES AND FLANGES,WHICH ARE CONSIDERED POTENTIAL SOURCES OF RELEASE POINTS FOR FLAMMABLE GAS ARE NOT SHOWN ON CURRENT LAYOUT PROVIDED. THE SAME APPLIES TO THE EMISSION SOURCES FOR CPI'S ITEM.
7. IDENTIFIED EMISSION SOURCES DETAIL

EMISSION SOURCE No.	IDENTIFIED AREAS
ES10	HYDROGEN STORAGE VESSLES
ES11	HYDROGEN VENT KO DRUM
ES16	FUEL CELL

01

ZONE 0 | ZONE 1 | ZONE 2 | ES EMISSION SOURCES

01

01

123A90-DDL-PP-DS-70071	PLOT PLAN - BELOW LOWER DECK
123A90-DDL-PP-DS-70072	PLOT PLAN - ELEVATION LOOKING NORTH & EAST

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	27/08/24	MMA	CCA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	08/02/24	MMA	CCA	DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND

ROSETTI MARINO

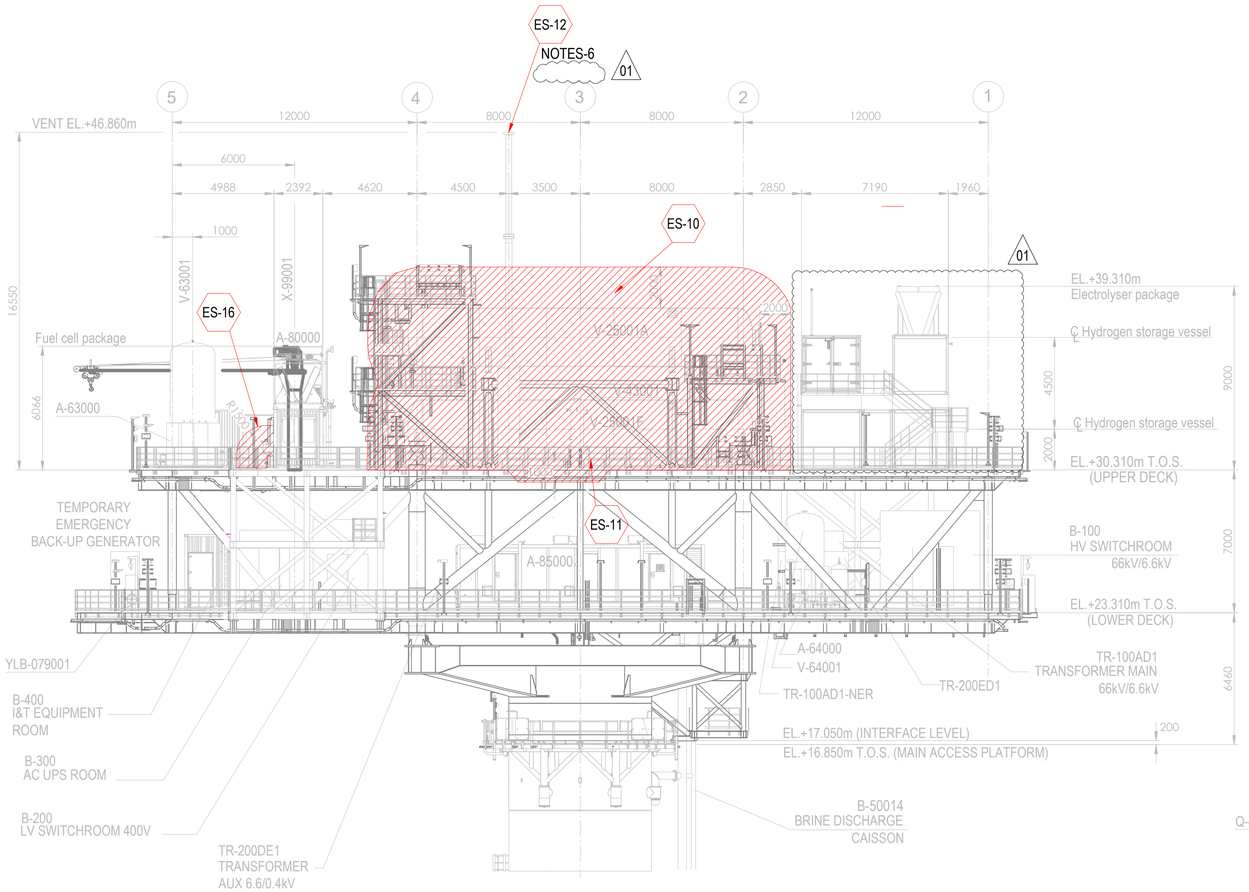
TITLE : BASE LOAD POWER HUB (BLPH)
HAZARDOUS AREA CLASSIFICATION
LOWER & UPPER DECK

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK		SCALE 1:150
DRAWN M. MAGNI	CHECKED C. CARACCIOLO	APPROVED D. LO STERZO	DATE 03/07/24
A1	DRAWING NO. 123A90-DDL-SAF-DL-30022	SHEET 001	REV. 01

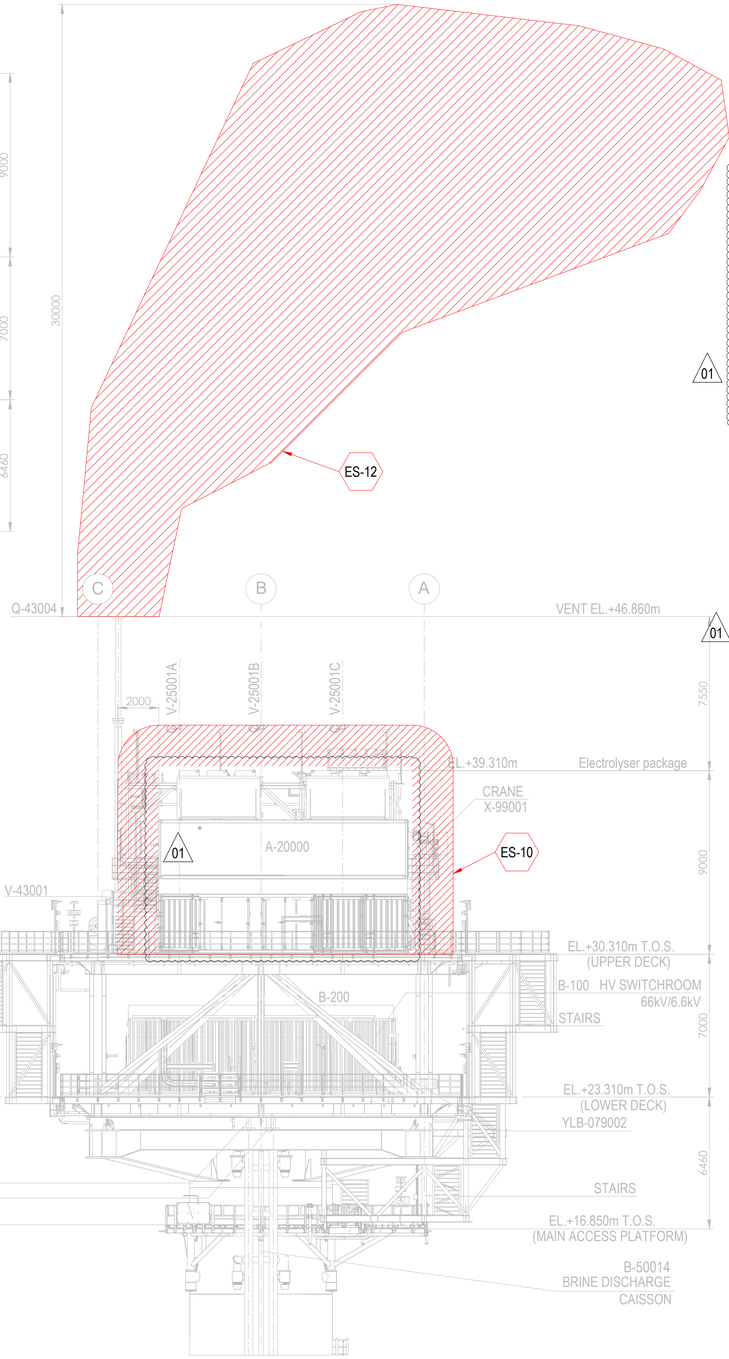
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DRAWING NO. 123A90-DDL-SAF-DL-30024

REV. 01



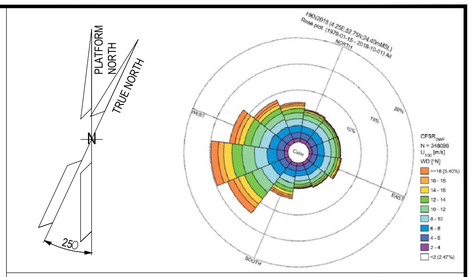
ELEVATION LOOKING EAST



ELEVATION LOOKING NORTH

01

Tag No.	Equipment Tag	Description	Material	Ventilation Type
01	P-50001 A/B	SEA WATER LIFT PUMPS	SEA WATER	NATURAL (OPEN AREA)
02	Q-43004	HYDROGEN VENT	HYDROGEN	NATURAL (OPEN AREA)
03	V-43001	HYDROGEN VENT KO DRUM	HYDROGEN	NATURAL (OPEN AREA)
04	V-25001 (A/B/C/D/E/F)	HYDROGEN STORAGE VESSELS	HYDROGEN	NATURAL (OPEN AREA)
05	V-63001	INSTRUMENT AIR RECEIVER	INSTRUMENT AIR	NATURAL (OPEN AREA)
06	A-20000	ELECTROLYSER PACKAGE		
07	A-63000	INSTRUMENT AIR PACKAGE		
08	A-80000	FUEL CELL PACKAGE		
09	A-85000	BESS PACKAGE		
10	YLB-079001/2	LIFE RAFTS		
11	B-100	HV SWITCHROOM 66kV/6.6kV		
12	B-200	LV SWITCHROOM 400V		
13	B-300	AC UPS EQUIPMENT ROOM		
14	B-400	I&T EQUIPMENT ROOM		
15	TR-100AD1	TRANSFORMER MAIN 66kV/6.6kV		
16	TR-100AD1-NER	NEUTRAL EARTHING RESISTOR		
17	TR-200DE1	TRANSFORMER AUX. 6.6kV/0.4kV		
18	TR-200ED1	SOLAR TRANSFORMER PV FARM EQUIPMENT		
19	X-99001	CRANE		
20	V-64001	NITROGEN RECEIVER		



NOTES

1. ALL DIMENSIONS IN mm U.N.O
2. ALL ELEVATIONS IN METERS.
3. PLATFORM NORTH DIRECTION IS N 25°W.
4. VENT TOP SHALL BE REACHEABLE FOR MAINTENANCE PURPOSE.
5. THE BESS IS CONSIDERED SAFE AREA EXCEPT EXTRACTORES FROM BATTERIES , CURRENTLY NOT SHOWN IN DRAWINGS, SINCE INFORMATION FROM VENDOR IS NOT YET AVAILABLE.[ES17]
6. (ES12) IS SHOWN ONLY ON ELEVATION LOOKING NORTH ON THIS LAYOUT
7. THE LOCATION OF EMISSION SOURCES ON THE LAYOUT ARE ONLY INDICATIVE. EMISSION SOURCES CONSIDERED ARE PRESENT WITHIN THE EXTENSION OF HAZARDOUS CLASSIFIED AREAS SHOWN ON THE LAYOUT. THIS IS BECAUSE VALVES AND FLANGES,WHICH ARE CONSIDERED POTENTIAL SOURCES OF RELEASE POINTS FOR FLAMMABLE GAS ARE NOT SHOWN ON CURRENT LAYOUT PROVIDED. THE SAME APPLIES TO THE EMISSION SOURCES FOR CPI'S ITEM.
8. IDENTIFIED EMISSION SOURCES DETAIL

EMISSION SOURCE No.	IDENTIFIED AREAS
ES10	HYDROGEN STORAGE VESSLES
ES11	HYDROGEN VENT KO DRUM
ES12	HYDROGEN VENT
ES16	FUEL CELL

01

LEGEND

ZONE 0 | ZONE 1 | ZONE 2 | ES EMISSION SOURCES

01

REFERENCE DOCUMENTS

123A90-DDL-PP-DS-70070	PLOT PLAN - LOWER & UPPER DECK
123A90-DDL-PP-DS-70071	PLOT PLAN - BELOW LOWER DECK

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	27/08/24	MMA	CCA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	08/02/24	MMA	CCA	DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND | ROSETTI MARINO

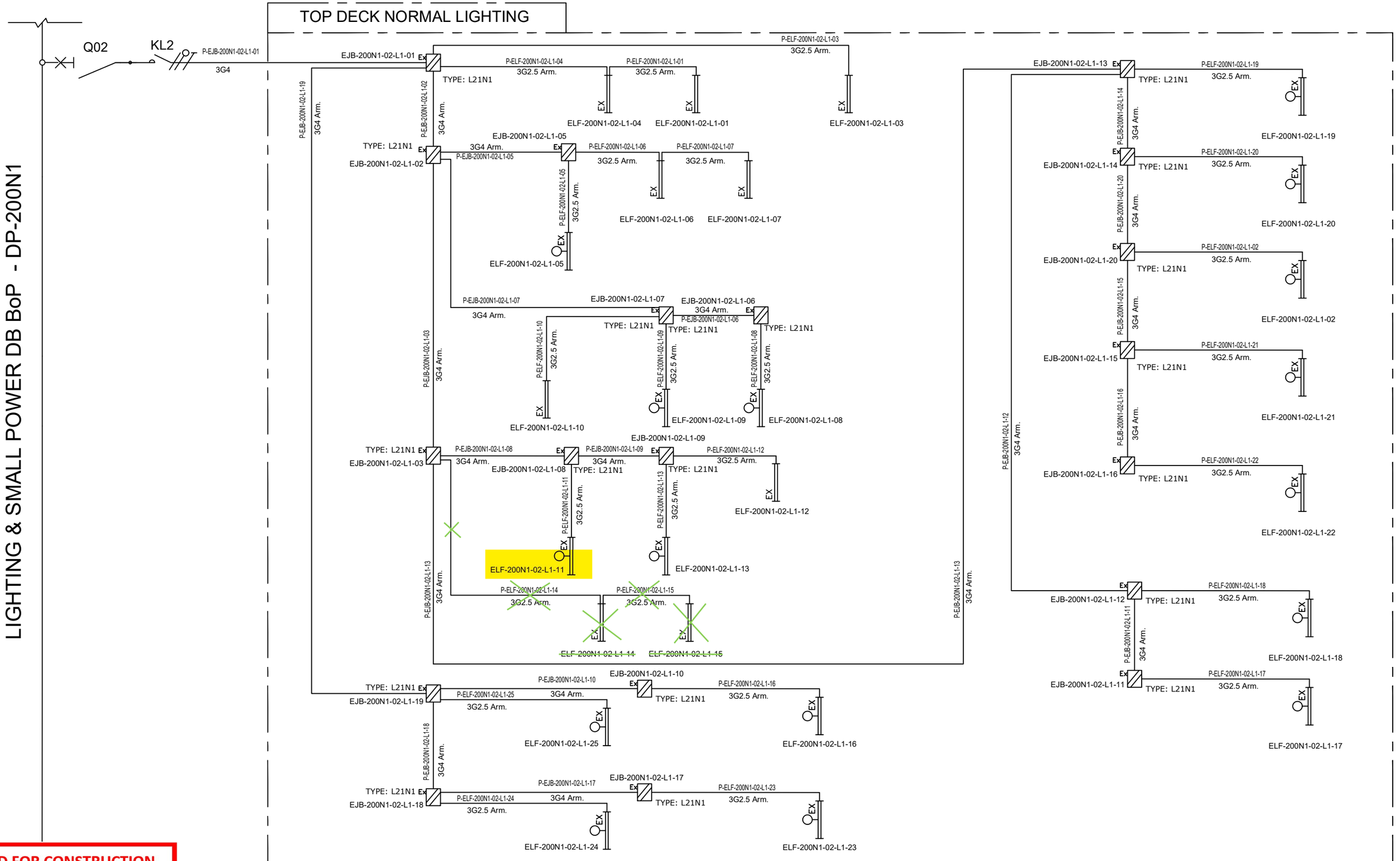
TITLE :
BASE LOAD POWER HUB (BLPH)
HAZARDOUS AREA CLASSIFICATION
ELEVATION LOOKING NORTH & EAST

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK			SCALE 1:150
DRAWN M. MAGNI	CHECKED C. CARACCIOLO	APPROVED D. LO STERZO	DATE 03/07/24

A1	DRAWING NO. 123A90-DDL-SAF-DL-30024	SHEET 001	REV. 01

File Name : 123A90-DDL-SAF-DL-30024 Rev.01

LIGHTING & SMALL POWER DB BoP - DP-200N1



VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DG-20125**

REV.:	DATE:	SIGNATURE:
2_E	09/01/25	V.Ramponi

ROSETTI MARINO SpA

CROSSWIND

ROSETTI MARINO

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	08/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	01/07/24	ASR	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

TITLE : BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET CIRCUIT DIAGRAM
TOP DECK–NORMAL LIGHTING

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE : NTS

A3

DRAWING NO. 123A90–DDL–EL–DG–20125

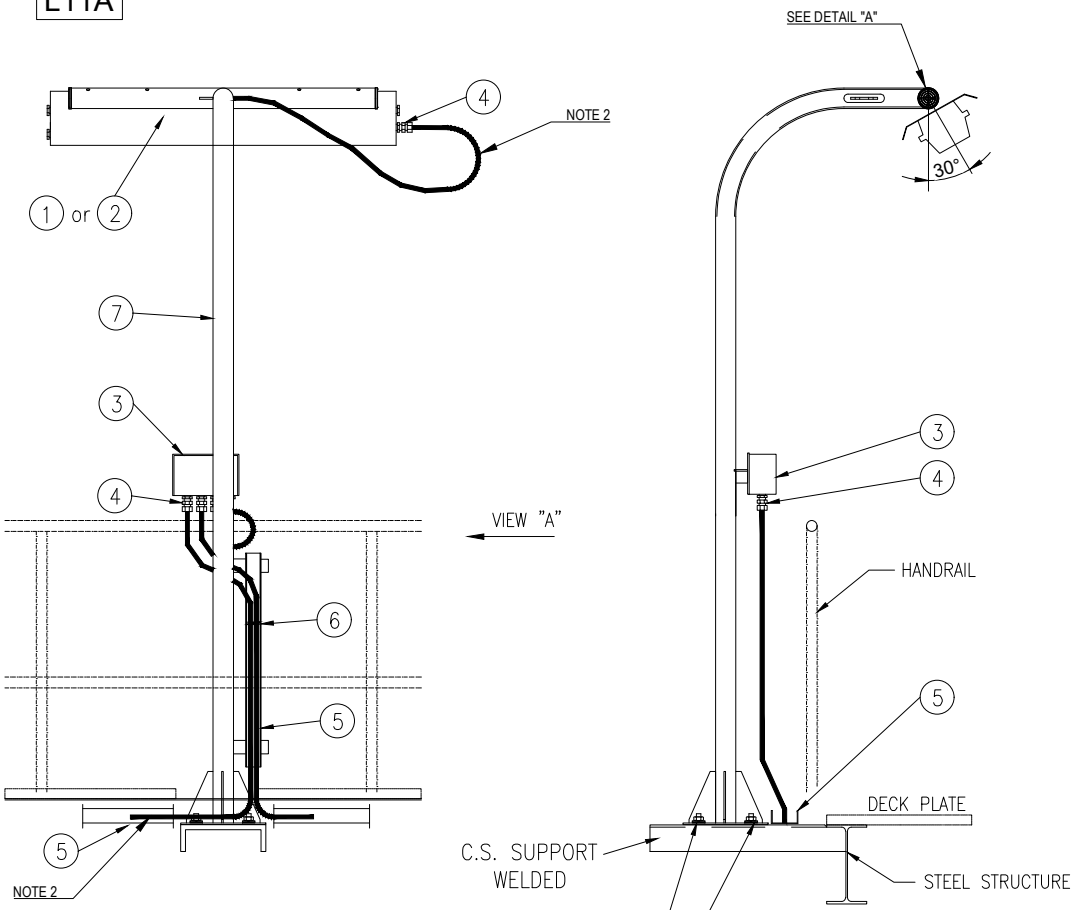
SHEET 010

REV. 01

F.to UNI A3: 420mmx297mm

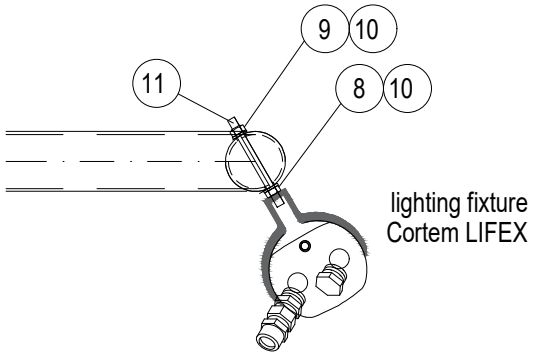
File Name : 123A90–DDL–EL–DG–20125

L11A



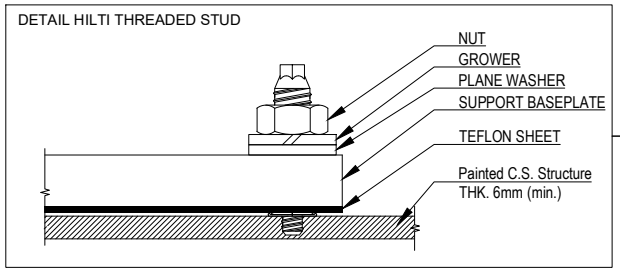
VIEW "A"

POS.	DESCRIPTION	MATERIAL	SIZE	Q.TY	NOTE
1	42W LED LUMINARIES	ALUMINIUM ALLOY		1	
2	45W LED LUMINARIES C/W BATTERY	ALUMINIUM ALLOY		1	
3	JUNCTION BOX (Ex)	GRP		1	NOTE 1
4	CABLE GLAND ~~C/W EARTH TAG,~~ WASHERS, LOCKNUT AND WEATHERPROOF WASHERS	BRASS NICKEL PLATED		AS REQ.	
5	CABLE TRAY	AISI 316L			
6	STAINLESS STEEL NYLON COATED CABLE TIE	SS NYLON COATED			
7	POLE SUPPORT FOR LAMP	AISI 316L	2"		
8	NUT	AISI 316L	M8		
9	SELF.LOCKING NUT	AISI 316L	M8		
10	LARGE PLANE WASHER (24mm DIAM.)	AISI 316L	M8		
11	THREADED ROD M8x100	AISI 316L	M8		



DETAIL "A"

SUPPORT BOLTED ON HILTI S-BT INSTALLED ON WELDED BEAM:



VALID FOR CONSTRUCTION

REV.:	DATE:	SIGNATURE:
2_B	12/12/24	C.Pilato

ROSETTI MARINO SpA

NOTES:

1) FOR LAMPS IN HAZARDOUS AREA, USE ARMOURED CABLE, DOUBLE SEAL CABLE GLAND AND EX JUNCTION BOX.

2) ALWAYS ENSURE CABLE LENGTH IS >3m

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	30/09/24	GRA	AMA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	04/07/24	NLK	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	21/11/23	SPS	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

02

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL TYPICAL INSTALLATION DETAILS-LIGHTING SYSTEM
LIGHTING FIXTURE MOUNTED ON POLE

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK | SCALE : NTS

A3 | DRAWING NO. 123A90-DDL-EL-DD-20091 | SHEET 014 | REV. 02

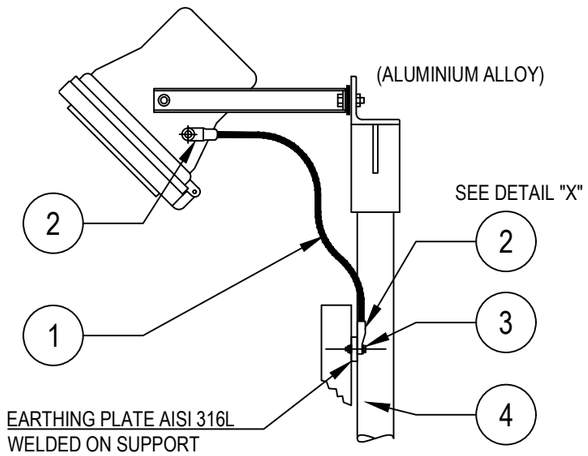
F.to UNI A3: 420mmx297mm

File Name : 123A90-DDL-EL-DD-20091 REV.02.DWG

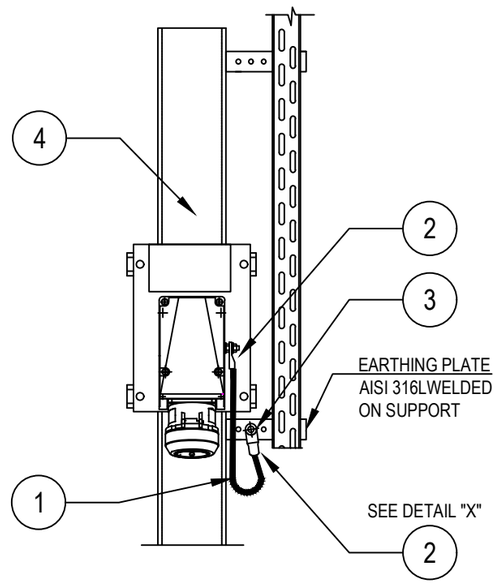
E05

POS.	DESCRIPTION	MATERIAL	SIZE	Q.TY	NOTE
1	Y/G INSULATING COPPER CONDUCTOR	COPPER	$6mm^2$		
2	COMPRESSION TYPE LUG FOR INSULATION COPPER CONDUCTOR	TINNED COPPER	$6mm^2$	2	
3	HEXAG. BOLTS, PLANE WASHERS, SPRING WASHER AND NUT	AISI 316L	M8X30	1	

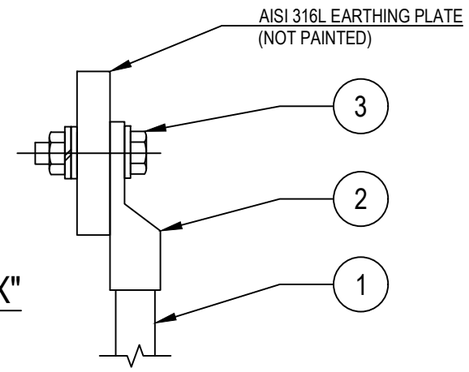
LIGHTING FIXTURE/GENERAL ITEM ON POLE



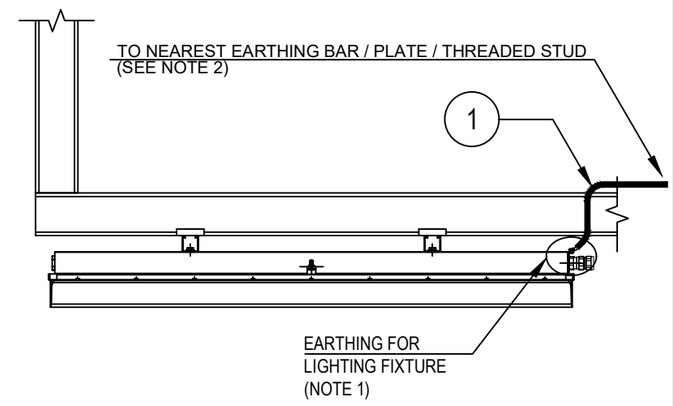
POWER SOCKET OUTLET



DETAIL "X"



LIGHTING FIXTURES



Refer also to TYP. "E32" (SEE SHEET 23)

TYPICAL VALID ALSO FOR NAVAID LIGHTS

NOTES:

1) ALL LIGHTING FIXTURES AND RELEVANT ARMOUR OF THE CABLE, ARE CONNECTED TO EARTH CONNECTION THROUGH THE EARTHING TAG OF THE CABLE GLAND

2) FOR EARTHING POINT USE ONE OF THE FOLLOWING METHODS:
TYP. E03A-D sh. 004 (EARTHING BAR ON STRUCT. UNISTRUT AND CABLE TRAY)
TYP. E11C sh. 003 (EARTHING PLATE)
TYP. E11D sh. 003 (THREADED STUD ON EXTERNAL STRUCTURE)

VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DD-20090**

REV.:	DATE:	SIGNATURE:
2_H	05/11/24	G.Randi

ROSETTI MARINO SpA

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	26/08/24	GRA	AMA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	10/06/24	SPS	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	21/11/23	SPS	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL TYPICAL INSTALLATION DETAILS–EARTHING SYSTEM
EARTHING FOR ELECTRICAL EQUIPMENTS

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK | SCALE : NTS

A3 | DRAWING NO. 123A90-DDL-EL-DD-20090 | SHEET 006 | REV. 02

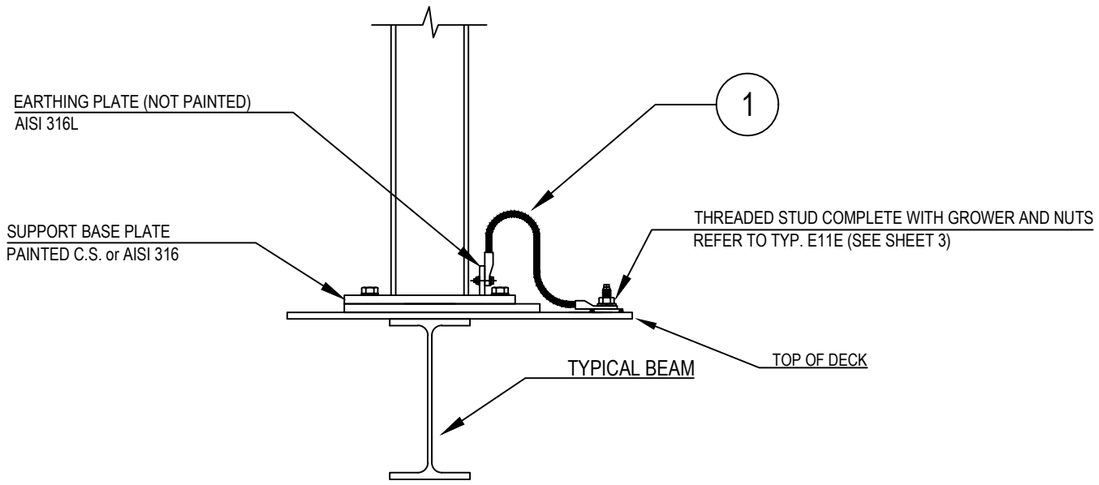
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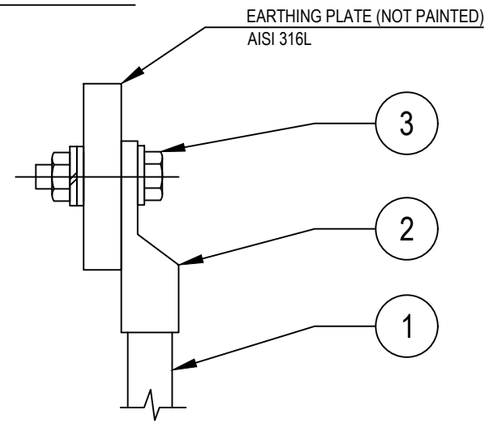
E24

POS.	DESCRIPTION	MATERIAL	SIZE	Q.TY	NOTE
1	As. R. Y/G INSULATING COPPER CONDUCTOR	COPPER	$35mm^2$		
2	COMPRESSION TYPE LUG FOR INSULATION COPPER CONDUCTOR	TINNED COPPER	$35mm^2$	2	~~NOTE 1~~
3	HEXAG. BOLT M10X30 COMPLETE WITH PLANE WASHERS, SPRING WASHER AND NUT	AISI 316L	M10X30	2	

GENERIC SUPPORT BOLTED ON STRUCTURE



DETAIL "X"



NOTES:
1) ~~CABLE LUG CRIMPING METHOD SHALL BE HEXAGONAL COMPRESSION DIES ONLY.~~
2) EXTERNAL EARTHING CONNECTION ONLY SHALL BE PROTECTED AGAINST CORROSION USING OXIDE RESISTANT COMPOUND (E.G. COPPER GREASE)

VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DD-20090**

REV.:	DATE:	SIGNATURE:
2_H	05/11/24	G.Randi

ROSETTI MARINO SpA

CROSSWIND

ROSETTI MARINO

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	26/08/24	GRA	AMA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	10/06/24	SPS	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	21/11/23	SPS	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL TYPICAL INSTALLATION DETAILS–EARTHING SYSTEM
EARTHING FOR POLE/SUPPORT OF GENERIC EQUIPMENTS

CONTRACT NO./TITLE CW–I–WP4–2023–05/HOLLANDSE KUST NOORD WIND PARK | SCALE : NTS

A3	DRAWING NO.	SHEET	REV.
	123A90–DDL–EL–DD–20090	012	02

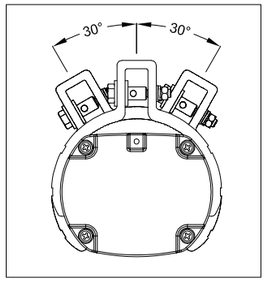
F.to UNI A3: 420mmx297mm

File Name : 123A90-DDL-EL-DD-20090 REV.02.DWG

MODEL C-225 REV.1

GENERAL NOTE:
- PO: 1724001290 DD 26/06/2024
- ITEM.: 1
- Q.TY: 57
- EXTERNAL PAINTING: RAL 7022 (END CAPS)
- INTERNAL PAINTING: NOT PAINTED
- ALL DIMENSIONS ARE IN mm

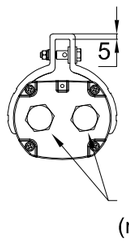
STANDARD FIXING BRACKET
FASTENING WITH 2 THREADED M8
HOLES, ADJUSTABLE FROM 0° TO ±30°



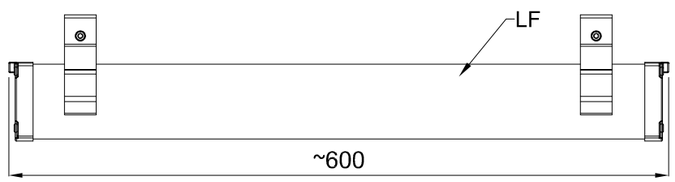
LF INFORMATION	
NOMINAL POWER	45W
CONSUMED POWER	43,5W
POWER FACTOR	>0,93
RATED CURRENT	200 mA
VIEWING ANGLE	120°
COLOUR TEMP.	5000 K
CRI	>80
INSTANT RESTRIKE	YES
LUMEN	6200 lm
LIGHT INTENSITY	2248 cd
EFFICIENCY	143 lm/W
WEIGHT	2,5 Kg
IP PROTECTION	IP66

N°	Q.TY	CODE	DESCRIPTION
LF	1	LIFEX-ME-0645-BB	110-277Vac 50-60Hz 45W LED LINEAR LIGHTING FIXTURE BODY: ALUMINUM ALLOY EXTRUSION AND ALUMINUM END CAPS TRANSPARENT PART: GLASS RESISTANT TO SHOCKS, UV RAYS AND IMPACT RESISTANCE IK09 GASKETS: ACID AND HYDROCARBON RESISTANT SILICONE ASSEMBLY: FASTENING BRACKETS FOR M8 HOLES, ADJUSTABLE 0° TO ±30° MADE IN ANODIZED ALUMINUM CONNECTION: TERMINAL BLOCK ON SIDE (IN) L, N, PE CROSS SEC. MAX. 4mmq SUITABLE FOR LOOP-IN LOOP-OUT SCREWS, BOLTS AND NUTS: STAINLESS STEEL 304
PG1	4	PLG1IB +DL1IB +RDI1IS/A4	IP66 Ex db IIC Gb - Ex eb IIC Gb NICKEL PLATED BRASS PLUG ISO M20x1,5 WITH RELEVANT LOCKNUT AND SERRATED WASHER MADE IN STAINLESS STEEL

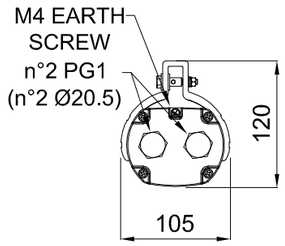
LEFT SIDE (OUT)



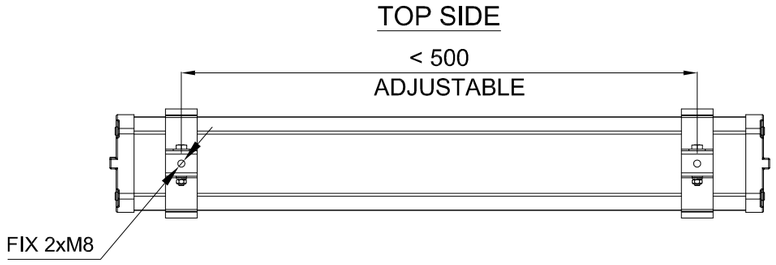
FRONT SIDE



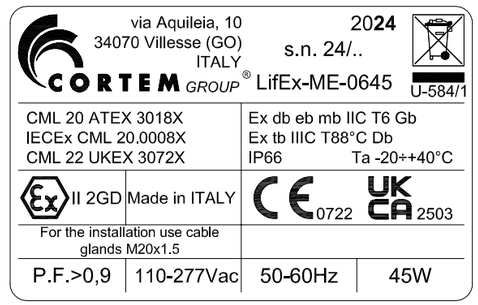
RIGHT SIDE (IN)



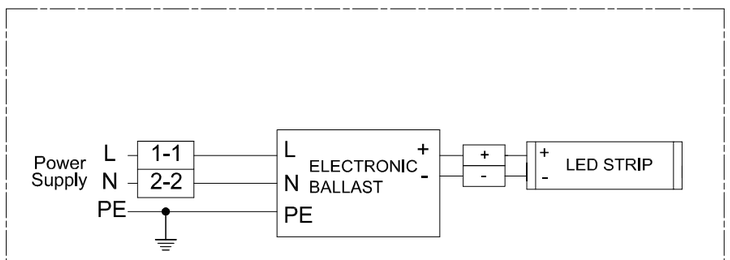
TOP SIDE



CERTIFICATE NAMEPLATE



WIRING DIAGRAM



REV.	DATE	PREP'D	CHK'D	APP'D	DESCRIPTION
2	09/07/2024	FRATTARUOLO	GIUSTI	GRATTON	REISSUED FOR APPROVAL
1	05/07/2024	FRATTARUOLO	GIUSTI	GRATTON	REISSUED FOR APPROVAL
0	28/06/2024	FRATTARUOLO	GIUSTI	GRATTON	ISSUED FOR APPROVAL

DRAWING TITLE: ROSETTI MARINO S.P.A.

CORTEM S.p.a.
GENERAL LAYOUT
001 LIFEX-ME-0645-BB/C2402693/10.

CORTEM JOB: COV2402693
DRAWING SCALE: /
DRAWING NUMBER: A3-C 27521
SHEET: 1
NEXT: 2
TOT.: 2

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Smart Professional R. 2012

Row	Data Sheet for Lighting Fixtures & Accessories				Rev.
1	42W LED Linear Luminaire-Normal Lighting-ATEX Area				
2	Item	Required	Manufacturer Proposal	Comments	
3	Model Number	by vendor	LIFEX-ME-0645-BB		01
4	Serial Number	by vendor			00
5	Quantity	28 Nos.		(25+3 Spare)	01
6	Location / Module	Upper deck			00
7	**LED Lamp**				
8	Nominal power	42 watts	45 watts		01
9	No. of linear	1	1		01
10	Luminous flux	5810 lm	6200 lm		01
11	Colour Temperature	5000 K	5000 K		01
12	**Protection**				
13	Hazardous Area Certification (Ex)	Zone 1 Gas Group IIC (or) IIB + H2, T1	Ex II 2GD Ex db eb mb IIC Gb Ex tb IIIC Db		01
14	Degree of Protection (IP)	IP 56	IP 66		01
15	ATEX certified	Classification EX db	ATEX CML 20 ATEX 3018X		01
16	**Material**				
17	Body	GRP/Aluminium alloy	Aluminium alloy		01
18	Reflector	GRP/Aluminium	Aluminium		01
19	Diffuser	Polycarbonate/temperate glass	Tempered glass		01
20	**Cable Entry**				
21	No. of cable entry	4 Nos.	4 Entries, 2 per side		01
22	Size	M20	Ø20.5mm		01
23	**Emergency Battery Pack**				
24	Requirement	Not required			00
25	Battery type	Not required			00
26	Autonomy	Not required			00
27	Emergency luminous flux	Not required			00
28	**Mechanical parameters**				
29	Dimension	by vendor	600x105x120(mm)		01
30	Weight	by vendor	2.5kg		01

Note:

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Tag Number	Tag Description	Location	P.O.	Vendor	Manufacturer	Serial Number	Model Type Catalogue Number	Installation Zone	ATEX Certificate Number	Reference Document	ATEX Certification Marking	Notes / Comments	Skid / Package	Electrical Equip.	Barrier Calculation Ref.	Special Conditions of Safe Use Applicable	3D Location
EJB-200N1-08-L1-07	Emergency Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990079	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-08-L1-08	Emergency Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990081	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-08-L1-09	Emergency Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990080	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-08-L1-10	Emergency Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990075	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-08-L1-11	Emergency Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990074	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-08-L1-12	Emergency Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990073	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-08-L1-14	Emergency Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990071	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-08-L1-15	Emergency Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990070	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-08-L1-16	Emergency Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990069	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-08-L1-17	Emergency Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990068	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-08-L1-18	Emergency Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990067	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-08-L1-19	Emergency Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990066	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-08-L1-20	Emergency Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990076	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-09-L2-01	Emergency Lighting JB	LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990016	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-09-L2-02	Emergency Lighting JB	LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990019	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-09-L2-04	Emergency Lighting JB	LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990017	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-09-L2-05	Emergency Lighting JB	LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990030	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-09-L2-06	Emergency Lighting JB	LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990029	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-09-L2-07	Emergency Lighting JB	LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990028	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-09-L2-08	Emergency Lighting JB	LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990027	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-09-L2-09	Emergency Lighting JB	LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990026	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-09-L2-10	Emergency Lighting JB	LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990025	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-09-L2-11	Emergency Lighting JB	LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990024	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
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EJB-200N1-09-L2-13	Emergency Lighting JB	LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990022	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-09-L2-14	Emergency Lighting JB	LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990021	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-09-L2-15	Emergency Lighting JB	LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990020	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-09-L2-16	Emergency Lighting JB	LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990031	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-09-L2-17	Emergency Lighting JB	BELOW LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990015	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-10-L3-01	Stair Emergency Lighting JB	LOWER & UPPER DECK STAIRS	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990040	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-10-L3-02	Stair Emergency Lighting JB	LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990039	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-10-L3-03	Stair Emergency Lighting JB	LOWER & UPPER DECK STAIRS	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990041	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-10-L3-04	Stair Emergency Lighting JB	LOWER & UPPER DECK STAIRS	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990042	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-10-L3-05	Stair Emergency Lighting JB	BELOW LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990034	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-10-L3-06	Stair Emergency Lighting JB	BELOW LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990035	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-10-L3-07	Stair Emergency Lighting JB	BELOW LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990036	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-10-L3-08	Stair Emergency Lighting JB	BELOW LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990037	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-10-L3-09	Stair Emergency Lighting JB	BELOW LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990038	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
ELF-200N1-02-L1-01	Normal Lighting Fixture	UPPER DECK	1724001290	Cortem Spa	Cortem Spa	24/86772	LIFEX-ME-0645-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	
ELF-200N1-02-L1-02	Normal Lighting Fixture	UPPER DECK	1724001290	Cortem Spa	Cortem Spa	24/86773	LIFEX-ME-1260N-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	
ELF-200N1-02-L1-03	Normal Lighting Fixture	UPPER DECK	1724001290	Cortem Spa	Cortem Spa	24/86772	LIFEX-ME-0645-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	
ELF-200N1-02-L1-04	Normal Lighting Fixture	UPPER DECK	1724001290	Cortem Spa	Cortem Spa	24/86772	LIFEX-ME-0645-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	
ELF-200N1-02-L1-05	Normal Lighting Fixture	UPPER DECK	1724001290	Cortem Spa	Cortem Spa	24/86772	LIFEX-ME-0645-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	HAZARDOUS-AREA_8
ELF-200N1-02-L1-06	Normal Lighting Fixture	UPPER DECK	1724001290	Cortem Spa	Cortem Spa	24/86772	LIFEX-ME-0645-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	
ELF-200N1-02-L1-07	Normal Lighting Fixture	UPPER DECK	1724001290	Cortem Spa	Cortem Spa	24/86772	LIFEX-ME-0645-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	HAZARDOUS-AREA_8 HAZARDOUS-AREA_3
ELF-200N1-02-L1-08	Normal Lighting Fixture	UPPER DECK	1724001290	Cortem Spa	Cortem Spa	24/86772	LIFEX-ME-0645-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	HAZARDOUS-AREA_8 HAZARDOUS-AREA_3
ELF-200N1-02-L1-09	Normal Lighting Fixture	UPPER DECK	1724001290	Cortem Spa	Cortem Spa	24/86772	LIFEX-ME-0645-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	HAZARDOUS-AREA_8 HAZARDOUS-AREA_1
ELF-200N1-02-L1-10	Normal Lighting Fixture	UPPER DECK	1724001290	Cortem Spa	Cortem Spa	24/86772	LIFEX-ME-0645-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	HAZARDOUS-AREA_8 HAZARDOUS-AREA_1
ELF-200N1-02-L1-11	Normal Lighting Fixture	UPPER DECK	1724001290	Cortem Spa	Cortem Spa	24/86772	LIFEX-ME-0645-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	HAZARDOUS-AREA_3 HAZARDOUS-AREA_2 HAZARDOUS-AREA_5 HAZARDOUS-AREA_6
ELF-200N1-02-L1-12	Normal Lighting Fixture	UPPER DECK	1724001290	Cortem Spa	Cortem Spa	24/86772	LIFEX-ME-0645-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	HAZARDOUS-AREA_1 HAZARDOUS-AREA_2 HAZARDOUS-AREA_5 HAZARDOUS-AREA_4
ELF-200N1-02-L1-13	Normal Lighting Fixture	UPPER DECK	1724001290	Cortem Spa	Cortem Spa	24/86772	LIFEX-ME-0645-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	HAZARDOUS-AREA_1 HAZARDOUS-AREA_2 HAZARDOUS-AREA_5 HAZARDOUS-AREA_4
ELF-200N1-02-L1-14	Normal Lighting Fixture	UPPER DECK	1724001290	Cortem Spa	Cortem Spa	24/86772	LIFEX-ME-0645-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	
ELF-200N1-02-L1-15	Normal Lighting Fixture	UPPER DECK	1724001290	Cortem Spa	Cortem Spa	24/86772	LIFEX-ME-0645-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	
ELF-200N1-02-L1-16	Normal Lighting Fixture	UPPER DECK	1724001290	Cortem Spa	Cortem Spa	24/86772	LIFEX-ME-0645-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	

EU Type Examination Certificate CML 20ATEX3018X Issue 1

1 Equipment intended for use in Potentially Explosive Atmospheres Directive 2014/34/EU

2 Equipment **LifEx-ME, LifEx-MN and LifEx-MT series of linear lighting fixtures**

3 Manufacturer **Cortem S.p.A.**

4 Address **Via Aquileia 10**
34070 Villesse
(GO)
Italy

5 The equipment is specified in the description of this certificate and the documents to which it refers.

6 CML B.V., Chamber of Commerce No 6738671, Koopvaardijweg 32, 4906CV Oosterhout, The Netherlands, Notified Body Number 2776, in accordance with Article 17 of Directive 2014/34/EU of the European Parliament and of the Council, dated 26 February 2014, certifies that this equipment has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of equipment intended for use in potentially explosive atmospheres given in Annex II to the Directive.

The examination and test results are recorded in the confidential reports listed in Section 12.

7 If an 'X' suffix appears after the certificate number, it indicates that the equipment is subject to conditions of safe use (affecting correct installation or safe use). These are specified in Section 14.

8 This EU Type Examination certificate relates only to the design and construction of the specified equipment or component. Further requirements of Directive 2014/34/EU Article 13 apply to the manufacture of the equipment or component and are separately certified.

9 Compliance with the Essential Health and Safety Requirements, with the exception of those listed in the confidential report, has been demonstrated through compliance with the following documents:

EN IEC 60079-0:2018	EN 60079-1:2014	EN IEC 60079-7:2015+A1:2018
EN 60079-18:2015+A1:2017	EN 60079-31:2014	

10 The equipment shall be marked with the following:

LifEx-ME	LifEx-MN and LifEx-MT
Ex db eb mb IIC T.. Gb	Ex tb IIIC T…°C Db
Ex eb mb IIC T.. Gb *(when Ex mb LED drivers are used)*	IP66
Ex tb IIIC T…°C Db	
IP66	
Ta=* see description	Ta=* see description

11 Description

The LifEx is a range of linear LED lighting fixtures that are available in three different configurations for different applications, designated as the LifEx-ME, LifEx-MT and LifEx-MN.

LifEx-ME

The LifEx-ME version has an Equipment Protection Level of EPL Gb and Db and utilises types of protection increased safety (eb) and dust protection by enclosure (tb), along with encapsulation (mb) for the light source and flameproof (db) for the driver.

It is constructed from an aluminium enclosure, with either a glass or polycarbonate lens and with optional polycarbonate diffuser.

LifEx-MN

The LifEx-MN version has an Equipment Protection Level of EPL Gc and Db and utilises types of protection increased safety (ec) and dust protection by enclosure (tb).

It is constructed from an aluminium enclosure, with polycarbonate diffuser and/or with optional glass or polycarbonate lens.

LifEx-MT

The LifEx-MT versions has an Equipment Protection Level of EPL Db and utilises types of protection dust protection by enclosure (tb).

It is constructed from an aluminium enclosure, with polycarbonate diffuser and/or with optional glass or polycarbonate lens.

Design Options

Every configuration is available in lengths ranging from 300 mm to 1500 mm, and power ratings up to a maximum of 105W of nominal power.

The LifEx can be used in only normal service, in only emergency service or in normal and emergency service.

The minimum ambient temperature for the range is:

- -60°C for versions without battery
- -60°C for versions with the battery heater
- -20°C for versions with battery

The range is available with the following maximum ambient temperatures:

	With glass lens and with/without polycarbonate diffuser	With Polycarbonate lens and with/without polycarbonate diffuser	Without lens polycarbonate diffuser only
LifEx-M...0310	+60°C	+60°C	+60°C
LifEx-M...0315	+60°C	+60°C	+60°C
LifEx-M...0330	+60°C	Configuration not available	Configuration not available
LifEx-M...0615	+60°C	+60°C	+60°C
LifEx-M...0630	+60°C	+50°C	+60°C
LifEx-M...0645	+57°C	+47°C	+60°C
LifEx-M...0660	+47°C	Configuration not available	+58°C
LifEx-M...1230	+60°C	+60°C	+60°C
LifEx-M...1260	+60°C	+50°C	+60°C
LifEx-M...1290	+60°C	+40°C	+60°C
LifEx-M...12120	+54°C	Configuration not available	+60°C
LifEx-M...1590	+60°C	+40°C	+60°C

Table 1: Maximum Ambient Temperatures

The following tables provide the Temperature Class (EPL Gb) and Maximum Surface Temperature (EPL Db) for each LifEx type, with the following notes:

- The LifEx-MN with an ambient temperature greater than 50°C is T5 or T4. T6 is not included.
- The Temperature Class (EPL Gb) and Maximum Surface Temperature (EPL Db) in the tables below are not applicable when the ambient temperature is not permitted in the above maximum ambient temperature range table.

13. (For example, the LifEx-M...0660 is not permitted with polycarbonate lens, therefore the Temperature Class (EPL Gb) and Maximum Surface Temperature (EPL Db) for this version in tables 2 and 3 are not applicable)

	Temperature Class (EPL Gb and Gc) and Maximum Surface Temperature (EPL Db) Based on ambient temperature													
	40°C		45°C		47°C		50°C		54°C		57°C		60°C	
	EPL Db	EPL Gb/Gc	EPL Db	EPL Gb/Gc	EPL Db	EPL Gb/Gc	EPL Db	EPL Gb/Gc	EPL Db	EPL Gb/Gc	EPL Db	EPL Gb/Gc	EPL Db	EPL Gb/Gc
LifEx-M...0310	T56°C	T6	T56°C	T6	T58°C	T6	T61°C	T6	T65°C	T6	T68°C	T6	T71°C	T6
LifEx-M...0315	T56°C	T6	T56°C	T6	T58°C	T6	T61°C	T6	T65°C	T6	T68°C	T6	T71°C	T6
LifEx-M...0615	T56°C	T6	T56°C	T6	T58°C	T6	T61°C	T6	T65°C	T6	T68°C	T6	T71°C	T6
LifEx-M...0630	T69°C	T6	T69°C	T5	T71°C	T5	T74°C	T5	T78°C	T5	T81°C	T4	T84°C	T4
LifEx-M...0645	T72°C	T5	T72°C	T5	T74°C	T5	T77°C	T5	T81°C	T4	T84°C	T4	T87°C	T4
LifEx-M...0660	T77°C	T5	T77°C	T4	T79°C	T4	T82°C	T4	T86°C	T4	T89°C	T4	T92°C	T4
LifEx-M...1230	T58°C	T6	T58°C	T6	T60°C	T6	T63°C	T6	T67°C	T6	T70°C	T6	T73°C	T6
LifEx-M...1260	T67°C	T6	T67°C	T5	T69°C	T5	T72°C	T5	T76°C	T5	T79°C	T4	T82°C	T4
LifEx-M...1290	T72°C	T5	T72°C	T5	T74°C	T4	T77°C	T4	T81°C	T4	T84°C	T4	T87°C	T4
LifEx-M...12120	T75°C	T5	T75°C	T4	T77°C	T4	T80°C	T4	T84°C	T4	T87°C	T4	T90°C	T4
LifEx-M...1590	T72°C	T5	T72°C	T5	T74°C	T4	T77°C	T4	T81°C	T4	T84°C	T4	T87°C	T4

Table 2: Temperature Class (EPL Gb) and Maximum Surface Temperature (EPL Db) for LifEx types with glass/polycarbonate lens and with polycarbonate diffuser

	Temperature Class (EPL Gb and Gc) and Maximum Surface Temperature (EPL Db) Based on ambient temperature					
	40°C		55°C		60°C	
	EPL Db	EPL Gc	EPL Db	EPL Gc	EPL Db	EPL Gc
LifEx-ME-0330	T58°C	T6	T73°C	T6	T78°C	T5
LifEx-MN-0330	T58°C	T6	T73°C	T5	T78°C	T4
LifEx-MT-0330	T58°C	-	T73°C	-	T78°C	-

Table 3: Temperature Class (EPL Gb and Gc) and Maximum Surface Temperature (EPL Db) for LifEx-M...-0330 types with glass/polycarbonate window and without polycarbonate diffuser

	Temperature Class (EPL Gb) and Maximum Surface Temperature (EPL Db) Based on ambient temperature													
	40°C		45°C		47°C		50°C		54°C		57°C		60°C	
	EPL Db	EPL Gb	EPL Db	EPL Gb	EPL Db	EPL Gb	EPL Db	EPL Gb	EPL Db	EPL Gb	EPL Db	EPL Gb	EPL Db	EPL Gb
LifEx-M...0310	T62°C	T6	T62°C	T6	T64°C	T6	T67°C	T6	T71°C	T6	T74°C	T6	T77°C	T6
LifEx-M...0315	T62°C	T6	T62°C	T6	T64°C	T6	T67°C	T6	T71°C	T6	T74°C	T6	T77°C	T6
LifEx-M...0615	T62°C	T6	T62°C	T6	T64°C	T6	T67°C	T6	T71°C	T6	T74°C	T6	T77°C	T6
LifEx-M...0630	T85°C	T6	T85°C	T5	T87°C	T5	T90°C	T5	T94°C	T5	T97°C	T4	T100°C	T4
LifEx-M...0645	T88°C	T6	T88°C	T5	T90°C	T5	T93°C	T5	T97°C	T4	T100°C	T4	T103°C	T4
LifEx-M...0660	T100°C	T6	T100°C	T4	T102°C	T4	T105°C	T4	T109°C	T4	T112°C	T4	T115°C	T4
LifEx-M...1230	T65°C	T6	T65°C	T6	T67°C	T6	T70°C	T6	T74°C	T6	T77°C	T6	T80°C	T6
LifEx-M...1260	T85°C	T6	T85°C	T5	T87°C	T5	T90°C	T5	T94°C	T5	T97°C	T4	T100°C	T4
LifEx-M...1290	T94°C	T6	T94°C	T5	T96°C	T4	T99°C	T4	T103°C	T4	T106°C	T4	T109°C	T4
LifEx-M...12120	T96°C	T5	T96°C	T4	T98°C	T4	T101°C	T4	T105°C	T4	T108°C	T4	T111°C	T4
LifEx-M...1590	T94°C	T6	T94°C	T5	T96°C	T4	T99°C	T4	T103°C	T4	T106°C	T4	T109°C	T4

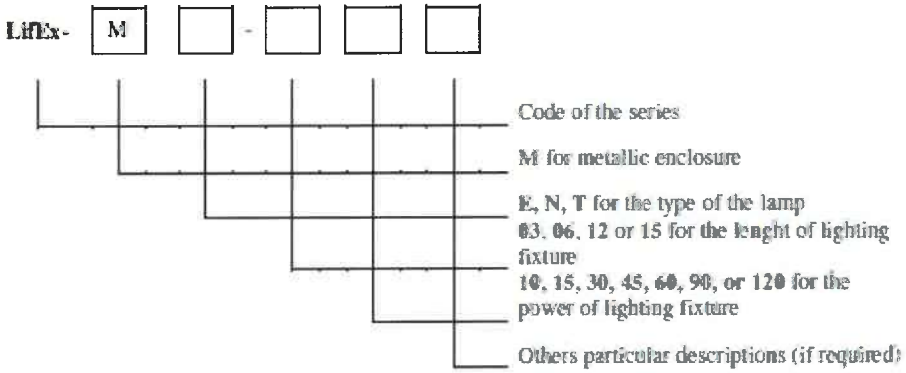
Table 4: Temperature Class (EPL Gb) and Maximum Surface Temperature (EPL Db) for LifEx types with glass/polycarbonate lens and without polycarbonate diffuser

	Maximum Surface Temperature (EPL Db) Based on ambient temperature						
	40°C	45°C	47°C	50°C	54°C	57°C	60°C
LifEx-M...0310	T56°C	T56°C	T58°C	T61°C	T65°C	T68°C	T71°C
LifEx-M...0315	T56°C	T56°C	T58°C	T61°C	T65°C	T68°C	T71°C
LifEx-M...0615	T56°C	T56°C	T58°C	T61°C	T65°C	T68°C	T71°C
LifEx-M...0630	T69°C	T69°C	T71°C	T74°C	T78°C	T81°C	T84°C
LifEx-M...0645	T72°C	T72°C	T74°C	T77°C	T81°C	T84°C	T87°C
LifEx-M...0660	T77°C	T77°C	T79°C	T82°C	T86°C	T89°C	T92°C
LifEx-M...1230	T58°C	T58°C	T60°C	T63°C	T67°C	T70°C	T73°C
LifEx-M...1260	T67°C	T67°C	T69°C	T72°C	T76°C	T79°C	T82°C
LifEx-M...1290	T72°C	T72°C	T74°C	T77°C	T81°C	T84°C	T87°C
LifEx-M...12120	T75°C	T75°C	T77°C	T80°C	T84°C	T87°C	T90°C
LifEx-M...1590	T72°C	T72°C	T74°C	T77°C	T81°C	T84°C	T87°C

Table 5: (Applicable to EPL Db only) Maximum Surface Temperature for LifEx types without glass/polycarbonate lens and with polycarbonate diffuser

The equipment has been separately tested against the requirements of IEC 60529 and it meets IP66. The gaskets on the caps provide the degree of protection.

The equipment uses the following nomenclature:



Variation 1:

This variation has assed the following changes:

i. Addition of an optional new removable cover for "easy installation" (which use the new aluminium extrusion);
ii. Addition of an optional external battery box;
iii. minimum ambient temperature extended to -60°C when Ex mb heater is used;
iv. Additional optional Ex mb EBM LED driver as an alternative to EBL3040 / EBL4040 Ex db series LED drivers;
v. added 30W model for size 300mm (LifEx-M..-0330).

12 Certificate history and evaluation reports

Issue	Date	Associated report	Notes
0	06 May 2020	R13027A/00	Prime Issue
1	01 Jul 2022	R14875A/00	Introduction of Variation 1

Note: Drawings that describe the equipment or component are listed in the Annex.

13 Conditions of Manufacture

The following conditions are required of the manufacturing process for compliance with the certification.

i. Where the product incorporates certified parts or safety critical components the manufacturer shall ensure that any changes to those parts or components do not affect the compliance of the certified product that is the subject of this certificate.
ii. The LifEx series lighting fixtures are to be designed in accordance with general electrical safety standards.
iii. The routine dielectric strength test on the LifEx-ME and LifEx-MN luminaries with applied voltage shall be performed at 2U + 1000V with a minimum value of 1560V (U = maximum rated voltage of the lamp)

iv. A routine visual inspection of the encapsulated parts is required, as per Clause 9.1 of IEC 60079-18. There shall be no visible damage or deformation to the encapsulant.

v. Where the removable battery pack is used with phoenix contacts, if used with a T6 version of the equipment, the maximum ambient shall be limited to +40°C.

14 Specific Conditions of Use (Special Conditions)

The following conditions relate to safe installation and/or use of the equipment.

i. Cable entries are provided which have less than 5 threads engaged. Care must be taken to ensure the correct gaskets and washers are sued with the cable gland to maintain IP66.

ii. The equipment uses an external part that is constructed from non-metallic materials, and as such care is to be taken to prevent an electro-static charging hazard. See instruction manual for details.

iii. For versions with glass window of 4mm thickness without cover, the luminaire must be installed in a location with a low risk of mechanical danger

iv. The temperature at the entry point may reach up to 75°C. Suitably rated cable glands must be used.

Certificate Annex

Certificate Number	**CML 20ATEX3018X**
Equipment	**LifEx-ME, LifEx-MN and LifEx-MT series of linear lighting fixtures**
Manufacturer	**Cortem S.p.A.**

The following documents describe the equipment or component defined in this certificate:

Issue 0

Drawing No	Sheets	Rev	Approved date	Title
A3-7466	1 to 6	0	06 May 2020	LifEx-M Luminaires
A4-7467	1 to 6	0	06 May 2020	Technical Note

Issue 1

Drawing No.	Sheets	Rev	Approved date	Title
A3-7466	1 of 6	1	01 Jul 2022	LifEx-M Luminaires Assembly and External Dimensions
A3-7466	2 of 6	1	01 Jul 2022	LifEx-M Luminaires Detail of sealing and op is protection
A3-7466	3 of 6	1	01 Jul 2022	LifEx-M Luminaires Detail of driver and inverter for LifEx-ME version
A3-7466	4 of 6	1	01 Jul 2022	LifEx-M Luminaires Circuit diagram for LifeEx-ME version
A3-7466	5 of 6	1	01 Jul 2022	LifEx-M Luminaires Circuit diagram LifEx-MN and LifEx-MT version
A3-7466	6 of 6	1	01 Jul 2022	LifEx-M Luminaires Detail of battery pack
A3-7729	1 to 3	0	01 Jul 2022	Battery heater for -60°C /-40°C applications Assembly and External Dimensions
A4-7727	1 to 8	0	01 Jul 2022	Technical Note

ITEM	Tag	ELF-200N1-02-L1-12 : NORMAL LIGHT		Dwg	123A90-DDL-EL-DL-20118
	S/Sys	83-40 : Normal Lighting Upper Deck		Module	UD
TASK	code	C10001667	Location: Onshore Activities	User	Rosetti Marino Quality Control
FORM	Process	MC	Activity: CCK / Discipline: ATEX / Form: CJX01		Hazardous Area Equipment Detailed Inspection

Schedule Ref. #				**Area Code**					
Area Class Drawing	123A90-DDL-SAF-DL-30022			**Serial No.**	24/86772				
Manufacturer	Cortem Spa			**Model**	LIFEX-ME-0645-BB				
Cert No.	CML 20 ATEX 3018X			**Equipment Ambient Temp.**	-60°C to +60°C				
Area Classification	hazardous	**Zone**	2	**Gas group**	IIC	**Temp class**	T1		
Equipment Protection Type	Ex db	**EPL**	Gb	**Gas group**	IIC	**Temp class**	T4	**IP Rating**	IP66

Detailed Note:

1) Inspection shall only be performed by competent personnel

2) All fields are to be completed. Any non-applicable field shall state “NA”. Comments are required for ‘Failure’ column ONLY.

3) An Inspection Sheet should be completed for EACH individual item of Equipment.

	General Equipment	Detailed	OK/NA/PL	Comments
1	Equipment is appropriate to the EPL / Zone requirements of the area	x	OK	
2	Equipment group is correct	x	OK	
3	Equipment temperature class is correct	x	OK	
4	Degree of IP protection of equipment is appropriate for the level of protection	x	OK	
5	Equipment circuit identification is correct	x	PL	
6	Equipment circuit identification is available	x	NA	
7	Enclosure glass parts and glass-to-metal sealing gaskets and / or compounds are satisfactory	x	OK	
8	There is no damage or unauthorized modifications	x	OK	
9	There is no evidence of unauthorized modifications	x	OK	
10	Bolts, cable entry devices (direct and indirect) & blanking elements are of the correct type, are complete & tight		NA	
	Physical check	x	PL	
11	Threaded covers on enclosures are of the correct type, are tight and secured		NA	
	Physical check	x	NA	
12	Joint surfaces are clean and undamaged and gaskets, if any, are satisfactory and positioned correctly	x	OK	
13	Condition of enclosure gaskets is satisfactory	x	OK	
14	There is no evidence or ingress of water or dust in the enclosure in accordance with the IP rating	x	OK	
15	Electrical connections are tight	x	OK	
16	Bridging links do not reduce creepage / clearance and are allowed	x	OK	
17	Unused terminals are tightened	x	OK	
18	Encapsulated components are undamaged	x	NA	
19	Flameproof components are undamaged	x	NA	
20	Fluorescent lamps are not indicating EOL effects (only for Ex “e” – Ex “n” – Ex “t”)	x	NA	
21	HID lamps are not indicating EOL effects	x	NA	
22	Lamp type, rating, pin configuration and position are correct	x	NA	
23	Breathing and drainage devices are satisfactory	x	OK	
24	Type of cable is appropriate	x	OK	
25	There is no obvious damage to the cables	x	OK	
26	Cable glands are the correct type and installed correctly	x	OK	
27	Sealing of trunking, ducts, pipes and or conduits is satisfactory	x	NA	
28	Stopping boxes and cable boxes are corrected filled	x	OK	

ITEM	Tag	ELF-200N1-02-L1-12	: NORMAL LIGHT			Dwg	123A90-DDL-EL-DL-20118
	S/Sys	83-40	: Normal Lighting Upper Deck			Module	UD
TASK	code	C10001667		Location	Onshore Activities	User	Rosetti Marino Quality Control
FORM	Process	MC	Activity CCK	Discipline	ATEX	Form	CJX01 Hazardous Area Equipment Detailed Inspection

29	Integrity of conduit system and interface with mixed system maintained	x	NA	
30	Earthing connections, including any supplementary earthing bonding connections are satisfactory (for example connections are tight and conductors are of sufficient cross-section		NA	
	Physical check	x	PL	
31	Automated electric protective devices operate within permitted limits	x	NA	
32	Special conditions (if applicable) have been complied with.	x	OK	
33	All cable cores are uniquely labeled	x	OK	
34	Cable cores not in use are correctly terminated	x	NA	
35	Equipment is adequately protected against corrosion, weather, vibration and other adverse factors	x	OK	
36	No undue accumulation of dust and dirt	x	OK	
37	All equipment housings are clean and dry	x	OK	
38	All moving parts are free and have no mechanical damage	x	NA	
	Applicable for Installation of Heating Systems			
39	Temperature sensors function according to manufacturer's documents (only applicable for Ex-d e Ex-e)	x	NA	
40	Safety cut off devices function according to manufacturer's documents (only applicable for Ex-d e Ex-e)	x	NA	
41	The setting of the safety cut off is sealed (only applicable for Ex-d e Ex-e)	x	NA	
42	Reset of a heating system safety cut off possible with tool only(only applicable for Ex-d e Ex-e)	x	NA	
43	Auto-reset is not possible (only applicable for Ex-d e Ex-e)	x	NA	
44	Reset of a safety cut off under fault conditions is prevented (only applicable for Ex-d e Ex-e)	x	NA	
45	Safety cut off independent from control system (only applicable for Ex-d e Ex-e)	x	NA	
46	Level switch is installed and correctly set, if required (only applicable for Ex-d e Ex-e)	x	NA	
47	Flow switch is installed and correctly set, if required (only applicable for Ex-d e Ex-e)	x	NA	
	Extra Ex d checks			
48	Obstructions adjacent to flame proof flanged joints are in accordance with IEC 60079-14	x	NA	
49	Ex d conduits seals are fitted to all conduits and satisfactorily sealed	x	NA	
50	Cable glands are of the correct type and installed correctly	x	OK	
51	Adaptors, reducers, stop ends, etc. are all certified Ex d	x	OK	
52	Flame path are clean and undamaged	x	OK	
53	Flange gap dimensions are within tolerances	x	NA	
54	Motor fans have sufficient clearance to the enclosure and/or covers, cooling systems are undamaged, motor foundations have no indentations or cracks	x	NA	
55	The ventilation airflow is not impeded	x	NA	
56	Insulation resistance (IR) of the motor windings is satisfactory	x	NA	
57	Fault loop impedance (TN systems) or earthing resistance (IT systems) is satisfactory	x	NA	
58	Variable voltage/frequency installation complies with documentation	x	NA	
	Extra Ex e checks			
59	All Equipment is Ex e certified (including components within enclosure)	x	NA	
60	Power conductors are not bunched together causing possible hot spots	x	NA	
61	Motor fans have sufficient clearance to the enclosure and/or covers, cooling systems are undamaged, motor foundations have no indentations or cracks	x	NA	
62	Insulation resistance (IR) of the motor windings is satisfactory	x	NA	
63	Fault loop impedance (TN systems) or earthing resistance (IT systems) is satisfactory	x	NA	
64	The ventilation airflow is not impeded	x	NA	
65	Motor protection devices operate within the permitted tE or tA time limits.	x	NA	
66	Variable voltage/frequency installation complies with documentation	x	NA	

ITEM	Tag	ELF-200N1-02-L1-12	: NORMAL LIGHT			Dwg	123A90-DDL-EL-DL-20118
	S/Sys	83-40	: Normal Lighting Upper Deck			Module	UD
TASK	code	C10001667		Location	Onshore Activities	User	Rosetti Marino Quality Control
FORM	Process	MC	Activity CCK	Discipline	ATEX	Form	CJX01
							Hazardous Area Equipment Detailed Inspection

Extra Ex n (nR, nL) checks				
67	All Terminals are Ex n certified (if required on certificate)	x	NA	
68	Hermetically sealed and enclosed break devices are undamaged	x	NA	
69	Restricted breathing properties satisfactory (conduct vacuum test)	x	NA	
70	Test port, if fitted, is functional (type “nR” only)	x	NA	
71	Breathing operation is satisfactory (type “nR” only)	x	NA	
72	Motor fans have sufficient clearance to the enclosure and/or covers, cooling systems are	x	NA	
73	The ventilation airflow is not impeded	x	NA	
74	Insulation resistance (IR) of the motor windings is satisfactory	x	NA	
75	Motor protection devices operate within the permitted tE or tA time limits.	x	NA	
76	Variable voltage/frequency installation complies with documentation	x	NA	
Extra Ex p checks				
77	Pressurization gas is correct type	x	NA	
78	Actual pressure is within maximum and minimum settings for equipment	x	NA	
79	Timers set as per certification documentation	x	NA	
80	Alarms and trip functions operate correctly as per certification documentation	x	NA	
81	Fault loop impedance (TN systems) or earthing resistance (IT systems) is satisfactory	x	NA	
82	Automatic electrical protective devices operate within permitted limits	x	NA	
83	Automatic electrical protective devices are set correctly	x	NA	
84	Protective gas inlet temperature is below maximum specified	x	NA	
85	Ducts, pipes and enclosures are in good condition	x	NA	
86	Protective gas is substantially free from contaminants	x	NA	
87	Protective gas pressure and/or flow is adequate	x	NA	
88	Pressure and/or flow indicators, alarms and interlocks function correctly	x	NA	
89	Conditions of spark and particle barriers of ducts for exhausting the gas in hazardous area are satisfactory	x	NA	
90	Specific conditions of use (if applicable) are complied with		NA	
Extra Ex i (Intrinsically Safe – IS) checks				
91	Equipment has adequate circuit identification for ‘IS’ Installation	x	NA	
92	Cables are installed in accordance with the documentation	x	NA	
93	Segregation is maintained between IS and non-IS Circuits	x	NA	
94	Cable screens are isolated at one end (field side)	x	NA	
95	Cable screens are earthed in accordance with the documentation	x	NA	
96	Safety barrier units, relays and other energy limiting devices are of the approved type, installed in	x	NA	
97	Equipment installed is the one specified in the documentation	x	NA	
98	Ambient temperature range of the apparatus is correct for the installation	x	NA	
99	Service temperature range of the apparatus is correct for the installation	x	NA	
100	Installation is clearly labelled	x	NA	
101	Printed circuit boards are clean and undamaged	x	NA	
102	The maximum voltage Um of the associated apparatus is not exceeded	x	NA	
103	Point-to-point connections are all correct	x	NA	
104	Earth continuity is satisfactory (e.g. connections are tight, conductors are of sufficient cross-section)	x	NA	
105	Earth connections maintain the integrity of the type of protection	x	NA	
106	Intrinsically safe circuit earthing is satisfactory	x	NA	
107	Insulation resistance is satisfactory	x	NA	
108	Short-circuit protection of the power supply is in accordance with the documentation	x	NA	

	BARRIER:	**Manufacturer:**	NA	**Model:**	NA		
		Authority:	NA	**Cert No:**	NA	**Type:**	NA

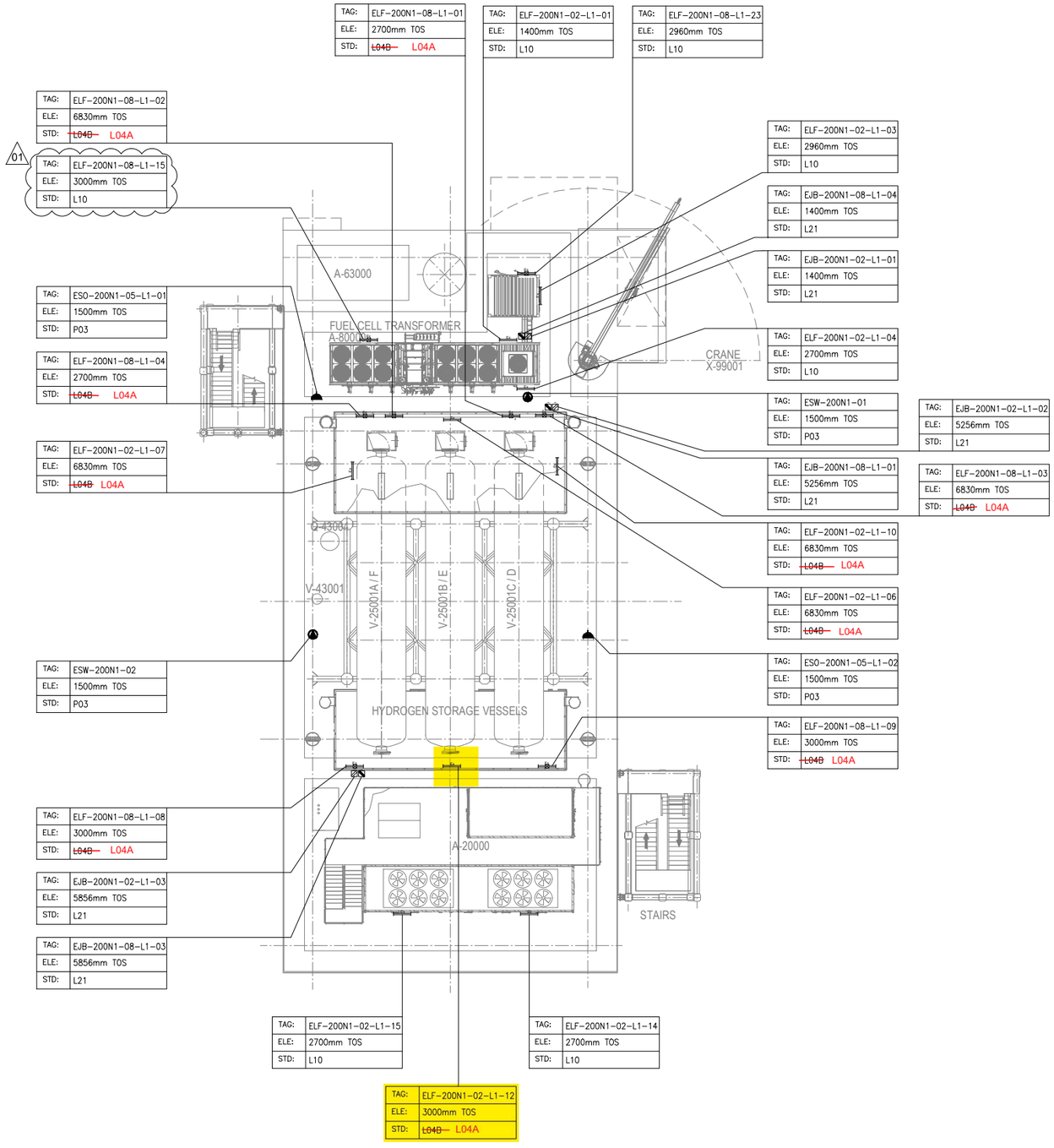
Remarks: Initial inspection should be detailed and carried out before equipment is brought into service as per IEC 60079-17

Please mark only one box as appropriate	
●	**Passed - Complete**
	Failed

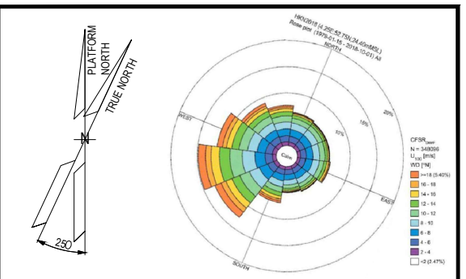
Page 3/3	Performed by	☐ WITNESS ☐ REVIEW	☐ WITNESS ☐ REVIEW
Company	ICS IMPIANTI	RM (ROSETTI MARINO)	
Name	Francesco Zucca	Andrea Andreani	
Date	2024-12-11	2025-01-16	
Signature	PROVERLIS Digitaly signed by Francesco Zucca 2024-12-11T15:25:45.597Z	PROVERLIS Digitaly signed by Andrea Andreani 2025-01-16T08:27:57.996Z	

DRAWING NO. 123A90-DDL-EL-DL-20118

REV. 01



PLAN ON UPPER DECK
EL+30.310 T.O.S.



NOTES

1. ALL DIMENSIONS AND ELEVATIONS ARE GIVEN IN mm UNLESS OTHERWISE NOTED.
2. ELEVATIONS REFER TO T.O.S.
3. ELEVATION OF THE LAMPS ARE REFFERED TO THE BOTTOM OF THE LAMP.
4. FOR THE ELEVATION OF JB, REFER TO THE TYPICAL INSTALLATION.

LEGEND

- EMERGENCY LIGHTING JB
- 60W LED EMERGENCY LUMINARIES
- 60W LED EMERGENCY LUMINARIES FIXTURE POLE MOUNTED
- NORMAL LIGHTING JB
- 45W LED NORMAL LUMINARIES
- 45W LED NORMAL LUMINARIES FIXTURE POLE MOUNTED
- WELDING SOCKET WITH INTEGRATED JB
- SMALL POWER SOCKET WITH INTEGRATED JB

JB TAG:	JB-TAG
TAG:	TAG
ELE:	ELEVATION
STD:	STANDARD

REFERENCE DOCUMENTS

123A90-DDL-PP-DL-70070	PLOT PLAN - LOWER & UPPER DECK
123A90-DDL-EL-DL-20100	ELECTRICAL EQUIPMENT LAYOUT - TOP DECK
123A90-DDL-EL-DD-20091	ELECTRICAL TYPICAL INSTALLATION DETAILS - LIGHTING SYSTEM
123A90-DDL-EL-DD-20092	ELECTRICAL TYPICAL INSTALLATION DETAILS - POWER SYSTEM & CABLE INSTALLATION
123A90-DDL-EL-RE-20153	LIGHTING CALCULATION STUDY REPORT
123A90-DDL-ST-DD-90076	IDENTIFICATION PANELS ASSEMBLY AND DETAILS

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	02/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	28/05/24	ASR	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DL-20118**

REV.:	DATE:	SIGNATURE:
1_F	26/11/24	G.Randi

ROSETTI MARINO SpA

CROSSWIND

ROSETTI MARINO

TITLE :
BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET LAYOUT – TOP DECK

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK			SCALE 1:150
DRAWN ASR	CHECKED FMA/AMA	APPROVED FPA/DLO	DATE 01/08/24
A1	DRAWING NO. 123A90-DDL-EL-DL-20118	SHEET 2of2	REV. 01

File Name : 123A90-DDL-EL-DL-20118

LIGHTING & SMALL POWER DB BoP - DP-200N1

TOP DECK NORMAL LIGHTING

Q02 KL2 P-EJB-200N1-02-L1-01 3G4

EJB-200N1-02-L1-01 Ex

P-EJB-200N1-02-L1-19 3G4 Arm.

P-EJB-200N1-02-L1-02 3G4 Arm.

P-ELF-200N1-02-L1-03 3G2.5 Arm. → ELF-200N1-02-L1-03

P-ELF-200N1-02-L1-04 3G2.5 Arm. → ELF-200N1-02-L1-04

P-ELF-200N1-02-L1-01 3G2.5 Arm. → ELF-200N1-02-L1-01

TYPE: L21N1

EJB-200N1-02-L1-02 Ex TYPE: L21N1

EJB-200N1-02-L1-05

P-EJB-200N1-02-L1-05 3G4 Arm.

P-ELF-200N1-02-L1-06 ~~3G2.5 Arm.~~ 3G4 Arm. → ELF-200N1-02-L1-06

P-ELF-200N1-02-L1-07 3G2.5 Arm. → ELF-200N1-02-L1-07

P-ELF-200N1-02-L1-05 3G2.5 Arm. → ELF-200N1-02-L1-05

EJB-200N1-02-L1-03 Ex TYPE: L21N1

P-EJB-200N1-02-L1-07 3G4 Arm.

EJB-200N1-02-L1-07 Ex TYPE: L21N1

EJB-200N1-02-L1-06 Ex TYPE: L21N1

P-EJB-200N1-02-L1-06 3G4 Arm.

P-ELF-200N1-02-L1-10 3G2.5 Arm. → ELF-200N1-02-L1-10

P-ELF-200N1-02-L1-09 3G2.5 Arm. → ELF-200N1-02-L1-09

P-ELF-200N1-02-L1-08 3G2.5 Arm. → ELF-200N1-02-L1-08

EJB-200N1-02-L1-03 Ex TYPE: L21N1

P-EJB-200N1-02-L1-08 3G4 Arm.

EJB-200N1-02-L1-08 Ex TYPE: L21N1

P-EJB-200N1-02-L1-09 3G4 Arm.

EJB-200N1-02-L1-09 Ex TYPE: L21N1

P-ELF-200N1-02-L1-12 3G2.5 Arm. → ELF-200N1-02-L1-12

P-ELF-200N1-02-L1-11 3G2.5 Arm. → ELF-200N1-02-L1-11

P-ELF-200N1-02-L1-13 3G2.5 Arm. → ELF-200N1-02-L1-13

P-EJB-200N1-02-L1-13 3G4 Arm.

P-ELF-200N1-02-L1-14 3G2.5 Arm. → ~~ELF-200N1-02-L1-14~~

P-ELF-200N1-02-L1-15 3G2.5 Arm. → ~~ELF-200N1-02-L1-15~~

EJB-200N1-02-L1-13 Ex TYPE: L21N1

P-ELF-200N1-02-L1-19 3G2.5 Arm. → ELF-200N1-02-L1-19

P-EJB-200N1-02-L1-14 3G4 Arm.

EJB-200N1-02-L1-14 Ex TYPE: L21N1

P-ELF-200N1-02-L1-20 3G2.5 Arm. → ELF-200N1-02-L1-20

P-EJB-200N1-02-L1-20 3G4 Arm.

EJB-200N1-02-L1-20 Ex TYPE: L21N1

P-ELF-200N1-02-L1-02 3G2.5 Arm. → ELF-200N1-02-L1-02

P-EJB-200N1-02-L1-15 3G4 Arm.

EJB-200N1-02-L1-15 Ex TYPE: L21N1

P-ELF-200N1-02-L1-21 3G2.5 Arm. → ELF-200N1-02-L1-21

P-EJB-200N1-02-L1-16 3G4 Arm.

EJB-200N1-02-L1-16 Ex TYPE: L21N1

P-ELF-200N1-02-L1-22 3G2.5 Arm. → ELF-200N1-02-L1-22

P-EJB-200N1-02-L1-12 3G4 Arm.

EJB-200N1-02-L1-12 Ex TYPE: L21N1

P-ELF-200N1-02-L1-18 3G2.5 Arm. → ELF-200N1-02-L1-18

P-EJB-200N1-02-L1-11 3G4 Arm.

EJB-200N1-02-L1-11 Ex TYPE: L21N1

P-ELF-200N1-02-L1-17 3G2.5 Arm. → ELF-200N1-02-L1-17

EJB-200N1-02-L1-19 Ex TYPE: L21N1

P-EJB-200N1-02-L1-10 3G4 Arm.

EJB-200N1-02-L1-10 Ex TYPE: L21N1

P-ELF-200N1-02-L1-25 3G2.5 Arm. → ELF-200N1-02-L1-25

P-EJB-200N1-02-L1-18 3G4 Arm.

P-ELF-200N1-02-L1-16 3G2.5 Arm. → ELF-200N1-02-L1-16

EJB-200N1-02-L1-18 Ex TYPE: L21N1

P-EJB-200N1-02-L1-17 3G4 Arm.

EJB-200N1-02-L1-17 Ex TYPE: L21N1

P-ELF-200N1-02-L1-24 3G2.5 Arm. → ELF-200N1-02-L1-24

P-ELF-200N1-02-L1-23 3G2.5 Arm. → ELF-200N1-02-L1-23

VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DG-20152**

REV.:	DATE:	SIGNATURE:
2_F	14/01/25	G.Randi

ROSETTI MARINO SpA

CROSSWIND

ROSETTI MARINO

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	08/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	01/07/24	ASR	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

TITLE : BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET CIRCUIT DIAGRAM
TOP DECK–NORMAL LIGHTING

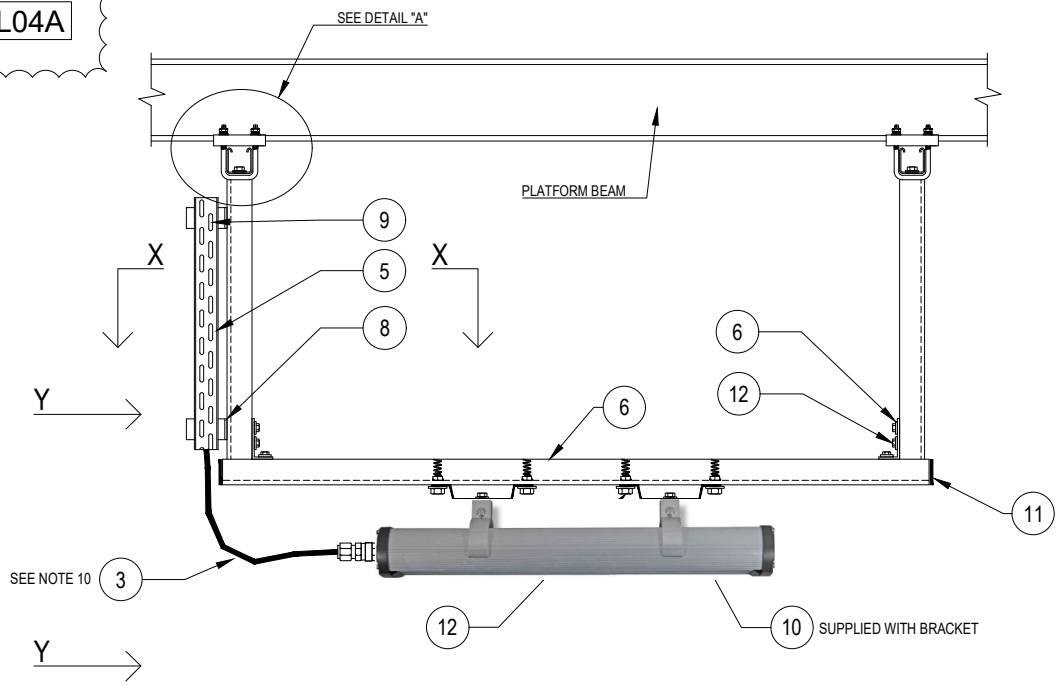
CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK | SCALE : NTS

A3 | DRAWING NO. 123A90–DDL–EL–DG–20125 | SHEET 010 | REV. 01

F.to UNI A3: 420mmx297mm

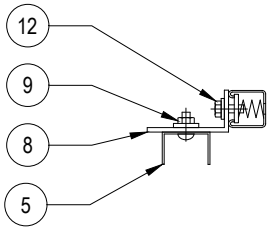
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L04A

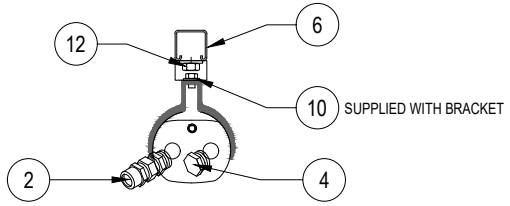


POS.	DESCRIPTION	MATERIAL	SIZE	Q.TY	NOTE
1	LIGHITNG FIXTURE (Ex e) WITH LED LAMP	ALUMINIUM ALLOY		1	
2	CABLE GLAND (Ex) FOR ARMOURED/UNARMOURED CABLE	NICK.PL.BRASS		1	NOTE 2 NOTE 5
3	ARMOURED/UNARMOURED CABLE				NOTE 5
4	PLUG	NICK.PL.BRASS		AS REQ.	NOTE 3
5	CABLE LADDER OR PERFORATED TRAY	AISI 316L		AS REQ.	
6	SINGLE U-CHANNEL PERFORATED ON NO. 3 SIDE	AISI 316L	41x41x2	AS REQ.	
7	SINGLE U-CHANNEL BEAM ATTACHMENT (10-14) OR (15-19) WITH COLLAR COMPLETE WITH HARDWARE	AISI 316L		2	NOTE 4
8	PLATE FOR ORTHOGONAL-TRASVERSAL CONNECTION (3 HOLES)	LPDE		4	
9	ROUND HEAD SCREW WITH SQUARE NECK COMPLETE WITH PLANE WASHER, SPRING WASHER AND NUT	AISI 316L			
10	HEX. BOLT M8X16 WITH LARGE PLANE WASHER	AISI 316L		2	
11	PLUG FOR U-CHANNEL	LPDE		2	
12	HEX. BOLT M10X30 WITH PLANE WASHER, NUT FOR U-CHANNEL AND SPRING	AISI 316L		2	

SECTION "X-X"

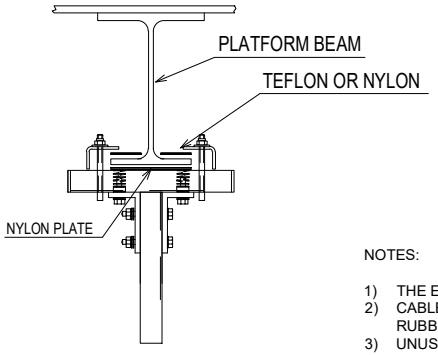


SECTION "Y-Y"

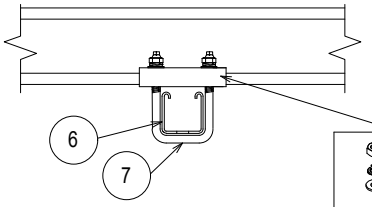


lighting fixture
Cortem LIFEX

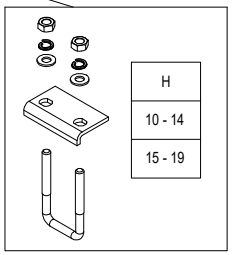
02



DETAIL "A"



VIEW "A"



NOTES:

1) THE EXACT DIMENSIONS WILL BE DEFINED DURING ASSEMBLY PHASE.
2) CABLE GLAND COMPLETE WITH LOCKNUT, NYLON WASHER, SERRATED WASHER, EXTERNAL RUBBER RING AND EARTH TAG (IF NECESSARY).
3) UNUSED CABLE ENTRIES MUST BE CLOSED WITH NICKEL PLATED BRASS PLUG.
4) SINGLE U-CHANNEL BEAM ATTACHMENT (CLAMP) IS PRODUCED IN NO. 2 DIFFERENT SIZES (10-14 OR 15-19) SIZE REFERS TO THE THICKNESS OF THE BEAM WHERE THE CLAMP IS INSTALLED.
5) FOR LAMPS IN HAZARDOUS AREA, USE ARMOURED CABLE, DOUBLE SEAL CABLE GLAND AND EX JUNCTION BOX.

VALID FOR CONSTRUCTION

REV.:	DATE:	SIGNATURE:
2_B	12/12/24	C.Pilato

ROSETTI MARINO SpA

CROSSWIND

ROSETTI MARINO

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	30/09/24	GRA	AMA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	04/07/24	NLK	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	21/11/23	SPS	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL TYPICAL INSTALLATION DETAILS–LIGHTING SYSTEM
FIXTURE SUSPENSION MOUNTED WITH U–CHANNEL SUPP.

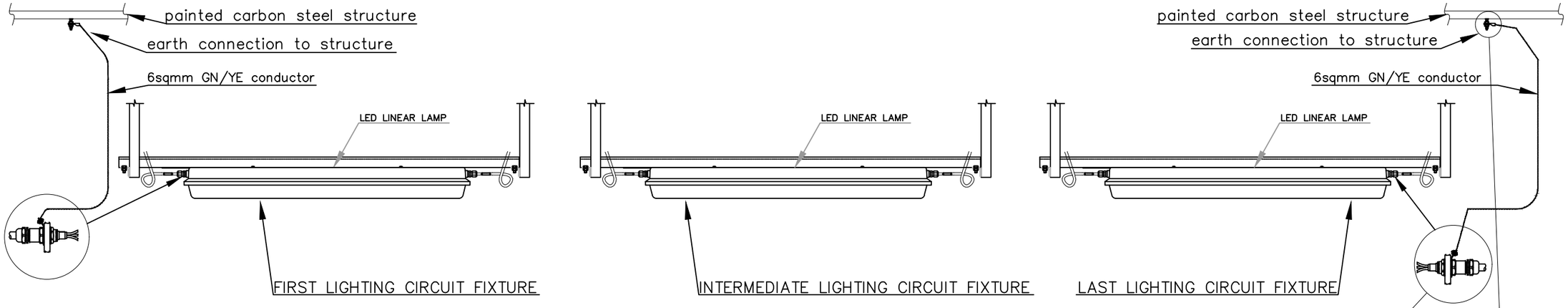
CONTRACT NO./TITLE CW–I–WP4–2023–05/HOLLANDSE KUST NOORD WIND PARK | SCALE : NTS

A3 | DRAWING NO. 123A90–DDL–EL–DD–20091 | SHEET 006 | REV. 02

F.to UNI A3: 420mmx297mm

File Name : 123A90-DDL-EL-DD-20091 REV.02.DWG

E32

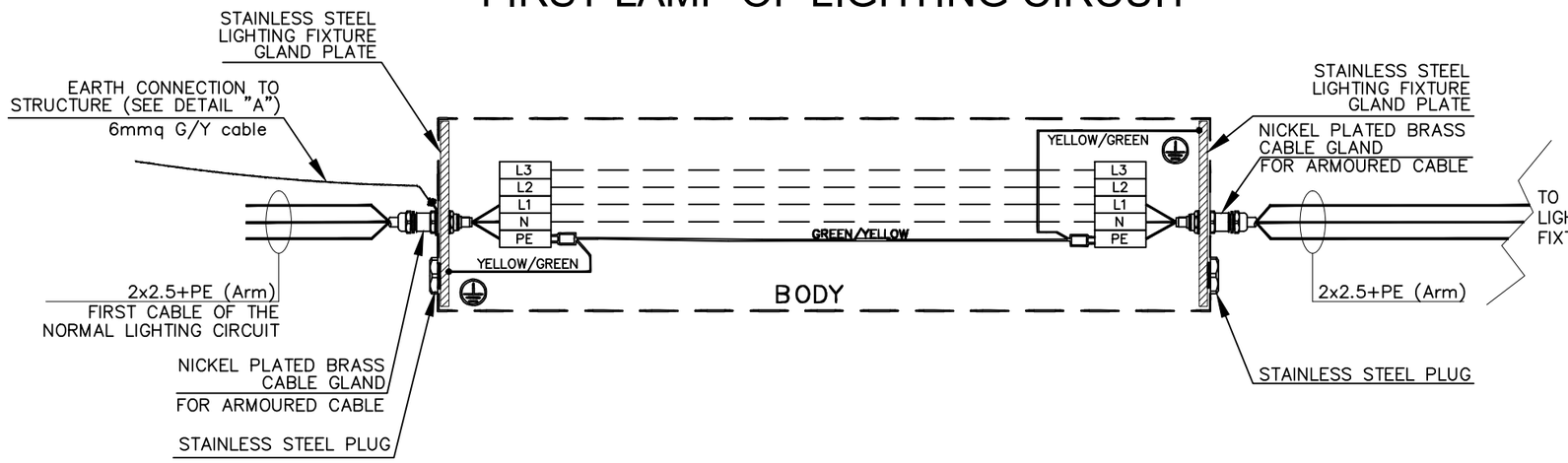


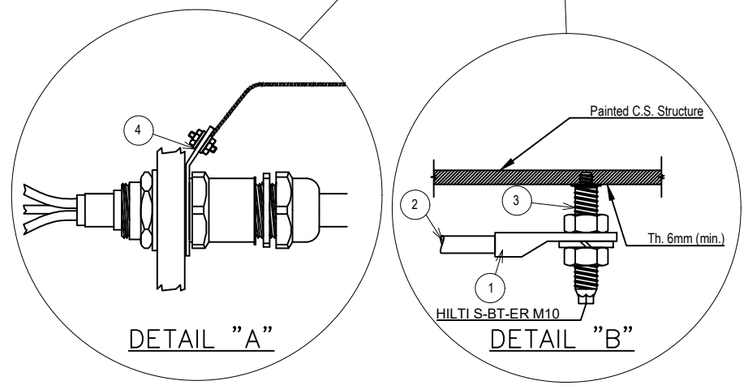
ONLY the first and the last lighting fixture of all circuits are connected to earthing system. The earthing continuity of the intermediate lighting fixtures of the circuits is guaranteed by the using of the first and the last lighting fixture earthing connection which is permanently connected to the earthing system as per the typical below.

Refer also to TYP. "E05" for Lighting Fixtures.

NORMAL LIGHTING CIRCUIT EARTHING CONTINUITY TYPICAL

FIRST LAMP OF LIGHTING CIRCUIT





POS.	DESCRIPTION	MATERIAL	SIZE	Q.TY	NOTE
1	COMPRESSION TYPE LUG FOR INSULATION COPPER CONDUCTOR	TINNED COPPER			
2	Y/G INSULATING COPPER CONDUCTOR		6sqmm	ASR	
3	HILTI S-BT-ER M10/15 SN6 C/W NUTS AND GROWER	AISI 316L	M10X28		NOTE 1
4	CABLE GLAND EARTH TAG	NPB	M20		

The same logic is used for the earthing continuity of Emergency Lighting Circuits. The above typical has been done to represent the Earthing Continuity of G/Y conductors, the correct connections of all conductors in the respective Terminal Strips are shown in doc. AR-FEN-10-ROEC-600132 Lighting and Socket Circuit Diagrams.

NOTES:
1) HILTI S-BT-ER M10/15 SN6 CERTIFIED FOR EARTHING SYSTEM FOR SINGLE EQUIPMENTS EARTHING CONNECTION.

VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DD-20090**

REV.:	DATE:	SIGNATURE:
2_H	05/11/24	G.Randi

ROSETTI MARINO SpA

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	26/08/24	GRA	AMA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	10/06/24	SPS	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	21/11/23	SPS	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL TYPICAL INSTALLATION DETAILS–EARTHING SYSTEM
EARTHING – OUTDOOR LINEAR LIGHTING FIXTURE

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK | SCALE : NTS

A3 | DRAWING NO. 123A90-DDL-EL-DD-20090 | SHEET 023 | REV. 02

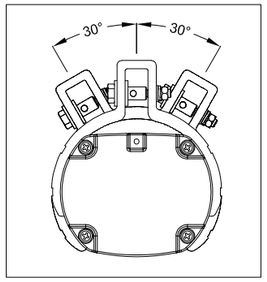
F.to UNI A3: 420mmx297mm

File Name : 123A90-DDL-EL-DD-20090 REV.02.DWG

MODEL C-225 REV.1

GENERAL NOTE:
- PO: 1724001290 DD 26/06/2024
- ITEM.: 1
- Q.TY: 57
- EXTERNAL PAINTING: RAL 7022 (END CAPS)
- INTERNAL PAINTING: NOT PAINTED
- ALL DIMENSIONS ARE IN mm

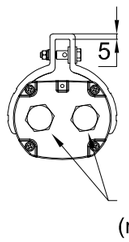
STANDARD FIXING BRACKET
FASTENING WITH 2 THREADED M8
HOLES, ADJUSTABLE FROM 0° TO ±30°



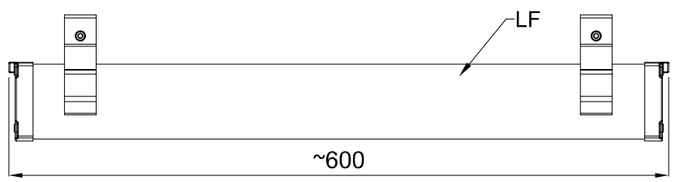
LF INFORMATION	
NOMINAL POWER	45W
CONSUMED POWER	43,5W
POWER FACTOR	>0,93
RATED CURRENT	200 mA
VIEWING ANGLE	120°
COLOUR TEMP.	5000 K
CRI	>80
INSTANT RESTRIKE	YES
LUMEN	6200 lm
LIGHT INTENSITY	2248 cd
EFFICIENCY	143 lm/W
WEIGHT	2,5 Kg
IP PROTECTION	IP66

N°	Q.TY	CODE	DESCRIPTION
LF	1	LIFEX-ME-0645-BB	110-277Vac 50-60Hz 45W LED LINEAR LIGHTING FIXTURE BODY: ALUMINUM ALLOY EXTRUSION AND ALUMINUM END CAPS TRANSPARENT PART: GLASS RESISTANT TO SHOCKS, UV RAYS AND IMPACT RESISTANCE IK09 GASKETS: ACID AND HYDROCARBON RESISTANT SILICONE ASSEMBLY: FASTENING BRACKETS FOR M8 HOLES, ADJUSTABLE 0° TO ±30° MADE IN ANODIZED ALUMINUM CONNECTION: TERMINAL BLOCK ON SIDE (IN) L, N, PE CROSS SEC. MAX. 4mmq SUITABLE FOR LOOP-IN LOOP-OUT SCREWS, BOLTS AND NUTS: STAINLESS STEEL 304
PG1	4	PLG1IB +DL1IB +RDI1IS/A4	IP66 Ex db IIC Gb - Ex eb IIC Gb NICKEL PLATED BRASS PLUG ISO M20x1,5 WITH RELEVANT LOCKNUT AND SERRATED WASHER MADE IN STAINLESS STEEL

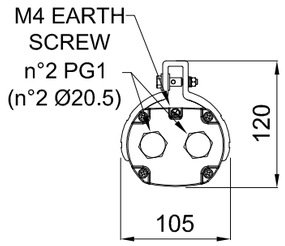
LEFT SIDE (OUT)



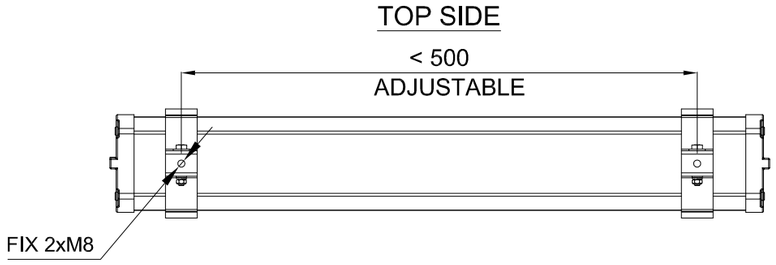
FRONT SIDE



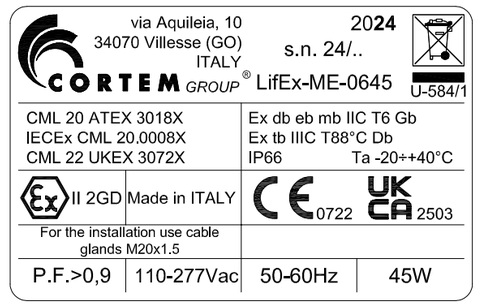
RIGHT SIDE (IN)



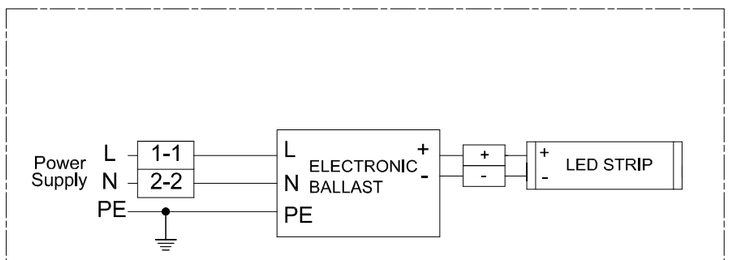
TOP SIDE



CERTIFICATE NAMEPLATE



WIRING DIAGRAM



REV.	DATE	PREP'D	CHK'D	APP'D	DESCRIPTION
2	09/07/2024	FRATTARUOLO	GIUSTI	GRATTON	REISSUED FOR APPROVAL
1	05/07/2024	FRATTARUOLO	GIUSTI	GRATTON	REISSUED FOR APPROVAL
0	28/06/2024	FRATTARUOLO	GIUSTI	GRATTON	ISSUED FOR APPROVAL

DRAWING TITLE: ROSETTI MARINO S.P.A.

CORTEM S.p.a.
GENERAL LAYOUT
001 LIFEX-ME-0645-BB/C2402693/10.

CORTEM JOB: COV2402693
DRAWING SCALE: /
DRAWING NUMBER: A3-C 27521
SHEET: 1
NEXT: 2
TOT.: 2

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Smart Professional R. 2012

Row	Data Sheet for Lighting Fixtures & Accessories				Rev.
1	42W LED Linear Luminaire-Normal Lighting-ATEX Area				
2	Item	Required	Manufacturer Proposal	Comments	
3	Model Number	by vendor	LIFEX-ME-0645-BB		01
4	Serial Number	by vendor			00
5	Quantity	28 Nos.		(25+3 Spare)	01
6	Location / Module	Upper deck			00
7	**LED Lamp**				
8	Nominal power	42 watts	45 watts		01
9	No. of linear	1	1		01
10	Luminous flux	5810 lm	6200 lm		01
11	Colour Temperature	5000 K	5000 K		01
12	**Protection**				
13	Hazardous Area Certification (Ex)	Zone 1 Gas Group IIC (or) IIB + H2, T1	Ex II 2GD Ex db eb mb IIC Gb Ex tb IIIC Db		01
14	Degree of Protection (IP)	IP 56	IP 66		01
15	ATEX certified	Classification EX db	ATEX CML 20 ATEX 3018X		01
16	**Material**				
17	Body	GRP/Aluminium alloy	Aluminium alloy		01
18	Reflector	GRP/Aluminium	Aluminium		01
19	Diffuser	Polycarbonate/temperate glass	Tempered glass		01
20	**Cable Entry**				
21	No. of cable entry	4 Nos.	4 Entries, 2 per side		01
22	Size	M20	Ø20.5mm		01
23	**Emergency Battery Pack**				
24	Requirement	Not required			00
25	Battery type	Not required			00
26	Autonomy	Not required			00
27	Emergency luminous flux	Not required			00
28	**Mechanical parameters**				
29	Dimension	by vendor	600x105x120(mm)		01
30	Weight	by vendor	2.5kg		01

Note:

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Its distribution is electronically controlled. Once printed shall be considered as "NOT CONTROLLED" copy

Tag Number	Tag Description	Location	P.O.	Vendor	Manufacturer	Serial Number	Model Type Catalogue Number	Installation Zone	ATEX Certificate Number	Reference Document	ATEX Certification Marking	Notes / Comments	Skid / Package	Electrical Equip.	Barrier Calculation Ref.	Special Conditions of Safe Use Applicable	3D Location
EJB-200N1-08-L1-07	Emergency Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990079	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-08-L1-08	Emergency Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990081	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-08-L1-09	Emergency Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990080	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-08-L1-10	Emergency Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990075	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-08-L1-11	Emergency Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990074	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-08-L1-12	Emergency Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990073	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-08-L1-14	Emergency Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990071	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-08-L1-15	Emergency Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990070	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-08-L1-16	Emergency Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990069	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-08-L1-17	Emergency Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990068	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-08-L1-18	Emergency Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990067	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-08-L1-19	Emergency Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990066	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-08-L1-20	Emergency Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990076	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-09-L2-01	Emergency Lighting JB	LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990016	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-09-L2-02	Emergency Lighting JB	LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990019	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-09-L2-04	Emergency Lighting JB	LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990017	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-09-L2-05	Emergency Lighting JB	LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990030	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-09-L2-06	Emergency Lighting JB	LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990029	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-09-L2-07	Emergency Lighting JB	LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990028	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-09-L2-08	Emergency Lighting JB	LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990027	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
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EJB-200N1-09-L2-10	Emergency Lighting JB	LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990025	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-09-L2-11	Emergency Lighting JB	LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990024	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-09-L2-12	Emergency Lighting JB	LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990023	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-09-L2-13	Emergency Lighting JB	LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990022	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-09-L2-14	Emergency Lighting JB	LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990021	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-09-L2-15	Emergency Lighting JB	LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990020	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-09-L2-16	Emergency Lighting JB	LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990031	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-09-L2-17	Emergency Lighting JB	BELOW LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990015	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-10-L3-01	Stair Emergency Lighting JB	LOWER & UPPER DECK STAIRS	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990040	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-10-L3-02	Stair Emergency Lighting JB	LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990039	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-10-L3-03	Stair Emergency Lighting JB	LOWER & UPPER DECK STAIRS	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990041	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-10-L3-04	Stair Emergency Lighting JB	LOWER & UPPER DECK STAIRS	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990042	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-10-L3-05	Stair Emergency Lighting JB	BELOW LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990034	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-10-L3-06	Stair Emergency Lighting JB	BELOW LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990035	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-10-L3-07	Stair Emergency Lighting JB	BELOW LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990036	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-10-L3-08	Stair Emergency Lighting JB	BELOW LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990037	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-10-L3-09	Stair Emergency Lighting JB	BELOW LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990038	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
ELF-200N1-02-L1-01	Normal Lighting Fixture	UPPER DECK	1724001290	Cortem Spa	Cortem Spa	24/86772	LIFEX-ME-0645-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	
ELF-200N1-02-L1-02	Normal Lighting Fixture	UPPER DECK	1724001290	Cortem Spa	Cortem Spa	24/86773	LIFEX-ME-1260N-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	
ELF-200N1-02-L1-03	Normal Lighting Fixture	UPPER DECK	1724001290	Cortem Spa	Cortem Spa	24/86772	LIFEX-ME-0645-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	
ELF-200N1-02-L1-04	Normal Lighting Fixture	UPPER DECK	1724001290	Cortem Spa	Cortem Spa	24/86772	LIFEX-ME-0645-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	
ELF-200N1-02-L1-05	Normal Lighting Fixture	UPPER DECK	1724001290	Cortem Spa	Cortem Spa	24/86772	LIFEX-ME-0645-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	HAZARDOUS-AREA_8
ELF-200N1-02-L1-06	Normal Lighting Fixture	UPPER DECK	1724001290	Cortem Spa	Cortem Spa	24/86772	LIFEX-ME-0645-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	
ELF-200N1-02-L1-07	Normal Lighting Fixture	UPPER DECK	1724001290	Cortem Spa	Cortem Spa	24/86772	LIFEX-ME-0645-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	HAZARDOUS-AREA_8 HAZARDOUS-AREA_3
ELF-200N1-02-L1-08	Normal Lighting Fixture	UPPER DECK	1724001290	Cortem Spa	Cortem Spa	24/86772	LIFEX-ME-0645-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	HAZARDOUS-AREA_8 HAZARDOUS-AREA_3
ELF-200N1-02-L1-09	Normal Lighting Fixture	UPPER DECK	1724001290	Cortem Spa	Cortem Spa	24/86772	LIFEX-ME-0645-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	HAZARDOUS-AREA_8 HAZARDOUS-AREA_1
ELF-200N1-02-L1-10	Normal Lighting Fixture	UPPER DECK	1724001290	Cortem Spa	Cortem Spa	24/86772	LIFEX-ME-0645-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	HAZARDOUS-AREA_8 HAZARDOUS-AREA_1
ELF-200N1-02-L1-11	Normal Lighting Fixture	UPPER DECK	1724001290	Cortem Spa	Cortem Spa	24/86772	LIFEX-ME-0645-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	HAZARDOUS-AREA_3 HAZARDOUS-AREA_2 HAZARDOUS-AREA_5 HAZARDOUS-AREA_6
ELF-200N1-02-L1-12	Normal Lighting Fixture	UPPER DECK	1724001290	Cortem Spa	Cortem Spa	24/86772	LIFEX-ME-0645-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	HAZARDOUS-AREA_1 HAZARDOUS-AREA_2 HAZARDOUS-AREA_5 HAZARDOUS-AREA_4
ELF-200N1-02-L1-13	Normal Lighting Fixture	UPPER DECK	1724001290	Cortem Spa	Cortem Spa	24/86772	LIFEX-ME-0645-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	HAZARDOUS-AREA_1 HAZARDOUS-AREA_2 HAZARDOUS-AREA_5 HAZARDOUS-AREA_4
ELF-200N1-02-L1-14	Normal Lighting Fixture	UPPER DECK	1724001290	Cortem Spa	Cortem Spa	24/86772	LIFEX-ME-0645-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	
ELF-200N1-02-L1-15	Normal Lighting Fixture	UPPER DECK	1724001290	Cortem Spa	Cortem Spa	24/86772	LIFEX-ME-0645-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	
ELF-200N1-02-L1-16	Normal Lighting Fixture	UPPER DECK	1724001290	Cortem Spa	Cortem Spa	24/86772	LIFEX-ME-0645-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	

EU Type Examination Certificate CML 20ATEX3018X Issue 1

1 Equipment intended for use in Potentially Explosive Atmospheres Directive 2014/34/EU

2 Equipment **LifEx-ME, LifEx-MN and LifEx-MT series of linear lighting fixtures**

3 Manufacturer **Cortem S.p.A.**

4 Address **Via Aquileia 10**
34070 Villesse
(GO)
Italy

5 The equipment is specified in the description of this certificate and the documents to which it refers.

6 CML B.V., Chamber of Commerce No 6738671, Koopvaardijweg 32, 4906CV Oosterhout, The Netherlands, Notified Body Number 2776, in accordance with Article 17 of Directive 2014/34/EU of the European Parliament and of the Council, dated 26 February 2014, certifies that this equipment has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of equipment intended for use in potentially explosive atmospheres given in Annex II to the Directive.

The examination and test results are recorded in the confidential reports listed in Section 12.

7 If an 'X' suffix appears after the certificate number, it indicates that the equipment is subject to conditions of safe use (affecting correct installation or safe use). These are specified in Section 14.

8 This EU Type Examination certificate relates only to the design and construction of the specified equipment or component. Further requirements of Directive 2014/34/EU Article 13 apply to the manufacture of the equipment or component and are separately certified.

9 Compliance with the Essential Health and Safety Requirements, with the exception of those listed in the confidential report, has been demonstrated through compliance with the following documents:

EN IEC 60079-0:2018	EN 60079-1:2014	EN IEC 60079-7:2015+A1:2018
EN 60079-18:2015+A1:2017	EN 60079-31:2014	

10 The equipment shall be marked with the following:

LifEx-ME	LifEx-MN and LifEx-MT
Ex db eb mb IIC T.. Gb	Ex tb IIIC T…°C Db
Ex eb mb IIC T.. Gb *(when Ex mb LED drivers are used)*	IP66
Ex tb IIIC T…°C Db	
IP66	
Ta=* see description	Ta=* see description

11 Description

The LifEx is a range of linear LED lighting fixtures that are available in three different configurations for different applications, designated as the LifEx-ME, LifEx-MT and LifEx-MN.

LifEx-ME

The LifEx-ME version has an Equipment Protection Level of EPL Gb and Db and utilises types of protection increased safety (eb) and dust protection by enclosure (tb), along with encapsulation (mb) for the light source and flameproof (db) for the driver.

It is constructed from an aluminium enclosure, with either a glass or polycarbonate lens and with optional polycarbonate diffuser.

LifEx-MN

The LifEx-MN version has an Equipment Protection Level of EPL Gc and Db and utilises types of protection increased safety (ec) and dust protection by enclosure (tb).

It is constructed from an aluminium enclosure, with polycarbonate diffuser and/or with optional glass or polycarbonate lens.

LifEx-MT

The LifEx-MT versions has an Equipment Protection Level of EPL Db and utilises types of protection dust protection by enclosure (tb).

It is constructed from an aluminium enclosure, with polycarbonate diffuser and/or with optional glass or polycarbonate lens.

Design Options

Every configuration is available in lengths ranging from 300 mm to 1500 mm, and power ratings up to a maximum of 105W of nominal power.

The LifEx can be used in only normal service, in only emergency service or in normal and emergency service.

The minimum ambient temperature for the range is:

- -60°C for versions without battery
- -60°C for versions with the battery heater
- -20°C for versions with battery

The range is available with the following maximum ambient temperatures:

	With glass lens and with/without polycarbonate diffuser	With Polycarbonate lens and with/without polycarbonate diffuser	Without lens polycarbonate diffuser only
LifEx-M...0310	+60°C	+60°C	+60°C
LifEx-M...0315	+60°C	+60°C	+60°C
LifEx-M...0330	+60°C	Configuration not available	Configuration not available
LifEx-M...0615	+60°C	+60°C	+60°C
LifEx-M...0630	+60°C	+50°C	+60°C
LifEx-M...0645	+57°C	+47°C	+60°C
LifEx-M...0660	+47°C	Configuration not available	+58°C
LifEx-M...1230	+60°C	+60°C	+60°C
LifEx-M...1260	+60°C	+50°C	+60°C
LifEx-M...1290	+60°C	+40°C	+60°C
LifEx-M...12120	+54°C	Configuration not available	+60°C
LifEx-M...1590	+60°C	+40°C	+60°C

Table 1: Maximum Ambient Temperatures

The following tables provide the Temperature Class (EPL Gb) and Maximum Surface Temperature (EPL Db) for each LifEx type, with the following notes:

- The LifEx-MN with an ambient temperature greater than 50°C is T5 or T4. T6 is not included.
- The Temperature Class (EPL Gb) and Maximum Surface Temperature (EPL Db) in the tables below are not applicable when the ambient temperature is not permitted in the above maximum ambient temperature range table.

13. (For example, the LifEx-M...0660 is not permitted with polycarbonate lens, therefore the Temperature Class (EPL Gb) and Maximum Surface Temperature (EPL Db) for this version in tables 2 and 3 are not applicable)

	Temperature Class (EPL Gb and Gc) and Maximum Surface Temperature (EPL Db) Based on ambient temperature													
	40°C		45°C		47°C		50°C		54°C		57°C		60°C	
	EPL Db	EPL Gb/Gc	EPL Db	EPL Gb/Gc	EPL Db	EPL Gb/Gc	EPL Db	EPL Gb/Gc	EPL Db	EPL Gb/Gc	EPL Db	EPL Gb/Gc	EPL Db	EPL Gb/Gc
LifEx-M...0310	T56°C	T6	T56°C	T6	T58°C	T6	T61°C	T6	T65°C	T6	T68°C	T6	T71°C	T6
LifEx-M...0315	T56°C	T6	T56°C	T6	T58°C	T6	T61°C	T6	T65°C	T6	T68°C	T6	T71°C	T6
LifEx-M...0615	T56°C	T6	T56°C	T6	T58°C	T6	T61°C	T6	T65°C	T6	T68°C	T6	T71°C	T6
LifEx-M...0630	T69°C	T6	T69°C	T5	T71°C	T5	T74°C	T5	T78°C	T5	T81°C	T4	T84°C	T4
LifEx-M...0645	T72°C	T5	T72°C	T5	T74°C	T5	T77°C	T5	T81°C	T4	T84°C	T4	T87°C	T4
LifEx-M...0660	T77°C	T5	T77°C	T4	T79°C	T4	T82°C	T4	T86°C	T4	T89°C	T4	T92°C	T4
LifEx-M...1230	T58°C	T6	T58°C	T6	T60°C	T6	T63°C	T6	T67°C	T6	T70°C	T6	T73°C	T6
LifEx-M...1260	T67°C	T6	T67°C	T5	T69°C	T5	T72°C	T5	T76°C	T5	T79°C	T4	T82°C	T4
LifEx-M...1290	T72°C	T5	T72°C	T5	T74°C	T4	T77°C	T4	T81°C	T4	T84°C	T4	T87°C	T4
LifEx-M...12120	T75°C	T5	T75°C	T4	T77°C	T4	T80°C	T4	T84°C	T4	T87°C	T4	T90°C	T4
LifEx-M...1590	T72°C	T5	T72°C	T5	T74°C	T4	T77°C	T4	T81°C	T4	T84°C	T4	T87°C	T4

Table 2: Temperature Class (EPL Gb) and Maximum Surface Temperature (EPL Db) for LifEx types with glass/polycarbonate lens and with polycarbonate diffuser

	Temperature Class (EPL Gb and Gc) and Maximum Surface Temperature (EPL Db) Based on ambient temperature					
	40°C		55°C		60°C	
	EPL Db	EPL Gc	EPL Db	EPL Gc	EPL Db	EPL Gc
LifEx-ME-0330	T58°C	T6	T73°C	T6	T78°C	T5
LifEx-MN-0330	T58°C	T6	T73°C	T5	T78°C	T4
LifEx-MT-0330	T58°C	-	T73°C	-	T78°C	-

Table 3: Temperature Class (EPL Gb and Gc) and Maximum Surface Temperature (EPL Db) for LifEx-M...-0330 types with glass/polycarbonate window and without polycarbonate diffuser

	Temperature Class (EPL Gb) and Maximum Surface Temperature (EPL Db) Based on ambient temperature													
	40°C		45°C		47°C		50°C		54°C		57°C		60°C	
	EPL Db	EPL Gb	EPL Db	EPL Gb	EPL Db	EPL Gb	EPL Db	EPL Gb	EPL Db	EPL Gb	EPL Db	EPL Gb	EPL Db	EPL Gb
LifEx-M...0310	T62°C	T6	T62°C	T6	T64°C	T6	T67°C	T6	T71°C	T6	T74°C	T6	T77°C	T6
LifEx-M...0315	T62°C	T6	T62°C	T6	T64°C	T6	T67°C	T6	T71°C	T6	T74°C	T6	T77°C	T6
LifEx-M...0615	T62°C	T6	T62°C	T6	T64°C	T6	T67°C	T6	T71°C	T6	T74°C	T6	T77°C	T6
LifEx-M...0630	T85°C	T6	T85°C	T5	T87°C	T5	T90°C	T5	T94°C	T5	T97°C	T4	T100°C	T4
LifEx-M...0645	T88°C	T6	T88°C	T5	T90°C	T5	T93°C	T5	T97°C	T4	T100°C	T4	T103°C	T4
LifEx-M...0660	T100°C	T6	T100°C	T4	T102°C	T4	T105°C	T4	T109°C	T4	T112°C	T4	T115°C	T4
LifEx-M...1230	T65°C	T6	T65°C	T6	T67°C	T6	T70°C	T6	T74°C	T6	T77°C	T6	T80°C	T6
LifEx-M...1260	T85°C	T6	T85°C	T5	T87°C	T5	T90°C	T5	T94°C	T5	T97°C	T4	T100°C	T4
LifEx-M...1290	T94°C	T6	T94°C	T5	T96°C	T4	T99°C	T4	T103°C	T4	T106°C	T4	T109°C	T4
LifEx-M...12120	T96°C	T5	T96°C	T4	T98°C	T4	T101°C	T4	T105°C	T4	T108°C	T4	T111°C	T4
LifEx-M...1590	T94°C	T6	T94°C	T5	T96°C	T4	T99°C	T4	T103°C	T4	T106°C	T4	T109°C	T4

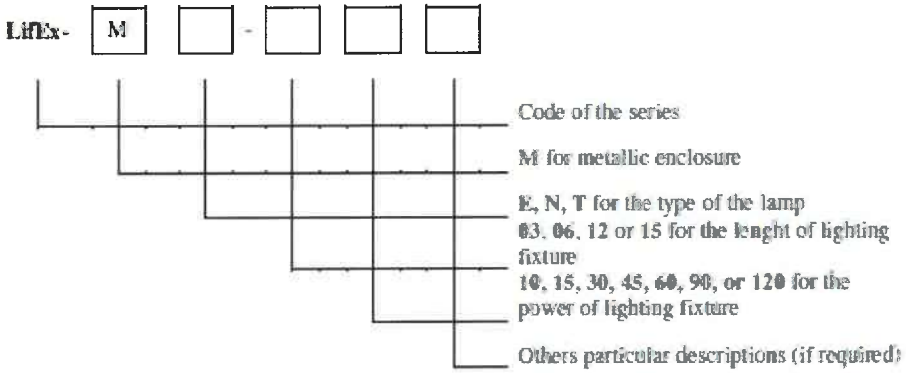
Table 4: Temperature Class (EPL Gb) and Maximum Surface Temperature (EPL Db) for LifEx types with glass/polycarbonate lens and without polycarbonate diffuser

	Maximum Surface Temperature (EPL Db) Based on ambient temperature						
	40°C	45°C	47°C	50°C	54°C	57°C	60°C
LifEx-M...0310	T56°C	T56°C	T58°C	T61°C	T65°C	T68°C	T71°C
LifEx-M...0315	T56°C	T56°C	T58°C	T61°C	T65°C	T68°C	T71°C
LifEx-M...0615	T56°C	T56°C	T58°C	T61°C	T65°C	T68°C	T71°C
LifEx-M...0630	T69°C	T69°C	T71°C	T74°C	T78°C	T81°C	T84°C
LifEx-M...0645	T72°C	T72°C	T74°C	T77°C	T81°C	T84°C	T87°C
LifEx-M...0660	T77°C	T77°C	T79°C	T82°C	T86°C	T89°C	T92°C
LifEx-M...1230	T58°C	T58°C	T60°C	T63°C	T67°C	T70°C	T73°C
LifEx-M...1260	T67°C	T67°C	T69°C	T72°C	T76°C	T79°C	T82°C
LifEx-M...1290	T72°C	T72°C	T74°C	T77°C	T81°C	T84°C	T87°C
LifEx-M...12120	T75°C	T75°C	T77°C	T80°C	T84°C	T87°C	T90°C
LifEx-M...1590	T72°C	T72°C	T74°C	T77°C	T81°C	T84°C	T87°C

Table 5: (Applicable to EPL Db only) Maximum Surface Temperature for LifEx types without glass/polycarbonate lens and with polycarbonate diffuser

The equipment has been separately tested against the requirements of IEC 60529 and it meets IP66. The gaskets on the caps provide the degree of protection.

The equipment uses the following nomenclature:



Variation 1:

This variation has assed the following changes:

i. Addition of an optional new removable cover for "easy installation" (which use the new aluminium extrusion);
ii. Addition of an optional external battery box;
iii. minimum ambient temperature extended to -60°C when Ex mb heater is used;
iv. Additional optional Ex mb EBM LED driver as an alternative to EBL3040 / EBL4040 Ex db series LED drivers;
v. added 30W model for size 300mm (LifEx-M..-0330).

12 Certificate history and evaluation reports

Issue	Date	Associated report	Notes
0	06 May 2020	R13027A/00	Prime Issue
1	01 Jul 2022	R14875A/00	Introduction of Variation 1

Note: Drawings that describe the equipment or component are listed in the Annex.

13 Conditions of Manufacture

The following conditions are required of the manufacturing process for compliance with the certification.

i. Where the product incorporates certified parts or safety critical components the manufacturer shall ensure that any changes to those parts or components do not affect the compliance of the certified product that is the subject of this certificate.
ii. The LifEx series lighting fixtures are to be designed in accordance with general electrical safety standards.
iii. The routine dielectric strength test on the LifEx-ME and LifEx-MN luminaries with applied voltage shall be performed at 2U + 1000V with a minimum value of 1560V (U = maximum rated voltage of the lamp)

iv. A routine visual inspection of the encapsulated parts is required, as per Clause 9.1 of IEC 60079-18. There shall be no visible damage or deformation to the encapsulant.

v. Where the removable battery pack is used with phoenix contacts, if used with a T6 version of the equipment, the maximum ambient shall be limited to +40°C.

14 Specific Conditions of Use (Special Conditions)

The following conditions relate to safe installation and/or use of the equipment.

i. Cable entries are provided which have less than 5 threads engaged. Care must be taken to ensure the correct gaskets and washers are sued with the cable gland to maintain IP66.

ii. The equipment uses an external part that is constructed from non-metallic materials, and as such care is to be taken to prevent an electro-static charging hazard. See instruction manual for details.

iii. For versions with glass window of 4mm thickness without cover, the luminaire must be installed in a location with a low risk of mechanical danger

iv. The temperature at the entry point may reach up to 75°C. Suitably rated cable glands must be used.

Certificate Annex

Certificate Number	**CML 20ATEX3018X**
Equipment	**LifEx-ME, LifEx-MN and LifEx-MT series of linear lighting fixtures**
Manufacturer	**Cortem S.p.A.**

The following documents describe the equipment or component defined in this certificate:

Issue 0

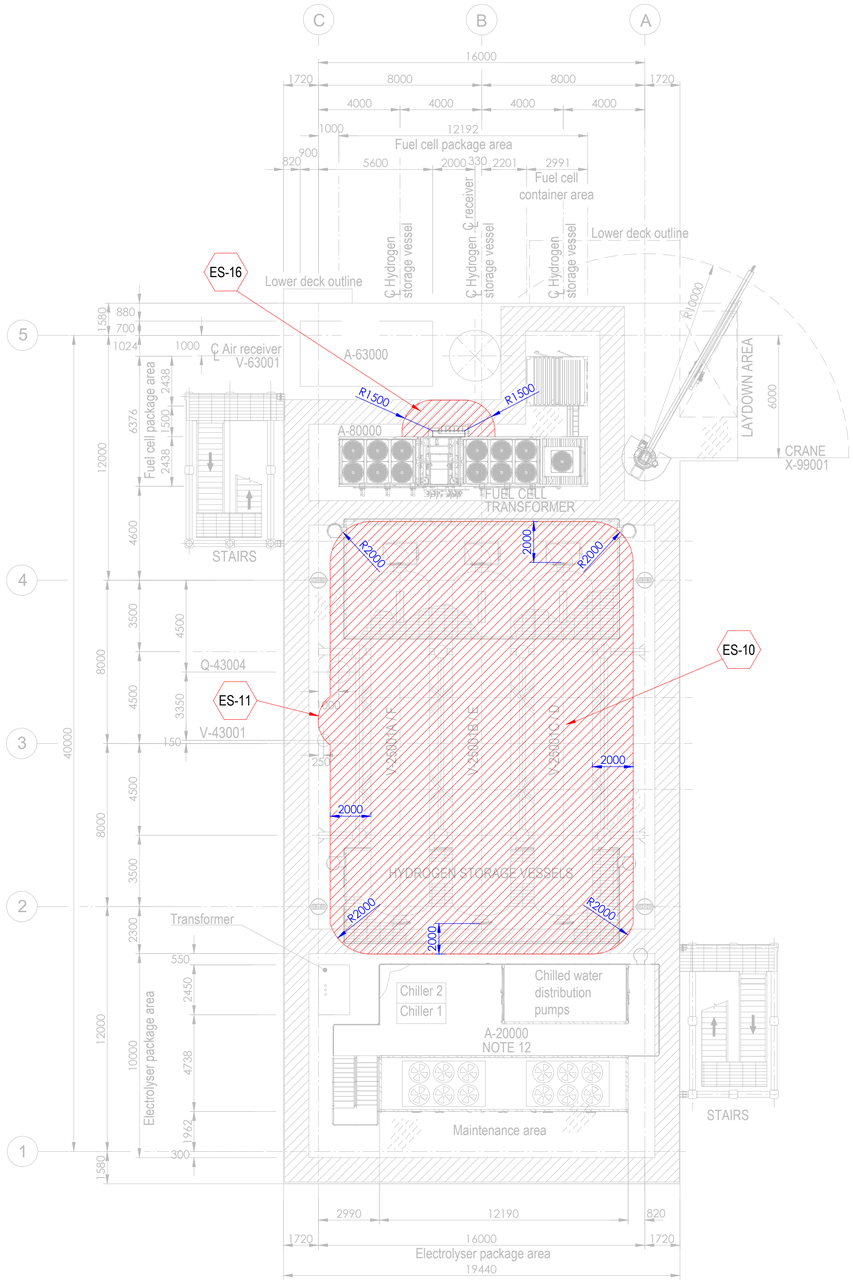
Drawing No	Sheets	Rev	Approved date	Title
A3-7466	1 to 6	0	06 May 2020	LifEx-M Luminaires
A4-7467	1 to 6	0	06 May 2020	Technical Note

Issue 1

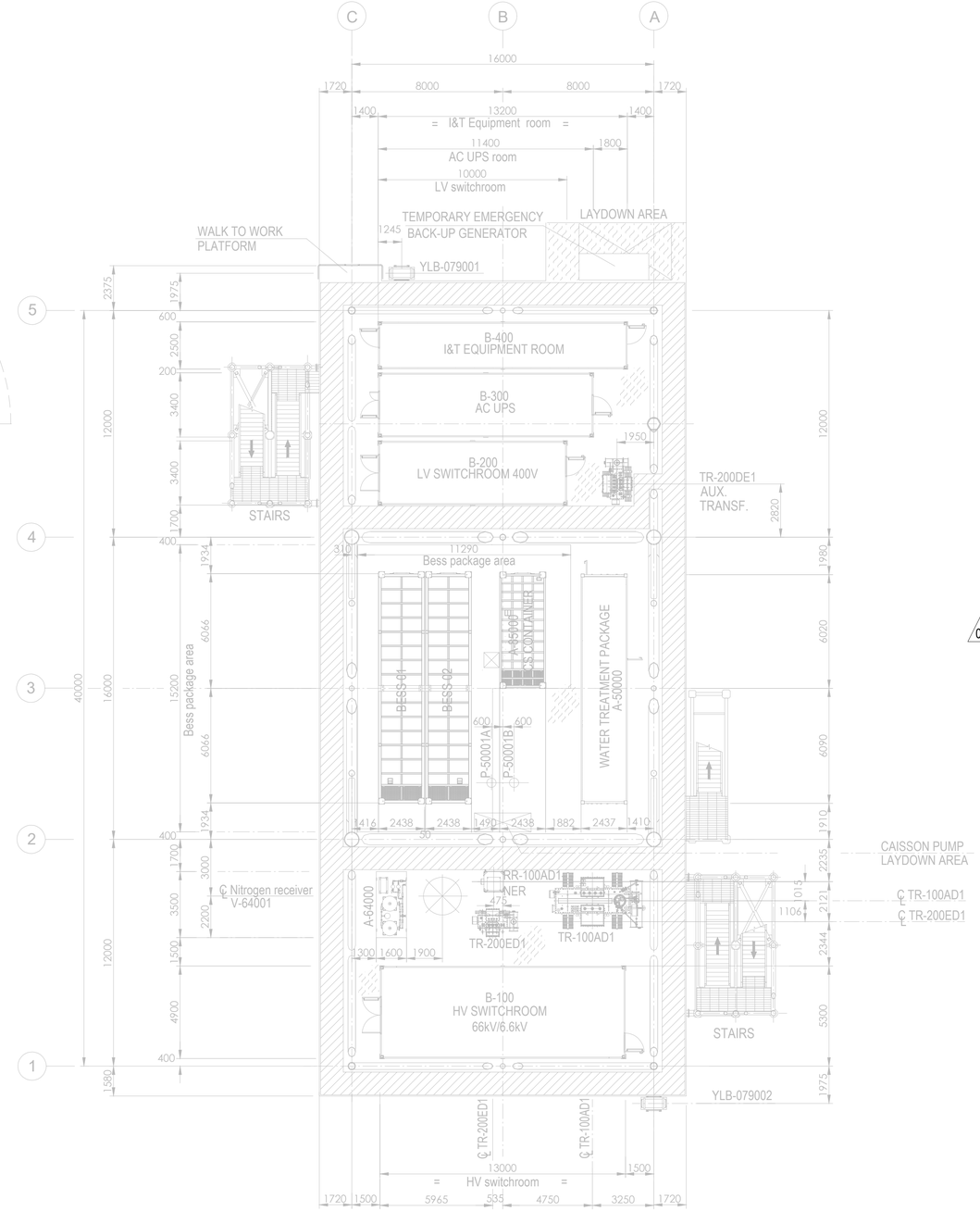
Drawing No.	Sheets	Rev	Approved date	Title
A3-7466	1 of 6	1	01 Jul 2022	LifEx-M Luminaires Assembly and External Dimensions
A3-7466	2 of 6	1	01 Jul 2022	LifEx-M Luminaires Detail of sealing and op is protection
A3-7466	3 of 6	1	01 Jul 2022	LifEx-M Luminaires Detail of driver and inverter for LifEx-ME version
A3-7466	4 of 6	1	01 Jul 2022	LifEx-M Luminaires Circuit diagram for LifeEx-ME version
A3-7466	5 of 6	1	01 Jul 2022	LifEx-M Luminaires Circuit diagram LifEx-MN and LifEx-MT version
A3-7466	6 of 6	1	01 Jul 2022	LifEx-M Luminaires Detail of battery pack
A3-7729	1 to 3	0	01 Jul 2022	Battery heater for -60°C /-40°C applications Assembly and External Dimensions
A4-7727	1 to 8	0	01 Jul 2022	Technical Note

DRAWING NO. 123A90-DDL-SAF-DL-30022

REV. 02



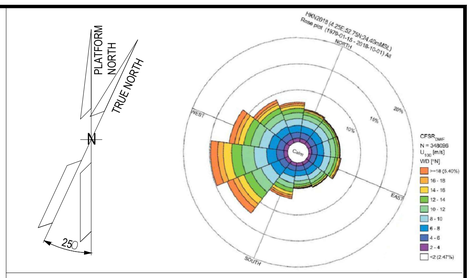
PLAN ON UPPER DECK
EL+30.310 T.O.S.



PLAN ON LOWER DECK
EL+23.310 T.O.S.

Tag No.	Equipment Tag	Description	Material	Ventilation Type
01	P-50001 A/B	SEA WATER LIFT PUMPS	SEA WATER	NATURAL (OPEN AREA)
02	Q-43004	HYDROGEN VENT	HYDROGEN	NATURAL (OPEN AREA)
03	V-43001	HYDROGEN VENT KO DRUM	HYDROGEN	NATURAL (OPEN AREA)
04	V-25001 (A/B/C/D/E/F)	HYDROGEN STORAGE VESSELS	HYDROGEN	NATURAL (OPEN AREA)
05	V-63001	AIR RECEIVER	INSTRUMENT AIR	NATURAL (OPEN AREA)
06	A-20000	ELECTROLYSER PACKAGE		
07	A-63000	INSTRUMENT AIR PACKAGE		
08	A-80000	FUEL CELL PACKAGE		
09	A-85000	BESS PACKAGE		
10	YLB-079001/2	LIFE RAFTS		
11	A-50000	WATER TREATMENT PACKAGE		

Tag No.	Equipment Tag	Description	Material	Ventilation Type
12	A-64000	NITROGEN SYSTEM		
13	B-100	HV SWITCHROOM 66kV/6.6kV		
14	B-200	LV SWITCHROOM 400V		
15	B-300	AC UPS EQUIPMENT ROOM		
16	B-400	I&T EQUIPMENT ROOM		
17	TR-100AD1	TRANSFORMER MAIN 66kV/6.6kV		
18	RR-100AD1-NER	NEUTRAL EARTHING RESISTOR		
19	TR-200DE1	TRANSFORMER AUX. 6.6kV/0.4kV		
20	TR-200ED1	SOLAR TRANSFORMER PV FARM EQUIPMENT		
21	X-99001	CRANE		
22	V-64001	NITROGEN RECEIVER		



NOTES

1. ALL DIMENSIONS IN mm U.N.O.
2. ALL ELEVATIONS IN METERS.
3. PLATFORM NORTH DIRECTION IS N 25°W.
4. VENT TOP SHALL BE REACHEABLE FOR MAINTENANCE PURPOSE.
5. THE BESS IS CONSIDERED SAFE AREA EXCEPT EXTRACTORES FROM BATTERIES , CURRENTLY NOT SHOWN IN DRAWINGS, SINCE INFORMATION FROM VENDOR IS NOT YET AVAILABLE.[ES17].
6. THE LOCATION OF EMISSION SOURCES ON THE LAYOUT ARE ONLY INDICATIVE. EMISSION SOURCES CONSIDERED ARE PRESENT WITHIN THE EXTENSION OF HAZARDOUS CLASSIFIED AREAS SHOWN ON THE LAYOUT. THIS IS BECAUSE VALVES AND FLANGES,WHICH ARE CONSIDERED POTENTIAL SOURCES OF RELEASE POINTS FOR FLAMMABLE GAS ARE NOT SHOWN ON CURRENT LAYOUT PROVIDED. THE SAME APPLIES TO THE EMISSION SOURCES FOR CPI'S ITEM.
7. IDENTIFIED EMISSION SOURCES DETAIL.

02
8. FOR DETAILS RELATED TO ELECTROLYSER PACKAGE INTERNAL ENCLOSURES REFER TO DRAWING 224J10-DDL-PP-DA-00001 REV 0.
9. FOR DETAILS RELATED TO FUELL CELL PACKAGE INTERNAL ENCLOSURES REFER TO DRAWING K559-2254-CWIWP4202202-B01-001 REV 009".
10. THE N.6 HYDROGEN STORAGE VESSELS ARE NOT CLASSIFIED INTERNALLY SINCE THEY ARE DESIGNED TO CONTAIN HYDROGEN OR NITROGEN FOR THE ENTIRE DURATION OF THE 2 YEARS OF OPERATION.

EMISSION SOURCE No.	IDENTIFIED AREAS
ES10	HYDROGEN STORAGE VESSLES
ES11	HYDROGEN VENT KO DRUM
ES16	FUEL CELL

LEGEND

ZONE 0 — ZONE 1

ZONE 2 — ES EMISSION SOURCES

123A90-DDL-PP-DS-70071	PLOT PLAN - BELOW LOWER DECK
123A90-DDL-PP-DS-70072	PLOT PLAN - ELEVATION LOOKING NORTH & EAST

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	15/01/25	MMA	CCA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	27/08/24	MMA	CCA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	08/02/24	MMA	CCA	DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND

ROSETTI MARINO

TITLE :
BASE LOAD POWER HUB (BLPH)
HAZARDOUS AREA CLASSIFICATION
LOWER & UPPER DECK

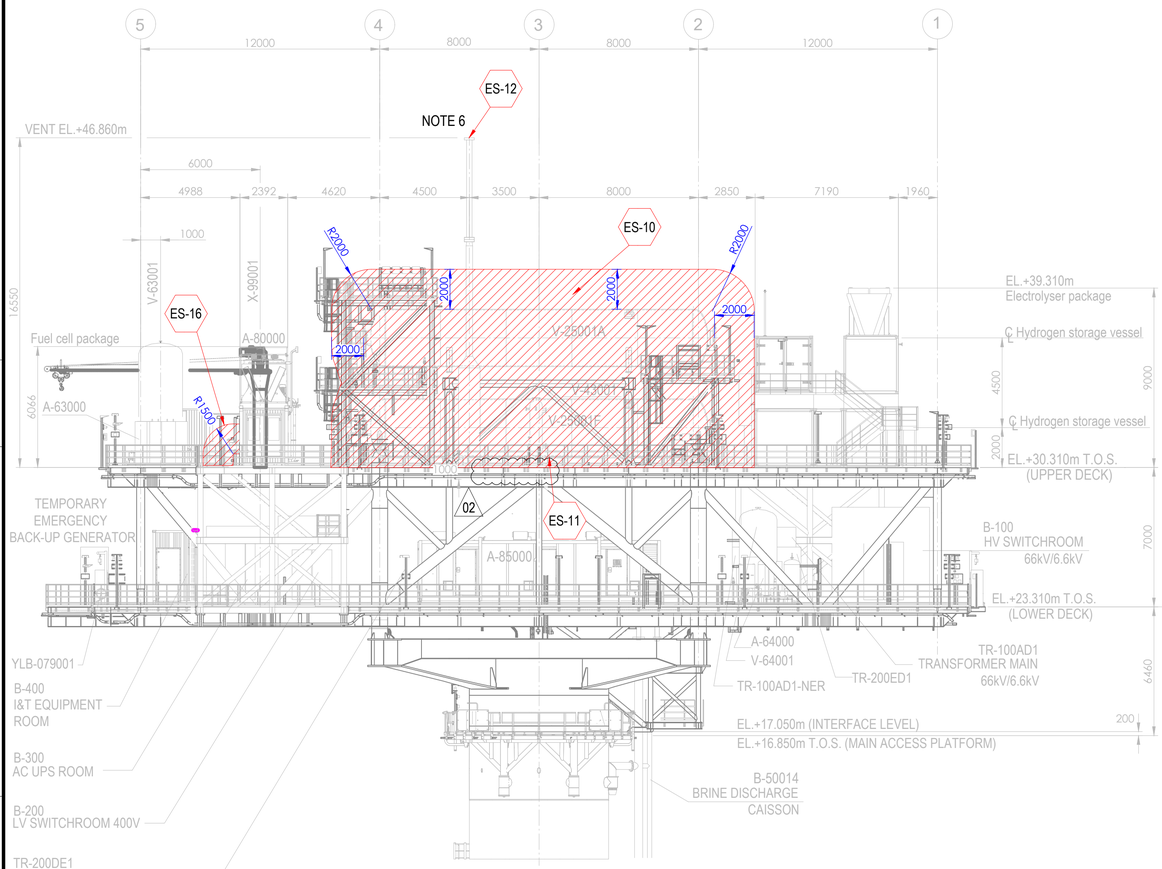
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DRAWN M. MAGNI	CHECKED C. CARACCIOLO	APPROVED D. LO STERZO	DATE 03/07/24

	DRAWING NO.	SHEET	REV.
A1	123A90-DDL-SAF-DL-30022	001	02

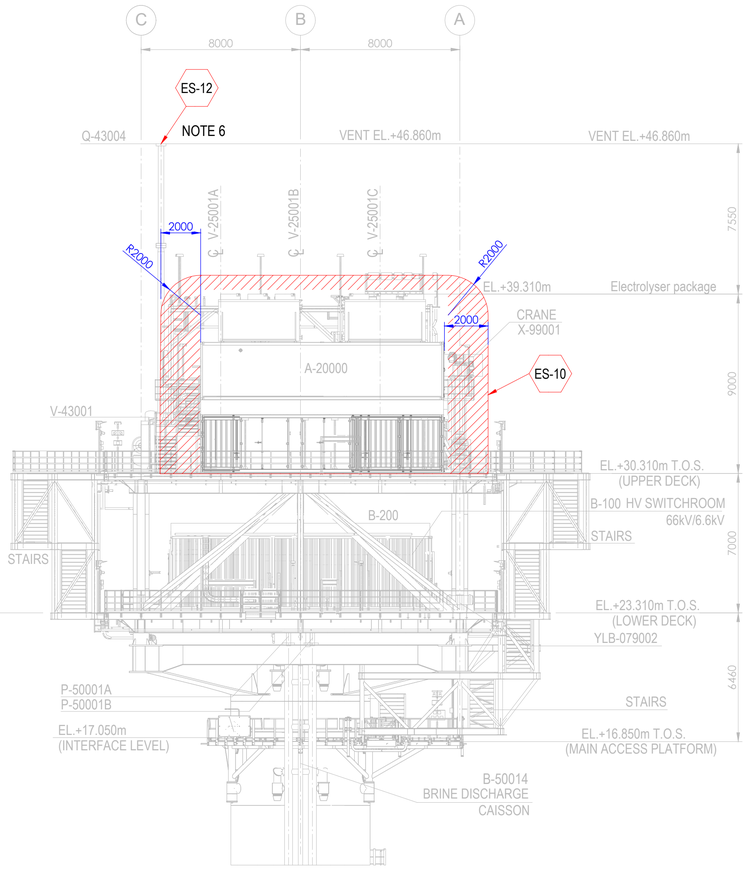
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DRAWING NO. 123A90-DDL-SAF-DL-30024

REV. 02

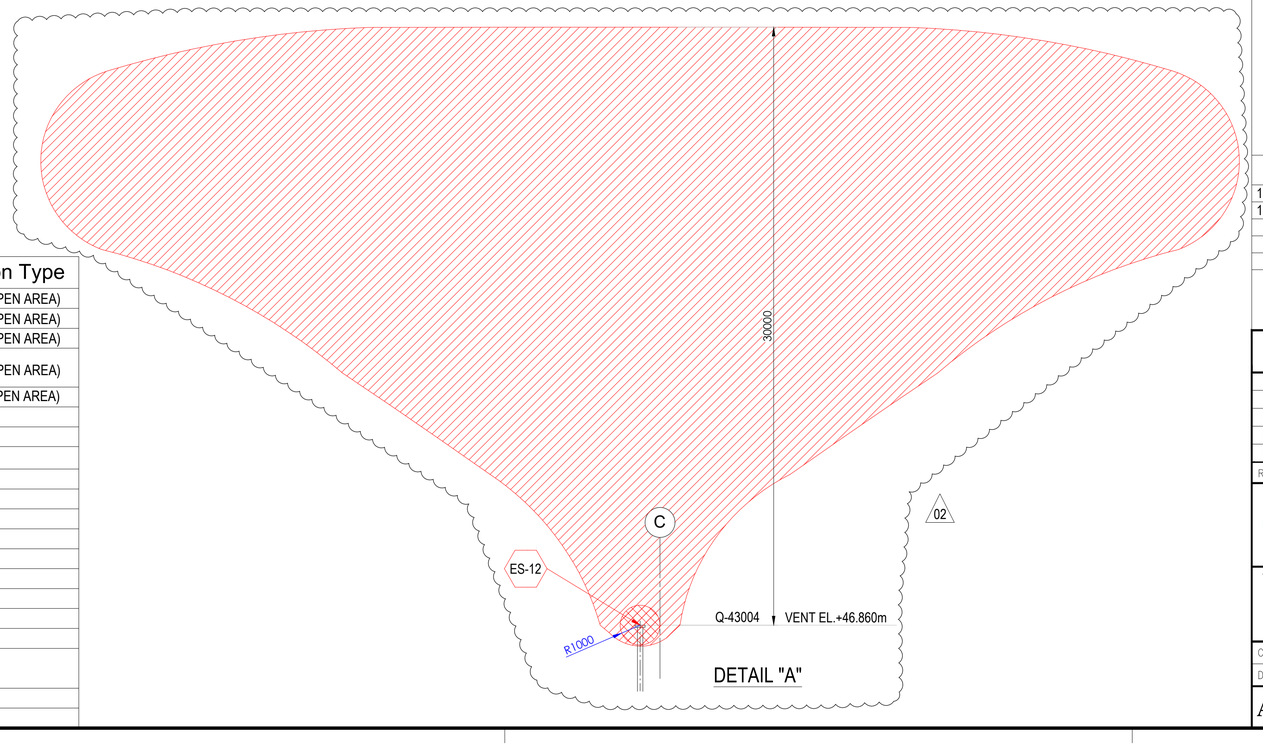


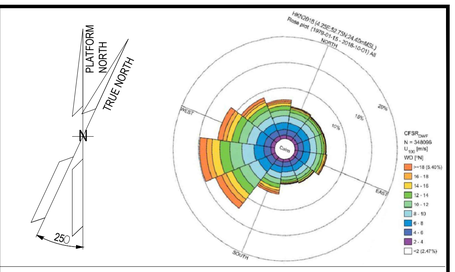
ELEVATION LOOKING EAST



ELEVATION LOOKING NORTH

Tag No.	Equipment Tag	Description	Material	Ventilation Type
01	P-50001 A/B	SEA WATER LIFT PUMPS	SEA WATER	NATURAL (OPEN AREA)
02	Q-43004	HYDROGEN VENT	HYDROGEN	NATURAL (OPEN AREA)
03	V-43001	HYDROGEN VENT KO DRUM	HYDROGEN	NATURAL (OPEN AREA)
04	V-25001 (A/B/C/D/E/F)	HYDROGEN STORAGE VESSELS	HYDROGEN	NATURAL (OPEN AREA)
05	V-63001	INSTRUMENT AIR RECEIVER	INSTRUMENT AIR	NATURAL (OPEN AREA)
06	A-20000	ELECTROLYSER PACKAGE		
07	A-63000	INSTRUMENT AIR PACKAGE		
08	A-80000	FUEL CELL PACKAGE		
09	A-85000	BESS PACKAGE		
10	YLB-079001/2	LIFE RAFTS		
11	B-100	HV SWITCHROOM 66kV/6.6kV		
12	B-200	LV SWITCHROOM 400V		
13	B-300	AC UPS EQUIPMENT ROOM		
14	B-400	I&T EQUIPMENT ROOM		
15	TR-100AD1	TRANSFORMER MAIN 66kV/6.6kV		
16	TR-100AD1-NER	NEUTRAL EARTHING RESISTOR		
17	TR-200DE1	TRANSFORMER AUX. 6.6kV/0.4kV		
18	TR-200ED1	SOLAR TRANSFORMER PV FARM EQUIPMENT		
19	X-99001	CRANE		
20	V-64001	NITROGEN RECEIVER		





NOTES

1. ALL DIMENSIONS IN mm U.N.O
2. ALL ELEVATIONS IN METERS.
3. PLATFORM NORTH DIRECTION IS N 25°W.
4. VENT TOP SHALL BE REACHEABLE FOR MAINTENANCE PURPOSE.
5. THE BESS IS CONSIDERED SAFE AREA EXCEPT EXTRACTORES FROM BATTERIES , CURRENTLY NOT SHOWN IN DRAWINGS, SINCE INFORMATION FROM VENDOR IS NOT YET AVAILABLE.[ES17]
6. FOR ES12 PLUME, PLEASE REFER TO THE DETAIL "A" BELOW. (02)
7. THE LOCATION OF EMISSION SOURCES ON THE LAYOUT ARE ONLY INDICATIVE. EMISSION SOURCES CONSIDERED ARE PRESENT WITHIN THE EXTENSION OF HAZARDOUS CLASSIFIED AREAS SHOWN ON THE LAYOUT. THIS IS BECAUSE VALVES AND FLANGES,WHICH ARE CONSIDERED POTENTIAL SOURCES OF RELEASE POINTS FOR FLAMMABLE GAS ARE NOT SHOWN ON CURRENT LAYOUT PROVIDED. THE SAME APPLIES TO THE EMISSION SOURCES FOR CPI'S ITEM.
8. IDENTIFIED EMISSION SOURCES DETAIL

EMISSION SOURCE No.	IDENTIFIED AREAS
ES10	HYDROGEN STORAGE VESSLES
ES11	HYDROGEN VENT KO DRUM
ES12	HYDROGEN VENT
ES16	FUEL CELL

LEGEND

ZONE 0 — ZONE 1

ZONE 2 — ES EMISSION SOURCES

REFERENCE DOCUMENTS

123A90-DDL-PP-DS-70070	PLOT PLAN - LOWER & UPPER DECK
123A90-DDL-PP-DS-70071	PLOT PLAN - BELOW LOWER DECK

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	15/01/24	MMA	CCA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	27/08/24	MMA	CCA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	08/02/24	MMA	CCA	DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND

ROSETTI MARINO

TITLE :
BASE LOAD POWER HUB (BLPH)
HAZARDOUS AREA CLASSIFICATION
ELEVATION LOOKING NORTH & EAST

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK			SCALE 1:150
DRAWN M. MAGNI	CHECKED C. CARACCIOLO	APPROVED D. LO STERZO	DATE 03/07/24

A1 | DRAWING NO. 123A90-DDL-SAF-DL-30024 | SHEET 001 | REV. 02

File Name : 123A90-DDL-SAF-DL-30024 Rev.02

ITEM	Tag	ELF-200N1-02-L1-13	: NORMAL LIGHT	Dwg	123A90-DDL-EL-DL-20118
	S/Sys	83-40	: Normal Lighting Upper Deck	Module	UD
TASK	code	C10001668	Location: Onshore Activities	User	Rosetti Marino Quality Control
FORM	Process	MC	Activity: CCK / Discipline: ATEX / Form: CJX01		Hazardous Area Equipment Detailed Inspection

Schedule Ref. #				**Area Code**					
Area Class Drawing	123A90-DDL-SAF-DL-30022			**Serial No.**	24/86772				
Manufacturer	Cortem Spa			**Model**	LIFEX-ME-1260N-BB				
Cert No.	CML 20 ATEX 3018X			**Equipment Ambient Temp.**	-60°C to +60°C				
Area Classification	hazardous	**Zone**	2	**Gas group**	IIC	**Temp class**	T1		
Equipment Protection Type	Ex db	**EPL**	Gb	**Gas group**	IIC	**Temp class**	T5	**IP Rating**	IP66

Detailed Note:

1) Inspection shall only be performed by competent personnel

2) All fields are to be completed. Any non-applicable field shall state “NA”. Comments are required for ‘Failure’ column ONLY.

3) An Inspection Sheet should be completed for EACH individual item of Equipment.

	General Equipment	Detailed	OK/NA/PL	Comments
1	Equipment is appropriate to the EPL / Zone requirements of the area	x	OK	
2	Equipment group is correct	x	OK	
3	Equipment temperature class is correct	x	OK	
4	Degree of IP protection of equipment is appropriate for the level of protection	x	OK	
5	Equipment circuit identification is correct	x	PL	
6	Equipment circuit identification is available	x	NA	
7	Enclosure glass parts and glass-to-metal sealing gaskets and / or compounds are satisfactory	x	OK	
8	There is no damage or unauthorized modifications	x	OK	
9	There is no evidence of unauthorized modifications	x	OK	
10	Bolts, cable entry devices (direct and indirect) & blanking elements are of the correct type, are complete & tight		NA	
	Physical check	x	PL	
11	Threaded covers on enclosures are of the correct type, are tight and secured		NA	
	Physical check	x	NA	
12	Joint surfaces are clean and undamaged and gaskets, if any, are satisfactory and positioned correctly	x	OK	
13	Condition of enclosure gaskets is satisfactory	x	OK	
14	There is no evidence or ingress of water or dust in the enclosure in accordance with the IP rating	x	OK	
15	Electrical connections are tight	x	OK	
16	Bridging links do not reduce creepage / clearance and are allowed	x	NA	
17	Unused terminals are tightened	x	OK	
18	Encapsulated components are undamaged	x	NA	
19	Flameproof components are undamaged	x	NA	
20	Fluorescent lamps are not indicating EOL effects (only for Ex “e” – Ex “n” – Ex “t”)	x	NA	
21	HID lamps are not indicating EOL effects	x	NA	
22	Lamp type, rating, pin configuration and position are correct	x	NA	
23	Breathing and drainage devices are satisfactory	x	OK	
24	Type of cable is appropriate	x	OK	
25	There is no obvious damage to the cables	x	OK	
26	Cable glands are the correct type and installed correctly	x	OK	
27	Sealing of trunking, ducts, pipes and or conduits is satisfactory	x	NA	
28	Stopping boxes and cable boxes are corrected filled	x	OK	

ITEM	Tag	ELF-200N1-02-L1-13	: NORMAL LIGHT			Dwg	123A90-DDL-EL-DL-20118
	S/Sys	83-40	: Normal Lighting Upper Deck			Module	UD
TASK	code	C10001668		Location	Onshore Activities	User	Rosetti Marino Quality Control
FORM	Process	MC	Activity CCK	Discipline	ATEX	Form	CJX01 Hazardous Area Equipment Detailed Inspection

29	Integrity of conduit system and interface with mixed system maintained	x	NA	
30	Earthing connections, including any supplementary earthing bonding connections are satisfactory (for example connections are tight and conductors are of sufficient cross-section		NA	
	Physical check	x	OK	
31	Automated electric protective devices operate within permitted limits	x	NA	
32	Special conditions (if applicable) have been complied with.	x	OK	
33	All cable cores are uniquely labeled	x	OK	
34	Cable cores not in use are correctly terminated	x	NA	
35	Equipment is adequately protected against corrosion, weather, vibration and other adverse factors	x	PL	
36	No undue accumulation of dust and dirt	x	OK	
37	All equipment housings are clean and dry	x	OK	
38	All moving parts are free and have no mechanical damage	x	NA	
	Applicable for Installation of Heating Systems			
39	Temperature sensors function according to manufacturer's documents (only applicable for Ex-d e Ex-e)	x	NA	
40	Safety cut off devices function according to manufacturer's documents (only applicable for Ex-d e Ex-e)	x	NA	
41	The setting of the safety cut off is sealed (only applicable for Ex-d e Ex-e)	x	NA	
42	Reset of a heating system safety cut off possible with tool only(only applicable for Ex-d e Ex-e)	x	NA	
43	Auto-reset is not possible (only applicable for Ex-d e Ex-e)	x	NA	
44	Reset of a safety cut off under fault conditions is prevented (only applicable for Ex-d e Ex-e)	x	NA	
45	Safety cut off independent from control system (only applicable for Ex-d e Ex-e)	x	NA	
46	Level switch is installed and correctly set, if required (only applicable for Ex-d e Ex-e)	x	NA	
47	Flow switch is installed and correctly set, if required (only applicable for Ex-d e Ex-e)	x	NA	
	Extra Ex d checks			
48	Obstructions adjacent to flame proof flanged joints are in accordance with IEC 60079-14	x	NA	
49	Ex d conduits seals are fitted to all conduits and satisfactorily sealed	x	NA	
50	Cable glands are of the correct type and installed correctly	x	OK	
51	Adaptors, reducers, stop ends, etc. are all certified Ex d	x	OK	
52	Flame path are clean and undamaged	x	OK	
53	Flange gap dimensions are within tolerances	x	NA	
54	Motor fans have sufficient clearance to the enclosure and/or covers, cooling systems are undamaged, motor foundations have no indentations or cracks	x	NA	
55	The ventilation airflow is not impeded	x	NA	
56	Insulation resistance (IR) of the motor windings is satisfactory	x	NA	
57	Fault loop impedance (TN systems) or earthing resistance (IT systems) is satisfactory	x	NA	
58	Variable voltage/frequency installation complies with documentation	x	NA	
	Extra Ex e checks			
59	All Equipment is Ex e certified (including components within enclosure)	x	NA	
60	Power conductors are not bunched together causing possible hot spots	x	NA	
61	Motor fans have sufficient clearance to the enclosure and/or covers, cooling systems are undamaged, motor foundations have no indentations or cracks	x	NA	
62	Insulation resistance (IR) of the motor windings is satisfactory	x	NA	
63	Fault loop impedance (TN systems) or earthing resistance (IT systems) is satisfactory	x	NA	
64	The ventilation airflow is not impeded	x	NA	
65	Motor protection devices operate within the permitted tE or tA time limits.	x	NA	
66	Variable voltage/frequency installation complies with documentation	x	NA	

ITEM	Tag	ELF-200N1-02-L1-13	: NORMAL LIGHT			Dwg	123A90-DDL-EL-DL-20118
	S/Sys	83-40	: Normal Lighting Upper Deck			Module	UD
TASK	code	C10001668		Location	Onshore Activities	User	Rosetti Marino Quality Control
FORM	Process	MC	Activity CCK	Discipline	ATEX	Form	CJX01
							Hazardous Area Equipment Detailed Inspection

Extra Ex n (nR, nL) checks				
67	All Terminals are Ex n certified (if required on certificate)	x	NA	
68	Hermetically sealed and enclosed break devices are undamaged	x	NA	
69	Restricted breathing properties satisfactory (conduct vacuum test)	x	NA	
70	Test port, if fitted, is functional (type “nR” only)	x	NA	
71	Breathing operation is satisfactory (type “nR” only)	x	NA	
72	Motor fans have sufficient clearance to the enclosure and/or covers, cooling systems are	x	NA	
73	The ventilation airflow is not impeded	x	NA	
74	Insulation resistance (IR) of the motor windings is satisfactory	x	NA	
75	Motor protection devices operate within the permitted tE or tA time limits.	x	NA	
76	Variable voltage/frequency installation complies with documentation	x	NA	
Extra Ex p checks				
77	Pressurization gas is correct type	x	NA	
78	Actual pressure is within maximum and minimum settings for equipment	x	NA	
79	Timers set as per certification documentation	x	NA	
80	Alarms and trip functions operate correctly as per certification documentation	x	NA	
81	Fault loop impedance (TN systems) or earthing resistance (IT systems) is satisfactory	x	NA	
82	Automatic electrical protective devices operate within permitted limits	x	NA	
83	Automatic electrical protective devices are set correctly	x	NA	
84	Protective gas inlet temperature is below maximum specified	x	NA	
85	Ducts, pipes and enclosures are in good condition	x	NA	
86	Protective gas is substantially free from contaminants	x	NA	
87	Protective gas pressure and/or flow is adequate	x	NA	
88	Pressure and/or flow indicators, alarms and interlocks function correctly	x	NA	
89	Conditions of spark and particle barriers of ducts for exhausting the gas in hazardous area are satisfactory	x	NA	
90	Specific conditions of use (if applicable) are complied with		NA	
Extra Ex i (Intrinsically Safe – IS) checks				
91	Equipment has adequate circuit identification for ‘IS’ Installation	x	NA	
92	Cables are installed in accordance with the documentation	x	NA	
93	Segregation is maintained between IS and non-IS Circuits	x	NA	
94	Cable screens are isolated at one end (field side)	x	NA	
95	Cable screens are earthed in accordance with the documentation	x	NA	
96	Safety barrier units, relays and other energy limiting devices are of the approved type, installed in	x	NA	
97	Equipment installed is the one specified in the documentation	x	NA	
98	Ambient temperature range of the apparatus is correct for the installation	x	NA	
99	Service temperature range of the apparatus is correct for the installation	x	NA	
100	Installation is clearly labelled	x	NA	
101	Printed circuit boards are clean and undamaged	x	NA	
102	The maximum voltage Um of the associated apparatus is not exceeded	x	NA	
103	Point-to-point connections are all correct	x	NA	
104	Earth continuity is satisfactory (e.g. connections are tight, conductors are of sufficient cross-section)	x	NA	
105	Earth connections maintain the integrity of the type of protection	x	NA	
106	Intrinsically safe circuit earthing is satisfactory	x	NA	
107	Insulation resistance is satisfactory	x	NA	
108	Short-circuit protection of the power supply is in accordance with the documentation	x	NA	

	BARRIER:	**Manufacturer:**	NA	**Model:**	NA		
		Authority:	NA	**Cert No:**	NA	**Type:**	NA

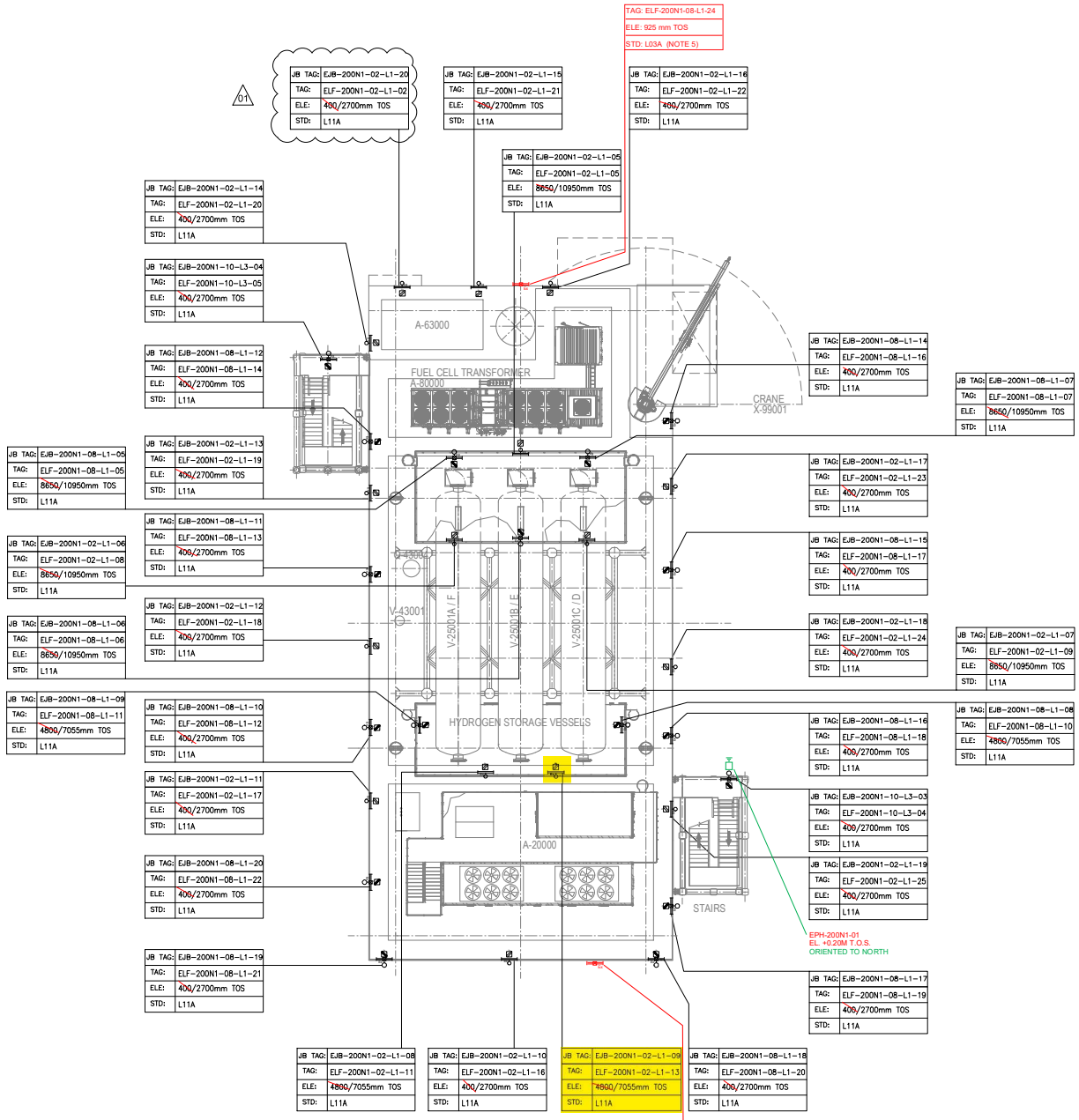
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Please mark only one box as appropriate	
●	**Passed - Complete**
	Failed

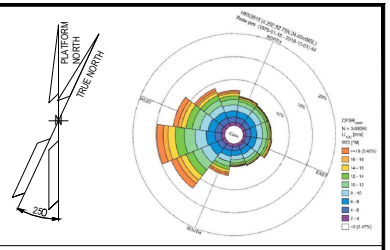
Page 3/3	Performed by	☐ WITNESS ☐ REVIEW	☐ WITNESS ☐ REVIEW
Company	ICS IMPIANTI	RM(ROSETTI MARINO)	
Name	Francesco Zucca	Andrea Andreani	
Date	2024-12-11	2025-01-13	
Signature	PROVERLIS Digitaly signed by Francesco Zucca 2024-12-11T15:27:08.723Z	PROVERLIS Digitaly signed by Andrea Andreani 2025-01-13T14:47:12.445Z	

DRAWING NO. 123A90-DDL-EL-DL-20118

REV. 01



PLAN ON UPPER DECK
EL+30.310 T.O.S.



NOTES

1. ALL DIMENSIONS AND ELEVATIONS ARE GIVEN IN mm UNLESS OTHERWISE NOTED.
2. ELEVATIONS REFER TO T.O.S.
3. ELEVATION OF THE LAMPS ARE REFFERED TO THE BOTTOM OF THE LAMP.
4. FOR THE ELEVATION OF JB, REFER TO THE TYPICAL INSTALLATION.
5. FOR ELF-200N1-08-L1-24 AND ELF-200N1-08-L1-25 CONSTRUCTION DETAILS REFER TO DOC. 123A90-DDL-ST-DD-90076

LEGEND

- EMERGENCY LIGHTING JB
- 60W LED EMERGENCY LUMINARIES
- 60W LED EMERGENCY LUMINARIES FIXTURE POLE MOUNTED
- NORMAL LIGHTING JB
- 45W LED NORMAL LUMINARIES
- 45W LED NORMAL LUMINARIES FIXTURE POLE MOUNTED
- WELDING SOCKET WITH INTEGRATED JB
- SMALL POWER SOCKET WITH INTEGRATED JB
- TWILIGHT RELAY SENSOR

JB TAG: — JB-TAG
TAG: — TAG
ELE: — ELEVATION
STD: — STANDARD

REFERENCE DOCUMENTS

123A90-DDL-PP-DL-70070	PLOT PLAN - LOWER & UPPER DECK
123A90-DDL-EL-DL-20100	ELECTRICAL EQUIPMENT LAYOUT - TOP DECK
123A90-DDL-EL-DD-20091	ELECTRICAL TYPICAL INSTALLATION DETAILS - LIGHTING SYSTEM
123A90-DDL-EL-DD-20092	ELECTRICAL TYPICAL INSTALLATION DETAILS - POWER SYSTEM & CABLE INSTALLATION
123A90-DDL-EL-RE-20153	LIGHTING CALCULATION STUDY REPORT
123A90-DDL-ST-DD-90076	IDENTIFICATION PANELS ASSEMBLY AND DETAILS

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	02/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	28/05/24	ASR	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DL-20118**

REV.:	DATE:	SIGNATURE:
1_F	26/11/24	G.Randi

ROSETTI MARINO SpA

CROSSWIND

ROSETTI MARINO

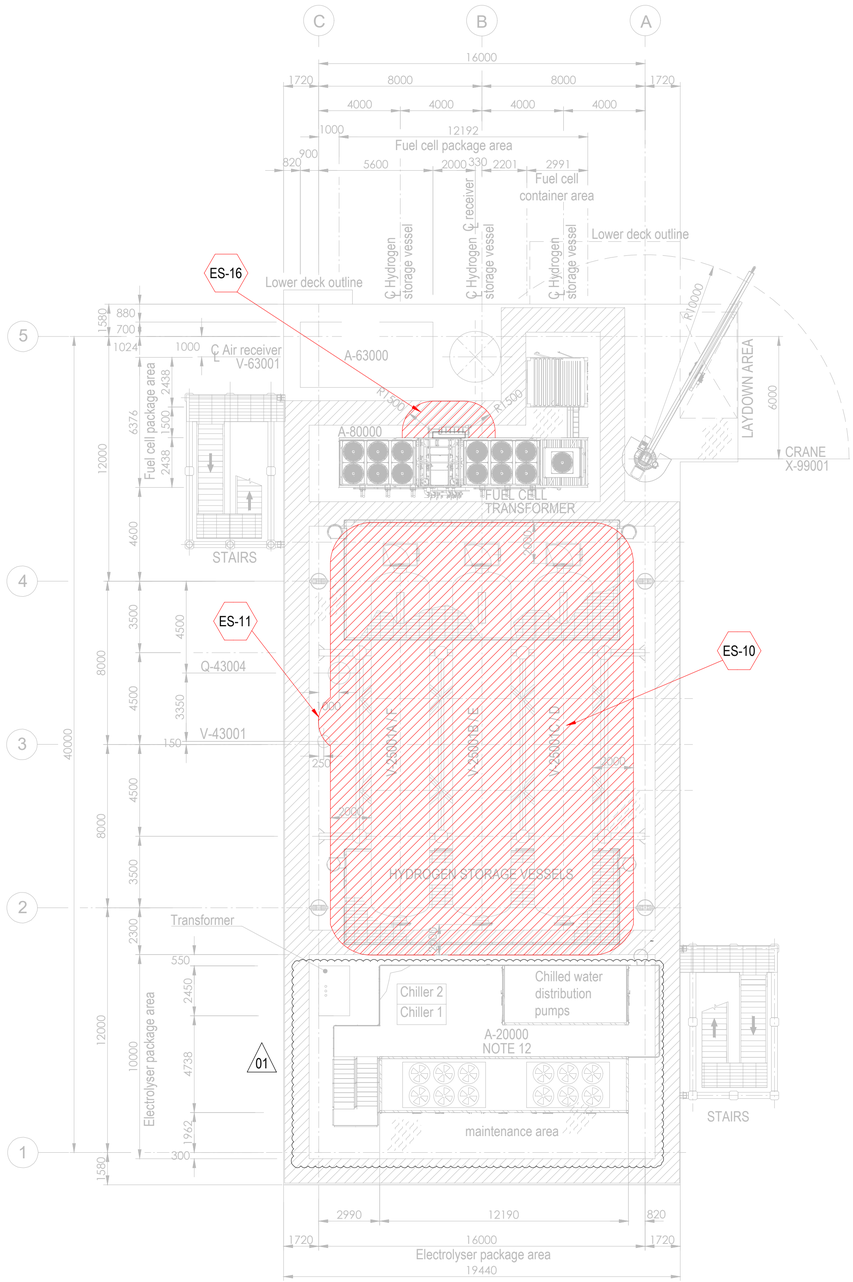
TITLE : BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET LAYOUT – TOP DECK

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK			SCALE 1:150
DRAWN ASR	CHECKED FMA/AMA	APPROVED FPA/DLO	DATE 01/08/24
A1	DRAWING NO. 123A90-DDL-EL-DL-20118	SHEET 1of2	REV. 01

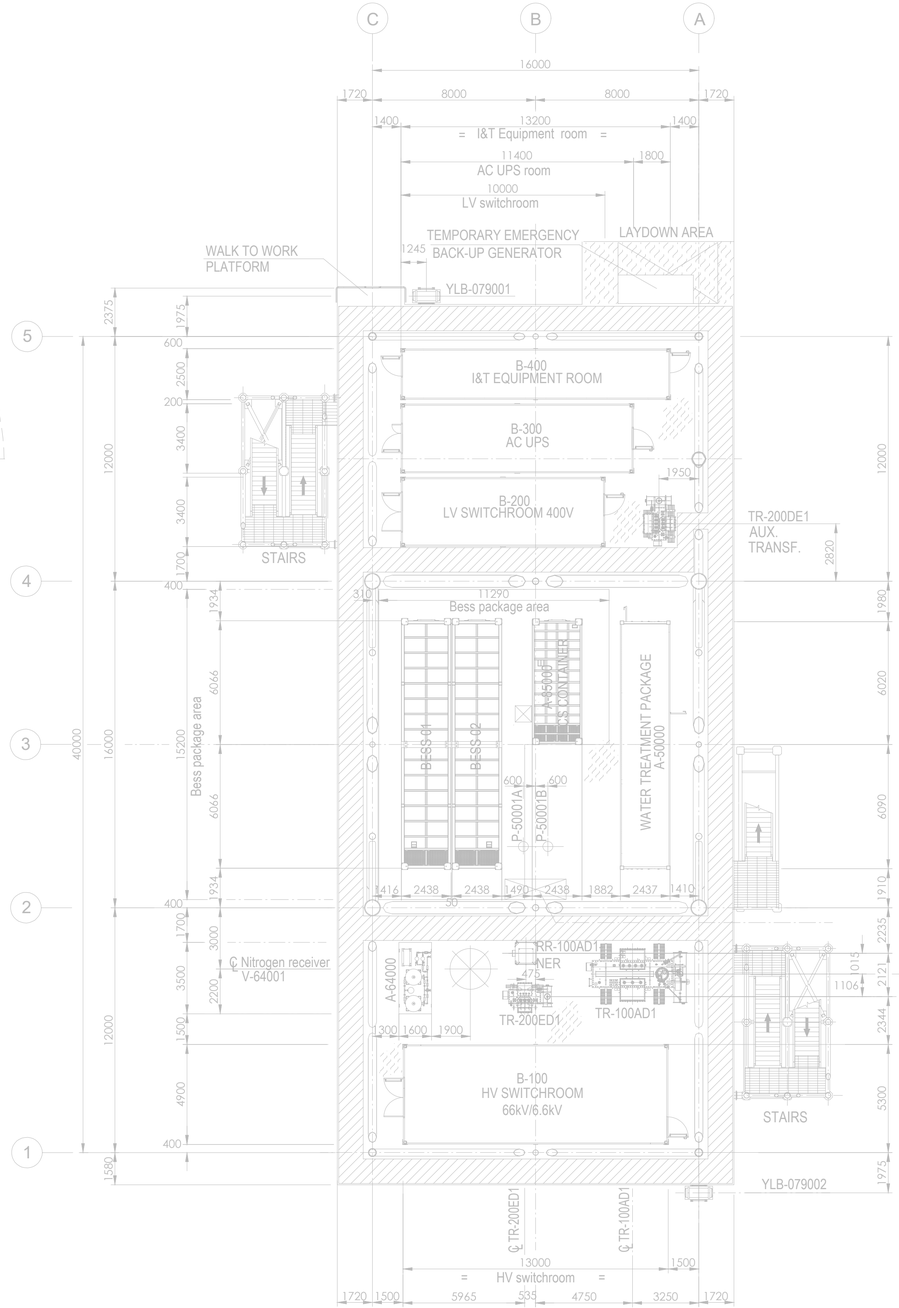
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REV. 01



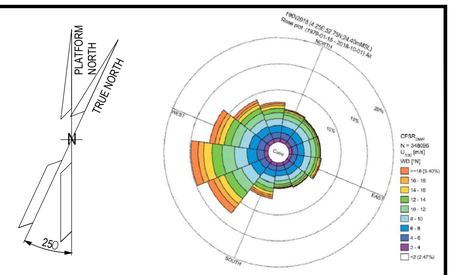
PLAN ON UPPER DECK
EL+30.310 T.O.S.



PLAN ON LOWER DECK
EL+23.310 T.O.S.

Tag No.	Equipment Tag	Description	Material	Ventilation Type
01	P-50001 A/B	SEA WATER LIFT PUMPS	SEA WATER	NATURAL (OPEN AREA)
02	Q-43004	HYDROGEN VENT	HYDROGEN	NATURAL (OPEN AREA)
03	V-43001	HYDROGEN VENT KO DRUM	HYDROGEN	NATURAL (OPEN AREA)
04	V-25001 (A/B/C/D/E/F)	HYDROGEN STORAGE VESSELS	HYDROGEN	NATURAL (OPEN AREA)
05	V-63001	AIR RECEIVER	INSTRUMENT AIR	NATURAL (OPEN AREA)
06	A-20000	ELECTROLYSER PACKAGE		
07	A-63000	INSTRUMENT AIR PACKAGE		
08	A-80000	FUEL CELL PACKAGE		
09	A-85000	BESS PACKAGE		
10	YLB-079001/2	LIFE RAFTS		
11	A-50000	WATER TREATMENT PACKAGE		

Tag No.	Equipment Tag	Description	Material	Ventilation Type
12	A-64000	NITROGEN SYSTEM		
13	B-100	HV SWITCHROOM 66kV/6.6kV		
14	B-200	LV SWITCHROOM 400V		
15	B-300	AC UPS EQUIPMENT ROOM		
16	B-400	I&T EQUIPMENT ROOM		
17	TR-100AD1	TRANSFORMER MAIN 66kV/6.6kV		
18	RR-100AD1-NER	NEUTRAL EARTHING RESISTOR		
19	TR-200DE1	TRANSFORMER AUX. 6.6kV/0.4kV		
20	TR-200ED1	SOLAR TRANSFORMER PV FARM EQUIPMENT		
21	X-99001	CRANE		
22	V-64001	NITROGEN RECEIVER		



1. ALL DIMENSIONS IN mm U.N.O
2. ALL ELEVATIONS IN METERS.
3. PLATFORM NORTH DIRECTION IS N 25°W.
4. VENT TOP SHALL BE REACHEABLE FOR MAINTENANCE PURPOSE.
5. THE BESS IS CONSIDERED SAFE AREA EXCEPT EXTRACTORES FROM BATTERIES , CURRENTLY NOT SHOWN IN DRAWINGS, SINCE INFORMATION FROM VENDOR IS NOT YET AVAILABLE.[ES17]
6. THE LOCATION OF EMISSION SOURCES ON THE LAYOUT ARE ONLY INDICATIVE. EMISSION SOURCES CONSIDERED ARE PRESENT WITHIN THE EXTENSION OF HAZARDOUS CLASSIFIED AREAS SHOWN ON THE LAYOUT. THIS IS BECAUSE VALVES AND FLANGES,WHICH ARE CONSIDERED POTENTIAL SOURCES OF RELEASE POINTS FOR FLAMMABLE GAS ARE NOT SHOWN ON CURRENT LAYOUT PROVIDED. THE SAME APPLIES TO THE EMISSION SOURCES FOR CPI'S ITEM.
7. IDENTIFIED EMISSION SOURCES DETAIL

EMISSION SOURCE No.	IDENTIFIED AREAS
ES10	HYDROGEN STORAGE VESSLES
ES11	HYDROGEN VENT KO DRUM
ES16	FUEL CELL

01

ZONE 0 | ZONE 1 | ZONE 2 | ES EMISSION SOURCES

01

01

123A90-DDL-PP-DS-70071	PLOT PLAN - BELOW LOWER DECK
123A90-DDL-PP-DS-70072	PLOT PLAN - ELEVATION LOOKING NORTH & EAST

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	27/08/24	MMA	CCA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	08/02/24	MMA	CCA	DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND

ROSETTI MARINO

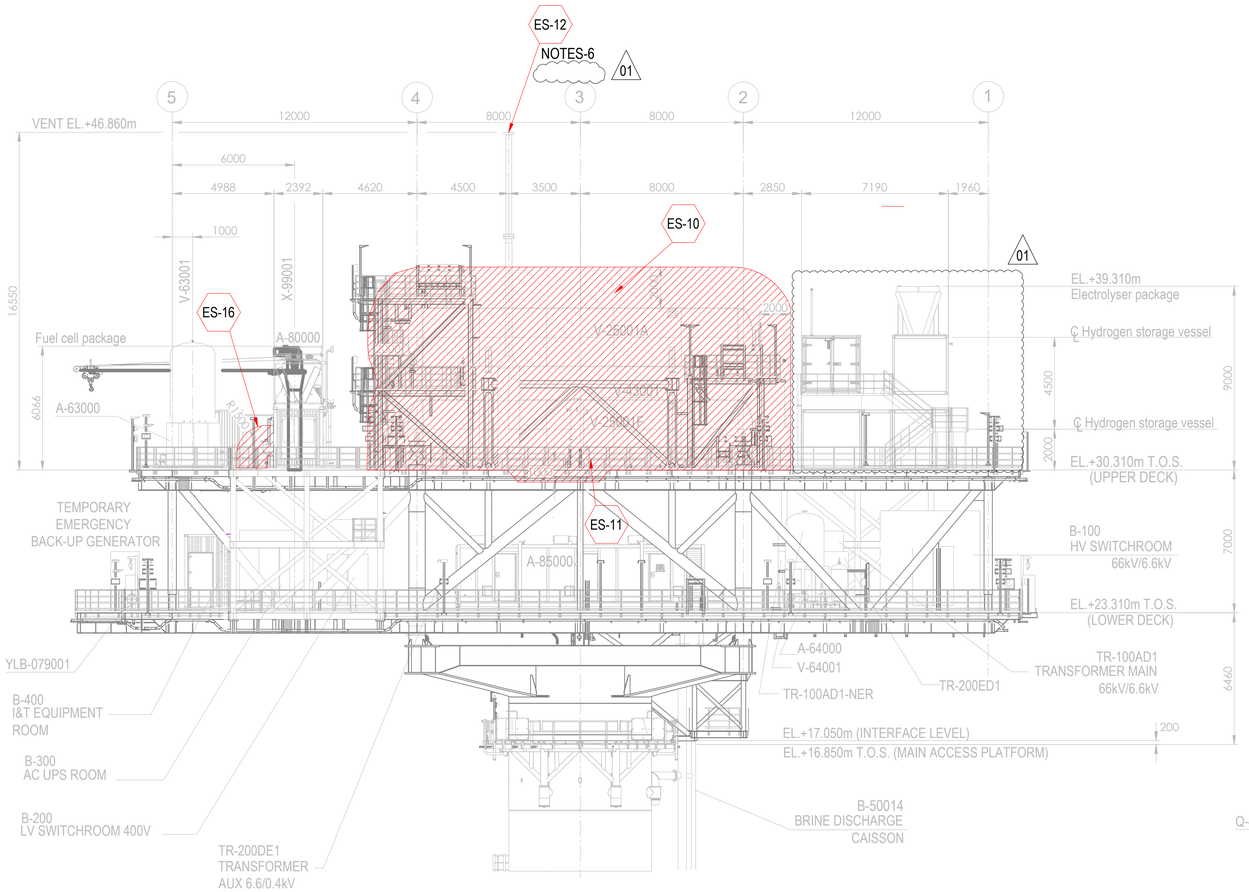
TITLE : BASE LOAD POWER HUB (BLPH)
HAZARDOUS AREA CLASSIFICATION
LOWER & UPPER DECK

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK		SCALE 1:150
DRAWN M. MAGNI	CHECKED C. CARACCIOLO	APPROVED D. LO STERZO	DATE 03/07/24
A1	DRAWING NO. 123A90-DDL-SAF-DL-30022	SHEET 001	REV. 01

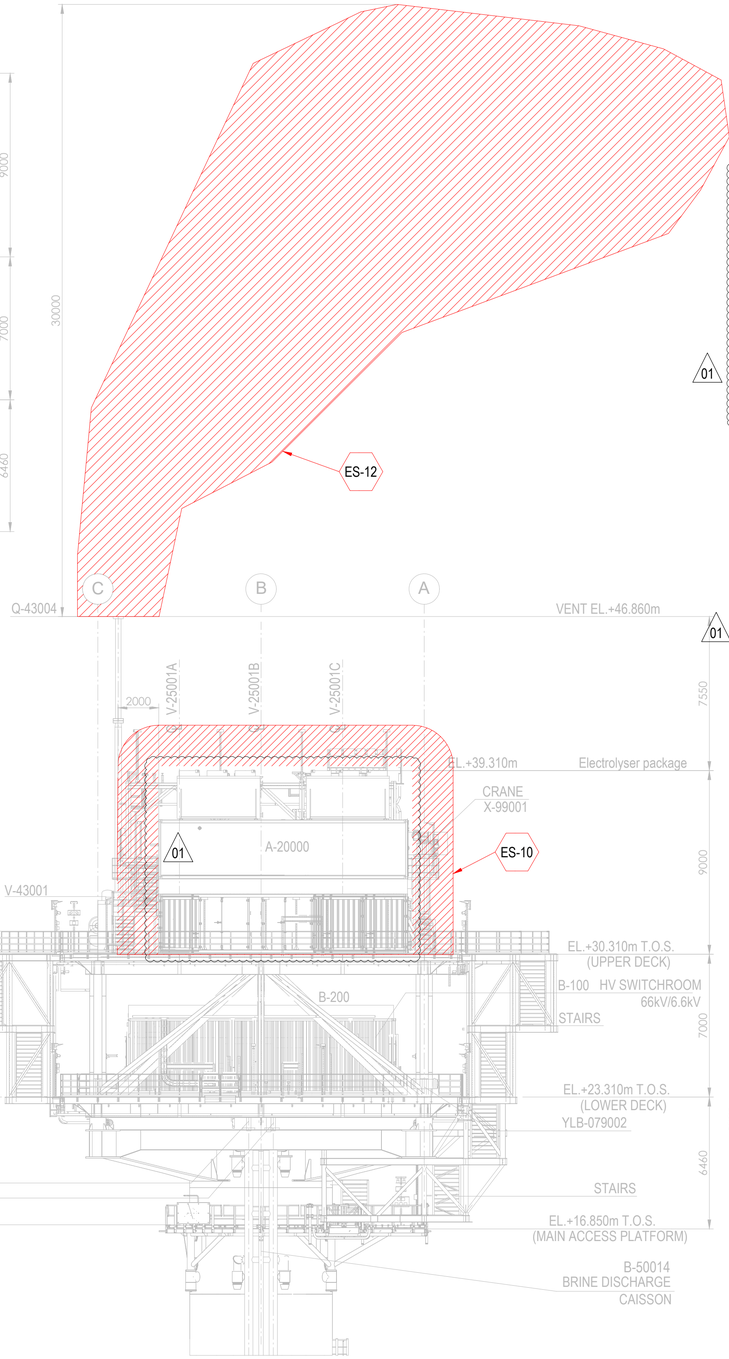
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DRAWING NO. 123A90-DDL-SAF-DL-30024

REV. 01



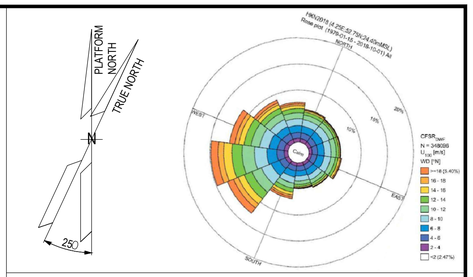
ELEVATION LOOKING EAST



ELEVATION LOOKING NORTH

01

Tag No.	Equipment Tag	Description	Material	Ventilation Type
01	P-50001 A/B	SEA WATER LIFT PUMPS	SEA WATER	NATURAL (OPEN AREA)
02	Q-43004	HYDROGEN VENT	HYDROGEN	NATURAL (OPEN AREA)
03	V-43001	HYDROGEN VENT KO DRUM	HYDROGEN	NATURAL (OPEN AREA)
04	V-25001 (A/B/C/D/E/F)	HYDROGEN STORAGE VESSELS	HYDROGEN	NATURAL (OPEN AREA)
05	V-63001	INSTRUMENT AIR RECEIVER	INSTRUMENT AIR	NATURAL (OPEN AREA)
06	A-20000	ELECTROLYSER PACKAGE		
07	A-63000	INSTRUMENT AIR PACKAGE		
08	A-80000	FUEL CELL PACKAGE		
09	A-85000	BESS PACKAGE		
10	YLB-079001/2	LIFE RAFTS		
11	B-100	HV SWITCHROOM 66kV/6.6kV		
12	B-200	LV SWITCHROOM 400V		
13	B-300	AC UPS EQUIPMENT ROOM		
14	B-400	I&T EQUIPMENT ROOM		
15	TR-100AD1	TRANSFORMER MAIN 66kV/6.6kV		
16	TR-100AD1-NER	NEUTRAL EARTHING RESISTOR		
17	TR-200DE1	TRANSFORMER AUX. 6.6kV/0.4kV		
18	TR-200ED1	SOLAR TRANSFORMER PV FARM EQUIPMENT		
19	X-99001	CRANE		
20	V-64001	NITROGEN RECEIVER		



NOTES

1. ALL DIMENSIONS IN mm U.N.O
2. ALL ELEVATIONS IN METERS.
3. PLATFORM NORTH DIRECTION IS N 25°W.
4. VENT TOP SHALL BE REACHEABLE FOR MAINTENANCE PURPOSE.
5. THE BESS IS CONSIDERED SAFE AREA EXCEPT EXTRACTORES FROM BATTERIES , CURRENTLY NOT SHOWN IN DRAWINGS, SINCE INFORMATION FROM VENDOR IS NOT YET AVAILABLE.[ES17]
6. (ES12) IS SHOWN ONLY ON ELEVATION LOOKING NORTH ON THIS LAYOUT
7. THE LOCATION OF EMISSION SOURCES ON THE LAYOUT ARE ONLY INDICATIVE. EMISSION SOURCES CONSIDERED ARE PRESENT WITHIN THE EXTENSION OF HAZARDOUS CLASSIFIED AREAS SHOWN ON THE LAYOUT. THIS IS BECAUSE VALVES AND FLANGES,WHICH ARE CONSIDERED POTENTIAL SOURCES OF RELEASE POINTS FOR FLAMMABLE GAS ARE NOT SHOWN ON CURRENT LAYOUT PROVIDED. THE SAME APPLIES TO THE EMISSION SOURCES FOR CPI'S ITEM.
8. IDENTIFIED EMISSION SOURCES DETAIL

EMISSION SOURCE No.	IDENTIFIED AREAS
ES10	HYDROGEN STORAGE VESSLES
ES11	HYDROGEN VENT KO DRUM
ES12	HYDROGEN VENT
ES16	FUEL CELL

01

LEGEND

ZONE 0 | ZONE 1 | ZONE 2 | ES EMISSION SOURCES

01

REFERENCE DOCUMENTS

123A90-DDL-PP-DS-70070	PLOT PLAN - LOWER & UPPER DECK
123A90-DDL-PP-DS-70071	PLOT PLAN - BELOW LOWER DECK

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	27/08/24	MMA	CCA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	08/02/24	MMA	CCA	DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND | ROSETTI MARINO

TITLE :
BASE LOAD POWER HUB (BLPH)
HAZARDOUS AREA CLASSIFICATION
ELEVATION LOOKING NORTH & EAST

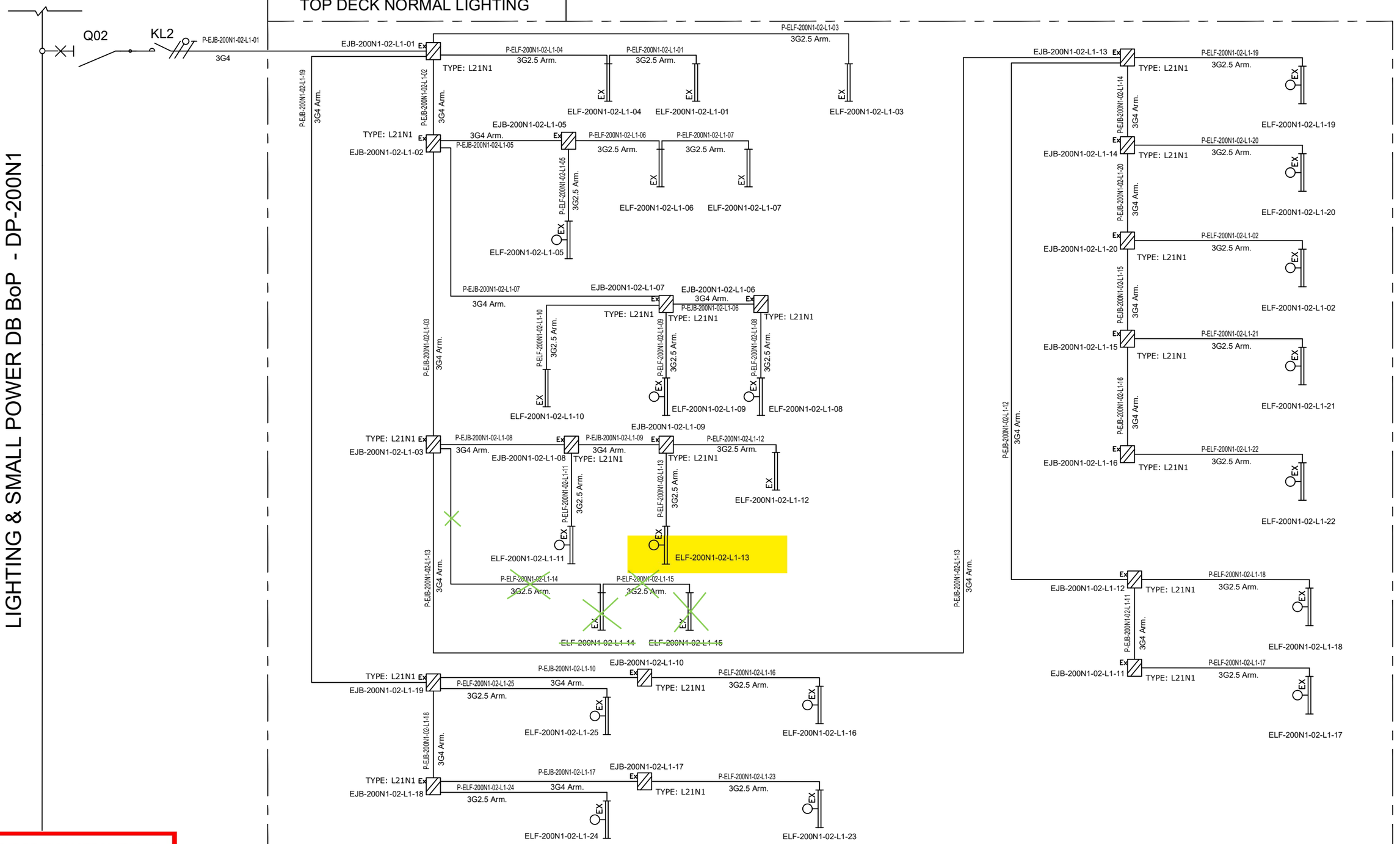
CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK			SCALE 1:150
DRAWN M. MAGNI	CHECKED C. CARACCIOLO	APPROVED D. LO STERZO	DATE 03/07/24

A1	DRAWING NO. 123A90-DDL-SAF-DL-30024	SHEET 001	REV. 01

File Name : 123A90-DDL-SAF-DL-30024 Rev.01

LIGHTING & SMALL POWER DB BoP - DP-200N1

TOP DECK NORMAL LIGHTING



VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DG-20125**

REV.:	DATE:	SIGNATURE:
2_E	09/01/25	V.Ramponi

ROSETTI MARINO SpA

CROSSWIND

ROSETTI MARINO

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	08/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	01/07/24	ASR	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

TITLE : BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET CIRCUIT DIAGRAM
TOP DECK–NORMAL LIGHTING

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE : NTS

A3

DRAWING NO. 123A90–DDL–EL–DG–20125

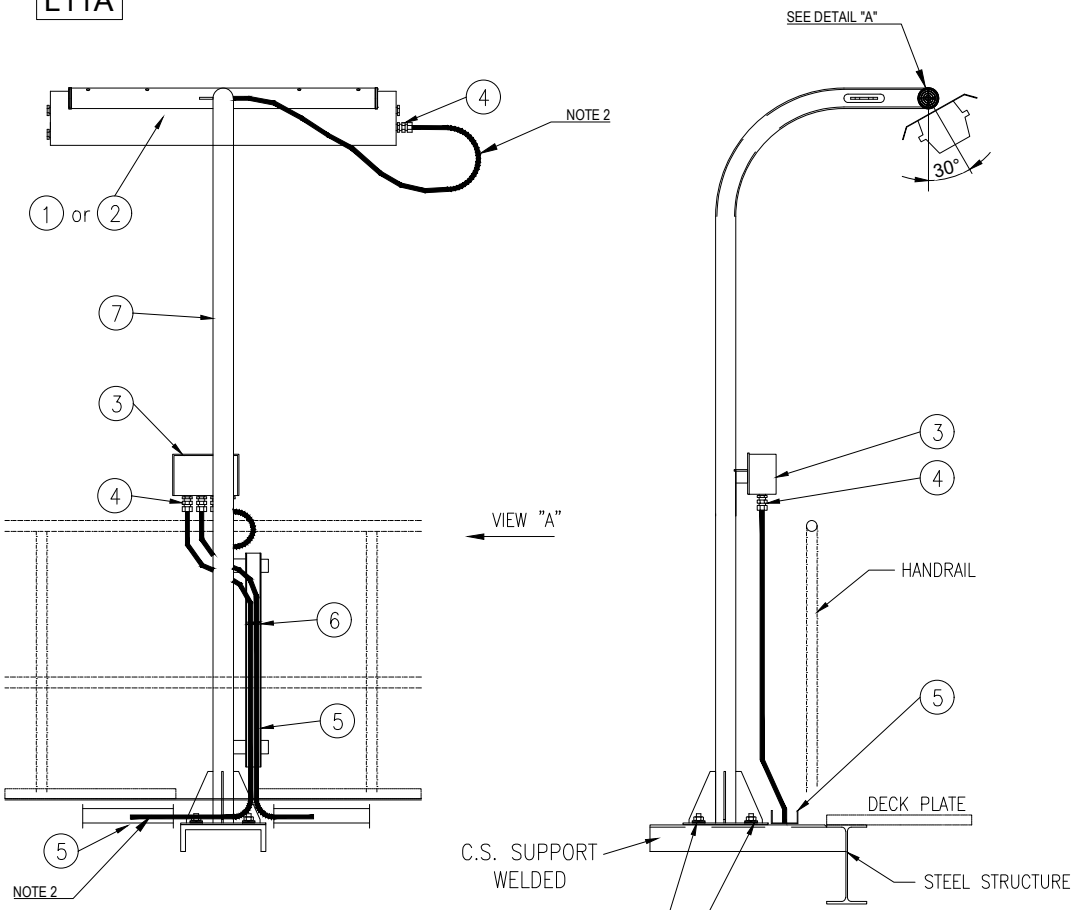
SHEET 010

REV. 01

F.to UNI A3: 420mmx297mm

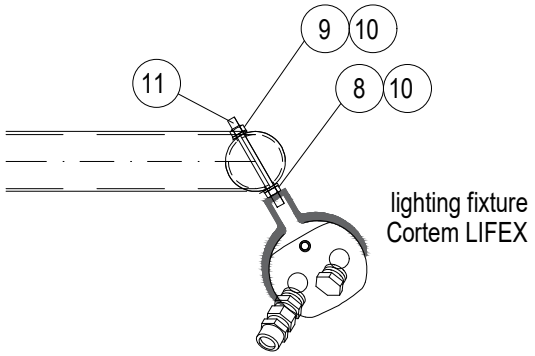
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L11A



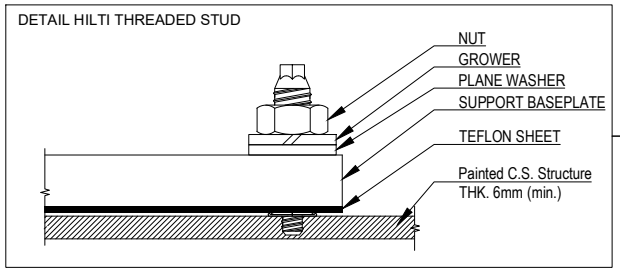
VIEW "A"

POS.	DESCRIPTION	MATERIAL	SIZE	Q.TY	NOTE
1	42W LED LUMINARIES	ALUMINIUM ALLOY		1	
2	45W LED LUMINARIES C/W BATTERY	ALUMINIUM ALLOY		1	
3	JUNCTION BOX (Ex)	GRP		1	NOTE 1
4	CABLE GLAND ~~C/W EARTH TAG,~~ WASHERS, LOCKNUT AND WEATHERPROOF WASHERS	BRASS NICKEL PLATED		AS REQ.	
5	CABLE TRAY	AISI 316L			
6	STAINLESS STEEL NYLON COATED CABLE TIE	SS NYLON COATED			
7	POLE SUPPORT FOR LAMP	AISI 316L	2"		
8	NUT	AISI 316L	M8		
9	SELF.LOCKING NUT	AISI 316L	M8		
10	LARGE PLANE WASHER (24mm DIAM.)	AISI 316L	M8		
11	THREADED ROD M8x100	AISI 316L	M8		



DETAIL "A"

SUPPORT BOLTED ON HILTI S-BT INSTALLED ON WELDED BEAM:



VALID FOR CONSTRUCTION

REV.:	DATE:	SIGNATURE:
2_B	12/12/24	C.Pilato

ROSETTI MARINO SpA

NOTES:

1) FOR LAMPS IN HAZARDOUS AREA, USE ARMOURED CABLE, DOUBLE SEAL CABLE GLAND AND EX JUNCTION BOX.

2) ALWAYS ENSURE CABLE LENGTH IS >3m

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	30/09/24	GRA	AMA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	04/07/24	NLK	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	21/11/23	SPS	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

02

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL TYPICAL INSTALLATION DETAILS-LIGHTING SYSTEM
LIGHTING FIXTURE MOUNTED ON POLE

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK | SCALE : NTS

A3 | DRAWING NO. 123A90-DDL-EL-DD-20091 | SHEET 014 | REV. 02

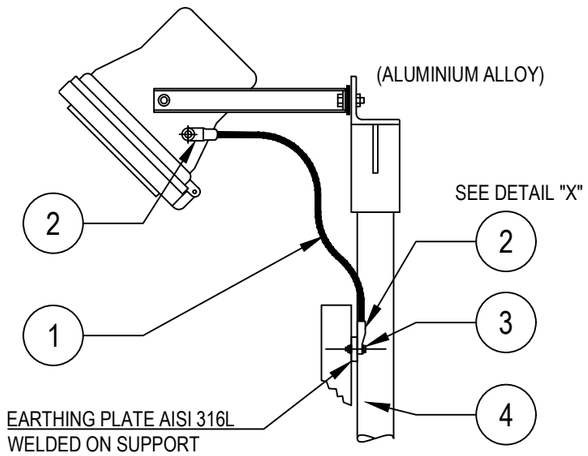
F.to UNI A3: 420mmx297mm

File Name : 123A90-DDL-EL-DD-20091 REV.02.DWG

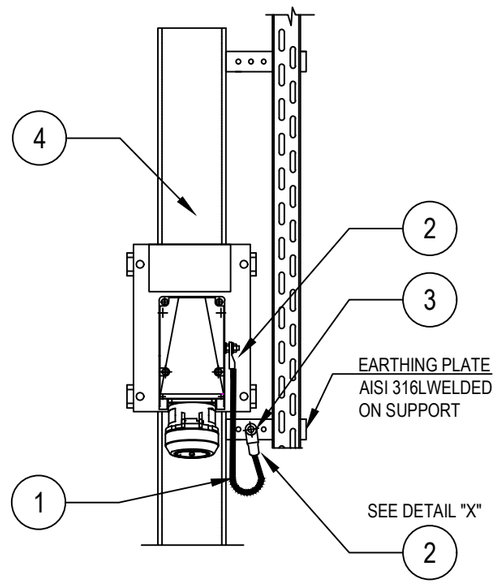
E05

POS.	DESCRIPTION	MATERIAL	SIZE	Q.TY	NOTE
1	Y/G INSULATING COPPER CONDUCTOR	COPPER	$6mm^2$		
2	COMPRESSION TYPE LUG FOR INSULATION COPPER CONDUCTOR	TINNED COPPER	$6mm^2$	2	
3	HEXAG. BOLTS, PLANE WASHERS, SPRING WASHER AND NUT	AISI 316L	M8X30	1	

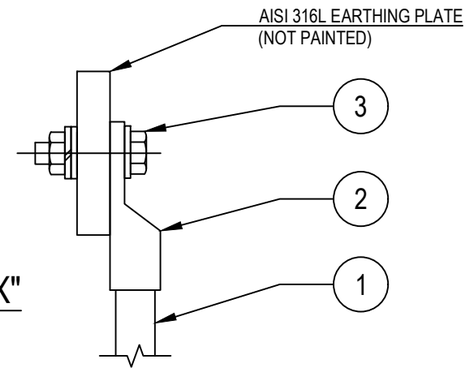
LIGHTING FIXTURE/GENERAL ITEM ON POLE



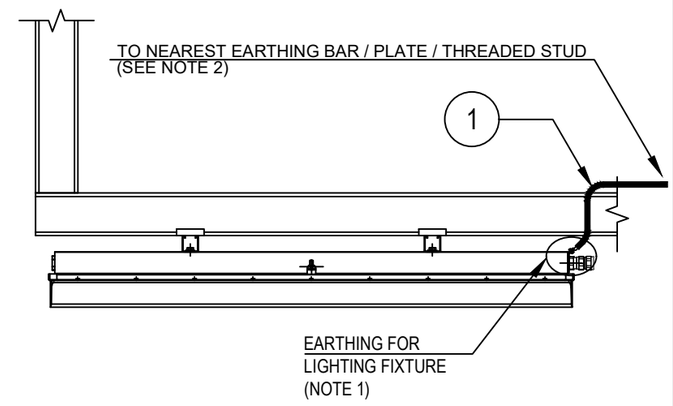
POWER SOCKET OUTLET



DETAIL "X"



LIGHTING FIXTURES



Refer also to TYP. "E32" (SEE SHEET 23)

TYPICAL VALID ALSO FOR NAVAID LIGHTS

NOTES:

1) ALL LIGHTING FIXTURES AND RELEVANT ARMOUR OF THE CABLE, ARE CONNECTED TO EARTH CONNECTION THROUGH THE EARTHING TAG OF THE CABLE GLAND

2) FOR EARTHING POINT USE ONE OF THE FOLLOWING METHODS:
TYP. E03A-D sh. 004 (EARTHING BAR ON STRUCT. UNISTRUT AND CABLE TRAY)
TYP. E11C sh. 003 (EARTHING PLATE)
TYP. E11D sh. 003 (THREADED STUD ON EXTERNAL STRUCTURE)

VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DD-20090**

REV.:	DATE:	SIGNATURE:
2_H	05/11/24	G.Randi

ROSETTI MARINO SpA

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	26/08/24	GRA	AMA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	10/06/24	SPS	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	21/11/23	SPS	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL TYPICAL INSTALLATION DETAILS–EARTHING SYSTEM
EARTHING FOR ELECTRICAL EQUIPMENTS

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK | SCALE : NTS

A3 | DRAWING NO. 123A90-DDL-EL-DD-20090 | SHEET 006 | REV. 02

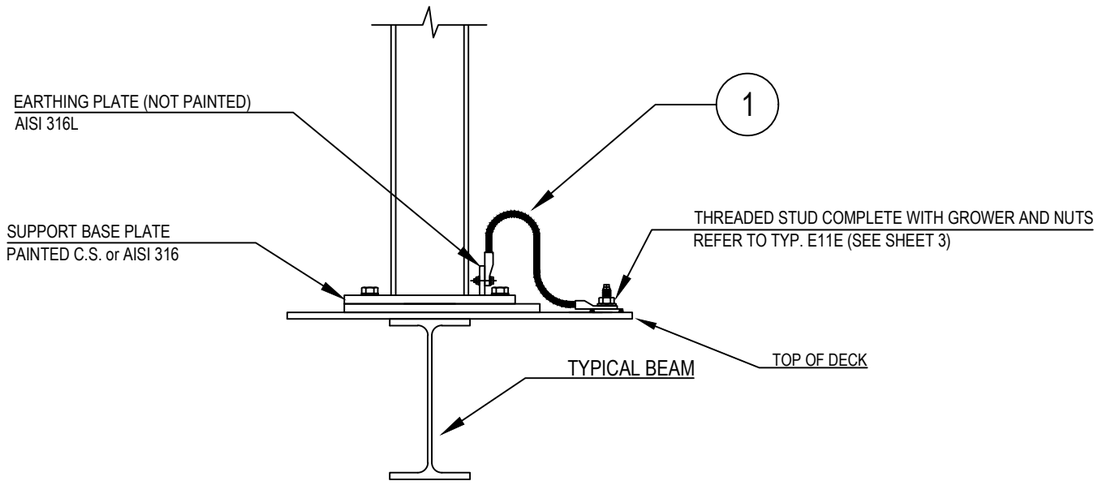
F.to UNI A3: 420mmx297mm

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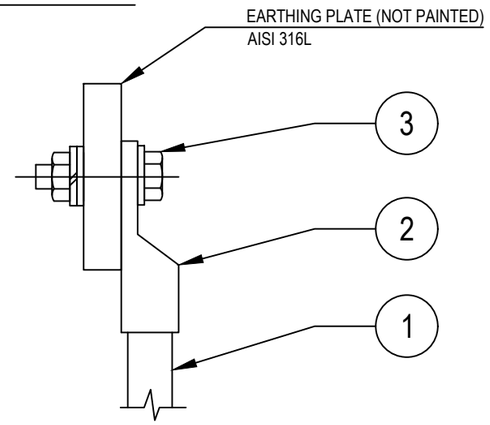
E24

POS.	DESCRIPTION	MATERIAL	SIZE	Q.TY	NOTE
1	As. R. Y/G INSULATING COPPER CONDUCTOR	COPPER	$35mm^2$		
2	COMPRESSION TYPE LUG FOR INSULATION COPPER CONDUCTOR	TINNED COPPER	$35mm^2$	2	~~NOTE 1~~
3	HEXAG. BOLT M10X30 COMPLETE WITH PLANE WASHERS, SPRING WASHER AND NUT	AISI 316L	M10X30	2	

GENERIC SUPPORT BOLTED ON STRUCTURE



DETAIL "X"



NOTES:
1) ~~CABLE LUG CRIMPING METHOD SHALL BE HEXAGONAL COMPRESSION DIES ONLY.~~
2) EXTERNAL EARTHING CONNECTION ONLY SHALL BE PROTECTED AGAINST CORROSION USING OXIDE RESISTANT COMPOUND (E.G. COPPER GREASE)

VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DD-20090**

REV.:	DATE:	SIGNATURE:
2_H	05/11/24	G.Randi

ROSETTI MARINO SpA

CROSSWIND

ROSETTI MARINO

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	26/08/24	GRA	AMA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	10/06/24	SPS	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	21/11/23	SPS	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL TYPICAL INSTALLATION DETAILS–EARTHING SYSTEM
EARTHING FOR POLE/SUPPORT OF GENERIC EQUIPMENTS

CONTRACT NO./TITLE CW–I–WP4–2023–05/HOLLANDSE KUST NOORD WIND PARK | SCALE : NTS

A3	DRAWING NO.	SHEET	REV.
	123A90–DDL–EL–DD–20090	012	02

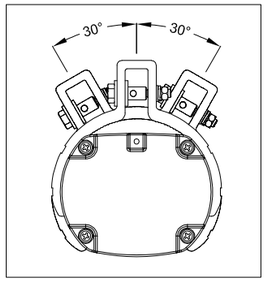
F.to UNI A3: 420mmx297mm

File Name : 123A90-DDL-EL-DD-20090 REV.02.DWG

MODEL C-225 REV.1

GENERAL NOTE:
- PO: 1724001290 DD 26/06/2024
- ITEM.: 1
- Q.TY: 57
- EXTERNAL PAINTING: RAL 7022 (END CAPS)
- INTERNAL PAINTING: NOT PAINTED
- ALL DIMENSIONS ARE IN mm

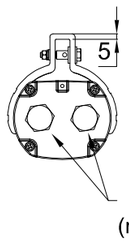
STANDARD FIXING BRACKET
FASTENING WITH 2 THREADED M8
HOLES, ADJUSTABLE FROM 0° TO ±30°



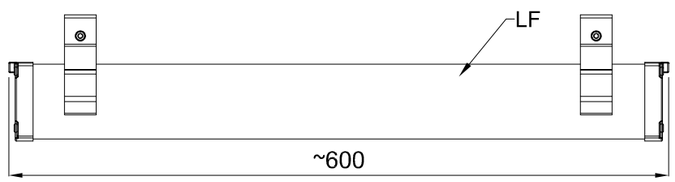
LF INFORMATION	
NOMINAL POWER	45W
CONSUMED POWER	43,5W
POWER FACTOR	>0,93
RATED CURRENT	200 mA
VIEWING ANGLE	120°
COLOUR TEMP.	5000 K
CRI	>80
INSTANT RESTRIKE	YES
LUMEN	6200 lm
LIGHT INTENSITY	2248 cd
EFFICIENCY	143 lm/W
WEIGHT	2,5 Kg
IP PROTECTION	IP66

N°	Q.TY	CODE	DESCRIPTION
LF	1	LIFEX-ME-0645-BB	110-277Vac 50-60Hz 45W LED LINEAR LIGHTING FIXTURE BODY: ALUMINUM ALLOY EXTRUSION AND ALUMINUM END CAPS TRANSPARENT PART: GLASS RESISTANT TO SHOCKS, UV RAYS AND IMPACT RESISTANCE IK09 GASKETS: ACID AND HYDROCARBON RESISTANT SILICONE ASSEMBLY: FASTENING BRACKETS FOR M8 HOLES, ADJUSTABLE 0° TO ±30° MADE IN ANODIZED ALUMINUM CONNECTION: TERMINAL BLOCK ON SIDE (IN) L, N, PE CROSS SEC. MAX. 4mmq SUITABLE FOR LOOP-IN LOOP-OUT SCREWS, BOLTS AND NUTS: STAINLESS STEEL 304
PG1	4	PLG1IB +DL1IB +RDI1IS/A4	IP66 Ex db IIC Gb - Ex eb IIC Gb NICKEL PLATED BRASS PLUG ISO M20x1,5 WITH RELEVANT LOCKNUT AND SERRATED WASHER MADE IN STAINLESS STEEL

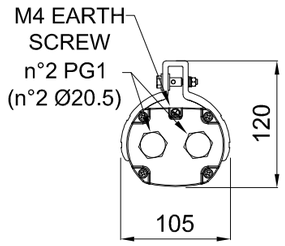
LEFT SIDE (OUT)



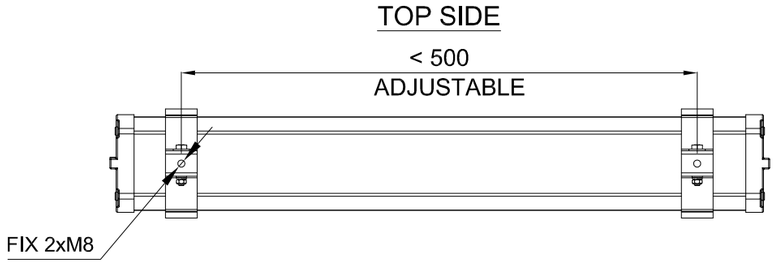
FRONT SIDE



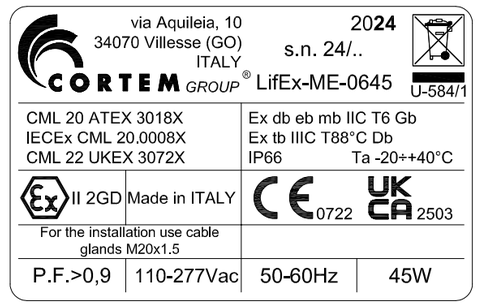
RIGHT SIDE (IN)



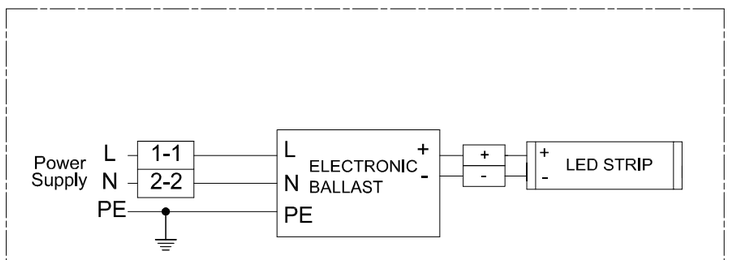
TOP SIDE



CERTIFICATE NAMEPLATE



WIRING DIAGRAM



REV.	DATE	PREP'D	CHK'D	APP'D	DESCRIPTION
2	09/07/2024	FRATTARUOLO	GIUSTI	GRATTON	REISSUED FOR APPROVAL
1	05/07/2024	FRATTARUOLO	GIUSTI	GRATTON	REISSUED FOR APPROVAL
0	28/06/2024	FRATTARUOLO	GIUSTI	GRATTON	ISSUED FOR APPROVAL

DRAWING TITLE: ROSETTI MARINO S.P.A.

CORTEM S.p.a.
GENERAL LAYOUT
001 LIFEX-ME-0645-BB/C2402693/10.

CORTEM JOB: COV2402693
DRAWING SCALE: /
DRAWING NUMBER: A3-C 27521
SHEET: 1
NEXT: 2
TOT.: 2

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Smart Professional R. 2012

Row	Data Sheet for Lighting Fixtures & Accessories				Rev.
1	42W LED Linear Luminaire-Normal Lighting-ATEX Area				
2	Item	Required	Manufacturer Proposal	Comments	
3	Model Number	by vendor	LIFEX-ME-0645-BB		01
4	Serial Number	by vendor			00
5	Quantity	28 Nos.		(25+3 Spare)	01
6	Location / Module	Upper deck			00
7	**LED Lamp**				
8	Nominal power	42 watts	45 watts		01
9	No. of linear	1	1		01
10	Luminous flux	5810 lm	6200 lm		01
11	Colour Temperature	5000 K	5000 K		01
12	**Protection**				
13	Hazardous Area Certification (Ex)	Zone 1 Gas Group IIC (or) IIB + H2, T1	Ex II 2GD Ex db eb mb IIC Gb Ex tb IIIC Db		01
14	Degree of Protection (IP)	IP 56	IP 66		01
15	ATEX certified	Classification EX db	ATEX CML 20 ATEX 3018X		01
16	**Material**				
17	Body	GRP/Aluminium alloy	Aluminium alloy		01
18	Reflector	GRP/Aluminium	Aluminium		01
19	Diffuser	Polycarbonate/temperate glass	Tempered glass		01
20	**Cable Entry**				
21	No. of cable entry	4 Nos.	4 Entries, 2 per side		01
22	Size	M20	Ø20.5mm		01
23	**Emergency Battery Pack**				
24	Requirement	Not required			00
25	Battery type	Not required			00
26	Autonomy	Not required			00
27	Emergency luminous flux	Not required			00
28	**Mechanical parameters**				
29	Dimension	by vendor	600x105x120(mm)		01
30	Weight	by vendor	2.5kg		01

Note:

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Tag Number	Tag Description	Location	P.O.	Vendor	Manufacturer	Serial Number	Model Type Catalogue Number	Installation Zone	ATEX Certificate Number	Reference Document	ATEX Certification Marking	Notes / Comments	Skid / Package	Electrical Equip.	Barrier Calculation Ref.	Special Conditions of Safe Use Applicable	3D Location
EJB-200N1-08-L1-07	Emergency Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990079	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-08-L1-08	Emergency Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990081	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-08-L1-09	Emergency Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990080	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-08-L1-10	Emergency Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990075	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-08-L1-11	Emergency Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990074	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-08-L1-12	Emergency Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990073	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-08-L1-14	Emergency Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990071	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-08-L1-15	Emergency Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990070	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-08-L1-16	Emergency Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990069	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-08-L1-17	Emergency Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990068	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-08-L1-18	Emergency Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990067	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-08-L1-19	Emergency Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990066	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-08-L1-20	Emergency Lighting JB	UPPER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990076	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-09-L2-01	Emergency Lighting JB	LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990016	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-09-L2-02	Emergency Lighting JB	LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990019	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-09-L2-04	Emergency Lighting JB	LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990017	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-09-L2-05	Emergency Lighting JB	LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990030	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-09-L2-06	Emergency Lighting JB	LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990029	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-09-L2-07	Emergency Lighting JB	LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990028	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-09-L2-08	Emergency Lighting JB	LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990027	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-09-L2-09	Emergency Lighting JB	LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990026	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-09-L2-10	Emergency Lighting JB	LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990025	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-09-L2-11	Emergency Lighting JB	LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990024	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-09-L2-12	Emergency Lighting JB	LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990023	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-09-L2-13	Emergency Lighting JB	LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990022	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-09-L2-14	Emergency Lighting JB	LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990021	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-09-L2-15	Emergency Lighting JB	LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990020	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-09-L2-16	Emergency Lighting JB	LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990031	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-09-L2-17	Emergency Lighting JB	BELOW LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990015	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-10-L3-01	Stair Emergency Lighting JB	LOWER & UPPER DECK STAIRS	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990040	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-10-L3-02	Stair Emergency Lighting JB	LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990039	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-10-L3-03	Stair Emergency Lighting JB	LOWER & UPPER DECK STAIRS	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990041	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-10-L3-04	Stair Emergency Lighting JB	LOWER & UPPER DECK STAIRS	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990042	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-10-L3-05	Stair Emergency Lighting JB	BELOW LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990034	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-10-L3-06	Stair Emergency Lighting JB	BELOW LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990035	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-10-L3-07	Stair Emergency Lighting JB	BELOW LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990036	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-10-L3-08	Stair Emergency Lighting JB	BELOW LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990037	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
EJB-200N1-10-L3-09	Stair Emergency Lighting JB	BELOW LOWER DECK	1724001481	Italsmea	TECHNOR ITALSMEA	24P00297990038	AQ-252612P	ZONE1/21	FIDI 21ATEX 0090X IECEx FIDI 21.0015X	1724001481-EL-DA-00003	Ex eb IIC T6 Gb Ex tb IIIC T85°C Db IP66	N/A	N/A	True	N/A	False	
ELF-200N1-02-L1-01	Normal Lighting Fixture	UPPER DECK	1724001290	Cortem Spa	Cortem Spa	24/86772	LIFEX-ME-0645-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	
ELF-200N1-02-L1-02	Normal Lighting Fixture	UPPER DECK	1724001290	Cortem Spa	Cortem Spa	24/86773	LIFEX-ME-1260N-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	
ELF-200N1-02-L1-03	Normal Lighting Fixture	UPPER DECK	1724001290	Cortem Spa	Cortem Spa	24/86772	LIFEX-ME-0645-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	
ELF-200N1-02-L1-04	Normal Lighting Fixture	UPPER DECK	1724001290	Cortem Spa	Cortem Spa	24/86772	LIFEX-ME-0645-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	
ELF-200N1-02-L1-05	Normal Lighting Fixture	UPPER DECK	1724001290	Cortem Spa	Cortem Spa	24/86772	LIFEX-ME-0645-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	HAZARDOUS-AREA_8
ELF-200N1-02-L1-06	Normal Lighting Fixture	UPPER DECK	1724001290	Cortem Spa	Cortem Spa	24/86772	LIFEX-ME-0645-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	
ELF-200N1-02-L1-07	Normal Lighting Fixture	UPPER DECK	1724001290	Cortem Spa	Cortem Spa	24/86772	LIFEX-ME-0645-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	HAZARDOUS-AREA_8 HAZARDOUS-AREA_3
ELF-200N1-02-L1-08	Normal Lighting Fixture	UPPER DECK	1724001290	Cortem Spa	Cortem Spa	24/86772	LIFEX-ME-0645-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	HAZARDOUS-AREA_8 HAZARDOUS-AREA_3
ELF-200N1-02-L1-09	Normal Lighting Fixture	UPPER DECK	1724001290	Cortem Spa	Cortem Spa	24/86772	LIFEX-ME-0645-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	HAZARDOUS-AREA_8 HAZARDOUS-AREA_1
ELF-200N1-02-L1-10	Normal Lighting Fixture	UPPER DECK	1724001290	Cortem Spa	Cortem Spa	24/86772	LIFEX-ME-0645-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	HAZARDOUS-AREA_8 HAZARDOUS-AREA_1
ELF-200N1-02-L1-11	Normal Lighting Fixture	UPPER DECK	1724001290	Cortem Spa	Cortem Spa	24/86772	LIFEX-ME-0645-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	HAZARDOUS-AREA_3 HAZARDOUS-AREA_2 HAZARDOUS-AREA_5 HAZARDOUS-AREA_6
ELF-200N1-02-L1-12	Normal Lighting Fixture	UPPER DECK	1724001290	Cortem Spa	Cortem Spa	24/86772	LIFEX-ME-0645-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	HAZARDOUS-AREA_1 HAZARDOUS-AREA_2 HAZARDOUS-AREA_5 HAZARDOUS-AREA_4
ELF-200N1-02-L1-13	Normal Lighting Fixture	UPPER DECK	1724001290	Cortem Spa	Cortem Spa	24/86772	LIFEX-ME-0645-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	HAZARDOUS-AREA_1 HAZARDOUS-AREA_2 HAZARDOUS-AREA_5 HAZARDOUS-AREA_4
ELF-200N1-02-L1-14	Normal Lighting Fixture	UPPER DECK	1724001290	Cortem Spa	Cortem Spa	24/86772	LIFEX-ME-0645-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	
ELF-200N1-02-L1-15	Normal Lighting Fixture	UPPER DECK	1724001290	Cortem Spa	Cortem Spa	24/86772	LIFEX-ME-0645-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	
ELF-200N1-02-L1-16	Normal Lighting Fixture	UPPER DECK	1724001290	Cortem Spa	Cortem Spa	24/86772	LIFEX-ME-0645-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	

EU Type Examination Certificate CML 20ATEX3018X Issue 1

1 Equipment intended for use in Potentially Explosive Atmospheres Directive 2014/34/EU

2 Equipment **LifEx-ME, LifEx-MN and LifEx-MT series of linear lighting fixtures**

3 Manufacturer **Cortem S.p.A.**

4 Address **Via Aquileia 10**
34070 Villesse
(GO)
Italy

5 The equipment is specified in the description of this certificate and the documents to which it refers.

6 CML B.V., Chamber of Commerce No 6738671, Koopvaardijweg 32, 4906CV Oosterhout, The Netherlands, Notified Body Number 2776, in accordance with Article 17 of Directive 2014/34/EU of the European Parliament and of the Council, dated 26 February 2014, certifies that this equipment has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of equipment intended for use in potentially explosive atmospheres given in Annex II to the Directive.

The examination and test results are recorded in the confidential reports listed in Section 12.

7 If an 'X' suffix appears after the certificate number, it indicates that the equipment is subject to conditions of safe use (affecting correct installation or safe use). These are specified in Section 14.

8 This EU Type Examination certificate relates only to the design and construction of the specified equipment or component. Further requirements of Directive 2014/34/EU Article 13 apply to the manufacture of the equipment or component and are separately certified.

9 Compliance with the Essential Health and Safety Requirements, with the exception of those listed in the confidential report, has been demonstrated through compliance with the following documents:

EN IEC 60079-0:2018	EN 60079-1:2014	EN IEC 60079-7:2015+A1:2018
EN 60079-18:2015+A1:2017	EN 60079-31:2014	

10 The equipment shall be marked with the following:

LifEx-ME	LifEx-MN and LifEx-MT
Ex db eb mb IIC T.. Gb	Ex tb IIIC T…°C Db
Ex eb mb IIC T.. Gb *(when Ex mb LED drivers are used)*	IP66
Ex tb IIIC T…°C Db	
IP66	
Ta=* see description	Ta=* see description

11 Description

The LifEx is a range of linear LED lighting fixtures that are available in three different configurations for different applications, designated as the LifEx-ME, LifEx-MT and LifEx-MN.

LifEx-ME

The LifEx-ME version has an Equipment Protection Level of EPL Gb and Db and utilises types of protection increased safety (eb) and dust protection by enclosure (tb), along with encapsulation (mb) for the light source and flameproof (db) for the driver.

It is constructed from an aluminium enclosure, with either a glass or polycarbonate lens and with optional polycarbonate diffuser.

LifEx-MN

The LifEx-MN version has an Equipment Protection Level of EPL Gc and Db and utilises types of protection increased safety (ec) and dust protection by enclosure (tb).

It is constructed from an aluminium enclosure, with polycarbonate diffuser and/or with optional glass or polycarbonate lens.

LifEx-MT

The LifEx-MT versions has an Equipment Protection Level of EPL Db and utilises types of protection dust protection by enclosure (tb).

It is constructed from an aluminium enclosure, with polycarbonate diffuser and/or with optional glass or polycarbonate lens.

Design Options

Every configuration is available in lengths ranging from 300 mm to 1500 mm, and power ratings up to a maximum of 105W of nominal power.

The LifEx can be used in only normal service, in only emergency service or in normal and emergency service.

The minimum ambient temperature for the range is:

- -60°C for versions without battery
- -60°C for versions with the battery heater
- -20°C for versions with battery

The range is available with the following maximum ambient temperatures:

	With glass lens and with/without polycarbonate diffuser	With Polycarbonate lens and with/without polycarbonate diffuser	Without lens polycarbonate diffuser only
LifEx-M...0310	+60°C	+60°C	+60°C
LifEx-M...0315	+60°C	+60°C	+60°C
LifEx-M...0330	+60°C	Configuration not available	Configuration not available
LifEx-M...0615	+60°C	+60°C	+60°C
LifEx-M...0630	+60°C	+50°C	+60°C
LifEx-M...0645	+57°C	+47°C	+60°C
LifEx-M...0660	+47°C	Configuration not available	+58°C
LifEx-M...1230	+60°C	+60°C	+60°C
LifEx-M...1260	+60°C	+50°C	+60°C
LifEx-M...1290	+60°C	+40°C	+60°C
LifEx-M...12120	+54°C	Configuration not available	+60°C
LifEx-M...1590	+60°C	+40°C	+60°C

Table 1: Maximum Ambient Temperatures

The following tables provide the Temperature Class (EPL Gb) and Maximum Surface Temperature (EPL Db) for each LifEx type, with the following notes:

- The LifEx-MN with an ambient temperature greater than 50°C is T5 or T4. T6 is not included.
- The Temperature Class (EPL Gb) and Maximum Surface Temperature (EPL Db) in the tables below are not applicable when the ambient temperature is not permitted in the above maximum ambient temperature range table.

13. (For example, the LifEx-M...0660 is not permitted with polycarbonate lens, therefore the Temperature Class (EPL Gb) and Maximum Surface Temperature (EPL Db) for this version in tables 2 and 3 are not applicable)

	Temperature Class (EPL Gb and Gc) and Maximum Surface Temperature (EPL Db) Based on ambient temperature													
	40°C		45°C		47°C		50°C		54°C		57°C		60°C	
	EPL Db	EPL Gb/Gc	EPL Db	EPL Gb/Gc	EPL Db	EPL Gb/Gc	EPL Db	EPL Gb/Gc	EPL Db	EPL Gb/Gc	EPL Db	EPL Gb/Gc	EPL Db	EPL Gb/Gc
LifEx-M...0310	T56°C	T6	T56°C	T6	T58°C	T6	T61°C	T6	T65°C	T6	T68°C	T6	T71°C	T6
LifEx-M...0315	T56°C	T6	T56°C	T6	T58°C	T6	T61°C	T6	T65°C	T6	T68°C	T6	T71°C	T6
LifEx-M...0615	T56°C	T6	T56°C	T6	T58°C	T6	T61°C	T6	T65°C	T6	T68°C	T6	T71°C	T6
LifEx-M...0630	T69°C	T6	T69°C	T5	T71°C	T5	T74°C	T5	T78°C	T5	T81°C	T4	T84°C	T4
LifEx-M...0645	T72°C	T5	T72°C	T5	T74°C	T5	T77°C	T5	T81°C	T4	T84°C	T4	T87°C	T4
LifEx-M...0660	T77°C	T5	T77°C	T4	T79°C	T4	T82°C	T4	T86°C	T4	T89°C	T4	T92°C	T4
LifEx-M...1230	T58°C	T6	T58°C	T6	T60°C	T6	T63°C	T6	T67°C	T6	T70°C	T6	T73°C	T6
LifEx-M...1260	T67°C	T6	T67°C	T5	T69°C	T5	T72°C	T5	T76°C	T5	T79°C	T4	T82°C	T4
LifEx-M...1290	T72°C	T5	T72°C	T5	T74°C	T4	T77°C	T4	T81°C	T4	T84°C	T4	T87°C	T4
LifEx-M...12120	T75°C	T5	T75°C	T4	T77°C	T4	T80°C	T4	T84°C	T4	T87°C	T4	T90°C	T4
LifEx-M...1590	T72°C	T5	T72°C	T5	T74°C	T4	T77°C	T4	T81°C	T4	T84°C	T4	T87°C	T4

Table 2: Temperature Class (EPL Gb) and Maximum Surface Temperature (EPL Db) for LifEx types with glass/polycarbonate lens and with polycarbonate diffuser

	Temperature Class (EPL Gb and Gc) and Maximum Surface Temperature (EPL Db) Based on ambient temperature					
	40°C		55°C		60°C	
	EPL Db	EPL Gc	EPL Db	EPL Gc	EPL Db	EPL Gc
LifEx-ME-0330	T58°C	T6	T73°C	T6	T78°C	T5
LifEx-MN-0330	T58°C	T6	T73°C	T5	T78°C	T4
LifEx-MT-0330	T58°C	-	T73°C	-	T78°C	-

Table 3: Temperature Class (EPL Gb and Gc) and Maximum Surface Temperature (EPL Db) for LifEx-M...-0330 types with glass/polycarbonate window and without polycarbonate diffuser

	Temperature Class (EPL Gb) and Maximum Surface Temperature (EPL Db) Based on ambient temperature													
	40°C		45°C		47°C		50°C		54°C		57°C		60°C	
	EPL Db	EPL Gb	EPL Db	EPL Gb	EPL Db	EPL Gb	EPL Db	EPL Gb	EPL Db	EPL Gb	EPL Db	EPL Gb	EPL Db	EPL Gb
LifEx-M...0310	T62°C	T6	T62°C	T6	T64°C	T6	T67°C	T6	T71°C	T6	T74°C	T6	T77°C	T6
LifEx-M...0315	T62°C	T6	T62°C	T6	T64°C	T6	T67°C	T6	T71°C	T6	T74°C	T6	T77°C	T6
LifEx-M...0615	T62°C	T6	T62°C	T6	T64°C	T6	T67°C	T6	T71°C	T6	T74°C	T6	T77°C	T6
LifEx-M...0630	T85°C	T6	T85°C	T5	T87°C	T5	T90°C	T5	T94°C	T5	T97°C	T4	T100°C	T4
LifEx-M...0645	T88°C	T6	T88°C	T5	T90°C	T5	T93°C	T5	T97°C	T4	T100°C	T4	T103°C	T4
LifEx-M...0660	T100°C	T6	T100°C	T4	T102°C	T4	T105°C	T4	T109°C	T4	T112°C	T4	T115°C	T4
LifEx-M...1230	T65°C	T6	T65°C	T6	T67°C	T6	T70°C	T6	T74°C	T6	T77°C	T6	T80°C	T6
LifEx-M...1260	T85°C	T6	T85°C	T5	T87°C	T5	T90°C	T5	T94°C	T5	T97°C	T4	T100°C	T4
LifEx-M...1290	T94°C	T6	T94°C	T5	T96°C	T4	T99°C	T4	T103°C	T4	T106°C	T4	T109°C	T4
LifEx-M...12120	T96°C	T5	T96°C	T4	T98°C	T4	T101°C	T4	T105°C	T4	T108°C	T4	T111°C	T4
LifEx-M...1590	T94°C	T6	T94°C	T5	T96°C	T4	T99°C	T4	T103°C	T4	T106°C	T4	T109°C	T4

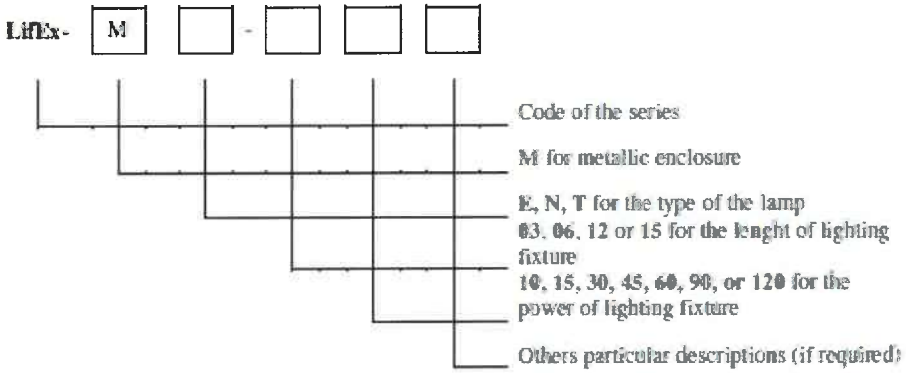
Table 4: Temperature Class (EPL Gb) and Maximum Surface Temperature (EPL Db) for LifEx types with glass/polycarbonate lens and without polycarbonate diffuser

	Maximum Surface Temperature (EPL Db) Based on ambient temperature						
	40°C	45°C	47°C	50°C	54°C	57°C	60°C
LifEx-M...0310	T56°C	T56°C	T58°C	T61°C	T65°C	T68°C	T71°C
LifEx-M...0315	T56°C	T56°C	T58°C	T61°C	T65°C	T68°C	T71°C
LifEx-M...0615	T56°C	T56°C	T58°C	T61°C	T65°C	T68°C	T71°C
LifEx-M...0630	T69°C	T69°C	T71°C	T74°C	T78°C	T81°C	T84°C
LifEx-M...0645	T72°C	T72°C	T74°C	T77°C	T81°C	T84°C	T87°C
LifEx-M...0660	T77°C	T77°C	T79°C	T82°C	T86°C	T89°C	T92°C
LifEx-M...1230	T58°C	T58°C	T60°C	T63°C	T67°C	T70°C	T73°C
LifEx-M...1260	T67°C	T67°C	T69°C	T72°C	T76°C	T79°C	T82°C
LifEx-M...1290	T72°C	T72°C	T74°C	T77°C	T81°C	T84°C	T87°C
LifEx-M...12120	T75°C	T75°C	T77°C	T80°C	T84°C	T87°C	T90°C
LifEx-M...1590	T72°C	T72°C	T74°C	T77°C	T81°C	T84°C	T87°C

Table 5: (Applicable to EPL Db only) Maximum Surface Temperature for LifEx types without glass/polycarbonate lens and with polycarbonate diffuser

The equipment has been separately tested against the requirements of IEC 60529 and it meets IP66. The gaskets on the caps provide the degree of protection.

The equipment uses the following nomenclature:



Variation 1:

This variation has assed the following changes:

i. Addition of an optional new removable cover for "easy installation" (which use the new aluminium extrusion);
ii. Addition of an optional external battery box;
iii. minimum ambient temperature extended to -60°C when Ex mb heater is used;
iv. Additional optional Ex mb EBM LED driver as an alternative to EBL3040 / EBL4040 Ex db series LED drivers;
v. added 30W model for size 300mm (LifEx-M..-0330).

12 Certificate history and evaluation reports

Issue	Date	Associated report	Notes
0	06 May 2020	R13027A/00	Prime Issue
1	01 Jul 2022	R14875A/00	Introduction of Variation 1

Note: Drawings that describe the equipment or component are listed in the Annex.

13 Conditions of Manufacture

The following conditions are required of the manufacturing process for compliance with the certification.

i. Where the product incorporates certified parts or safety critical components the manufacturer shall ensure that any changes to those parts or components do not affect the compliance of the certified product that is the subject of this certificate.
ii. The LifEx series lighting fixtures are to be designed in accordance with general electrical safety standards.
iii. The routine dielectric strength test on the LifEx-ME and LifEx-MN luminaries with applied voltage shall be performed at 2U + 1000V with a minimum value of 1560V (U = maximum rated voltage of the lamp)

iv. A routine visual inspection of the encapsulated parts is required, as per Clause 9.1 of IEC 60079-18. There shall be no visible damage or deformation to the encapsulant.

v. Where the removable battery pack is used with phoenix contacts, if used with a T6 version of the equipment, the maximum ambient shall be limited to +40°C.

14 Specific Conditions of Use (Special Conditions)

The following conditions relate to safe installation and/or use of the equipment.

i. Cable entries are provided which have less than 5 threads engaged. Care must be taken to ensure the correct gaskets and washers are sued with the cable gland to maintain IP66.

ii. The equipment uses an external part that is constructed from non-metallic materials, and as such care is to be taken to prevent an electro-static charging hazard. See instruction manual for details.

iii. For versions with glass window of 4mm thickness without cover, the luminaire must be installed in a location with a low risk of mechanical danger

iv. The temperature at the entry point may reach up to 75°C. Suitably rated cable glands must be used.

Certificate Annex

Certificate Number	**CML 20ATEX3018X**
Equipment	**LifEx-ME, LifEx-MN and LifEx-MT series of linear lighting fixtures**
Manufacturer	**Cortem S.p.A.**

The following documents describe the equipment or component defined in this certificate:

Issue 0

Drawing No	Sheets	Rev	Approved date	Title
A3-7466	1 to 6	0	06 May 2020	LifEx-M Luminaires
A4-7467	1 to 6	0	06 May 2020	Technical Note

Issue 1

Drawing No.	Sheets	Rev	Approved date	Title
A3-7466	1 of 6	1	01 Jul 2022	LifEx-M Luminaires Assembly and External Dimensions
A3-7466	2 of 6	1	01 Jul 2022	LifEx-M Luminaires Detail of sealing and op is protection
A3-7466	3 of 6	1	01 Jul 2022	LifEx-M Luminaires Detail of driver and inverter for LifEx-ME version
A3-7466	4 of 6	1	01 Jul 2022	LifEx-M Luminaires Circuit diagram for LifeEx-ME version
A3-7466	5 of 6	1	01 Jul 2022	LifEx-M Luminaires Circuit diagram LifEx-MN and LifEx-MT version
A3-7466	6 of 6	1	01 Jul 2022	LifEx-M Luminaires Detail of battery pack
A3-7729	1 to 3	0	01 Jul 2022	Battery heater for -60°C /-40°C applications Assembly and External Dimensions
A4-7727	1 to 8	0	01 Jul 2022	Technical Note

ITEM	Tag	ELF-200N1-02-L1-17	: NORMAL LIGHT	Dwg	123A90-DDL-EL-DL-20118
	S/Sys	83-40	: Normal Lighting Upper Deck	Module	UD
TASK	code	C10001672	Location: Onshore Activities	User	Rosetti Marino Quality Control
FORM	Process	MC	Activity: CCK / Discipline: ATEX / Form: CJX01		Hazardous Area Equipment Detailed Inspection

Schedule Ref. #				**Area Code**					
Area Class Drawing	123A90-DDL-SAF-DL-30022			**Serial No.**	24/86772				
Manufacturer	Cortem Spa			**Model**	LIFEX-ME-0645-BB				
Cert No.	CML 20 ATEX 3018X			**Equipment Ambient Temp.**	-60°C to +50°C				
Area Classification	hazardous	**Zone**	2	**Gas group**	IIC	**Temp class**	T1		
Equipment Protection Type	Ex db	**EPL**	Gb	**Gas group**	IIC	**Temp class**	T5	**IP Rating**	IP66

Detailed Note:

1) Inspection shall only be performed by competent personnel

2) All fields are to be completed. Any non-applicable field shall state “NA”. Comments are required for ‘Failure’ column ONLY.

3) An Inspection Sheet should be completed for EACH individual item of Equipment.

	General Equipment	Detailed	OK/NA/PL	Comments
1	Equipment is appropriate to the EPL / Zone requirements of the area	x	OK	
2	Equipment group is correct	x	OK	
3	Equipment temperature class is correct	x	OK	
4	Degree of IP protection of equipment is appropriate for the level of protection	x	OK	
5	Equipment circuit identification is correct	x	PL	
6	Equipment circuit identification is available	x	NA	
7	Enclosure glass parts and glass-to-metal sealing gaskets and / or compounds are satisfactory	x	OK	
8	There is no damage or unauthorized modifications	x	OK	
9	There is no evidence of unauthorized modifications	x	OK	
10	Bolts, cable entry devices (direct and indirect) & blanking elements are of the correct type, are complete & tight		OK	
	Physical check	x	OK	
11	Threaded covers on enclosures are of the correct type, are tight and secured		OK	
	Physical check	x	OK	
12	Joint surfaces are clean and undamaged and gaskets, if any, are satisfactory and positioned correctly	x	OK	
13	Condition of enclosure gaskets is satisfactory	x	OK	
14	There is no evidence or ingress of water or dust in the enclosure in accordance with the IP rating	x	OK	
15	Electrical connections are tight	x	OK	
16	Bridging links do not reduce creepage / clearance and are allowed	x	OK	
17	Unused terminals are tightened	x	OK	
18	Encapsulated components are undamaged	x	NA	
19	Flameproof components are undamaged	x	NA	
20	Fluorescent lamps are not indicating EOL effects (only for Ex “e” – Ex “n” – Ex “t”)	x	NA	
21	HID lamps are not indicating EOL effects	x	NA	
22	Lamp type, rating, pin configuration and position are correct	x	OK	
23	Breathing and drainage devices are satisfactory	x	NA	
24	Type of cable is appropriate	x	OK	
25	There is no obvious damage to the cables	x	OK	
26	Cable glands are the correct type and installed correctly	x	OK	
27	Sealing of trunking, ducts, pipes and or conduits is satisfactory	x	OK	
28	Stopping boxes and cable boxes are corrected filled	x	OK	

ITEM	Tag	ELF-200N1-02-L1-17	: NORMAL LIGHT			Dwg	123A90-DDL-EL-DL-20118
	S/Sys	83-40	: Normal Lighting Upper Deck			Module	UD
TASK	code	C10001672		Location	Onshore Activities	User	Rosetti Marino Quality Control
FORM	Process	MC	Activity CCK	Discipline	ATEX	Form	CJX01 Hazardous Area Equipment Detailed Inspection

29	Integrity of conduit system and interface with mixed system maintained	x	NA	
30	Earthing connections, including any supplementary earthing bonding connections are satisfactory (for example connections are tight and conductors are of sufficient cross-section		NA	
	Physical check	x	OK	
31	Automated electric protective devices operate within permitted limits	x	NA	
32	Special conditions (if applicable) have been complied with.	x	OK	
33	All cable cores are uniquely labeled	x	OK	
34	Cable cores not in use are correctly terminated	x	NA	
35	Equipment is adequately protected against corrosion, weather, vibration and other adverse factors	x	PL	
36	No undue accumulation of dust and dirt	x	OK	
37	All equipment housings are clean and dry	x	OK	
38	All moving parts are free and have no mechanical damage	x	NA	
	Applicable for Installation of Heating Systems			
39	Temperature sensors function according to manufacturer's documents (only applicable for Ex-d e Ex-e)	x	NA	
40	Safety cut off devices function according to manufacturer's documents (only applicable for Ex-d e Ex-e)	x	NA	
41	The setting of the safety cut off is sealed (only applicable for Ex-d e Ex-e)	x	NA	
42	Reset of a heating system safety cut off possible with tool only(only applicable for Ex-d e Ex-e)	x	NA	
43	Auto-reset is not possible (only applicable for Ex-d e Ex-e)	x	NA	
44	Reset of a safety cut off under fault conditions is prevented (only applicable for Ex-d e Ex-e)	x	NA	
45	Safety cut off independent from control system (only applicable for Ex-d e Ex-e)	x	NA	
46	Level switch is installed and correctly set, if required (only applicable for Ex-d e Ex-e)	x	NA	
47	Flow switch is installed and correctly set, if required (only applicable for Ex-d e Ex-e)	x	NA	
	Extra Ex d checks			
48	Obstructions adjacent to flame proof flanged joints are in accordance with IEC 60079-14	x	NA	
49	Ex d conduits seals are fitted to all conduits and satisfactorily sealed	x	NA	
50	Cable glands are of the correct type and installed correctly	x	OK	
51	Adaptors, reducers, stop ends, etc. are all certified Ex d	x	OK	
52	Flame path are clean and undamaged	x	OK	
53	Flange gap dimensions are within tolerances	x	NA	
54	Motor fans have sufficient clearance to the enclosure and/or covers, cooling systems are undamaged, motor foundations have no indentations or cracks	x	NA	
55	The ventilation airflow is not impeded	x	NA	
56	Insulation resistance (IR) of the motor windings is satisfactory	x	NA	
57	Fault loop impedance (TN systems) or earthing resistance (IT systems) is satisfactory	x	NA	
58	Variable voltage/frequency installation complies with documentation	x	NA	
	Extra Ex e checks			
59	All Equipment is Ex e certified (including components within enclosure)	x	NA	
60	Power conductors are not bunched together causing possible hot spots	x	NA	
61	Motor fans have sufficient clearance to the enclosure and/or covers, cooling systems are undamaged, motor foundations have no indentations or cracks	x	NA	
62	Insulation resistance (IR) of the motor windings is satisfactory	x	NA	
63	Fault loop impedance (TN systems) or earthing resistance (IT systems) is satisfactory	x	NA	
64	The ventilation airflow is not impeded	x	NA	
65	Motor protection devices operate within the permitted tE or tA time limits.	x	NA	
66	Variable voltage/frequency installation complies with documentation	x	NA	

ITEM	Tag	ELF-200N1-02-L1-17	: NORMAL LIGHT			Dwg	123A90-DDL-EL-DL-20118
	S/Sys	83-40	: Normal Lighting Upper Deck			Module	UD
TASK	code	C10001672		Location	Onshore Activities	User	Rosetti Marino Quality Control
FORM	Process	MC	Activity CCK	Discipline	ATEX	Form	CJX01
							Hazardous Area Equipment Detailed Inspection

Extra Ex n (nR, nL) checks				
67	All Terminals are Ex n certified (if required on certificate)	x	NA	
68	Hermetically sealed and enclosed break devices are undamaged	x	NA	
69	Restricted breathing properties satisfactory (conduct vacuum test)	x	NA	
70	Test port, if fitted, is functional (type “nR” only)	x	NA	
71	Breathing operation is satisfactory (type “nR” only)	x	NA	
72	Motor fans have sufficient clearance to the enclosure and/or covers, cooling systems are	x	NA	
73	The ventilation airflow is not impeded	x	NA	
74	Insulation resistance (IR) of the motor windings is satisfactory	x	NA	
75	Motor protection devices operate within the permitted tE or tA time limits.	x	NA	
76	Variable voltage/frequency installation complies with documentation	x	NA	
Extra Ex p checks				
77	Pressurization gas is correct type	x	NA	
78	Actual pressure is within maximum and minimum settings for equipment	x	NA	
79	Timers set as per certification documentation	x	NA	
80	Alarms and trip functions operate correctly as per certification documentation	x	NA	
81	Fault loop impedance (TN systems) or earthing resistance (IT systems) is satisfactory	x	NA	
82	Automatic electrical protective devices operate within permitted limits	x	NA	
83	Automatic electrical protective devices are set correctly	x	NA	
84	Protective gas inlet temperature is below maximum specified	x	NA	
85	Ducts, pipes and enclosures are in good condition	x	NA	
86	Protective gas is substantially free from contaminants	x	NA	
87	Protective gas pressure and/or flow is adequate	x	NA	
88	Pressure and/or flow indicators, alarms and interlocks function correctly	x	NA	
89	Conditions of spark and particle barriers of ducts for exhausting the gas in hazardous area are satisfactory	x	NA	
90	Specific conditions of use (if applicable) are complied with		NA	
Extra Ex i (Intrinsically Safe – IS) checks				
91	Equipment has adequate circuit identification for ‘IS’ Installation	x	NA	
92	Cables are installed in accordance with the documentation	x	NA	
93	Segregation is maintained between IS and non-IS Circuits	x	NA	
94	Cable screens are isolated at one end (field side)	x	NA	
95	Cable screens are earthed in accordance with the documentation	x	NA	
96	Safety barrier units, relays and other energy limiting devices are of the approved type, installed in	x	NA	
97	Equipment installed is the one specified in the documentation	x	NA	
98	Ambient temperature range of the apparatus is correct for the installation	x	NA	
99	Service temperature range of the apparatus is correct for the installation	x	NA	
100	Installation is clearly labelled	x	NA	
101	Printed circuit boards are clean and undamaged	x	NA	
102	The maximum voltage Um of the associated apparatus is not exceeded	x	NA	
103	Point-to-point connections are all correct	x	NA	
104	Earth continuity is satisfactory (e.g. connections are tight, conductors are of sufficient cross-section)	x	NA	
105	Earth connections maintain the integrity of the type of protection	x	NA	
106	Intrinsically safe circuit earthing is satisfactory	x	NA	
107	Insulation resistance is satisfactory	x	NA	
108	Short-circuit protection of the power supply is in accordance with the documentation	x	NA	

	BARRIER:	**Manufacturer:**	NA	**Model:**	NA		
		Authority:	NA	**Cert No:**	NA	**Type:**	NA

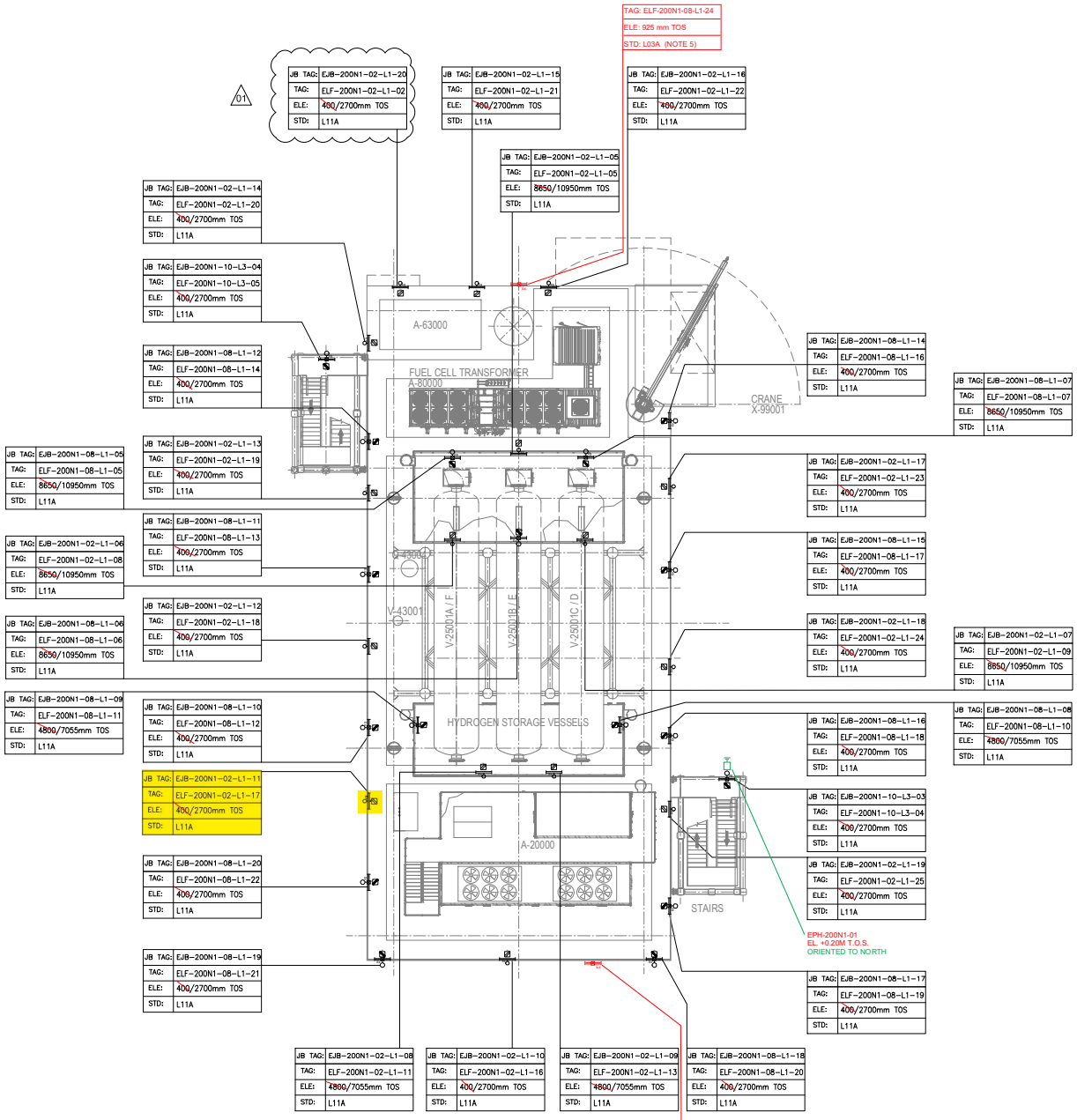
Remarks: Initial inspection should be detailed and carried out before equipment is brought into service as per IEC 60079-17

Please mark only one box as appropriate	
●	**Passed - Complete**
	Failed

	Performed by	☐ WITNESS ☐ REVIEW	☐ WITNESS ☐ REVIEW
Company	ICS IMPIANTI	RM (ROSETTI MARINO)	
Name	Francesco Zucca	Andrea Andreani	
Date	2024-12-11	2024-12-14	
Signature	PROVERLIS Digitaly signed by Francesco Zucca 2024-12-11T15:27:50.123Z	PROVERLIS Digitaly signed by Andrea Andreani 2024-12-14T12:16:04.969Z	

DRAWING NO. 123A90-DDL-EL-DL-20118

REV. 01

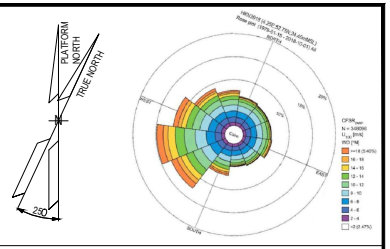


PLAN ON UPPER DECK
EL+30.310 T.O.S.

VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DL-20118**

REV.:	DATE:	SIGNATURE:
1_F	26/11/24	G.Randi

ROSETTI MARINO SpA



NOTES

1. ALL DIMENSIONS AND ELEVATIONS ARE GIVEN IN mm UNLESS OTHERWISE NOTED.
2. ELEVATIONS REFER TO T.O.S.
3. ELEVATION OF THE LAMPS ARE REFFERED TO THE BOTTOM OF THE LAMP.
4. FOR THE ELEVATION OF JB, REFER TO THE TYPICAL INSTALLATION.
5. FOR ELF-200N1-08-L1-24 AND ELF-200N1-08-L1-25 CONSTRUCTION DETAILS REFER TO DOC. 123A90-DDL-ST-DD-90076

LEGEND

- EMERGENCY LIGHTING JB
- 60W LED EMERGENCY LUMINARIES
- 60W LED EMERGENCY LUMINARIES FIXTURE POLE MOUNTED
- NORMAL LIGHTING JB
- 45W LED NORMAL LUMINARIES
- 45W LED NORMAL LUMINARIES FIXTURE POLE MOUNTED
- WELDING SOCKET WITH INTEGRATED JB
- SMALL POWER SOCKET WITH INTEGRATED JB
- TWILIGHT RELAY SENSOR

JB TAG: — JB-TAG
TAG: — TAG
ELE: — ELEVATION
STD: — STANDARD

REFERENCE DOCUMENTS

123A90-DDL-PP-DL-70070	PLOT PLAN - LOWER & UPPER DECK
123A90-DDL-EL-DL-20100	ELECTRICAL EQUIPMENT LAYOUT - TOP DECK
123A90-DDL-EL-DD-20091	ELECTRICAL TYPICAL INSTALLATION DETAILS - LIGHTING SYSTEM
123A90-DDL-EL-DD-20092	ELECTRICAL TYPICAL INSTALLATION DETAILS - POWER SYSTEM & CABLE INSTALLATION
123A90-DDL-EL-RE-20153	LIGHTING CALCULATION STUDY REPORT
123A90-DDL-ST-DD-90076	IDENTIFICATION PANELS ASSEMBLY AND DETAILS

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	02/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	28/05/24	ASR	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND

ROSETTI MARINO

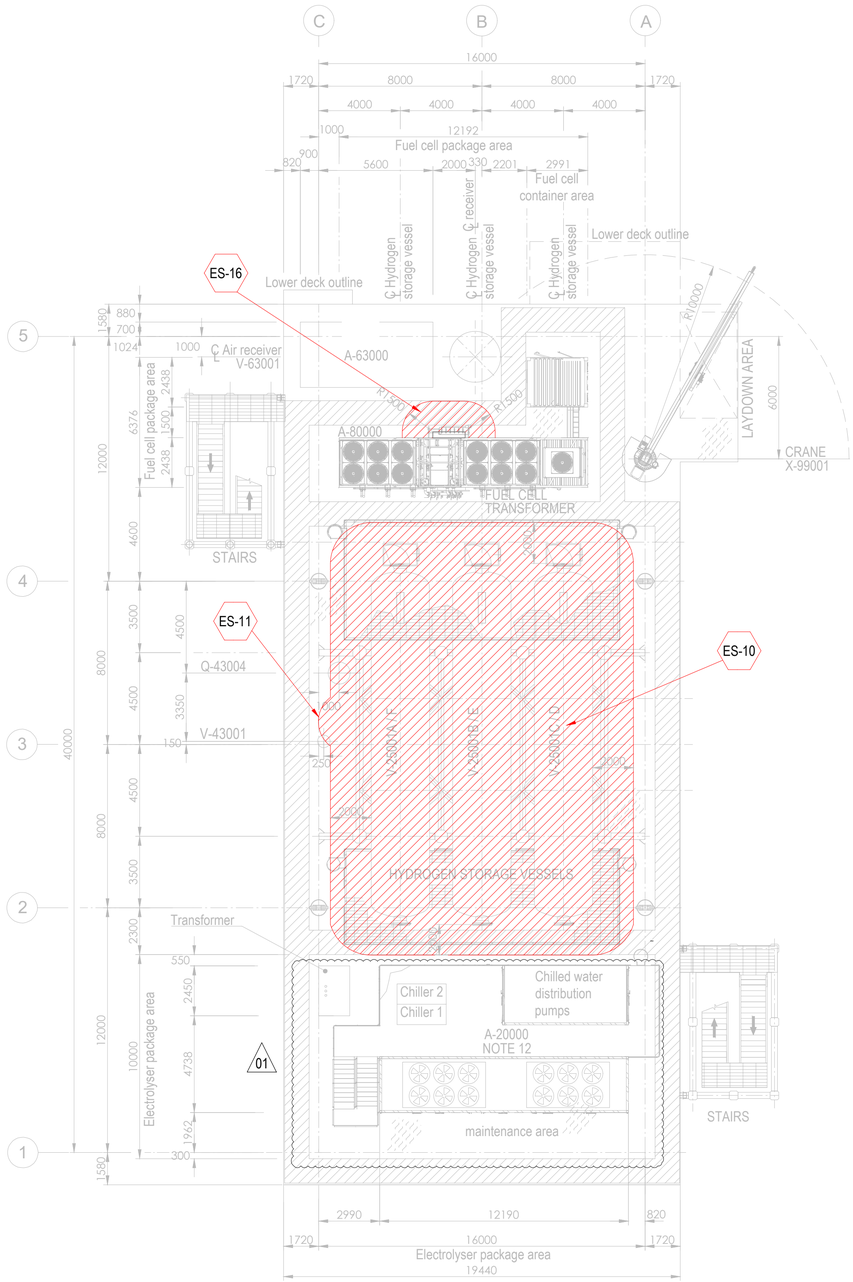
TITLE : BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET LAYOUT – TOP DECK

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK			SCALE 1:150
DRAWN ASR	CHECKED FMA/AMA	APPROVED FPA/DLO	DATE 01/08/24
A1	DRAWING NO. 123A90-DDL-EL-DL-20118	SHEET 1of2	REV. 01

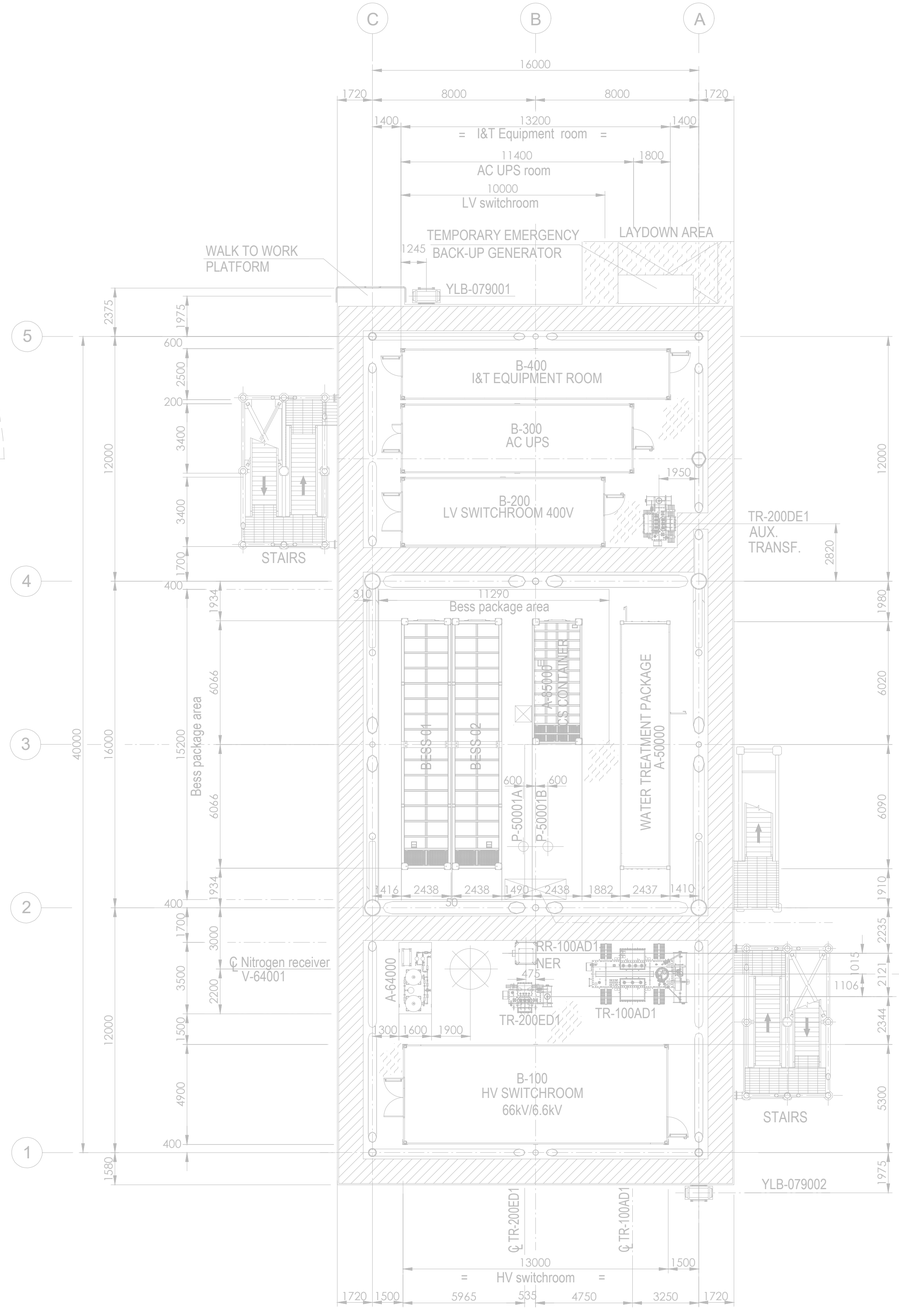
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DRAWING NO. 123A90-DDL-SAF-DL-30022

REV. 01



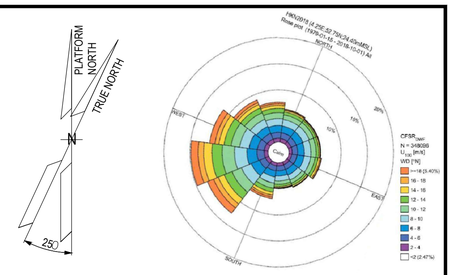
PLAN ON UPPER DECK
EL+30.310 T.O.S.



PLAN ON LOWER DECK
EL+23.310 T.O.S.

Tag No.	Equipment Tag	Description	Material	Ventilation Type
01	P-50001 A/B	SEA WATER LIFT PUMPS	SEA WATER	NATURAL (OPEN AREA)
02	Q-43004	HYDROGEN VENT	HYDROGEN	NATURAL (OPEN AREA)
03	V-43001	HYDROGEN VENT KO DRUM	HYDROGEN	NATURAL (OPEN AREA)
04	V-25001 (A/B/C/D/E/F)	HYDROGEN STORAGE VESSELS	HYDROGEN	NATURAL (OPEN AREA)
05	V-63001	AIR RECEIVER	INSTRUMENT AIR	NATURAL (OPEN AREA)
06	A-20000	ELECTROLYSER PACKAGE		
07	A-63000	INSTRUMENT AIR PACKAGE		
08	A-80000	FUEL CELL PACKAGE		
09	A-85000	BESS PACKAGE		
10	YLB-079001/2	LIFE RAFTS		
11	A-50000	WATER TREATMENT PACKAGE		

Tag No.	Equipment Tag	Description	Material	Ventilation Type
12	A-64000	NITROGEN SYSTEM		
13	B-100	HV SWITCHROOM 66kV/6.6kV		
14	B-200	LV SWITCHROOM 400V		
15	B-300	AC UPS EQUIPMENT ROOM		
16	B-400	I&T EQUIPMENT ROOM		
17	TR-100AD1	TRANSFORMER MAIN 66kV/6.6kV		
18	RR-100AD1-NER	NEUTRAL EARTHING RESISTOR		
19	TR-200DE1	TRANSFORMER AUX. 6.6kV/0.4kV		
20	TR-200ED1	SOLAR TRANSFORMER PV FARM EQUIPMENT		
21	X-99001	CRANE		
22	V-64001	NITROGEN RECEIVER		



1. ALL DIMENSIONS IN mm U.N.O
2. ALL ELEVATIONS IN METERS.
3. PLATFORM NORTH DIRECTION IS N 25°W.
4. VENT TOP SHALL BE REACHEABLE FOR MAINTENANCE PURPOSE.
5. THE BESS IS CONSIDERED SAFE AREA EXCEPT EXTRACTORES FROM BATTERIES , CURRENTLY NOT SHOWN IN DRAWINGS, SINCE INFORMATION FROM VENDOR IS NOT YET AVAILABLE.[ES17]
6. THE LOCATION OF EMISSION SOURCES ON THE LAYOUT ARE ONLY INDICATIVE. EMISSION SOURCES CONSIDERED ARE PRESENT WITHIN THE EXTENSION OF HAZARDOUS CLASSIFIED AREAS SHOWN ON THE LAYOUT. THIS IS BECAUSE VALVES AND FLANGES,WHICH ARE CONSIDERED POTENTIAL SOURCES OF RELEASE POINTS FOR FLAMMABLE GAS ARE NOT SHOWN ON CURRENT LAYOUT PROVIDED. THE SAME APPLIES TO THE EMISSION SOURCES FOR CPI'S ITEM.
7. IDENTIFIED EMISSION SOURCES DETAIL

EMISSION SOURCE No.	IDENTIFIED AREAS
ES10	HYDROGEN STORAGE VESSLES
ES11	HYDROGEN VENT KO DRUM
ES16	FUEL CELL

01

ZONE 0 | ZONE 1 | ZONE 2 | ES EMISSION SOURCES

01

01

123A90-DDL-PP-DS-70071	PLOT PLAN - BELOW LOWER DECK
123A90-DDL-PP-DS-70072	PLOT PLAN - ELEVATION LOOKING NORTH & EAST

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	27/08/24	MMA	CCA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	08/02/24	MMA	CCA	DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND

ROSETTI MARINO

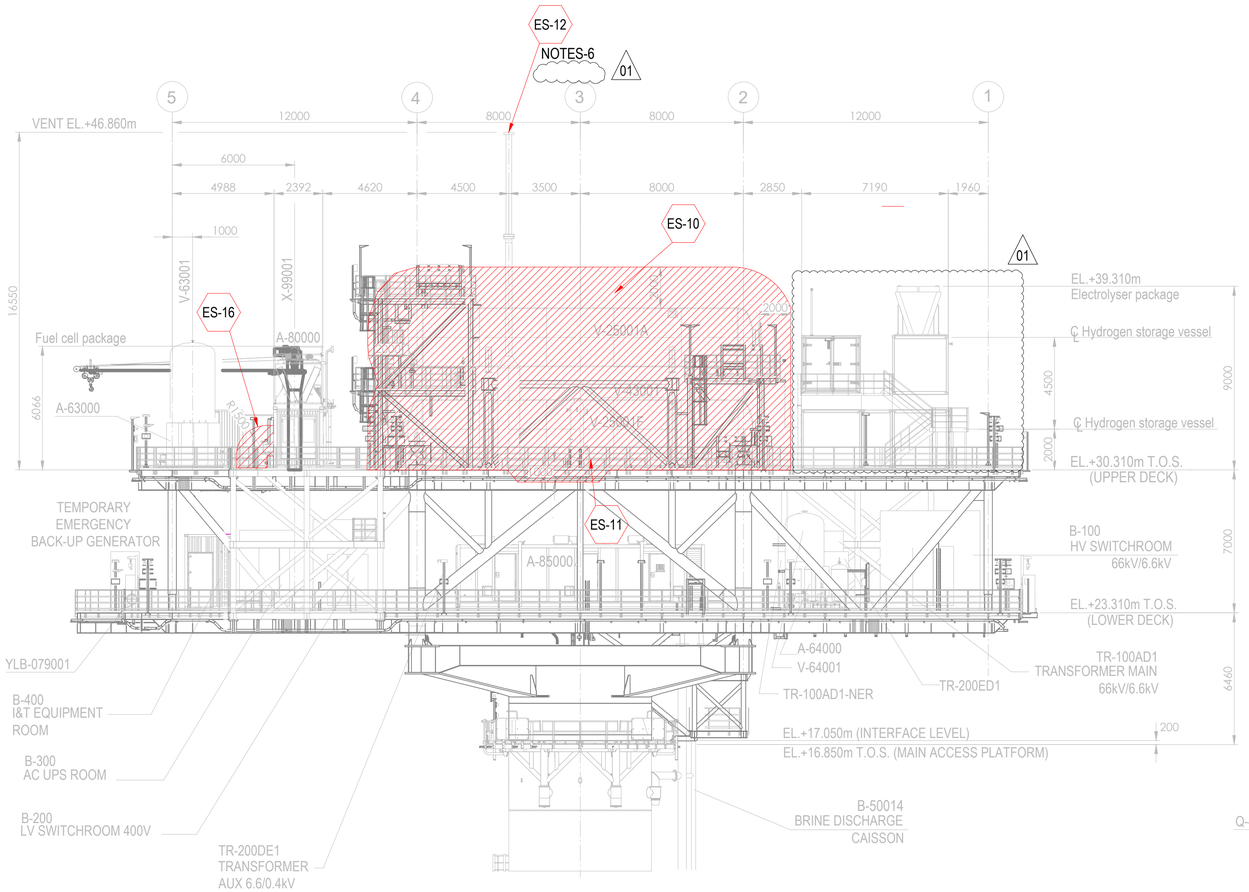
TITLE : BASE LOAD POWER HUB (BLPH)
HAZARDOUS AREA CLASSIFICATION
LOWER & UPPER DECK

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK		SCALE 1:150
DRAWN M. MAGNI	CHECKED C. CARACCIOLO	APPROVED D. LO STERZO	DATE 03/07/24
A1	DRAWING NO. 123A90-DDL-SAF-DL-30022	SHEET 001	REV. 01

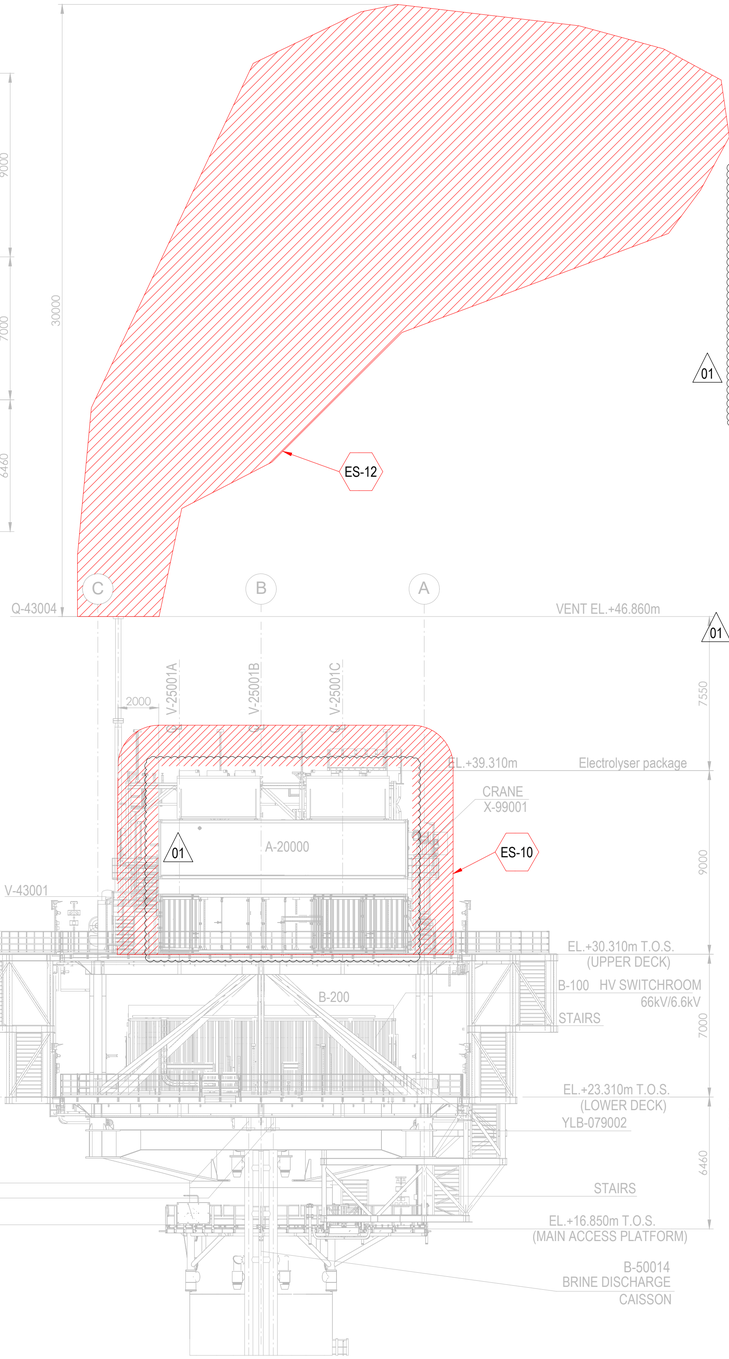
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DRAWING NO. 123A90-DDL-SAF-DL-30024

REV. 01



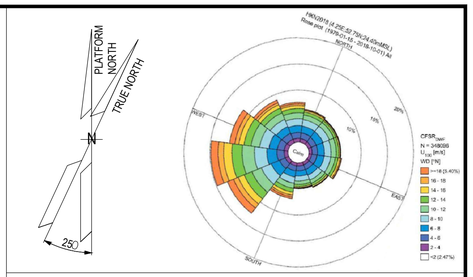
ELEVATION LOOKING EAST



ELEVATION LOOKING NORTH

01

Tag No.	Equipment Tag	Description	Material	Ventilation Type
01	P-50001 A/B	SEA WATER LIFT PUMPS	SEA WATER	NATURAL (OPEN AREA)
02	Q-43004	HYDROGEN VENT	HYDROGEN	NATURAL (OPEN AREA)
03	V-43001	HYDROGEN VENT KO DRUM	HYDROGEN	NATURAL (OPEN AREA)
04	V-25001 (A/B/C/D/E/F)	HYDROGEN STORAGE VESSELS	HYDROGEN	NATURAL (OPEN AREA)
05	V-63001	INSTRUMENT AIR RECEIVER	INSTRUMENT AIR	NATURAL (OPEN AREA)
06	A-20000	ELECTROLYSER PACKAGE		
07	A-63000	INSTRUMENT AIR PACKAGE		
08	A-80000	FUEL CELL PACKAGE		
09	A-85000	BESS PACKAGE		
10	YLB-079001/2	LIFE RAFTS		
11	B-100	HV SWITCHROOM 66kV/6.6kV		
12	B-200	LV SWITCHROOM 400V		
13	B-300	AC UPS EQUIPMENT ROOM		
14	B-400	I&T EQUIPMENT ROOM		
15	TR-100AD1	TRANSFORMER MAIN 66kV/6.6kV		
16	TR-100AD1-NER	NEUTRAL EARTHING RESISTOR		
17	TR-200DE1	TRANSFORMER AUX. 6.6kV/0.4kV		
18	TR-200ED1	SOLAR TRANSFORMER PV FARM EQUIPMENT		
19	X-99001	CRANE		
20	V-64001	NITROGEN RECEIVER		



NOTES

1. ALL DIMENSIONS IN mm U.N.O
2. ALL ELEVATIONS IN METERS.
3. PLATFORM NORTH DIRECTION IS N 25°W.
4. VENT TOP SHALL BE REACHEABLE FOR MAINTENANCE PURPOSE.
5. THE BESS IS CONSIDERED SAFE AREA EXCEPT EXTRACTORES FROM BATTERIES , CURRENTLY NOT SHOWN IN DRAWINGS, SINCE INFORMATION FROM VENDOR IS NOT YET AVAILABLE.[ES17]
6. (ES12) IS SHOWN ONLY ON ELEVATION LOOKING NORTH ON THIS LAYOUT
7. THE LOCATION OF EMISSION SOURCES ON THE LAYOUT ARE ONLY INDICATIVE. EMISSION SOURCES CONSIDERED ARE PRESENT WITHIN THE EXTENSION OF HAZARDOUS CLASSIFIED AREAS SHOWN ON THE LAYOUT. THIS IS BECAUSE VALVES AND FLANGES,WHICH ARE CONSIDERED POTENTIAL SOURCES OF RELEASE POINTS FOR FLAMMABLE GAS ARE NOT SHOWN ON CURRENT LAYOUT PROVIDED. THE SAME APPLIES TO THE EMISSION SOURCES FOR CPI'S ITEM.
8. IDENTIFIED EMISSION SOURCES DETAIL

EMISSION SOURCE No.	IDENTIFIED AREAS
ES10	HYDROGEN STORAGE VESSLES
ES11	HYDROGEN VENT KO DRUM
ES12	HYDROGEN VENT
ES16	FUEL CELL

01

LEGEND

ZONE 0 | ZONE 1 | ZONE 2 | ES EMISSION SOURCES

01

REFERENCE DOCUMENTS

123A90-DDL-PP-DS-70070	PLOT PLAN - LOWER & UPPER DECK
123A90-DDL-PP-DS-70071	PLOT PLAN - BELOW LOWER DECK

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
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00	08/02/24	MMA	CCA	DLO	ISSUE FOR REVIEW (IFR)

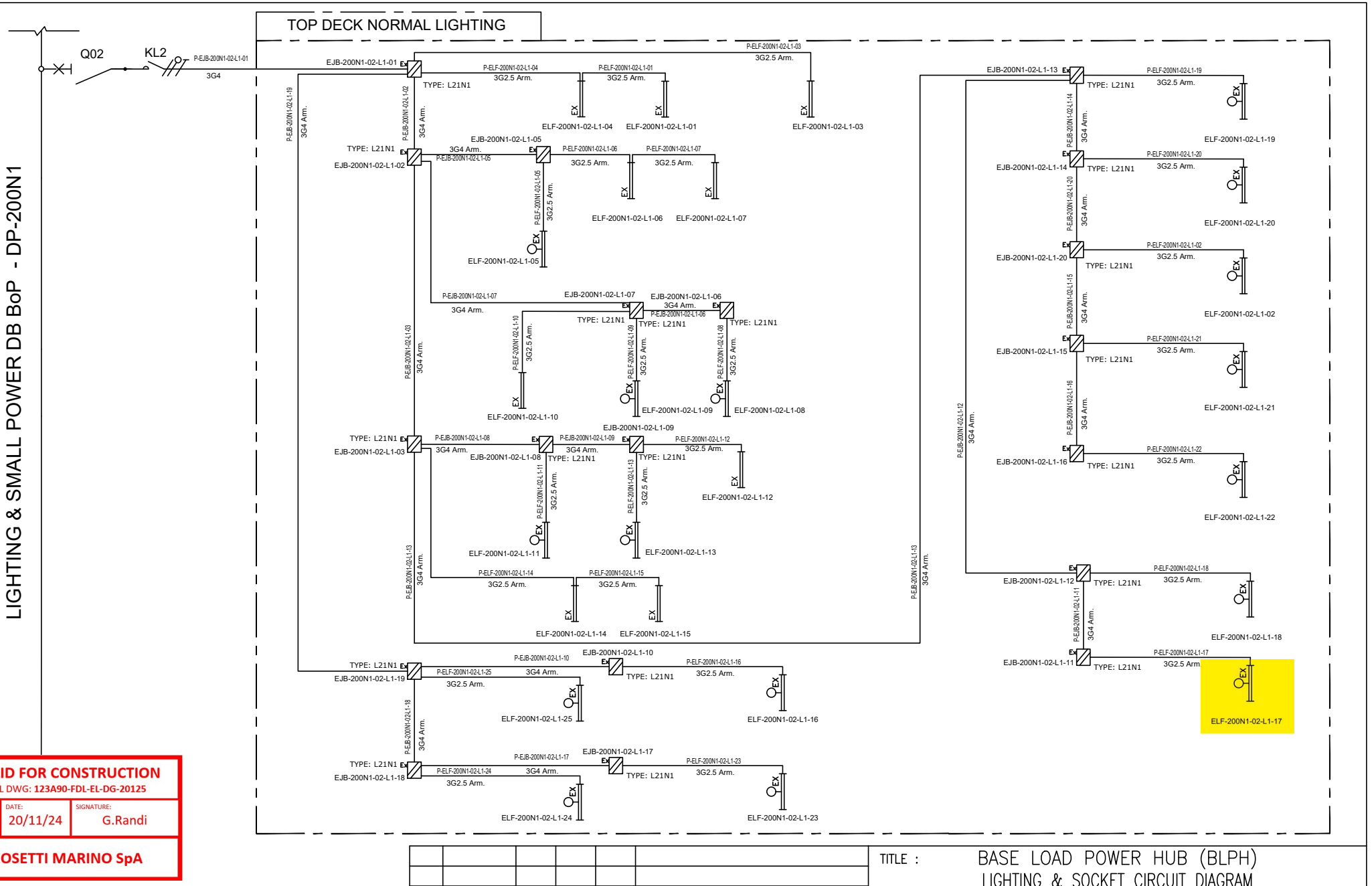
CROSSWIND | ROSETTI MARINO

TITLE :
BASE LOAD POWER HUB (BLPH)
HAZARDOUS AREA CLASSIFICATION
ELEVATION LOOKING NORTH & EAST

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK			SCALE 1:150
DRAWN M. MAGNI	CHECKED C. CARACCIOLO	APPROVED D. LO STERZO	DATE 03/07/24

A1	DRAWING NO. 123A90-DDL-SAF-DL-30024	SHEET 001	REV. 01

File Name : 123A90-DDL-SAF-DL-30024 Rev.01



VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DG-20125**

REV.:	DATE:	SIGNATURE:
2_B	20/11/24	G.Randi

ROSETTI MARINO SpA

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	08/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	01/07/24	ASR	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

TITLE : BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET CIRCUIT DIAGRAM
TOP DECK–NORMAL LIGHTING

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE : NTS

A3

DRAWING NO. 123A90–DDL–EL–DG–20125

SHEET 010

REV. 01

CROSSWIND

ROSETTI MARINO

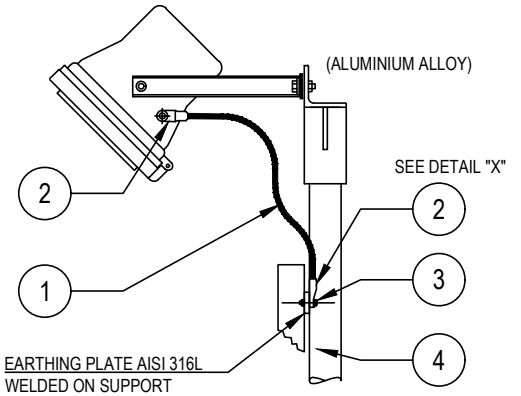
F.to UNI A3: 420mmx297mm

File Name : 123A90–DDL–EL–DG–20125

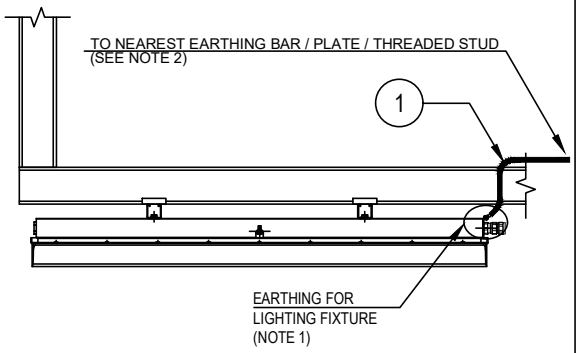
E05

POS.	DESCRIPTION	MATERIAL	SIZE	Q.TY	NOTE
1	Y/G INSULATING COPPER CONDUCTOR	COPPER	$6mm^2$		
2	COMPRESSION TYPE LUG FOR INSULATION COPPER CONDUCTOR	TINNED COPPER	$6mm^2$	2	
3	HEXAG. BOLTS, PLANE WASHERS, SPRING WASHER AND NUT	AISI 316L	M8X30	1	

LIGHTING FIXTURE/GENERAL ITEM ON POLE

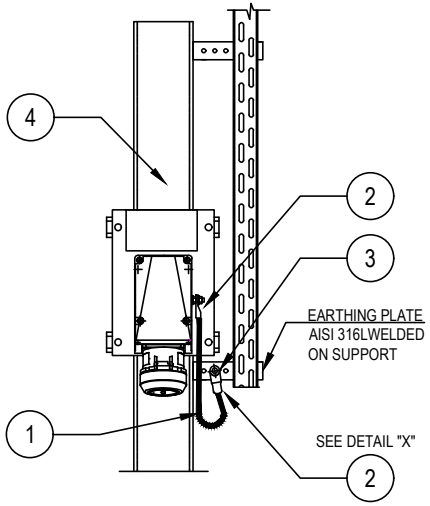


LIGHTING FIXTURES

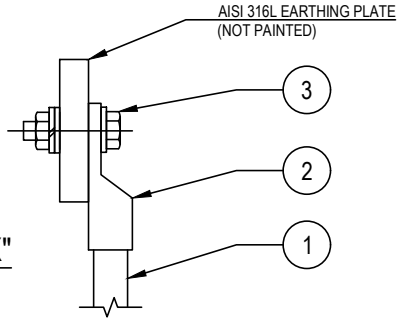


Refer also to TYP. "E32" (SEE SHEET 23)

POWER SOCKET OUTLET



DETAIL "X"



TYPICAL VALID ALSO FOR NAVAID LIGHTS

NOTES:

1) ALL LIGHTING FIXTURES AND RELEVANT ARMOUR OF THE CABLE, ARE CONNECTED TO EARTH CONNECTION THROUGH THE EARTHING TAG OF THE CABLE GLAND

2) FOR EARTHING POINT USE ONE OF THE FOLLOWING METHODS:
TYP. E03A-D sh. 004 (EARTHING BAR ON STRUCT. UNISTRUT AND CABLE TRAY)
TYP. E11C sh. 003 (EARTHING PLATE)
TYP. E11D sh. 003 (THREADED STUD ON EXTERNAL STRUCTURE)

VALID FOR CONSTRUCTION
FDL DWG: 123A90-FDL-EL-DD-20090
REV.: 2_I | DATE: 07/11/24 | SIGNATURE: G.Randi
ROSETTI MARINO SpA

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	26/08/24	GRA	AMA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	10/06/24	SPS	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	21/11/23	SPS	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL TYPICAL INSTALLATION DETAILS–EARTHING SYSTEM
EARTHING FOR ELECTRICAL EQUIPMENTS

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK | SCALE : NTS

A3 | DRAWING NO. 123A90–DDL–EL–DD–20090 | SHEET 006 | REV. 02

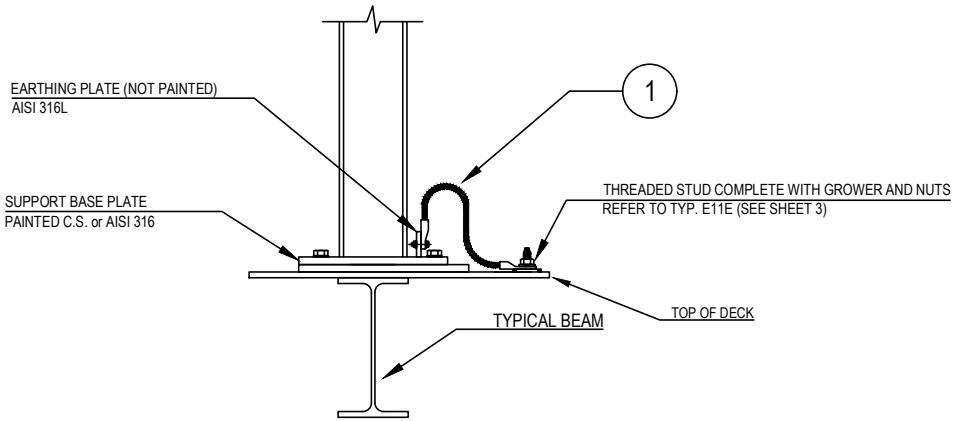
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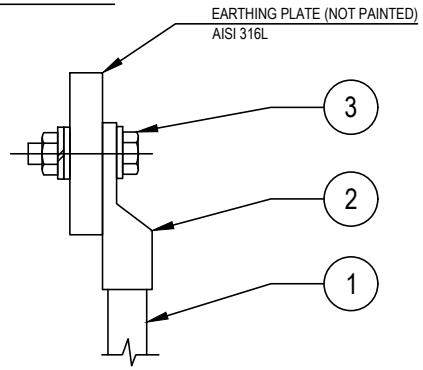
E24

POS.	DESCRIPTION	MATERIAL	SIZE	Q.TY	NOTE
1	As. R. Y/G INSULATING COPPER CONDUCTOR	COPPER	35mm^2		
2	COMPRESSION TYPE LUG FOR INSULATION COPPER CONDUCTOR	TINNED COPPER	35mm^2	2	~~NOTE 1~~
3	HEXAG. BOLT M10X30 COMPLETE WITH PLANE WASHERS, SPRING WASHER AND NUT	AISI 316L	M10X30	2	

GENERIC SUPPORT BOLTED ON STRUCTURE



DETAIL "X"



NOTES:
1) ~~CABLE LUG CRIMPING METHOD SHALL BE HEXAGONAL COMPRESSION DIES ONLY~~
2) EXTERNAL EARTHING CONNECTION ONLY SHALL BE PROTECTED AGAINST CORROSION USING OXIDE RESISTANT COMPOUND (E.G. COPPER GREASE)

VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DD-20090**
REV.: 2_I | DATE: 07/11/24 | SIGNATURE: G.Randi
ROSETTI MARINO SpA

CROSSWIND

ROSETTI MARINO

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	26/08/24	GRA	AMA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	10/06/24	SPS	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	21/11/23	SPS	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL TYPICAL INSTALLATION DETAILS–EARTHING SYSTEM
EARTHING FOR POLE/SUPPORT OF GENERIC EQUIPMENTS

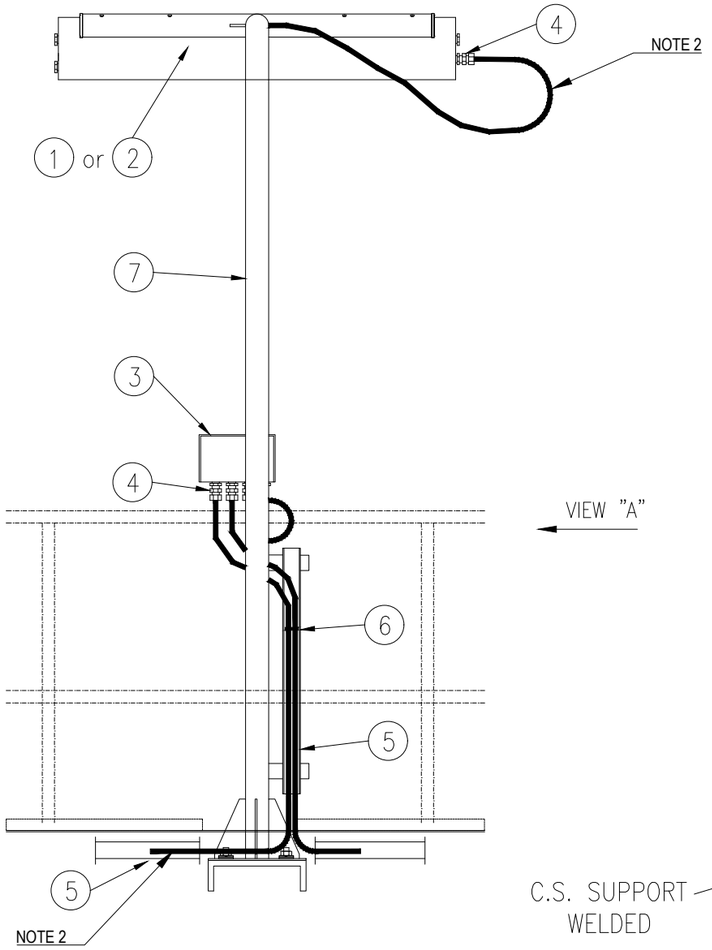
CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK | SCALE : NTS

A3	DRAWING NO.	SHEET	REV.
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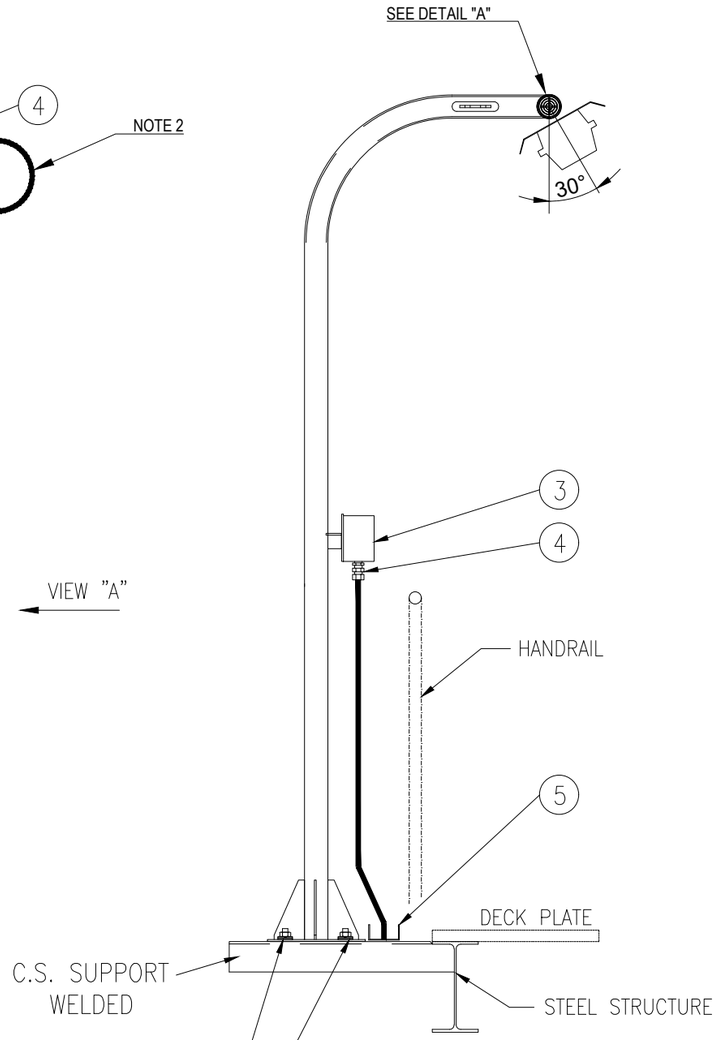
F.to UNI A3: 420mmx297mm

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L11A

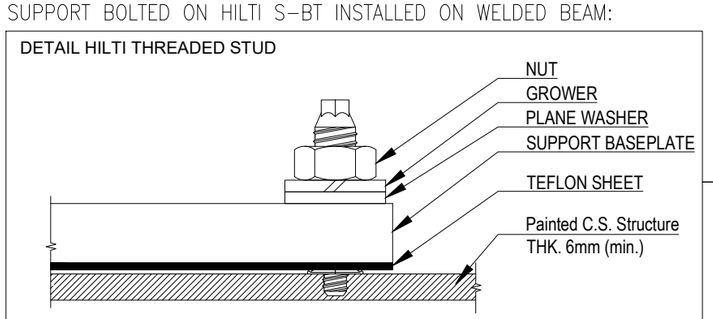


VIEW "A"

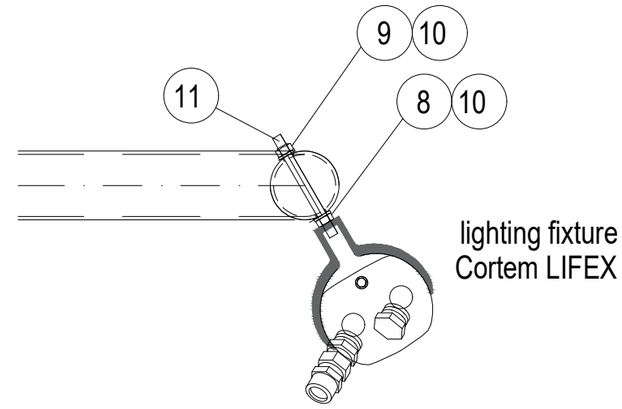


VIEW "A"

SUPPORT BOLTED ON HILTI S-BT INSTALLED ON WELDED BEAM:



POS.	DESCRIPTION	MATERIAL	SIZE	Q.TY	NOTE
1	42W LED LUMINARIES	ALUMINIUM ALLOY		1	
2	45W LED LUMINARIES C/W BATTERY	ALUMINIUM ALLOY		1	
3	JUNCTION BOX (Ex)	GRP		1	NOTE 1
4	CABLE GLAND C/W EARTH TAG, WASHERS, LOCKNUT AND WEATHERPROOF WASHERS	BRASS NICKEL PLATED		AS REQ.	
5	CABLE TRAY	AISI 316L			
6	STAINLESS STEEL NYLON COATED CABLE TIE	SS NYLON COATED			
7	POLE SUPPORT FOR LAMP	AISI 316L	2"		
8	NUT	AISI 316L	M8		
9	SELF.LOCKING NUT	AISI 316L	M8		
10	LARGE PLANE WASHER (24mm DIAM.)	AISI 316L	M8		
11	THREADED ROD M8x100	AISI 316L	M8		



DETAIL "A"

NOTES:

1) FOR LAMPS IN HAZARDOUS AREA, USE ARMOURED CABLE, DOUBLE SEAL CABLE GLAND AND EX JUNCTION BOX.

2) ALWAYS ENSURE CABLE LENGTH IS >3m

VALID FOR CONSTRUCTION
FDL DWG: 123A90-FDL-EL-DD-20091
REV.: 2_A | DATE: 30/09/24 | SIGNATURE: G.Randi
ROSETTI MARINO SpA

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	30/09/24	GRA	AMA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	04/07/24	NLK	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	21/11/23	SPS	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

02

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL TYPICAL INSTALLATION DETAILS-LIGHTING SYSTEM
LIGHTING FIXTURE MOUNTED ON POLE

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK | SCALE : NTS

A3 | DRAWING NO. 123A90-DDL-EL-DD-20091 | SHEET 014 | REV. 02

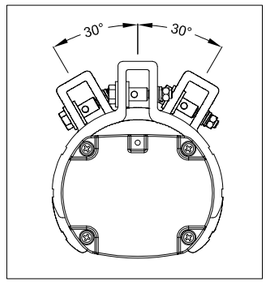
F.to UNI A3: 420mmx297mm

File Name : 123A90-DDL-EL-DD-20091 REV.02.DWG

MODEL C-225 REV.1

GENERAL NOTE:
- PO: 1724001290 DD 26/06/2024
- ITEM.: 1
- Q.TY: 57
- EXTERNAL PAINTING: RAL 7022 (END CAPS)
- INTERNAL PAINTING: NOT PAINTED
- ALL DIMENSIONS ARE IN mm

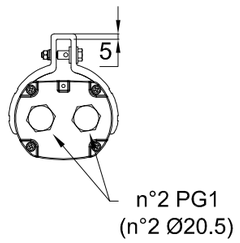
STANDARD FIXING BRACKET
FASTENING WITH 2 THREADED M8
HOLES, ADJUSTABLE FROM 0° TO ±30°



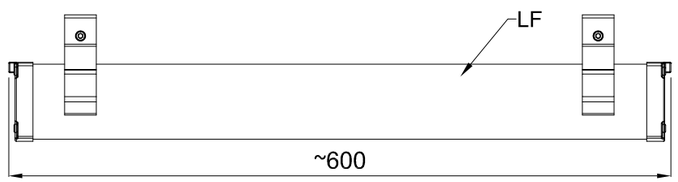
LF INFORMATION	
NOMINAL POWER	45W
CONSUMED POWER	43,5W
POWER FACTOR	>0,93
RATED CURRENT	200 mA
VIEWING ANGLE	120°
COLOUR TEMP.	5000 K
CRI	>80
INSTANT RESTRIKE	YES
LUMEN	6200 lm
LIGHT INTENSITY	2248 cd
EFFICIENCY	143 lm/W
WEIGHT	2,5 Kg
IP PROTECTION	IP66

N°	Q.TY	CODE	DESCRIPTION
LF	1	LIFEX-ME-0645-BB	110-277Vac 50-60Hz 45W LED LINEAR LIGHTING FIXTURE BODY: ALUMINUM ALLOY EXTRUSION AND ALUMINUM END CAPS TRANSPARENT PART: GLASS RESISTANT TO SHOCKS, UV RAYS AND IMPACT RESISTANCE IK09 GASKETS: ACID AND HYDROCARBON RESISTANT SILICONE ASSEMBLY: FASTENING BRACKETS FOR M8 HOLES, ADJUSTABLE 0° TO ±30° MADE IN ANODIZED ALUMINUM CONNECTION: TERMINAL BLOCK ON SIDE (IN) L, N, PE CROSS SEC. MAX. 4mmq SUITABLE FOR LOOP-IN LOOP-OUT SCREWS, BOLTS AND NUTS: STAINLESS STEEL 304
PG1	4	PLG1IB +DL1IB +RDI1IS/A4	IP66 Ex db IIC Gb - Ex eb IIC Gb NICKEL PLATED BRASS PLUG ISO M20x1,5 WITH RELEVANT LOCKNUT AND SERRATED WASHER MADE IN STAINLESS STEEL

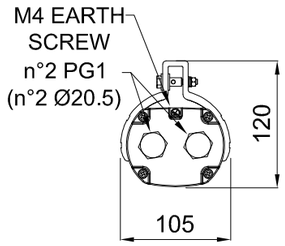
LEFT SIDE (OUT)



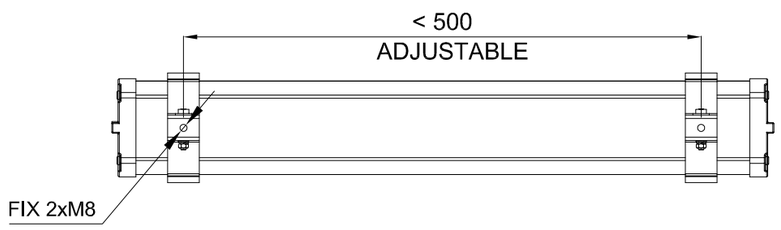
FRONT SIDE



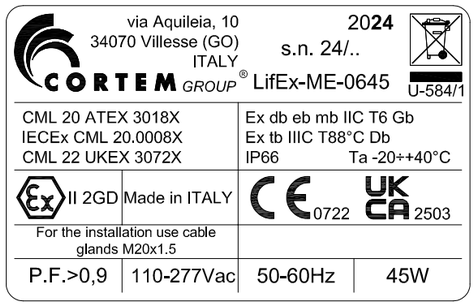
RIGHT SIDE (IN)



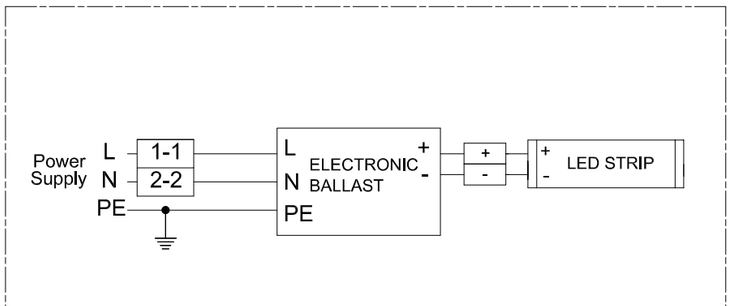
TOP SIDE



CERTIFICATE NAMEPLATE



WIRING DIAGRAM



REV.	DATE	PREP'D	CHK'D	APP'D	DESCRIPTION
2	09/07/2024	FRATTARUOLO	GIUSTI	GRATTON	REISSUED FOR APPROVAL
1	05/07/2024	FRATTARUOLO	GIUSTI	GRATTON	REISSUED FOR APPROVAL
0	28/06/2024	FRATTARUOLO	GIUSTI	GRATTON	ISSUED FOR APPROVAL

DRAWING TITLE: ROSETTI MARINO S.P.A.

CORTEM S.p.a.
GENERAL LAYOUT
001 LIFEX-ME-0645-BB/C2402693/10.

CORTEM JOB: COV2402693
DRAWING SCALE: /
DRAWING NUMBER: A3-C 27521
SHEET: 1
NEXT: 2
TOT.: 2

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AND IT CANNOT BE REPRODUCED WITHOUT CORTEM'S
AUTHORIZATION

Smart Professional R. 2012

Row	Item	Required	Manufacturer Proposal	Comments	Rev.
1	Data Sheet for Lighting Fixtures & Accessories				
2	42W LED Linear Luminaire-Normal Lighting-ATEX Area				
3	Model Number	by vendor	LIFEX-ME-0645-BB		01
4	Serial Number	by vendor			00
5	Quantity	28 Nos.		(25+3 Spare)	01
6	Location / Module	Upper deck			00
7	**LED Lamp**				
8	Nominal power	42 watts	45 watts		01
9	No. of linear	1	1		01
10	Luminous flux	5810 lm	6200 lm		01
11	Colour Temperature	5000 K	5000 K		01
12	**Protection**				
13	Hazardous Area Certification (Ex)	Zone 1 Gas Group IIC (or) IIB + H2, T1	Ex II 2GD Ex db eb mb IIC Gb Ex tb IIIC Db		01
14	Degree of Protection (IP)	IP 56	IP 66		01
15	ATEX certified	Classification EX db	ATEX CML 20 ATEX 3018X		01
16	**Material**				
17	Body	GRP/Aluminium alloy	Aluminium alloy		01
18	Reflector	GRP/Aluminium	Aluminium		01
19	Diffuser	Polycarbonate/temperate glass	Tempered glass		01
20	**Cable Entry**				
21	No. of cable entry	4 Nos.	4 Entries, 2 per side		01
22	Size	M20	Ø20.5mm		01
23	**Emergency Battery Pack**				
24	Requirement	Not required			00
25	Battery type	Not required			00
26	Autonomy	Not required			00
27	Emergency luminous flux	Not required			00
28	**Mechanical parameters**				
29	Dimension	by vendor	600x105x120(mm)		01
30	Weight	by vendor	2.5kg		01

Note:

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Its distribution is electronically controlled. Once printed shall be considered as "NOT CONTROLLED" copy

Tag Number	Tag Description	Location	P.O.	Vendor	Manufacturer	Serial Number	Model Type Catalogue Number	Installation Zone	ATEX Certificate Number	Reference Document	ATEX Certification Marking	Notes / Comments	Skid / Package	Electrical Equip.	Barrier Calculation Ref.	Special Conditions of Safe Use Applicable	3D Location
ELF-200N1-02-L1-17	Normal Lighting Fixture	UPPER DECK	1724001290	Cortem Spa	Cortem Spa	24/86772	LIFEX-ME-0645-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	
ELF-200N1-02-L1-18	Normal Lighting Fixture	UPPER DECK	1724001290	Cortem Spa	Cortem Spa	24/86772	LIFEX-ME-0645-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	
ELF-200N1-02-L1-19	Normal Lighting Fixture	UPPER DECK	1724001290	Cortem Spa	Cortem Spa	24/86772	LIFEX-ME-0645-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	
ELF-200N1-02-L1-20	Normal Lighting Fixture	UPPER DECK	1724001290	Cortem Spa	Cortem Spa	24/86772	LIFEX-ME-0645-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	
ELF-200N1-02-L1-21	Normal Lighting Fixture	UPPER DECK	1724001290	Cortem Spa	Cortem Spa	24/86772	LIFEX-ME-0645-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	
ELF-200N1-02-L1-22	Normal Lighting Fixture	UPPER DECK	1724001290	Cortem Spa	Cortem Spa	24/86772	LIFEX-ME-0645-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	
ELF-200N1-02-L1-23	Normal Lighting Fixture	UPPER DECK	1724001290	Cortem Spa	Cortem Spa	24/86772	LIFEX-ME-0645-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	
ELF-200N1-02-L1-24	Normal Lighting Fixture	UPPER DECK	1724001290	Cortem Spa	Cortem Spa	24/86772	LIFEX-ME-0645-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	
ELF-200N1-02-L1-25	Normal Lighting Fixture	UPPER DECK	1724001290	Cortem Spa	Cortem Spa	24/86772	LIFEX-ME-0645-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	
ELF-200N1-03-L2-01	Normal Lighting Fixture	LOWER DECK	1724001290	Cortem Spa	Cortem Spa	24/86772	LIFEX-ME-0645-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	
ELF-200N1-03-L2-02	Normal Lighting Fixture	LOWER DECK	1724001290	Cortem Spa	Cortem Spa	24/86772	LIFEX-ME-0645-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	
ELF-200N1-03-L2-03	Normal Lighting Fixture	LOWER DECK	1724001290	Cortem Spa	Cortem Spa	24/86772	LIFEX-ME-0645-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	
ELF-200N1-03-L2-04	Normal Lighting Fixture	LOWER DECK	1724001290	Cortem Spa	Cortem Spa	24/86772	LIFEX-ME-0645-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	
ELF-200N1-03-L2-05	Normal Lighting Fixture	LOWER DECK	1724001290	Cortem Spa	Cortem Spa	24/86772	LIFEX-ME-0645-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	
ELF-200N1-03-L2-06	Normal Lighting Fixture	LOWER DECK	1724001290	Cortem Spa	Cortem Spa	24/86772	LIFEX-ME-0645-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	
ELF-200N1-03-L2-07	Normal Lighting Fixture	LOWER DECK	1724001290	Cortem Spa	Cortem Spa	24/86772	LIFEX-ME-0645-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	
ELF-200N1-03-L2-08	Normal Lighting Fixture	LOWER DECK	1724001290	Cortem Spa	Cortem Spa	24/86772	LIFEX-ME-0645-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	
ELF-200N1-03-L2-09	Normal Lighting Fixture	LOWER DECK	1724001290	Cortem Spa	Cortem Spa	24/86772	LIFEX-ME-0645-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	
ELF-200N1-03-L2-10	Normal Lighting Fixture	LOWER DECK	1724001290	Cortem Spa	Cortem Spa	24/86772	LIFEX-ME-0645-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	
ELF-200N1-03-L2-11	Normal Lighting Fixture	LOWER DECK	1724001290	Cortem Spa	Cortem Spa	24/86772	LIFEX-ME-0645-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	
ELF-200N1-03-L2-12	Normal Lighting Fixture	LOWER DECK	1724001290	Cortem Spa	Cortem Spa	24/86772	LIFEX-ME-0645-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	
ELF-200N1-03-L2-13	Normal Lighting Fixture	LOWER DECK	1724001290	Cortem Spa	Cortem Spa	24/86772	LIFEX-ME-0645-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	
ELF-200N1-03-L2-14	Normal Lighting Fixture	LOWER DECK	1724001290	Cortem Spa	Cortem Spa	24/86772	LIFEX-ME-0645-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	
ELF-200N1-03-L2-15	Normal Lighting Fixture	LOWER DECK	1724001290	Cortem Spa	Cortem Spa	24/86772	LIFEX-ME-0645-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	
ELF-200N1-03-L2-16	Normal Lighting Fixture	LOWER DECK	1724001290	Cortem Spa	Cortem Spa	24/86772	LIFEX-ME-0645-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	
ELF-200N1-04-L3-01	Stair Normal Lighting Fixture	LOWER DECK	1724001290	Cortem Spa	Cortem Spa	24/86772	LIFEX-ME-0645-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	
ELF-200N1-04-L3-02	Stair Normal Lighting Fixture	LOWER DECK	1724001290	Cortem Spa	Cortem Spa	24/86772	LIFEX-ME-0645-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	
ELF-200N1-08-L1-01	Emergency Lighting Fixture	UPPER DECK	1724001290	Cortem Spa	Cortem Spa	24/86773	LIFEX-ME-1260N-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	
ELF-200N1-08-L1-02	Emergency Lighting Fixture	UPPER DECK	1724001290	Cortem Spa	Cortem Spa	24/86773	LIFEX-ME-1260N-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	
ELF-200N1-08-L1-03	Emergency Lighting Fixture	UPPER DECK	1724001290	Cortem Spa	Cortem Spa	24/86773	LIFEX-ME-1260N-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	
ELF-200N1-08-L1-04	Emergency Lighting Fixture	UPPER DECK	1724001290	Cortem Spa	Cortem Spa	24/86773	LIFEX-ME-1260N-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	
ELF-200N1-08-L1-05	Emergency Lighting Fixture	UPPER DECK	1724001290	Cortem Spa	Cortem Spa	24/86773	LIFEX-ME-1260N-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	HAZARDOUS-AREA_8
ELF-200N1-08-L1-06	Emergency Lighting Fixture	UPPER DECK	1724001290	Cortem Spa	Cortem Spa	24/86773	LIFEX-ME-1260N-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	HAZARDOUS-AREA_8 HAZARDOUS-AREA_3 HAZARDOUS-AREA_1 HAZARDOUS-AREA_2
ELF-200N1-08-L1-07	Emergency Lighting Fixture	UPPER DECK	1724001290	Cortem Spa	Cortem Spa	24/86773	LIFEX-ME-1260N-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	HAZARDOUS-AREA_8
ELF-200N1-08-L1-08	Emergency Lighting Fixture	UPPER DECK	1724001290	Cortem Spa	Cortem Spa	24/86773	LIFEX-ME-1260N-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	HAZARDOUS-AREA_3 HAZARDOUS-AREA_6
ELF-200N1-08-L1-09	Emergency Lighting Fixture	UPPER DECK	1724001290	Cortem Spa	Cortem Spa	24/86773	LIFEX-ME-1260N-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	HAZARDOUS-AREA_1 HAZARDOUS-AREA_4
ELF-200N1-08-L1-10	Emergency Lighting Fixture	UPPER DECK	1724001290	Cortem Spa	Cortem Spa	24/86773	LIFEX-ME-1260N-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	HAZARDOUS-AREA_4 HAZARDOUS-AREA_1
ELF-200N1-08-L1-11	Emergency Lighting Fixture	UPPER DECK	1724001290	Cortem Spa	Cortem Spa	24/86773	LIFEX-ME-1260N-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	HAZARDOUS-AREA_6 HAZARDOUS-AREA_3
ELF-200N1-08-L1-12	Emergency Lighting Fixture	UPPER DECK	1724001290	Cortem Spa	Cortem Spa	24/86773	LIFEX-ME-1260N-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	
ELF-200N1-08-L1-13	Emergency Lighting Fixture	UPPER DECK	1724001290	Cortem Spa	Cortem Spa	24/86773	LIFEX-ME-1260N-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	
ELF-200N1-08-L1-14	Emergency Lighting Fixture	UPPER DECK	1724001290	Cortem Spa	Cortem Spa	24/86773	LIFEX-ME-1260N-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	
ELF-200N1-08-L1-15	Emergency Lighting Fixture	UPPER DECK	1724001290	Cortem Spa	Cortem Spa	24/86773	LIFEX-ME-1260N-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	
ELF-200N1-08-L1-16	Emergency Lighting Fixture	UPPER DECK	1724001290	Cortem Spa	Cortem Spa	24/86773	LIFEX-ME-1260N-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	
ELF-200N1-08-L1-17	Emergency Lighting Fixture	UPPER DECK	1724001290	Cortem Spa	Cortem Spa	24/86773	LIFEX-ME-1260N-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	
ELF-200N1-08-L1-18	Emergency Lighting Fixture	UPPER DECK	1724001290	Cortem Spa	Cortem Spa	24/86773	LIFEX-ME-1260N-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	
ELF-200N1-08-L1-19	Emergency Lighting Fixture	UPPER DECK	1724001290	Cortem Spa	Cortem Spa	24/86773	LIFEX-ME-1260N-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	
ELF-200N1-08-L1-20	Emergency Lighting Fixture	UPPER DECK	1724001290	Cortem Spa	Cortem Spa	24/86773	LIFEX-ME-1260N-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	
ELF-200N1-08-L1-21	Emergency Lighting Fixture	UPPER DECK	1724001290	Cortem Spa	Cortem Spa	24/86773	LIFEX-ME-1260N-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	
ELF-200N1-08-L1-22	Emergency Lighting Fixture	UPPER DECK	1724001290	Cortem Spa	Cortem Spa	24/86773	LIFEX-ME-1260N-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	
ELF-200N1-08-L1-23	Emergency Lighting Fixture	UPPER DECK	1724001290	Cortem Spa	Cortem Spa	24/86773	LIFEX-ME-1260N-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	
ELF-200N1-09-L2-01	Emergency Lighting Fixture	LOWER DECK	1724001290	Cortem Spa	Cortem Spa	24/86773	LIFEX-ME-1260N-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	
ELF-200N1-09-L2-02	Emergency Lighting Fixture	LOWER DECK	1724001290	Cortem Spa	Cortem Spa	24/86773	LIFEX-ME-1260N-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	
ELF-200N1-09-L2-03	Emergency Lighting Fixture	LOWER DECK	1724001290	Cortem Spa	Cortem Spa	24/86773	LIFEX-ME-1260N-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	
ELF-200N1-09-L2-04	Emergency Lighting Fixture	LOWER DECK	1724001290	Cortem Spa	Cortem Spa	24/86773	LIFEX-ME-1260N-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	
ELF-200N1-09-L2-05	Emergency Lighting Fixture	LOWER DECK	1724001290	Cortem Spa	Cortem Spa	24/86773	LIFEX-ME-1260N-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	
ELF-200N1-09-L2-06	Emergency Lighting Fixture	LOWER DECK	1724001290	Cortem Spa	Cortem Spa	24/86773	LIFEX-ME-1260N-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	
ELF-200N1-09-L2-07	Emergency Lighting Fixture	LOWER DECK	1724001290	Cortem Spa	Cortem Spa	24/86773	LIFEX-ME-1260N-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	
ELF-200N1-09-L2-08	Emergency Lighting Fixture	LOWER DECK	1724001290	Cortem Spa	Cortem Spa	24/86773	LIFEX-ME-1260N-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	
ELF-200N1-09-L2-09	Emergency Lighting Fixture	LOWER DECK	1724001290	Cortem Spa	Cortem Spa	24/86773	LIFEX-ME-1260N-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	
ELF-200N1-09-L2-10	Emergency Lighting Fixture	LOWER DECK	1724001290	Cortem Spa	Cortem Spa	24/86773	LIFEX-ME-1260N-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	
ELF-200N1-09-L2-11	Emergency Lighting Fixture	LOWER DECK	1724001290	Cortem Spa	Cortem Spa	24/86773	LIFEX-ME-1260N-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	
ELF-200N1-09-L2-12	Emergency Lighting Fixture	LOWER DECK	1724001290	Cortem Spa	Cortem Spa	24/86773	LIFEX-ME-1260N-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	
ELF-200N1-09-L2-13	Emergency Lighting Fixture	LOWER DECK	1724001290	Cortem Spa	Cortem Spa	24/86773	LIFEX-ME-1260N-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	
ELF-200N1-09-L2-14	Emergency Lighting Fixture	LOWER DECK	1724001290	Cortem Spa	Cortem Spa	24/86773	LIFEX-ME-1260N-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	
ELF-200N1-09-L2-15	Emergency Lighting Fixture	LOWER DECK	1724001290	Cortem Spa	Cortem Spa	24/86773	LIFEX-ME-1260N-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	
ELF-200N1-09-L2-16	Emergency Lighting Fixture	LOWER DECK	1724001290	Cortem Spa	Cortem Spa	24/86773	LIFEX-ME-1260N-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	
ELF-200N1-09-L2-17	Emergency Lighting Fixture	LOWER DECK	1724001290	Cortem Spa	Cortem Spa	24/86773	LIFEX-ME-1260N-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	
ELF-200N1-09-L2-18	Emergency Lighting Fixture	LOWER DECK	1724001290	Cortem Spa	Cortem Spa	24/86773	LIFEX-ME-1260N-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	
ELF-200N1-09-L2-19	Emergency Lighting Fixture	LOWER DECK	1724001290	Cortem Spa	Cortem Spa	24/86773	LIFEX-ME-1260N-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	
ELF-200N1-09-L2-20	Emergency Lighting Fixture	LOWER DECK	1724001290	Cortem Spa	Cortem Spa	24/86773	LIFEX-ME-1260N-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	
ELF-200N1-09-L2-21	Emergency Lighting Fixture	LOWER DECK	1724001290	Cortem Spa	Cortem Spa	24/86773	LIFEX-ME-1260N-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	
ELF-200N1-09-L2-22	Emergency Lighting Fixture	LOWER DECK	1724001290	Cortem Spa	Cortem Spa	24/86773	LIFEX-ME-1260N-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	
ELF-200N1-09-L2-23	Emergency Lighting Fixture	LOWER DECK	1724001290	Cortem Spa	Cortem Spa	24/86773	LIFEX-ME-1260N-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	
ELF-200N1-09-L2-24	Emergency Lighting Fixture	BELOW LOWER DECK	1724001290	Cortem Spa	Cortem Spa	24/86773	LIFEX-ME-1260N-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	

EU Type Examination Certificate CML 20ATEX3018X Issue 1

1 Equipment intended for use in Potentially Explosive Atmospheres Directive 2014/34/EU

2 Equipment **LifEx-ME, LifEx-MN and LifEx-MT series of linear lighting fixtures**

3 Manufacturer **Cortem S.p.A.**

4 Address **Via Aquileia 10**
34070 Villesse
(GO)
Italy

5 The equipment is specified in the description of this certificate and the documents to which it refers.

6 CML B.V., Chamber of Commerce No 6738671, Koopvaardijweg 32, 4906CV Oosterhout, The Netherlands, Notified Body Number 2776, in accordance with Article 17 of Directive 2014/34/EU of the European Parliament and of the Council, dated 26 February 2014, certifies that this equipment has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of equipment intended for use in potentially explosive atmospheres given in Annex II to the Directive.

The examination and test results are recorded in the confidential reports listed in Section 12.

7 If an 'X' suffix appears after the certificate number, it indicates that the equipment is subject to conditions of safe use (affecting correct installation or safe use). These are specified in Section 14.

8 This EU Type Examination certificate relates only to the design and construction of the specified equipment or component. Further requirements of Directive 2014/34/EU Article 13 apply to the manufacture of the equipment or component and are separately certified.

9 Compliance with the Essential Health and Safety Requirements, with the exception of those listed in the confidential report, has been demonstrated through compliance with the following documents:

EN IEC 60079-0:2018	EN 60079-1:2014	EN IEC 60079-7:2015+A1:2018
EN 60079-18:2015+A1:2017	EN 60079-31:2014	

10 The equipment shall be marked with the following:

LifEx-ME	LifEx-MN and LifEx-MT
Ex db eb mb IIC T.. Gb	Ex tb IIIC T…°C Db
Ex eb mb IIC T.. Gb *(when Ex mb LED drivers are used)*	IP66
Ex tb IIIC T…°C Db	
IP66	
Ta=* see description	Ta=* see description

11 Description

The LifEx is a range of linear LED lighting fixtures that are available in three different configurations for different applications, designated as the LifEx-ME, LifEx-MT and LifEx-MN.

LifEx-ME

The LifEx-ME version has an Equipment Protection Level of EPL Gb and Db and utilises types of protection increased safety (eb) and dust protection by enclosure (tb), along with encapsulation (mb) for the light source and flameproof (db) for the driver.

It is constructed from an aluminium enclosure, with either a glass or polycarbonate lens and with optional polycarbonate diffuser.

LifEx-MN

The LifEx-MN version has an Equipment Protection Level of EPL Gc and Db and utilises types of protection increased safety (ec) and dust protection by enclosure (tb).

It is constructed from an aluminium enclosure, with polycarbonate diffuser and/or with optional glass or polycarbonate lens.

LifEx-MT

The LifEx-MT versions has an Equipment Protection Level of EPL Db and utilises types of protection dust protection by enclosure (tb).

It is constructed from an aluminium enclosure, with polycarbonate diffuser and/or with optional glass or polycarbonate lens.

Design Options

Every configuration is available in lengths ranging from 300 mm to 1500 mm, and power ratings up to a maximum of 105W of nominal power.

The LifEx can be used in only normal service, in only emergency service or in normal and emergency service.

The minimum ambient temperature for the range is:

- -60°C for versions without battery
- -60°C for versions with the battery heater
- -20°C for versions with battery

The range is available with the following maximum ambient temperatures:

	With glass lens and with/without polycarbonate diffuser	With Polycarbonate lens and with/without polycarbonate diffuser	Without lens polycarbonate diffuser only
LifEx-M...0310	+60°C	+60°C	+60°C
LifEx-M...0315	+60°C	+60°C	+60°C
LifEx-M...0330	+60°C	Configuration not available	Configuration not available
LifEx-M...0615	+60°C	+60°C	+60°C
LifEx-M...0630	+60°C	+50°C	+60°C
LifEx-M...0645	+57°C	+47°C	+60°C
LifEx-M...0660	+47°C	Configuration not available	+58°C
LifEx-M...1230	+60°C	+60°C	+60°C
LifEx-M...1260	+60°C	+50°C	+60°C
LifEx-M...1290	+60°C	+40°C	+60°C
LifEx-M...12120	+54°C	Configuration not available	+60°C
LifEx-M...1590	+60°C	+40°C	+60°C

Table 1: Maximum Ambient Temperatures

The following tables provide the Temperature Class (EPL Gb) and Maximum Surface Temperature (EPL Db) for each LifEx type, with the following notes:

- The LifEx-MN with an ambient temperature greater than 50°C is T5 or T4. T6 is not included.
- The Temperature Class (EPL Gb) and Maximum Surface Temperature (EPL Db) in the tables below are not applicable when the ambient temperature is not permitted in the above maximum ambient temperature range table.

13. (For example, the LifEx-M...0660 is not permitted with polycarbonate lens, therefore the Temperature Class (EPL Gb) and Maximum Surface Temperature (EPL Db) for this version in tables 2 and 3 are not applicable)

	Temperature Class (EPL Gb and Gc) and Maximum Surface Temperature (EPL Db) Based on ambient temperature													
	40°C		45°C		47°C		50°C		54°C		57°C		60°C	
	EPL Db	EPL Gb/Gc	EPL Db	EPL Gb/Gc	EPL Db	EPL Gb/Gc	EPL Db	EPL Gb/Gc	EPL Db	EPL Gb/Gc	EPL Db	EPL Gb/Gc	EPL Db	EPL Gb/Gc
LifEx-M...0310	T56°C	T6	T56°C	T6	T58°C	T6	T61°C	T6	T65°C	T6	T68°C	T6	T71°C	T6
LifEx-M...0315	T56°C	T6	T56°C	T6	T58°C	T6	T61°C	T6	T65°C	T6	T68°C	T6	T71°C	T6
LifEx-M...0615	T56°C	T6	T56°C	T6	T58°C	T6	T61°C	T6	T65°C	T6	T68°C	T6	T71°C	T6
LifEx-M...0630	T69°C	T6	T69°C	T5	T71°C	T5	T74°C	T5	T78°C	T5	T81°C	T4	T84°C	T4
LifEx-M...0645	T72°C	T5	T72°C	T5	T74°C	T5	T77°C	T5	T81°C	T4	T84°C	T4	T87°C	T4
LifEx-M...0660	T77°C	T5	T77°C	T4	T79°C	T4	T82°C	T4	T86°C	T4	T89°C	T4	T92°C	T4
LifEx-M...1230	T58°C	T6	T58°C	T6	T60°C	T6	T63°C	T6	T67°C	T6	T70°C	T6	T73°C	T6
LifEx-M...1260	T67°C	T6	T67°C	T5	T69°C	T5	T72°C	T5	T76°C	T5	T79°C	T4	T82°C	T4
LifEx-M...1290	T72°C	T5	T72°C	T5	T74°C	T4	T77°C	T4	T81°C	T4	T84°C	T4	T87°C	T4
LifEx-M...12120	T75°C	T5	T75°C	T4	T77°C	T4	T80°C	T4	T84°C	T4	T87°C	T4	T90°C	T4
LifEx-M...1590	T72°C	T5	T72°C	T5	T74°C	T4	T77°C	T4	T81°C	T4	T84°C	T4	T87°C	T4

Table 2: Temperature Class (EPL Gb) and Maximum Surface Temperature (EPL Db) for LifEx types with glass/polycarbonate lens and with polycarbonate diffuser

	Temperature Class (EPL Gb and Gc) and Maximum Surface Temperature (EPL Db) Based on ambient temperature					
	40°C		55°C		60°C	
	EPL Db	EPL Gc	EPL Db	EPL Gc	EPL Db	EPL Gc
LifEx-ME-0330	T58°C	T6	T73°C	T6	T78°C	T5
LifEx-MN-0330	T58°C	T6	T73°C	T5	T78°C	T4
LifEx-MT-0330	T58°C	-	T73°C	-	T78°C	-

Table 3: Temperature Class (EPL Gb and Gc) and Maximum Surface Temperature (EPL Db) for LifEx-M...-0330 types with glass/polycarbonate window and without polycarbonate diffuser

	Temperature Class (EPL Gb) and Maximum Surface Temperature (EPL Db) Based on ambient temperature													
	40°C		45°C		47°C		50°C		54°C		57°C		60°C	
	EPL Db	EPL Gb	EPL Db	EPL Gb	EPL Db	EPL Gb	EPL Db	EPL Gb	EPL Db	EPL Gb	EPL Db	EPL Gb	EPL Db	EPL Gb
LifEx-M...0310	T62°C	T6	T62°C	T6	T64°C	T6	T67°C	T6	T71°C	T6	T74°C	T6	T77°C	T6
LifEx-M...0315	T62°C	T6	T62°C	T6	T64°C	T6	T67°C	T6	T71°C	T6	T74°C	T6	T77°C	T6
LifEx-M...0615	T62°C	T6	T62°C	T6	T64°C	T6	T67°C	T6	T71°C	T6	T74°C	T6	T77°C	T6
LifEx-M...0630	T85°C	T6	T85°C	T5	T87°C	T5	T90°C	T5	T94°C	T5	T97°C	T4	T100°C	T4
LifEx-M...0645	T88°C	T6	T88°C	T5	T90°C	T5	T93°C	T5	T97°C	T4	T100°C	T4	T103°C	T4
LifEx-M...0660	T100°C	T6	T100°C	T4	T102°C	T4	T105°C	T4	T109°C	T4	T112°C	T4	T115°C	T4
LifEx-M...1230	T65°C	T6	T65°C	T6	T67°C	T6	T70°C	T6	T74°C	T6	T77°C	T6	T80°C	T6
LifEx-M...1260	T85°C	T6	T85°C	T5	T87°C	T5	T90°C	T5	T94°C	T5	T97°C	T4	T100°C	T4
LifEx-M...1290	T94°C	T6	T94°C	T5	T96°C	T4	T99°C	T4	T103°C	T4	T106°C	T4	T109°C	T4
LifEx-M...12120	T96°C	T5	T96°C	T4	T98°C	T4	T101°C	T4	T105°C	T4	T108°C	T4	T111°C	T4
LifEx-M...1590	T94°C	T6	T94°C	T5	T96°C	T4	T99°C	T4	T103°C	T4	T106°C	T4	T109°C	T4

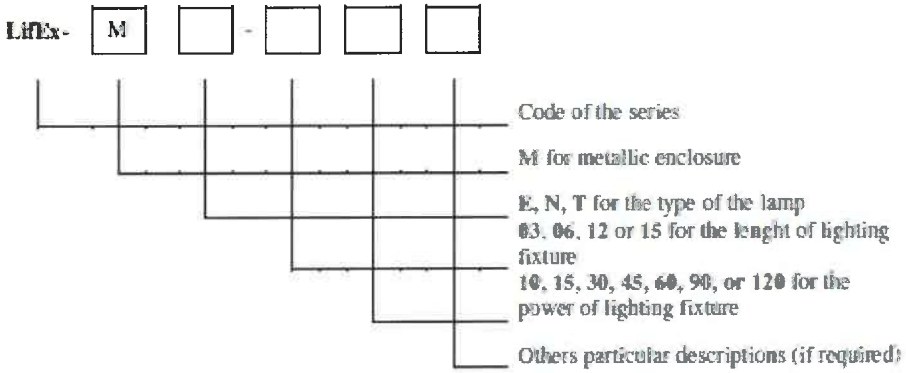
Table 4: Temperature Class (EPL Gb) and Maximum Surface Temperature (EPL Db) for LifEx types with glass/polycarbonate lens and without polycarbonate diffuser

	Maximum Surface Temperature (EPL Db) Based on ambient temperature						
	40°C	45°C	47°C	50°C	54°C	57°C	60°C
LifEx-M...0310	T56°C	T56°C	T58°C	T61°C	T65°C	T68°C	T71°C
LifEx-M...0315	T56°C	T56°C	T58°C	T61°C	T65°C	T68°C	T71°C
LifEx-M...0615	T56°C	T56°C	T58°C	T61°C	T65°C	T68°C	T71°C
LifEx-M...0630	T69°C	T69°C	T71°C	T74°C	T78°C	T81°C	T84°C
LifEx-M...0645	T72°C	T72°C	T74°C	T77°C	T81°C	T84°C	T87°C
LifEx-M...0660	T77°C	T77°C	T79°C	T82°C	T86°C	T89°C	T92°C
LifEx-M...1230	T58°C	T58°C	T60°C	T63°C	T67°C	T70°C	T73°C
LifEx-M...1260	T67°C	T67°C	T69°C	T72°C	T76°C	T79°C	T82°C
LifEx-M...1290	T72°C	T72°C	T74°C	T77°C	T81°C	T84°C	T87°C
LifEx-M...12120	T75°C	T75°C	T77°C	T80°C	T84°C	T87°C	T90°C
LifEx-M...1590	T72°C	T72°C	T74°C	T77°C	T81°C	T84°C	T87°C

Table 5: (Applicable to EPL Db only) Maximum Surface Temperature for LifEx types without glass/polycarbonate lens and with polycarbonate diffuser

The equipment has been separately tested against the requirements of IEC 60529 and it meets IP66. The gaskets on the caps provide the degree of protection.

The equipment uses the following nomenclature:



Variation 1:

This variation has assed the following changes:

i. Addition of an optional new removable cover for "easy installation" (which use the new aluminium extrusion);
ii. Addition of an optional external battery box;
iii. minimum ambient temperature extended to -60°C when Ex mb heater is used;
iv. Additional optional Ex mb EBM LED driver as an alternative to EBL3040 / EBL4040 Ex db series LED drivers;
v. added 30W model for size 300mm (LifEx-M..-0330).

12 Certificate history and evaluation reports

Issue	Date	Associated report	Notes
0	06 May 2020	R13027A/00	Prime Issue
1	01 Jul 2022	R14875A/00	Introduction of Variation 1

Note: Drawings that describe the equipment or component are listed in the Annex.

13 Conditions of Manufacture

The following conditions are required of the manufacturing process for compliance with the certification.

i. Where the product incorporates certified parts or safety critical components the manufacturer shall ensure that any changes to those parts or components do not affect the compliance of the certified product that is the subject of this certificate.
ii. The LifEx series lighting fixtures are to be designed in accordance with general electrical safety standards.
iii. The routine dielectric strength test on the LifEx-ME and LifEx-MN luminaries with applied voltage shall be performed at 2U + 1000V with a minimum value of 1560V (U = maximum rated voltage of the lamp)

iv. A routine visual inspection of the encapsulated parts is required, as per Clause 9.1 of IEC 60079-18. There shall be no visible damage or deformation to the encapsulant.

v. Where the removable battery pack is used with phoenix contacts, if used with a T6 version of the equipment, the maximum ambient shall be limited to +40°C.

14 Specific Conditions of Use (Special Conditions)

The following conditions relate to safe installation and/or use of the equipment.

i. Cable entries are provided which have less than 5 threads engaged. Care must be taken to ensure the correct gaskets and washers are sued with the cable gland to maintain IP66.

ii. The equipment uses an external part that is constructed from non-metallic materials, and as such care is to be taken to prevent an electro-static charging hazard. See instruction manual for details.

iii. For versions with glass window of 4mm thickness without cover, the luminaire must be installed in a location with a low risk of mechanical danger

iv. The temperature at the entry point may reach up to 75°C. Suitably rated cable glands must be used.

Certificate Annex

Certificate Number	**CML 20ATEX3018X**
Equipment	**LifEx-ME, LifEx-MN and LifEx-MT series of linear lighting fixtures**
Manufacturer	**Cortem S.p.A.**

The following documents describe the equipment or component defined in this certificate:

Issue 0

Drawing No	Sheets	Rev	Approved date	Title
A3-7466	1 to 6	0	06 May 2020	LifEx-M Luminaires
A4-7467	1 to 6	0	06 May 2020	Technical Note

Issue 1

Drawing No.	Sheets	Rev	Approved date	Title
A3-7466	1 of 6	1	01 Jul 2022	LifEx-M Luminaires Assembly and External Dimensions
A3-7466	2 of 6	1	01 Jul 2022	LifEx-M Luminaires Detail of sealing and op is protection
A3-7466	3 of 6	1	01 Jul 2022	LifEx-M Luminaires Detail of driver and inverter for LifEx-ME version
A3-7466	4 of 6	1	01 Jul 2022	LifEx-M Luminaires Circuit diagram for LifeEx-ME version
A3-7466	5 of 6	1	01 Jul 2022	LifEx-M Luminaires Circuit diagram LifEx-MN and LifEx-MT version
A3-7466	6 of 6	1	01 Jul 2022	LifEx-M Luminaires Detail of battery pack
A3-7729	1 to 3	0	01 Jul 2022	Battery heater for -60°C /-40°C applications Assembly and External Dimensions
A4-7727	1 to 8	0	01 Jul 2022	Technical Note

ITEM	Tag	ELF-200N1-02-L1-18	: NORMAL LIGHT	Dwg	123A90-DDL-EL-DL-20118
	S/Sys	83-40	: Normal Lighting Upper Deck	Module	UD
TASK	code	C10001673	Location: Onshore Activities	User	Rosetti Marino Quality Control
FORM	Process	MC	Activity: CCK / Discipline: ATEX / Form: CJX01		Hazardous Area Equipment Detailed Inspection

Schedule Ref. #				**Area Code**					
Area Class Drawing	123A90-DDL-SAF-DL-30022			**Serial No.**	24/86772				
Manufacturer	Cortem Spa			**Model**	LIFEX-ME-0645-BB				
Cert No.	CML 20 ATEX 3018X			**Equipment Ambient Temp.**	-60°C to +50°C				
Area Classification	hazardous	**Zone**	2	**Gas group**	IIC	**Temp class**	T1		
Equipment Protection Type	Ex db	**EPL**	Gb	**Gas group**	IIC	**Temp class**	T5	**IP Rating**	IP66

Detailed Note:

1) Inspection shall only be performed by competent personnel

2) All fields are to be completed. Any non-applicable field shall state “NA”. Comments are required for ‘Failure’ column ONLY.

3) An Inspection Sheet should be completed for EACH individual item of Equipment.

	General Equipment	Detailed	OK/NA/PL	Comments
1	Equipment is appropriate to the EPL / Zone requirements of the area	x	OK	
2	Equipment group is correct	x	OK	
3	Equipment temperature class is correct	x	OK	
4	Degree of IP protection of equipment is appropriate for the level of protection	x	OK	
5	Equipment circuit identification is correct	x	PL	
6	Equipment circuit identification is available	x	NA	
7	Enclosure glass parts and glass-to-metal sealing gaskets and / or compounds are satisfactory	x	OK	
8	There is no damage or unauthorized modifications	x	OK	
9	There is no evidence of unauthorized modifications	x	OK	
10	Bolts, cable entry devices (direct and indirect) & blanking elements are of the correct type, are complete & tight		OK	
	Physical check	x	OK	
11	Threaded covers on enclosures are of the correct type, are tight and secured		OK	
	Physical check	x	OK	
12	Joint surfaces are clean and undamaged and gaskets, if any, are satisfactory and positioned correctly	x	OK	
13	Condition of enclosure gaskets is satisfactory	x	OK	
14	There is no evidence or ingress of water or dust in the enclosure in accordance with the IP rating	x	OK	
15	Electrical connections are tight	x	OK	
16	Bridging links do not reduce creepage / clearance and are allowed	x	OK	
17	Unused terminals are tightened	x	OK	
18	Encapsulated components are undamaged	x	NA	
19	Flameproof components are undamaged	x	NA	
20	Fluorescent lamps are not indicating EOL effects (only for Ex “e” – Ex “n” – Ex “t”)	x	NA	
21	HID lamps are not indicating EOL effects	x	NA	
22	Lamp type, rating, pin configuration and position are correct	x	OK	
23	Breathing and drainage devices are satisfactory	x	NA	
24	Type of cable is appropriate	x	OK	
25	There is no obvious damage to the cables	x	OK	
26	Cable glands are the correct type and installed correctly	x	OK	
27	Sealing of trunking, ducts, pipes and or conduits is satisfactory	x	OK	
28	Stopping boxes and cable boxes are corrected filled	x	OK	

ITEM	Tag	ELF-200N1-02-L1-18	: NORMAL LIGHT			Dwg	123A90-DDL-EL-DL-20118
	S/Sys	83-40	: Normal Lighting Upper Deck			Module	UD
TASK	code	C10001673		Location	Onshore Activities	User	Rosetti Marino Quality Control
FORM	Process	MC	Activity CCK	Discipline	ATEX	Form	CJX01 Hazardous Area Equipment Detailed Inspection

29	Integrity of conduit system and interface with mixed system maintained	x	NA	
30	Earthing connections, including any supplementary earthing bonding connections are satisfactory (for example connections are tight and conductors are of sufficient cross-section		OK	
	Physical check	x	OK	
31	Automated electric protective devices operate within permitted limits	x	NA	
32	Special conditions (if applicable) have been complied with.	x	OK	
33	All cable cores are uniquely labeled	x	OK	
34	Cable cores not in use are correctly terminated	x	NA	
35	Equipment is adequately protected against corrosion, weather, vibration and other adverse factors	x	PL	
36	No undue accumulation of dust and dirt	x	OK	
37	All equipment housings are clean and dry	x	OK	
38	All moving parts are free and have no mechanical damage	x	NA	
	Applicable for Installation of Heating Systems			
39	Temperature sensors function according to manufacturer's documents (only applicable for Ex-d e Ex-e)	x	NA	
40	Safety cut off devices function according to manufacturer's documents (only applicable for Ex-d e Ex-e)	x	NA	
41	The setting of the safety cut off is sealed (only applicable for Ex-d e Ex-e)	x	NA	
42	Reset of a heating system safety cut off possible with tool only(only applicable for Ex-d e Ex-e)	x	NA	
43	Auto-reset is not possible (only applicable for Ex-d e Ex-e)	x	NA	
44	Reset of a safety cut off under fault conditions is prevented (only applicable for Ex-d e Ex-e)	x	NA	
45	Safety cut off independent from control system (only applicable for Ex-d e Ex-e)	x	NA	
46	Level switch is installed and correctly set, if required (only applicable for Ex-d e Ex-e)	x	NA	
47	Flow switch is installed and correctly set, if required (only applicable for Ex-d e Ex-e)	x	NA	
	Extra Ex d checks			
48	Obstructions adjacent to flame proof flanged joints are in accordance with IEC 60079-14	x	NA	
49	Ex d conduits seals are fitted to all conduits and satisfactorily sealed	x	NA	
50	Cable glands are of the correct type and installed correctly	x	OK	
51	Adaptors, reducers, stop ends, etc. are all certified Ex d	x	OK	
52	Flame path are clean and undamaged	x	OK	
53	Flange gap dimensions are within tolerances	x	NA	
54	Motor fans have sufficient clearance to the enclosure and/or covers, cooling systems are undamaged, motor foundations have no indentations or cracks	x	NA	
55	The ventilation airflow is not impeded	x	NA	
56	Insulation resistance (IR) of the motor windings is satisfactory	x	NA	
57	Fault loop impedance (TN systems) or earthing resistance (IT systems) is satisfactory	x	NA	
58	Variable voltage/frequency installation complies with documentation	x	NA	
	Extra Ex e checks			
59	All Equipment is Ex e certified (including components within enclosure)	x	NA	
60	Power conductors are not bunched together causing possible hot spots	x	NA	
61	Motor fans have sufficient clearance to the enclosure and/or covers, cooling systems are undamaged, motor foundations have no indentations or cracks	x	NA	
62	Insulation resistance (IR) of the motor windings is satisfactory	x	NA	
63	Fault loop impedance (TN systems) or earthing resistance (IT systems) is satisfactory	x	NA	
64	The ventilation airflow is not impeded	x	NA	
65	Motor protection devices operate within the permitted tE or tA time limits.	x	NA	
66	Variable voltage/frequency installation complies with documentation	x	NA	

ROSETTI MARINO PROVERLIS CROSSWIND

ITEM	Tag	ELF-200N1-02-L1-18	: NORMAL LIGHT		Dwg	123A90-DDL-EL-DL-20118	
	S/Sys	83-40	: Normal Lighting Upper Deck		Module	UD	
TASK	code	C10001673	Location	Onshore Activities	User	Rosetti Marino Quality Control	
FORM	Process	MC	Activity CCK	Discipline ATEX	Form	CJX01	Hazardous Area Equipment Detailed Inspection

Extra Ex n (nR, nL) checks				
67	All Terminals are Ex n certified (if required on certificate)	x	NA	
68	Hermetically sealed and enclosed break devices are undamaged	x	NA	
69	Restricted breathing properties satisfactory (conduct vacuum test)	x	NA	
70	Test port, if fitted, is functional (type “nR” only)	x	NA	
71	Breathing operation is satisfactory (type “nR” only)	x	NA	
72	Motor fans have sufficient clearance to the enclosure and/or covers, cooling systems are	x	NA	
73	The ventilation airflow is not impeded	x	NA	
74	Insulation resistance (IR) of the motor windings is satisfactory	x	NA	
75	Motor protection devices operate within the permitted tE or tA time limits.	x	NA	
76	Variable voltage/frequency installation complies with documentation	x	NA	
Extra Ex p checks				
77	Pressurization gas is correct type	x	NA	
78	Actual pressure is within maximum and minimum settings for equipment	x	NA	
79	Timers set as per certification documentation	x	NA	
80	Alarms and trip functions operate correctly as per certification documentation	x	NA	
81	Fault loop impedance (TN systems) or earthing resistance (IT systems) is satisfactory	x	NA	
82	Automatic electrical protective devices operate within permitted limits	x	NA	
83	Automatic electrical protective devices are set correctly	x	NA	
84	Protective gas inlet temperature is below maximum specified	x	NA	
85	Ducts, pipes and enclosures are in good condition	x	NA	
86	Protective gas is substantially free from contaminants	x	NA	
87	Protective gas pressure and/or flow is adequate	x	NA	
88	Pressure and/or flow indicators, alarms and interlocks function correctly	x	NA	
89	Conditions of spark and particle barriers of ducts for exhausting the gas in hazardous area are satisfactory	x	NA	
90	Specific conditions of use (if applicable) are complied with		NA	
Extra Ex i (Intrinsically Safe – IS) checks				
91	Equipment has adequate circuit identification for ‘IS’ Installation	x	NA	
92	Cables are installed in accordance with the documentation	x	NA	
93	Segregation is maintained between IS and non-IS Circuits	x	NA	
94	Cable screens are isolated at one end (field side)	x	NA	
95	Cable screens are earthed in accordance with the documentation	x	NA	
96	Safety barrier units, relays and other energy limiting devices are of the approved type, installed in	x	NA	
97	Equipment installed is the one specified in the documentation	x	NA	
98	Ambient temperature range of the apparatus is correct for the installation	x	NA	
99	Service temperature range of the apparatus is correct for the installation	x	NA	
100	Installation is clearly labelled	x	NA	
101	Printed circuit boards are clean and undamaged	x	NA	
102	The maximum voltage Um of the associated apparatus is not exceeded	x	NA	
103	Point-to-point connections are all correct	x	NA	
104	Earth continuity is satisfactory (e.g. connections are tight, conductors are of sufficient cross-section)	x	NA	
105	Earth connections maintain the integrity of the type of protection	x	NA	
106	Intrinsically safe circuit earthing is satisfactory	x	NA	
107	Insulation resistance is satisfactory	x	NA	
108	Short-circuit protection of the power supply is in accordance with the documentation	x	NA	

	BARRIER:	**Manufacturer:**	NA	**Model:**	NA		
		Authority:	NA	**Cert No:**	NA	**Type:**	NA

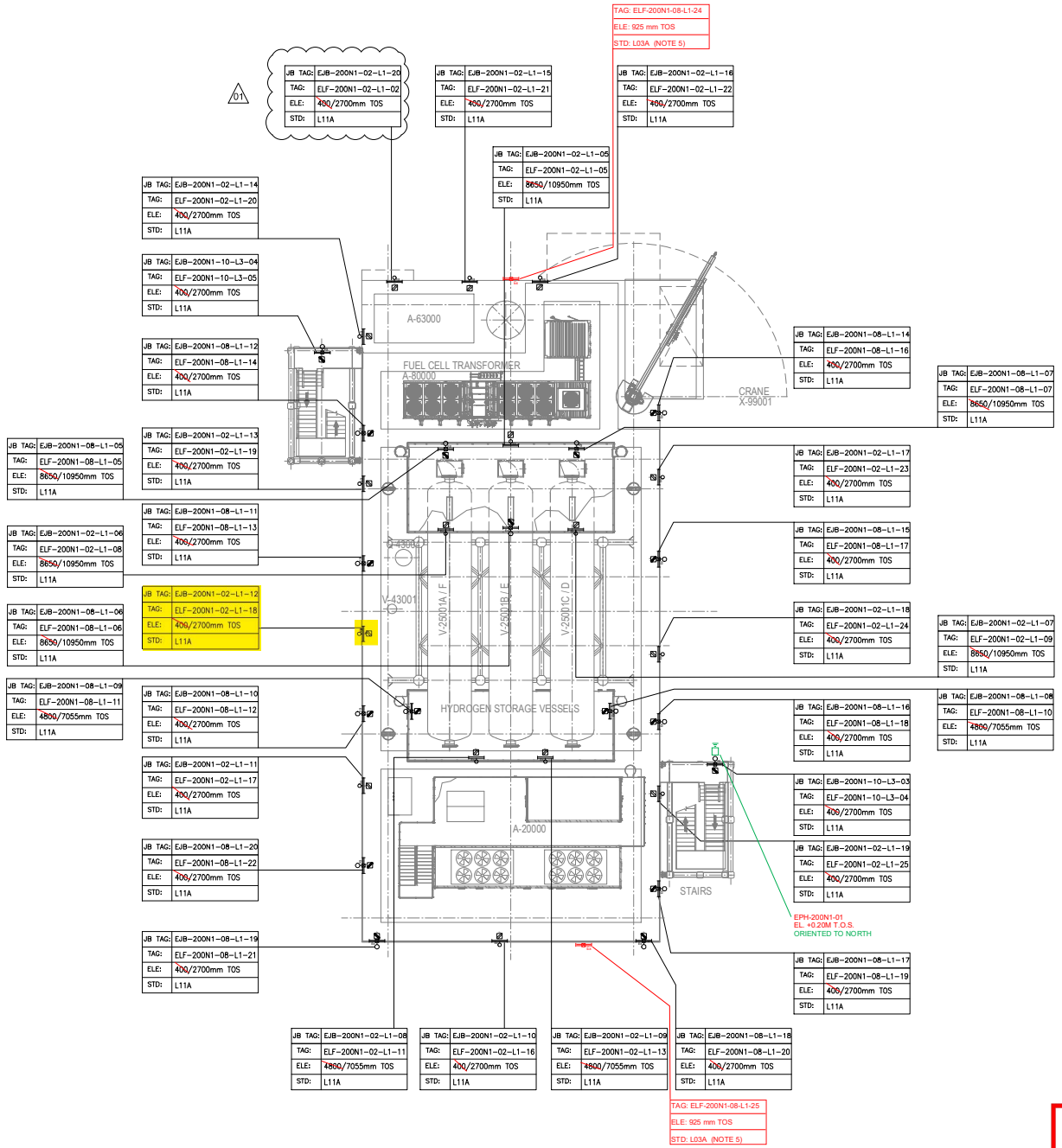
Remarks: Initial inspection should be detailed and carried out before equipment is brought into service as per IEC 60079-17

Please mark only one box as appropriate	
●	**Passed - Complete**
	Failed

Page 3/3	Performed by	☐ WITNESS ☐ REVIEW	☐ WITNESS ☐ REVIEW
Company	ICS IMPIANTI	RM (ROSETTI MARINO)	
Name	Francesco Zucca	Andrea Andreani	
Date	2024-12-11	2024-12-14	
Signature	PROVERLIS Digitaly signed by Francesco Zucca 2024-12-11T15:28:04.851Z	PROVERLIS Digitaly signed by Andrea Andreani 2024-12-14T10:59:51.203Z	

DRAWING NO. 123A90-DDL-EL-DL-20118

REV. 01

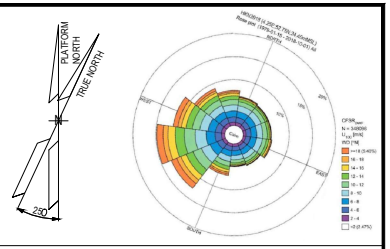


PLAN ON UPPER DECK
EL+30.310 T.O.S.

VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DL-20118**

REV.:	DATE:	SIGNATURE:
1_F	26/11/24	G.Randi

ROSETTI MARINO SpA



NOTES

1. ALL DIMENSIONS AND ELEVATIONS ARE GIVEN IN mm UNLESS OTHERWISE NOTED.
2. ELEVATIONS REFER TO T.O.S.
3. ELEVATION OF THE LAMPS ARE REFFERED TO THE BOTTOM OF THE LAMP.
4. FOR THE ELEVATION OF JB, REFER TO THE TYPICAL INSTALLATION.
5. FOR ELF-200N1-08-L1-24 AND ELF-200N1-08-L1-25 CONSTRUCTION DETAILS REFER TO DOC. 123A90-DDL-ST-DD-90076

LEGEND

- EMERGENCY LIGHTING JB
- 60W LED EMERGENCY LUMINARIES
- 60W LED EMERGENCY LUMINARIES FIXTURE POLE MOUNTED
- NORMAL LIGHTING JB
- 45W LED NORMAL LUMINARIES
- 45W LED NORMAL LUMINARIES FIXTURE POLE MOUNTED
- WELDING SOCKET WITH INTEGRATED JB
- SMALL POWER SOCKET WITH INTEGRATED JB
- TWILIGHT RELAY SENSOR

JB TAG: — JB-TAG
TAG: — TAG
ELE: — ELEVATION
STD: — STANDARD

REFERENCE DOCUMENTS

123A90-DDL-PP-DL-70070	PLOT PLAN - LOWER & UPPER DECK
123A90-DDL-EL-DL-20100	ELECTRICAL EQUIPMENT LAYOUT - TOP DECK
123A90-DDL-EL-DD-20091	ELECTRICAL TYPICAL INSTALLATION DETAILS - LIGHTING SYSTEM
123A90-DDL-EL-DD-20092	ELECTRICAL TYPICAL INSTALLATION DETAILS - POWER SYSTEM & CABLE INSTALLATION
123A90-DDL-EL-RE-20153	LIGHTING CALCULATION STUDY REPORT
123A90-DDL-ST-DD-90076	IDENTIFICATION PANELS ASSEMBLY AND DETAILS

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	02/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	28/05/24	ASR	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND

ROSETTI MARINO

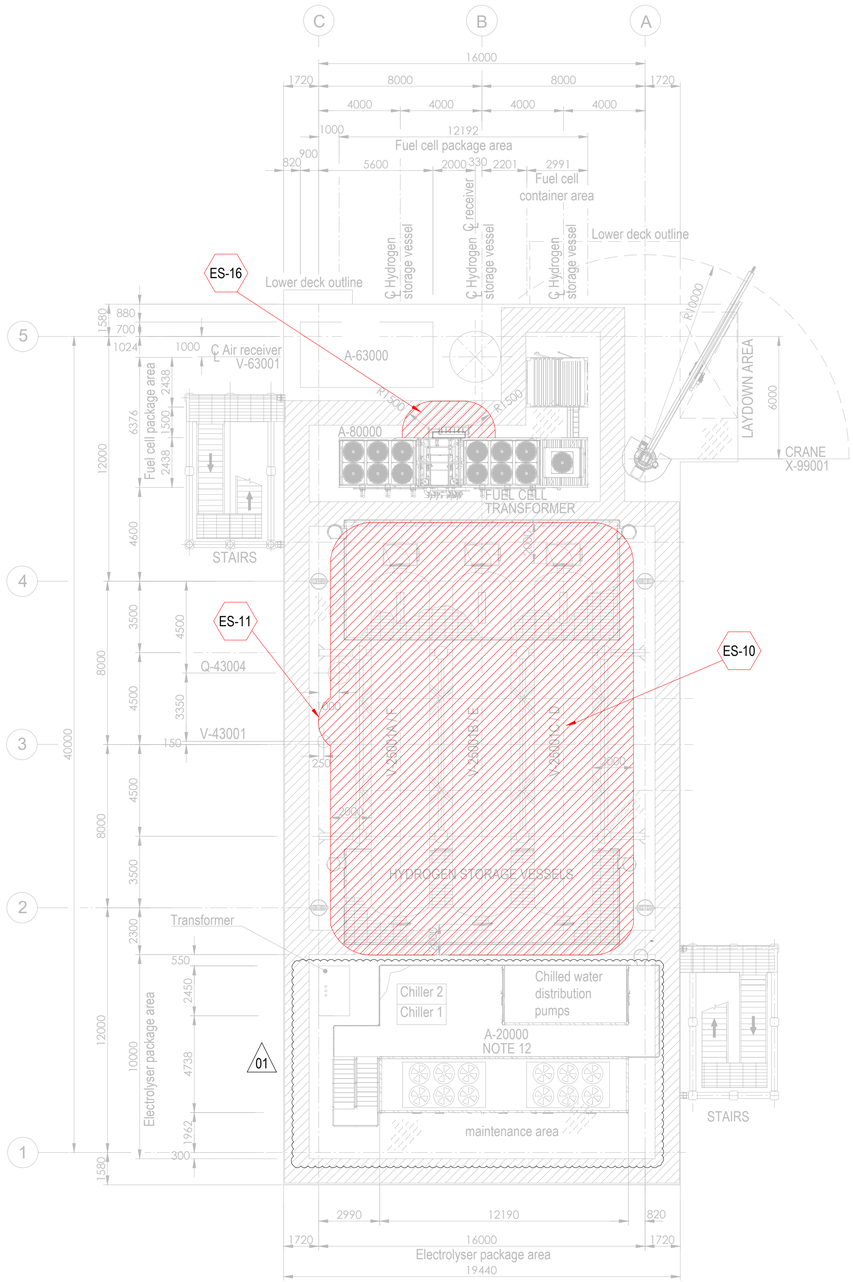
TITLE : BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET LAYOUT – TOP DECK

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK			SCALE 1:150
DRAWN ASR	CHECKED FMA/AMA	APPROVED FPA/DLO	DATE 01/08/24
A1	DRAWING NO. 123A90-DDL-EL-DL-20118	SHEET 1of2	REV. 01

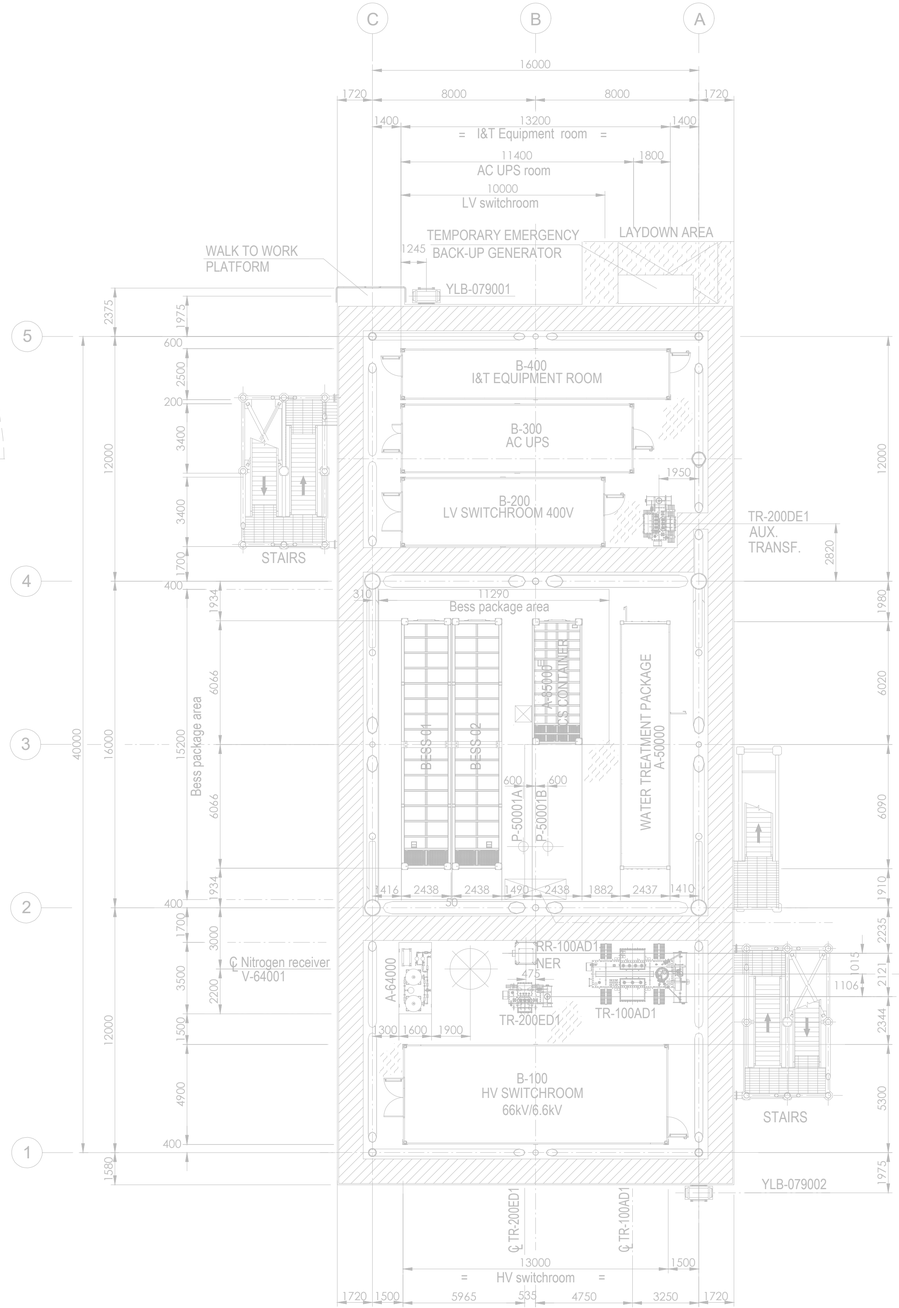
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DRAWING NO. 123A90-DDL-SAF-DL-30022

REV. 01



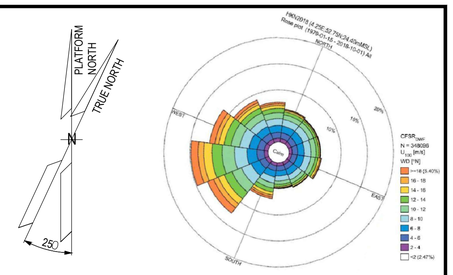
PLAN ON UPPER DECK
EL+30.310 T.O.S.



PLAN ON LOWER DECK
EL+23.310 T.O.S.

Tag No.	Equipment Tag	Description	Material	Ventilation Type
01	P-50001 A/B	SEA WATER LIFT PUMPS	SEA WATER	NATURAL (OPEN AREA)
02	Q-43004	HYDROGEN VENT	HYDROGEN	NATURAL (OPEN AREA)
03	V-43001	HYDROGEN VENT KO DRUM	HYDROGEN	NATURAL (OPEN AREA)
04	V-25001 (A/B/C/D/E/F)	HYDROGEN STORAGE VESSELS	HYDROGEN	NATURAL (OPEN AREA)
05	V-63001	AIR RECEIVER	INSTRUMENT AIR	NATURAL (OPEN AREA)
06	A-20000	ELECTROLYSER PACKAGE		
07	A-63000	INSTRUMENT AIR PACKAGE		
08	A-80000	FUEL CELL PACKAGE		
09	A-85000	BESS PACKAGE		
10	YLB-079001/2	LIFE RAFTS		
11	A-50000	WATER TREATMENT PACKAGE		

Tag No.	Equipment Tag	Description	Material	Ventilation Type
12	A-64000	NITROGEN SYSTEM		
13	B-100	HV SWITCHROOM 66kV/6.6kV		
14	B-200	LV SWITCHROOM 400V		
15	B-300	AC UPS EQUIPMENT ROOM		
16	B-400	I&T EQUIPMENT ROOM		
17	TR-100AD1	TRANSFORMER MAIN 66kV/6.6kV		
18	RR-100AD1-NER	NEUTRAL EARTHING RESISTOR		
19	TR-200DE1	TRANSFORMER AUX. 6.6kV/0.4kV		
20	TR-200ED1	SOLAR TRANSFORMER PV FARM EQUIPMENT		
21	X-99001	CRANE		
22	V-64001	NITROGEN RECEIVER		



1. ALL DIMENSIONS IN mm U.N.O
2. ALL ELEVATIONS IN METERS.
3. PLATFORM NORTH DIRECTION IS N 25°W.
4. VENT TOP SHALL BE REACHEABLE FOR MAINTENANCE PURPOSE.
5. THE BESS IS CONSIDERED SAFE AREA EXCEPT EXTRACTORES FROM BATTERIES , CURRENTLY NOT SHOWN IN DRAWINGS, SINCE INFORMATION FROM VENDOR IS NOT YET AVAILABLE.[ES17]
6. THE LOCATION OF EMISSION SOURCES ON THE LAYOUT ARE ONLY INDICATIVE. EMISSION SOURCES CONSIDERED ARE PRESENT WITHIN THE EXTENSION OF HAZARDOUS CLASSIFIED AREAS SHOWN ON THE LAYOUT. THIS IS BECAUSE VALVES AND FLANGES,WHICH ARE CONSIDERED POTENTIAL SOURCES OF RELEASE POINTS FOR FLAMMABLE GAS ARE NOT SHOWN ON CURRENT LAYOUT PROVIDED. THE SAME APPLIES TO THE EMISSION SOURCES FOR CPI'S ITEM.
7. IDENTIFIED EMISSION SOURCES DETAIL

EMISSION SOURCE No.	IDENTIFIED AREAS
ES10	HYDROGEN STORAGE VESSLES
ES11	HYDROGEN VENT KO DRUM
ES16	FUEL CELL

01

ZONE 0 | ZONE 1 | ZONE 2 | ES EMISSION SOURCES

01

01

123A90-DDL-PP-DS-70071	PLOT PLAN - BELOW LOWER DECK
123A90-DDL-PP-DS-70072	PLOT PLAN - ELEVATION LOOKING NORTH & EAST

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	27/08/24	MMA	CCA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	08/02/24	MMA	CCA	DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND

ROSETTI MARINO

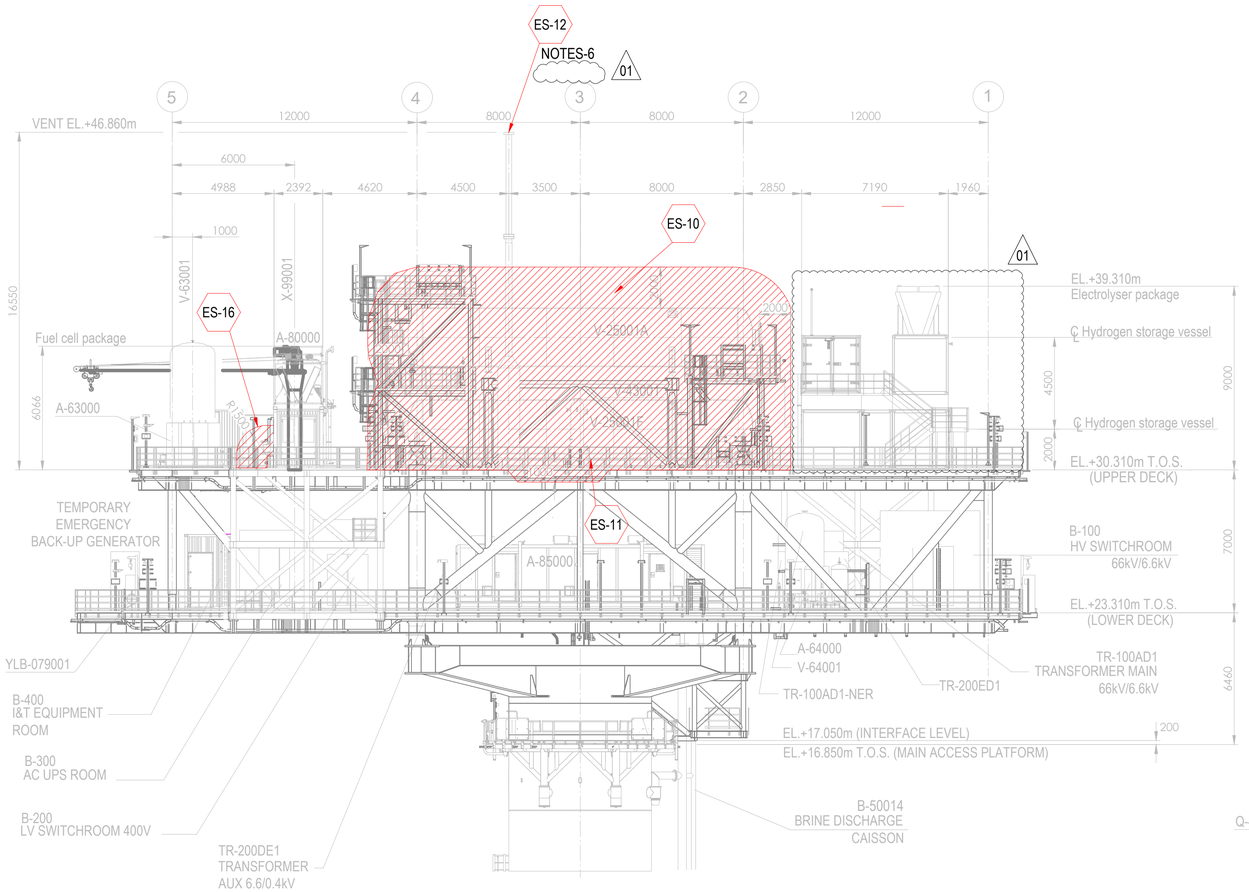
TITLE : BASE LOAD POWER HUB (BLPH)
HAZARDOUS AREA CLASSIFICATION
LOWER & UPPER DECK

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK		SCALE 1:150
DRAWN M. MAGNI	CHECKED C. CARACCIOLO	APPROVED D. LO STERZO	DATE 03/07/24
A1	DRAWING NO. 123A90-DDL-SAF-DL-30022	SHEET 001	REV. 01

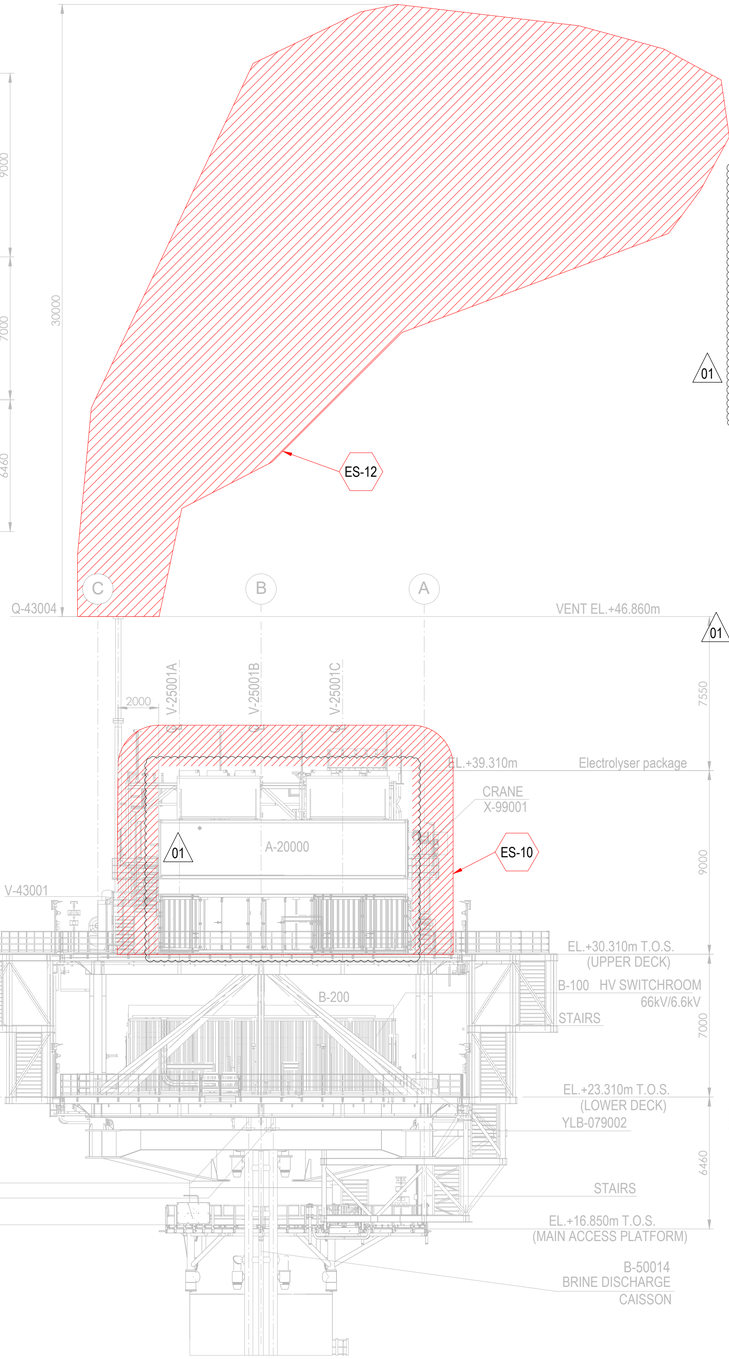
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REV. 01



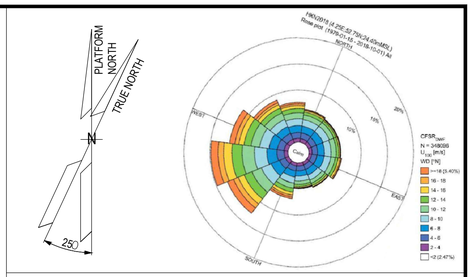
ELEVATION LOOKING EAST



ELEVATION LOOKING NORTH

01

Tag No.	Equipment Tag	Description	Material	Ventilation Type
01	P-50001 A/B	SEA WATER LIFT PUMPS	SEA WATER	NATURAL (OPEN AREA)
02	Q-43004	HYDROGEN VENT	HYDROGEN	NATURAL (OPEN AREA)
03	V-43001	HYDROGEN VENT KO DRUM	HYDROGEN	NATURAL (OPEN AREA)
04	V-25001 (A/B/C/D/E/F)	HYDROGEN STORAGE VESSELS	HYDROGEN	NATURAL (OPEN AREA)
05	V-63001	INSTRUMENT AIR RECEIVER	INSTRUMENT AIR	NATURAL (OPEN AREA)
06	A-20000	ELECTROLYSER PACKAGE		
07	A-63000	INSTRUMENT AIR PACKAGE		
08	A-80000	FUEL CELL PACKAGE		
09	A-85000	BESS PACKAGE		
10	YLB-079001/2	LIFE RAFTS		
11	B-100	HV SWITCHROOM 66kV/6.6kV		
12	B-200	LV SWITCHROOM 400V		
13	B-300	AC UPS EQUIPMENT ROOM		
14	B-400	I&T EQUIPMENT ROOM		
15	TR-100AD1	TRANSFORMER MAIN 66kV/6.6kV		
16	TR-100AD1-NER	NEUTRAL EARTHING RESISTOR		
17	TR-200DE1	TRANSFORMER AUX. 6.6kV/0.4kV		
18	TR-200ED1	SOLAR TRANSFORMER PV FARM EQUIPMENT		
19	X-99001	CRANE		
20	V-64001	NITROGEN RECEIVER		



NOTES

1. ALL DIMENSIONS IN mm U.N.O
2. ALL ELEVATIONS IN METERS.
3. PLATFORM NORTH DIRECTION IS N 25°W.
4. VENT TOP SHALL BE REACHEABLE FOR MAINTENANCE PURPOSE.
5. THE BESS IS CONSIDERED SAFE AREA EXCEPT EXTRACTORES FROM BATTERIES , CURRENTLY NOT SHOWN IN DRAWINGS, SINCE INFORMATION FROM VENDOR IS NOT YET AVAILABLE.[ES17]
6. (ES12) IS SHOWN ONLY ON ELEVATION LOOKING NORTH ON THIS LAYOUT
7. THE LOCATION OF EMISSION SOURCES ON THE LAYOUT ARE ONLY INDICATIVE. EMISSION SOURCES CONSIDERED ARE PRESENT WITHIN THE EXTENSION OF HAZARDOUS CLASSIFIED AREAS SHOWN ON THE LAYOUT. THIS IS BECAUSE VALVES AND FLANGES,WHICH ARE CONSIDERED POTENTIAL SOURCES OF RELEASE POINTS FOR FLAMMABLE GAS ARE NOT SHOWN ON CURRENT LAYOUT PROVIDED. THE SAME APPLIES TO THE EMISSION SOURCES FOR CPI'S ITEM.
8. IDENTIFIED EMISSION SOURCES DETAIL

EMISSION SOURCE No.	IDENTIFIED AREAS
ES10	HYDROGEN STORAGE VESSLES
ES11	HYDROGEN VENT KO DRUM
ES12	HYDROGEN VENT
ES16	FUEL CELL

01

LEGEND

ZONE 0 | ZONE 1 | ZONE 2 | ES EMISSION SOURCES

01

REFERENCE DOCUMENTS

123A90-DDL-PP-DS-70070	PLOT PLAN - LOWER & UPPER DECK
123A90-DDL-PP-DS-70071	PLOT PLAN - BELOW LOWER DECK

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	27/08/24	MMA	CCA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	08/02/24	MMA	CCA	DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND | ROSETTI MARINO

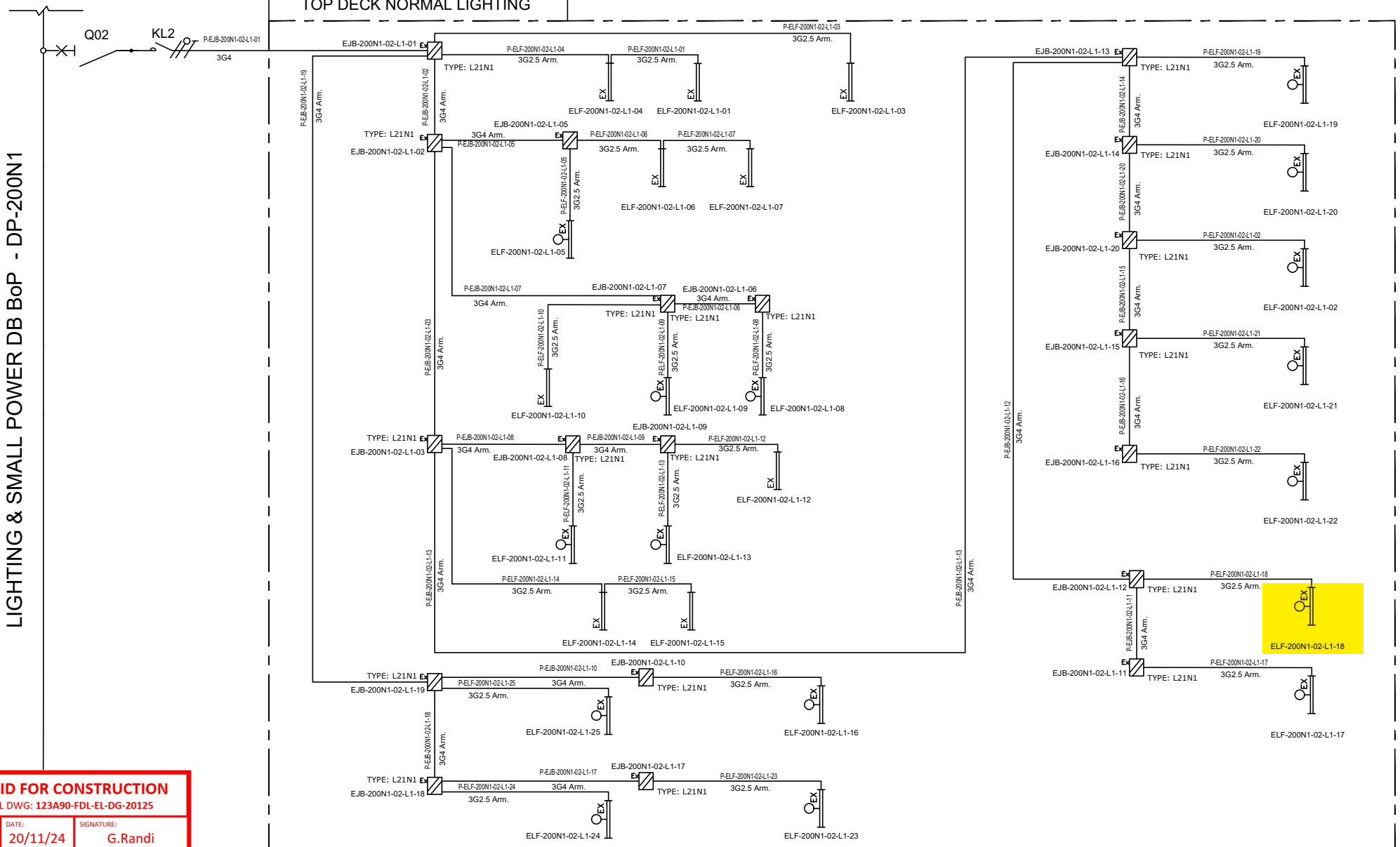
TITLE :
BASE LOAD POWER HUB (BLPH)
HAZARDOUS AREA CLASSIFICATION
ELEVATION LOOKING NORTH & EAST

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK			SCALE 1:150
DRAWN M. MAGNI	CHECKED C. CARACCIOLO	APPROVED D. LO STERZO	DATE 03/07/24

A1	DRAWING NO. 123A90-DDL-SAF-DL-30024	SHEET 001	REV. 01

File Name : 123A90-DDL-SAF-DL-30024 Rev.01

LIGHTING & SMALL POWER DB BoP - DP-200N1



VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DG-20125**

REV.:	DATE:	SIGNATURE:
2_B	20/11/24	G.Randi

ROSETTI MARINO SpA

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	08/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	01/07/24	ASR	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET CIRCUIT DIAGRAM
TOP DECK–NORMAL LIGHTING

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE : NTS

A3

DRAWING NO. 123A90–DDL–EL–DG–20125

SHEET 010

REV. 01

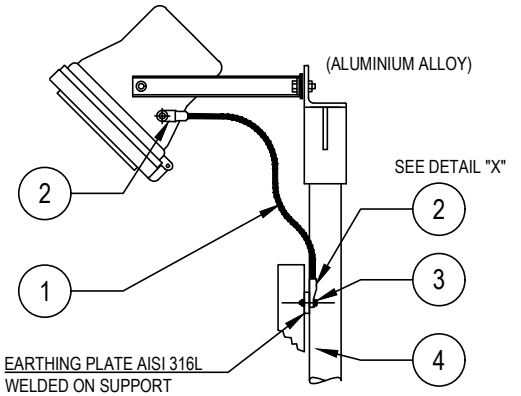
F.to UNI A3: 420mmx297mm

File Name : 123A90–DDL–EL–DG–20125

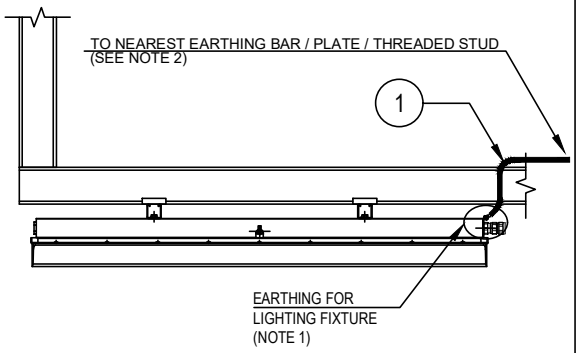
E05

POS.	DESCRIPTION	MATERIAL	SIZE	Q.TY	NOTE
1	Y/G INSULATING COPPER CONDUCTOR	COPPER	$6mm^2$		
2	COMPRESSION TYPE LUG FOR INSULATION COPPER CONDUCTOR	TINNED COPPER	$6mm^2$	2	
3	HEXAG. BOLTS, PLANE WASHERS, SPRING WASHER AND NUT	AISI 316L	M8X30	1	

LIGHTING FIXTURE/GENERAL ITEM ON POLE

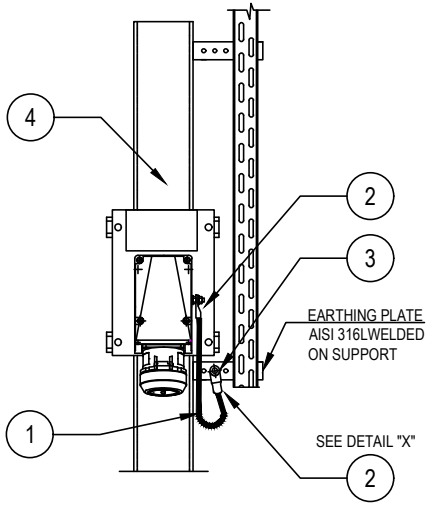


LIGHTING FIXTURES

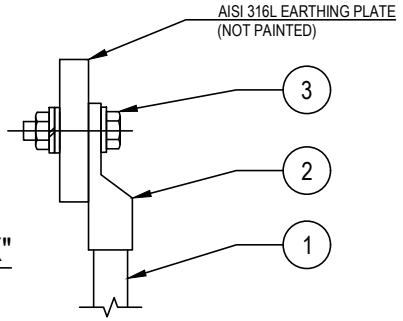


Refer also to TYP. "E32" (SEE SHEET 23)

POWER SOCKET OUTLET



DETAIL "X"



TYPICAL VALID ALSO FOR NAVAID LIGHTS

NOTES:

1) ALL LIGHTING FIXTURES AND RELEVANT ARMOUR OF THE CABLE, ARE CONNECTED TO EARTH CONNECTION THROUGH THE EARTHING TAG OF THE CABLE GLAND

2) FOR EARTHING POINT USE ONE OF THE FOLLOWING METHODS:
TYP. E03A-D sh. 004 (EARTHING BAR ON STRUCT. UNISTRUT AND CABLE TRAY)
TYP. E11C sh. 003 (EARTHING PLATE)
TYP. E11D sh. 003 (THREADED STUD ON EXTERNAL STRUCTURE)

VALID FOR CONSTRUCTION
FDL DWG: 123A90-FDL-EL-DD-20090
REV.: 2_I | DATE: 07/11/24 | SIGNATURE: G.Randi
ROSETTI MARINO SpA

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	26/08/24	GRA	AMA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	10/06/24	SPS	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	21/11/23	SPS	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL TYPICAL INSTALLATION DETAILS–EARTHING SYSTEM
EARTHING FOR ELECTRICAL EQUIPMENTS

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK | SCALE : NTS

A3 | DRAWING NO. 123A90–DDL–EL–DD–20090 | SHEET 006 | REV. 02

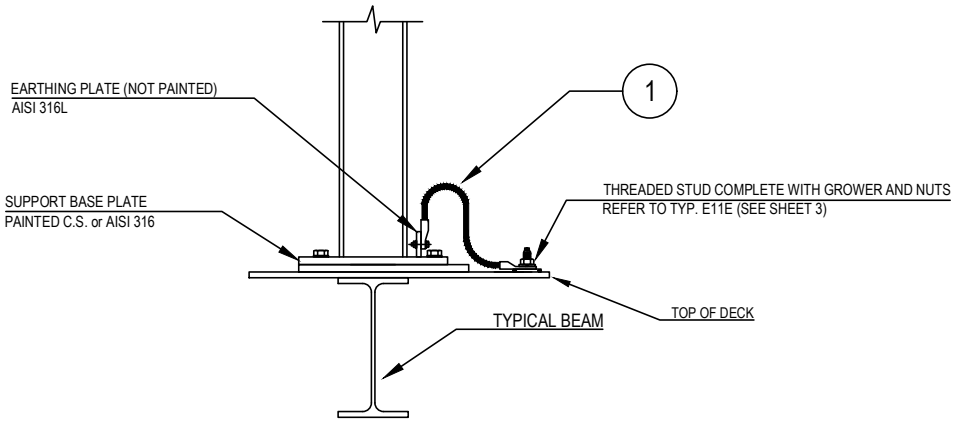
F.to UNI A3: 420mmx297mm

File Name : 123A90-DDL-EL-DD-20090 REV.02.DWG

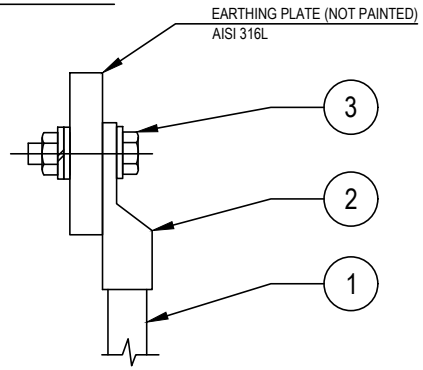
E24

POS.	DESCRIPTION	MATERIAL	SIZE	Q.TY	NOTE
1	As. R. Y/G INSULATING COPPER CONDUCTOR	COPPER	35mm^2		
2	COMPRESSION TYPE LUG FOR INSULATION COPPER CONDUCTOR	TINNED COPPER	35mm^2	2	~~NOTE 1~~
3	HEXAG. BOLT M10X30 COMPLETE WITH PLANE WASHERS, SPRING WASHER AND NUT	AISI 316L	M10X30	2	

GENERIC SUPPORT BOLTED ON STRUCTURE



DETAIL "X"



NOTES:
1) ~~CABLE LUG CRIMPING METHOD SHALL BE HEXAGONAL COMPRESSION DIES ONLY~~
2) EXTERNAL EARTHING CONNECTION ONLY SHALL BE PROTECTED AGAINST CORROSION USING OXIDE RESISTANT COMPOUND (E.G. COPPER GREASE)

VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DD-20090**
REV.: 2_I | DATE: 07/11/24 | SIGNATURE: G.Randi
ROSETTI MARINO SpA

CROSSWIND

ROSETTI MARINO

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	26/08/24	GRA	AMA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	10/06/24	SPS	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	21/11/23	SPS	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL TYPICAL INSTALLATION DETAILS–EARTHING SYSTEM
EARTHING FOR POLE/SUPPORT OF GENERIC EQUIPMENTS

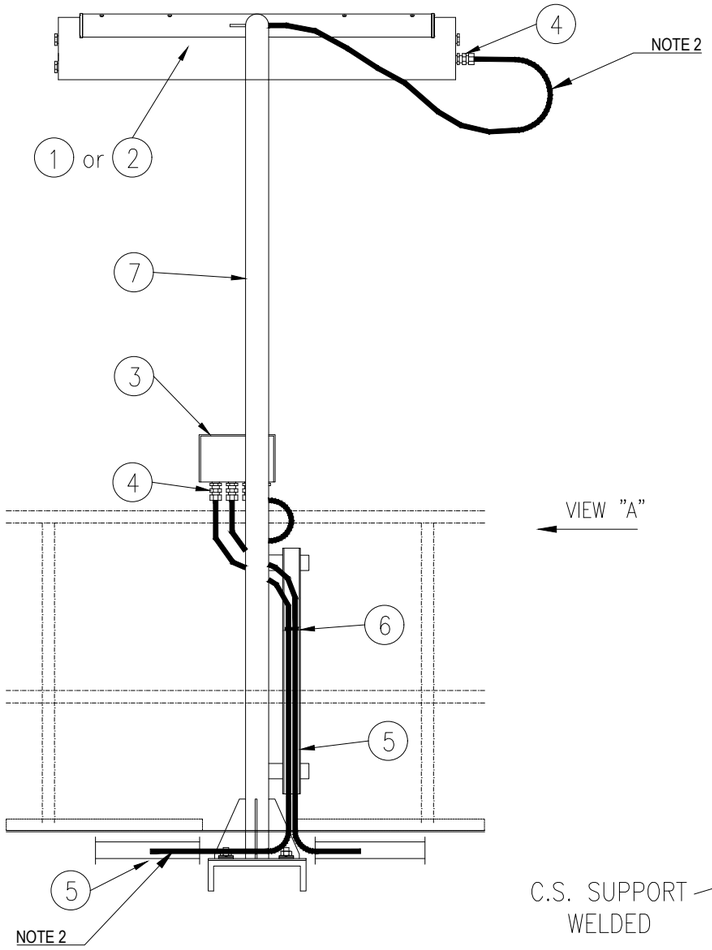
CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK | SCALE : NTS

A3	DRAWING NO.	SHEET	REV.
	123A90-DDL-EL-DD-20090	012	02

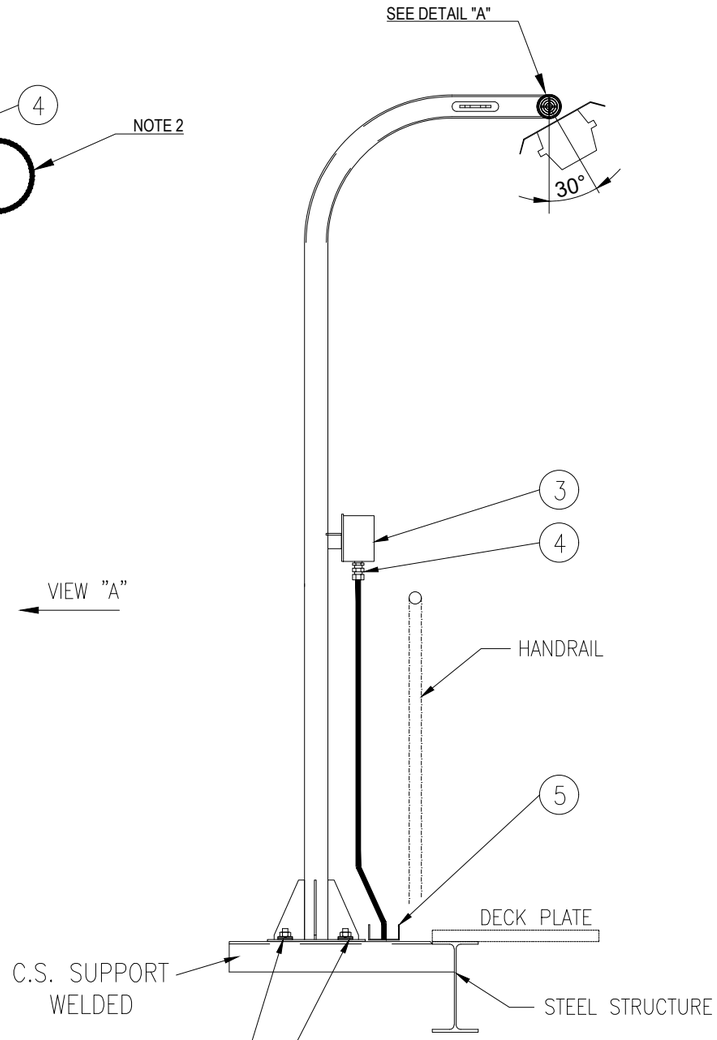
F.to UNI A3: 420mmx297mm

File Name : 123A90-DDL-EL-DD-20090 REV.02.DWG

L11A

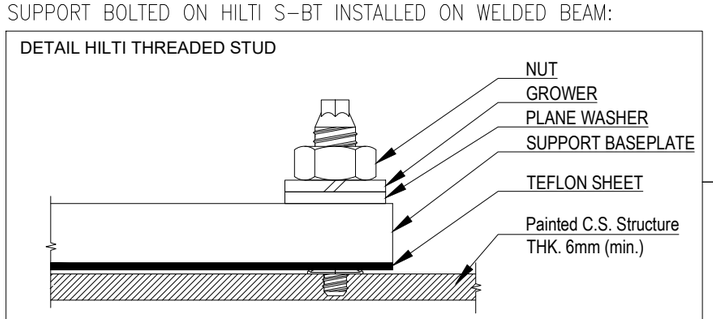


VIEW "A"

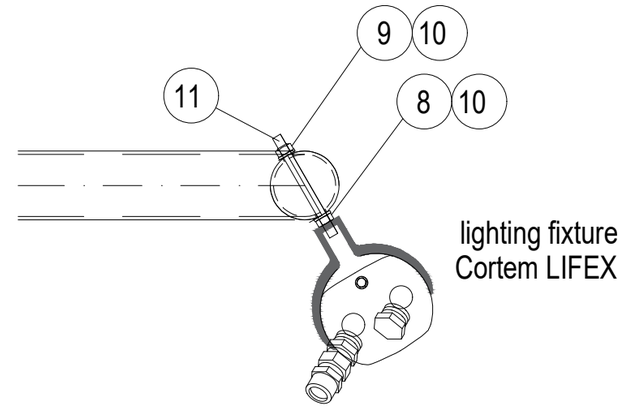


VIEW "A"

SUPPORT BOLTED ON HILTI S-BT INSTALLED ON WELDED BEAM:



POS.	DESCRIPTION	MATERIAL	SIZE	Q.TY	NOTE
1	42W LED LUMINARIES	ALUMINIUM ALLOY		1	
2	45W LED LUMINARIES C/W BATTERY	ALUMINIUM ALLOY		1	
3	JUNCTION BOX (Ex)	GRP		1	NOTE 1
4	CABLE GLAND C/W EARTH TAG, WASHERS, LOCKNUT AND WEATHERPROOF WASHERS	BRASS NICKEL PLATED		AS REQ.	
5	CABLE TRAY	AISI 316L			
6	STAINLESS STEEL NYLON COATED CABLE TIE	SS NYLON COATED			
7	POLE SUPPORT FOR LAMP	AISI 316L	2"		
8	NUT	AISI 316L	M8		
9	SELF.LOCKING NUT	AISI 316L	M8		
10	LARGE PLANE WASHER (24mm DIAM.)	AISI 316L	M8		
11	THREADED ROD M8x100	AISI 316L	M8		



DETAIL "A"

NOTES:

1) FOR LAMPS IN HAZARDOUS AREA, USE ARMOURED CABLE, DOUBLE SEAL CABLE GLAND AND EX JUNCTION BOX.

2) ALWAYS ENSURE CABLE LENGTH IS >3m

VALID FOR CONSTRUCTION
FDL DWG: 123A90-FDL-EL-DD-20091
REV.: 2_A | DATE: 30/09/24 | SIGNATURE: G.Randi
ROSETTI MARINO SpA

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	30/09/24	GRA	AMA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	04/07/24	NLK	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	21/11/23	SPS	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

02

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL TYPICAL INSTALLATION DETAILS-LIGHTING SYSTEM
LIGHTING FIXTURE MOUNTED ON POLE

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK | SCALE : NTS

A3 | DRAWING NO. 123A90-DDL-EL-DD-20091 | SHEET 014 | REV. 02

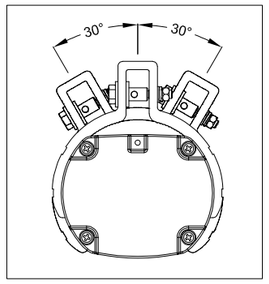
F.to UNI A3: 420mmx297mm

File Name : 123A90-DDL-EL-DD-20091 REV.02.DWG

MODEL C-225 REV.1

GENERAL NOTE:
- PO: 1724001290 DD 26/06/2024
- ITEM.: 1
- Q.TY: 57
- EXTERNAL PAINTING: RAL 7022 (END CAPS)
- INTERNAL PAINTING: NOT PAINTED
- ALL DIMENSIONS ARE IN mm

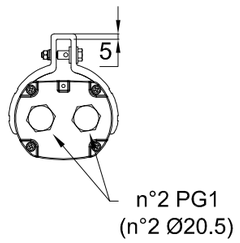
STANDARD FIXING BRACKET
FASTENING WITH 2 THREADED M8
HOLES, ADJUSTABLE FROM 0° TO ±30°



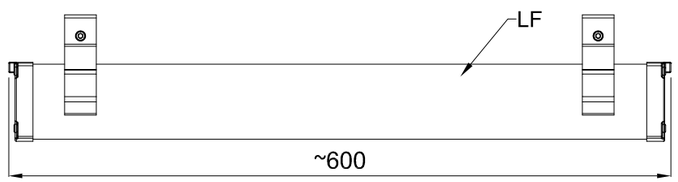
LF INFORMATION	
NOMINAL POWER	45W
CONSUMED POWER	43,5W
POWER FACTOR	>0,93
RATED CURRENT	200 mA
VIEWING ANGLE	120°
COLOUR TEMP.	5000 K
CRI	>80
INSTANT RESTRIKE	YES
LUMEN	6200 lm
LIGHT INTENSITY	2248 cd
EFFICIENCY	143 lm/W
WEIGHT	2,5 Kg
IP PROTECTION	IP66

N°	Q.TY	CODE	DESCRIPTION
LF	1	LIFEX-ME-0645-BB	110-277Vac 50-60Hz 45W LED LINEAR LIGHTING FIXTURE BODY: ALUMINUM ALLOY EXTRUSION AND ALUMINUM END CAPS TRANSPARENT PART: GLASS RESISTANT TO SHOCKS, UV RAYS AND IMPACT RESISTANCE IK09 GASKETS: ACID AND HYDROCARBON RESISTANT SILICONE ASSEMBLY: FASTENING BRACKETS FOR M8 HOLES, ADJUSTABLE 0° TO ±30° MADE IN ANODIZED ALUMINUM CONNECTION: TERMINAL BLOCK ON SIDE (IN) L, N, PE CROSS SEC. MAX. 4mmq SUITABLE FOR LOOP-IN LOOP-OUT SCREWS, BOLTS AND NUTS: STAINLESS STEEL 304
PG1	4	PLG1IB +DL1IB +RDI1IS/A4	IP66 Ex db IIC Gb - Ex eb IIC Gb NICKEL PLATED BRASS PLUG ISO M20x1,5 WITH RELEVANT LOCKNUT AND SERRATED WASHER MADE IN STAINLESS STEEL

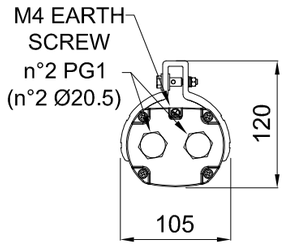
LEFT SIDE (OUT)



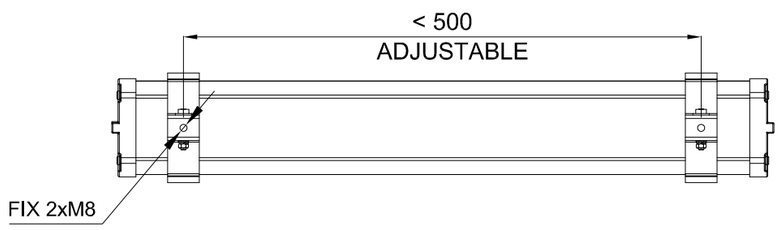
FRONT SIDE



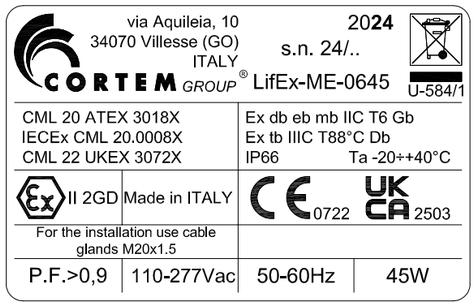
RIGHT SIDE (IN)



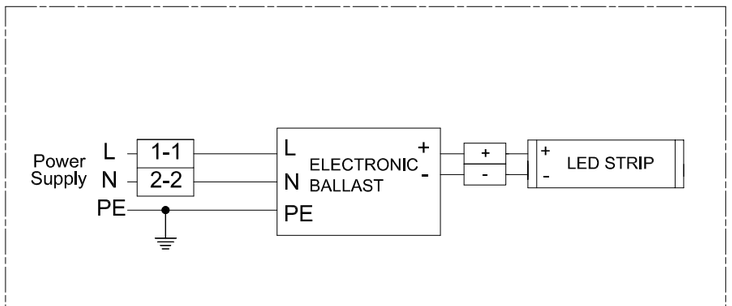
TOP SIDE



CERTIFICATE NAMEPLATE



WIRING DIAGRAM



REV.	DATE	PREP'D	CHK'D	APP'D	DESCRIPTION
2	09/07/2024	FRATTARUOLO	GIUSTI	GRATTON	REISSUED FOR APPROVAL
1	05/07/2024	FRATTARUOLO	GIUSTI	GRATTON	REISSUED FOR APPROVAL
0	28/06/2024	FRATTARUOLO	GIUSTI	GRATTON	ISSUED FOR APPROVAL

DRAWING TITLE: ROSETTI MARINO S.P.A.

CORTEM S.p.a.
GENERAL LAYOUT
001 LIFEX-ME-0645-BB/C2402693/10.

CORTEM JOB: COV2402693
DRAWING SCALE: /
DRAWING NUMBER: A3-C 27521
SHEET: 1
NEXT: 2
TOT.: 2

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AND IT CANNOT BE REPRODUCED WITHOUT CORTEM'S
AUTHORIZATION

Smart Professional R. 2012

Row	Item	Required	Manufacturer Proposal	Comments	Rev.
1	Data Sheet for Lighting Fixtures & Accessories				
2	42W LED Linear Luminaire-Normal Lighting-ATEX Area				
3	Model Number	by vendor	LIFEX-ME-0645-BB		01
4	Serial Number	by vendor			00
5	Quantity	28 Nos.		(25+3 Spare)	01
6	Location / Module	Upper deck			00
7	**LED Lamp**				
8	Nominal power	42 watts	45 watts		01
9	No. of linear	1	1		01
10	Luminous flux	5810 lm	6200 lm		01
11	Colour Temperature	5000 K	5000 K		01
12	**Protection**				
13	Hazardous Area Certification (Ex)	Zone 1 Gas Group IIC (or) IIB + H2, T1	Ex II 2GD Ex db eb mb IIC Gb Ex tb IIIC Db		01
14	Degree of Protection (IP)	IP 56	IP 66		01
15	ATEX certified	Classification EX db	ATEX CML 20 ATEX 3018X		01
16	**Material**				
17	Body	GRP/Aluminium alloy	Aluminium alloy		01
18	Reflector	GRP/Aluminium	Aluminium		01
19	Diffuser	Polycarbonate/temperate glass	Tempered glass		01
20	**Cable Entry**				
21	No. of cable entry	4 Nos.	4 Entries, 2 per side		01
22	Size	M20	Ø20.5mm		01
23	**Emergency Battery Pack**				
24	Requirement	Not required			00
25	Battery type	Not required			00
26	Autonomy	Not required			00
27	Emergency luminous flux	Not required			00
28	**Mechanical parameters**				
29	Dimension	by vendor	600x105x120(mm)		01
30	Weight	by vendor	2.5kg		01

Note:

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Its distribution is electronically controlled. Once printed shall be considered as "NOT CONTROLLED" copy

Tag Number	Tag Description	Location	P.O.	Vendor	Manufacturer	Serial Number	Model Type Catalogue Number	Installation Zone	ATEX Certificate Number	Reference Document	ATEX Certification Marking	Notes / Comments	Skid / Package	Electrical Equip.	Barrier Calculation Ref.	Special Conditions of Safe Use Applicable	3D Location
ELF-200N1-02-L1-17	Normal Lighting Fixture	UPPER DECK	1724001290	Cortem Spa	Cortem Spa	24/86772	LIFEX-ME-0645-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	
ELF-200N1-02-L1-18	Normal Lighting Fixture	UPPER DECK	1724001290	Cortem Spa	Cortem Spa	24/86772	LIFEX-ME-0645-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	
ELF-200N1-02-L1-19	Normal Lighting Fixture	UPPER DECK	1724001290	Cortem Spa	Cortem Spa	24/86772	LIFEX-ME-0645-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	
ELF-200N1-02-L1-20	Normal Lighting Fixture	UPPER DECK	1724001290	Cortem Spa	Cortem Spa	24/86772	LIFEX-ME-0645-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	
ELF-200N1-02-L1-21	Normal Lighting Fixture	UPPER DECK	1724001290	Cortem Spa	Cortem Spa	24/86772	LIFEX-ME-0645-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	
ELF-200N1-02-L1-22	Normal Lighting Fixture	UPPER DECK	1724001290	Cortem Spa	Cortem Spa	24/86772	LIFEX-ME-0645-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	
ELF-200N1-02-L1-23	Normal Lighting Fixture	UPPER DECK	1724001290	Cortem Spa	Cortem Spa	24/86772	LIFEX-ME-0645-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	
ELF-200N1-02-L1-24	Normal Lighting Fixture	UPPER DECK	1724001290	Cortem Spa	Cortem Spa	24/86772	LIFEX-ME-0645-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	
ELF-200N1-02-L1-25	Normal Lighting Fixture	UPPER DECK	1724001290	Cortem Spa	Cortem Spa	24/86772	LIFEX-ME-0645-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	
ELF-200N1-03-L2-01	Normal Lighting Fixture	LOWER DECK	1724001290	Cortem Spa	Cortem Spa	24/86772	LIFEX-ME-0645-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	
ELF-200N1-03-L2-02	Normal Lighting Fixture	LOWER DECK	1724001290	Cortem Spa	Cortem Spa	24/86772	LIFEX-ME-0645-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	
ELF-200N1-03-L2-03	Normal Lighting Fixture	LOWER DECK	1724001290	Cortem Spa	Cortem Spa	24/86772	LIFEX-ME-0645-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	
ELF-200N1-03-L2-04	Normal Lighting Fixture	LOWER DECK	1724001290	Cortem Spa	Cortem Spa	24/86772	LIFEX-ME-0645-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	
ELF-200N1-03-L2-05	Normal Lighting Fixture	LOWER DECK	1724001290	Cortem Spa	Cortem Spa	24/86772	LIFEX-ME-0645-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	
ELF-200N1-03-L2-06	Normal Lighting Fixture	LOWER DECK	1724001290	Cortem Spa	Cortem Spa	24/86772	LIFEX-ME-0645-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	
ELF-200N1-03-L2-07	Normal Lighting Fixture	LOWER DECK	1724001290	Cortem Spa	Cortem Spa	24/86772	LIFEX-ME-0645-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	
ELF-200N1-03-L2-08	Normal Lighting Fixture	LOWER DECK	1724001290	Cortem Spa	Cortem Spa	24/86772	LIFEX-ME-0645-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	
ELF-200N1-03-L2-09	Normal Lighting Fixture	LOWER DECK	1724001290	Cortem Spa	Cortem Spa	24/86772	LIFEX-ME-0645-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	
ELF-200N1-03-L2-10	Normal Lighting Fixture	LOWER DECK	1724001290	Cortem Spa	Cortem Spa	24/86772	LIFEX-ME-0645-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	
ELF-200N1-03-L2-11	Normal Lighting Fixture	LOWER DECK	1724001290	Cortem Spa	Cortem Spa	24/86772	LIFEX-ME-0645-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	
ELF-200N1-03-L2-12	Normal Lighting Fixture	LOWER DECK	1724001290	Cortem Spa	Cortem Spa	24/86772	LIFEX-ME-0645-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	
ELF-200N1-03-L2-13	Normal Lighting Fixture	LOWER DECK	1724001290	Cortem Spa	Cortem Spa	24/86772	LIFEX-ME-0645-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	
ELF-200N1-03-L2-14	Normal Lighting Fixture	LOWER DECK	1724001290	Cortem Spa	Cortem Spa	24/86772	LIFEX-ME-0645-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	
ELF-200N1-03-L2-15	Normal Lighting Fixture	LOWER DECK	1724001290	Cortem Spa	Cortem Spa	24/86772	LIFEX-ME-0645-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	
ELF-200N1-03-L2-16	Normal Lighting Fixture	LOWER DECK	1724001290	Cortem Spa	Cortem Spa	24/86772	LIFEX-ME-0645-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	
ELF-200N1-04-L3-01	Stair Normal Lighting Fixture	LOWER DECK	1724001290	Cortem Spa	Cortem Spa	24/86772	LIFEX-ME-0645-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	
ELF-200N1-04-L3-02	Stair Normal Lighting Fixture	LOWER DECK	1724001290	Cortem Spa	Cortem Spa	24/86772	LIFEX-ME-0645-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	
ELF-200N1-08-L1-01	Emergency Lighting Fixture	UPPER DECK	1724001290	Cortem Spa	Cortem Spa	24/86773	LIFEX-ME-1260N-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	
ELF-200N1-08-L1-02	Emergency Lighting Fixture	UPPER DECK	1724001290	Cortem Spa	Cortem Spa	24/86773	LIFEX-ME-1260N-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	
ELF-200N1-08-L1-03	Emergency Lighting Fixture	UPPER DECK	1724001290	Cortem Spa	Cortem Spa	24/86773	LIFEX-ME-1260N-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	
ELF-200N1-08-L1-04	Emergency Lighting Fixture	UPPER DECK	1724001290	Cortem Spa	Cortem Spa	24/86773	LIFEX-ME-1260N-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	
ELF-200N1-08-L1-05	Emergency Lighting Fixture	UPPER DECK	1724001290	Cortem Spa	Cortem Spa	24/86773	LIFEX-ME-1260N-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	HAZARDOUS-AREA_8
ELF-200N1-08-L1-06	Emergency Lighting Fixture	UPPER DECK	1724001290	Cortem Spa	Cortem Spa	24/86773	LIFEX-ME-1260N-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	HAZARDOUS-AREA_8 HAZARDOUS-AREA_3 HAZARDOUS-AREA_1 HAZARDOUS-AREA_2
ELF-200N1-08-L1-07	Emergency Lighting Fixture	UPPER DECK	1724001290	Cortem Spa	Cortem Spa	24/86773	LIFEX-ME-1260N-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	HAZARDOUS-AREA_8
ELF-200N1-08-L1-08	Emergency Lighting Fixture	UPPER DECK	1724001290	Cortem Spa	Cortem Spa	24/86773	LIFEX-ME-1260N-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	HAZARDOUS-AREA_3 HAZARDOUS-AREA_6
ELF-200N1-08-L1-09	Emergency Lighting Fixture	UPPER DECK	1724001290	Cortem Spa	Cortem Spa	24/86773	LIFEX-ME-1260N-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	HAZARDOUS-AREA_1 HAZARDOUS-AREA_4
ELF-200N1-08-L1-10	Emergency Lighting Fixture	UPPER DECK	1724001290	Cortem Spa	Cortem Spa	24/86773	LIFEX-ME-1260N-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	HAZARDOUS-AREA_4 HAZARDOUS-AREA_1
ELF-200N1-08-L1-11	Emergency Lighting Fixture	UPPER DECK	1724001290	Cortem Spa	Cortem Spa	24/86773	LIFEX-ME-1260N-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	HAZARDOUS-AREA_6 HAZARDOUS-AREA_3
ELF-200N1-08-L1-12	Emergency Lighting Fixture	UPPER DECK	1724001290	Cortem Spa	Cortem Spa	24/86773	LIFEX-ME-1260N-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	
ELF-200N1-08-L1-13	Emergency Lighting Fixture	UPPER DECK	1724001290	Cortem Spa	Cortem Spa	24/86773	LIFEX-ME-1260N-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	
ELF-200N1-08-L1-14	Emergency Lighting Fixture	UPPER DECK	1724001290	Cortem Spa	Cortem Spa	24/86773	LIFEX-ME-1260N-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	
ELF-200N1-08-L1-15	Emergency Lighting Fixture	UPPER DECK	1724001290	Cortem Spa	Cortem Spa	24/86773	LIFEX-ME-1260N-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	
ELF-200N1-08-L1-16	Emergency Lighting Fixture	UPPER DECK	1724001290	Cortem Spa	Cortem Spa	24/86773	LIFEX-ME-1260N-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	
ELF-200N1-08-L1-17	Emergency Lighting Fixture	UPPER DECK	1724001290	Cortem Spa	Cortem Spa	24/86773	LIFEX-ME-1260N-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	
ELF-200N1-08-L1-18	Emergency Lighting Fixture	UPPER DECK	1724001290	Cortem Spa	Cortem Spa	24/86773	LIFEX-ME-1260N-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	
ELF-200N1-08-L1-19	Emergency Lighting Fixture	UPPER DECK	1724001290	Cortem Spa	Cortem Spa	24/86773	LIFEX-ME-1260N-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	
ELF-200N1-08-L1-20	Emergency Lighting Fixture	UPPER DECK	1724001290	Cortem Spa	Cortem Spa	24/86773	LIFEX-ME-1260N-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	
ELF-200N1-08-L1-21	Emergency Lighting Fixture	UPPER DECK	1724001290	Cortem Spa	Cortem Spa	24/86773	LIFEX-ME-1260N-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	
ELF-200N1-08-L1-22	Emergency Lighting Fixture	UPPER DECK	1724001290	Cortem Spa	Cortem Spa	24/86773	LIFEX-ME-1260N-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	
ELF-200N1-08-L1-23	Emergency Lighting Fixture	UPPER DECK	1724001290	Cortem Spa	Cortem Spa	24/86773	LIFEX-ME-1260N-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	
ELF-200N1-09-L2-01	Emergency Lighting Fixture	LOWER DECK	1724001290	Cortem Spa	Cortem Spa	24/86773	LIFEX-ME-1260N-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	
ELF-200N1-09-L2-02	Emergency Lighting Fixture	LOWER DECK	1724001290	Cortem Spa	Cortem Spa	24/86773	LIFEX-ME-1260N-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	
ELF-200N1-09-L2-03	Emergency Lighting Fixture	LOWER DECK	1724001290	Cortem Spa	Cortem Spa	24/86773	LIFEX-ME-1260N-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	
ELF-200N1-09-L2-04	Emergency Lighting Fixture	LOWER DECK	1724001290	Cortem Spa	Cortem Spa	24/86773	LIFEX-ME-1260N-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	
ELF-200N1-09-L2-05	Emergency Lighting Fixture	LOWER DECK	1724001290	Cortem Spa	Cortem Spa	24/86773	LIFEX-ME-1260N-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	
ELF-200N1-09-L2-06	Emergency Lighting Fixture	LOWER DECK	1724001290	Cortem Spa	Cortem Spa	24/86773	LIFEX-ME-1260N-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	
ELF-200N1-09-L2-07	Emergency Lighting Fixture	LOWER DECK	1724001290	Cortem Spa	Cortem Spa	24/86773	LIFEX-ME-1260N-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	
ELF-200N1-09-L2-08	Emergency Lighting Fixture	LOWER DECK	1724001290	Cortem Spa	Cortem Spa	24/86773	LIFEX-ME-1260N-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	
ELF-200N1-09-L2-09	Emergency Lighting Fixture	LOWER DECK	1724001290	Cortem Spa	Cortem Spa	24/86773	LIFEX-ME-1260N-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	
ELF-200N1-09-L2-10	Emergency Lighting Fixture	LOWER DECK	1724001290	Cortem Spa	Cortem Spa	24/86773	LIFEX-ME-1260N-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	
ELF-200N1-09-L2-11	Emergency Lighting Fixture	LOWER DECK	1724001290	Cortem Spa	Cortem Spa	24/86773	LIFEX-ME-1260N-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	
ELF-200N1-09-L2-12	Emergency Lighting Fixture	LOWER DECK	1724001290	Cortem Spa	Cortem Spa	24/86773	LIFEX-ME-1260N-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	
ELF-200N1-09-L2-13	Emergency Lighting Fixture	LOWER DECK	1724001290	Cortem Spa	Cortem Spa	24/86773	LIFEX-ME-1260N-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	
ELF-200N1-09-L2-14	Emergency Lighting Fixture	LOWER DECK	1724001290	Cortem Spa	Cortem Spa	24/86773	LIFEX-ME-1260N-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	
ELF-200N1-09-L2-15	Emergency Lighting Fixture	LOWER DECK	1724001290	Cortem Spa	Cortem Spa	24/86773	LIFEX-ME-1260N-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	
ELF-200N1-09-L2-16	Emergency Lighting Fixture	LOWER DECK	1724001290	Cortem Spa	Cortem Spa	24/86773	LIFEX-ME-1260N-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	
ELF-200N1-09-L2-17	Emergency Lighting Fixture	LOWER DECK	1724001290	Cortem Spa	Cortem Spa	24/86773	LIFEX-ME-1260N-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	
ELF-200N1-09-L2-18	Emergency Lighting Fixture	LOWER DECK	1724001290	Cortem Spa	Cortem Spa	24/86773	LIFEX-ME-1260N-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	
ELF-200N1-09-L2-19	Emergency Lighting Fixture	LOWER DECK	1724001290	Cortem Spa	Cortem Spa	24/86773	LIFEX-ME-1260N-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	
ELF-200N1-09-L2-20	Emergency Lighting Fixture	LOWER DECK	1724001290	Cortem Spa	Cortem Spa	24/86773	LIFEX-ME-1260N-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	
ELF-200N1-09-L2-21	Emergency Lighting Fixture	LOWER DECK	1724001290	Cortem Spa	Cortem Spa	24/86773	LIFEX-ME-1260N-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	
ELF-200N1-09-L2-22	Emergency Lighting Fixture	LOWER DECK	1724001290	Cortem Spa	Cortem Spa	24/86773	LIFEX-ME-1260N-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	
ELF-200N1-09-L2-23	Emergency Lighting Fixture	LOWER DECK	1724001290	Cortem Spa	Cortem Spa	24/86773	LIFEX-ME-1260N-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	
ELF-200N1-09-L2-24	Emergency Lighting Fixture	BELOW LOWER DECK	1724001290	Cortem Spa	Cortem Spa	24/86773	LIFEX-ME-1260N-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	

EU Type Examination Certificate CML 20ATEX3018X Issue 1

1 Equipment intended for use in Potentially Explosive Atmospheres Directive 2014/34/EU

2 Equipment **LifEx-ME, LifEx-MN and LifEx-MT series of linear lighting fixtures**

3 Manufacturer **Cortem S.p.A.**

4 Address **Via Aquileia 10**
34070 Villesse
(GO)
Italy

5 The equipment is specified in the description of this certificate and the documents to which it refers.

6 CML B.V., Chamber of Commerce No 6738671, Koopvaardijweg 32, 4906CV Oosterhout, The Netherlands, Notified Body Number 2776, in accordance with Article 17 of Directive 2014/34/EU of the European Parliament and of the Council, dated 26 February 2014, certifies that this equipment has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of equipment intended for use in potentially explosive atmospheres given in Annex II to the Directive.

The examination and test results are recorded in the confidential reports listed in Section 12.

7 If an 'X' suffix appears after the certificate number, it indicates that the equipment is subject to conditions of safe use (affecting correct installation or safe use). These are specified in Section 14.

8 This EU Type Examination certificate relates only to the design and construction of the specified equipment or component. Further requirements of Directive 2014/34/EU Article 13 apply to the manufacture of the equipment or component and are separately certified.

9 Compliance with the Essential Health and Safety Requirements, with the exception of those listed in the confidential report, has been demonstrated through compliance with the following documents:

EN IEC 60079-0:2018	EN 60079-1:2014	EN IEC 60079-7:2015+A1:2018
EN 60079-18:2015+A1:2017	EN 60079-31:2014	

10 The equipment shall be marked with the following:

LifEx-ME	LifEx-MN and LifEx-MT
Ex db eb mb IIC T.. Gb	Ex tb IIIC T…°C Db
Ex eb mb IIC T.. Gb *(when Ex mb LED drivers are used)*	IP66
Ex tb IIIC T…°C Db	
IP66	
Ta=* see description	Ta=* see description

11 Description

The LifEx is a range of linear LED lighting fixtures that are available in three different configurations for different applications, designated as the LifEx-ME, LifEx-MT and LifEx-MN.

LifEx-ME

The LifEx-ME version has an Equipment Protection Level of EPL Gb and Db and utilises types of protection increased safety (eb) and dust protection by enclosure (tb), along with encapsulation (mb) for the light source and flameproof (db) for the driver.

It is constructed from an aluminium enclosure, with either a glass or polycarbonate lens and with optional polycarbonate diffuser.

LifEx-MN

The LifEx-MN version has an Equipment Protection Level of EPL Gc and Db and utilises types of protection increased safety (ec) and dust protection by enclosure (tb).

It is constructed from an aluminium enclosure, with polycarbonate diffuser and/or with optional glass or polycarbonate lens.

LifEx-MT

The LifEx-MT versions has an Equipment Protection Level of EPL Db and utilises types of protection dust protection by enclosure (tb).

It is constructed from an aluminium enclosure, with polycarbonate diffuser and/or with optional glass or polycarbonate lens.

Design Options

Every configuration is available in lengths ranging from 300 mm to 1500 mm, and power ratings up to a maximum of 105W of nominal power.

The LifEx can be used in only normal service, in only emergency service or in normal and emergency service.

The minimum ambient temperature for the range is:

- -60°C for versions without battery
- -60°C for versions with the battery heater
- -20°C for versions with battery

The range is available with the following maximum ambient temperatures:

	With glass lens and with/without polycarbonate diffuser	With Polycarbonate lens and with/without polycarbonate diffuser	Without lens polycarbonate diffuser only
LifEx-M...0310	+60°C	+60°C	+60°C
LifEx-M...0315	+60°C	+60°C	+60°C
LifEx-M...0330	+60°C	Configuration not available	Configuration not available
LifEx-M...0615	+60°C	+60°C	+60°C
LifEx-M...0630	+60°C	+50°C	+60°C
LifEx-M...0645	+57°C	+47°C	+60°C
LifEx-M...0660	+47°C	Configuration not available	+58°C
LifEx-M...1230	+60°C	+60°C	+60°C
LifEx-M...1260	+60°C	+50°C	+60°C
LifEx-M...1290	+60°C	+40°C	+60°C
LifEx-M...12120	+54°C	Configuration not available	+60°C
LifEx-M...1590	+60°C	+40°C	+60°C

Table 1: Maximum Ambient Temperatures

The following tables provide the Temperature Class (EPL Gb) and Maximum Surface Temperature (EPL Db) for each LifEx type, with the following notes:

- The LifEx-MN with an ambient temperature greater than 50°C is T5 or T4. T6 is not included.
- The Temperature Class (EPL Gb) and Maximum Surface Temperature (EPL Db) in the tables below are not applicable when the ambient temperature is not permitted in the above maximum ambient temperature range table.

13. (For example, the LifEx-M...0660 is not permitted with polycarbonate lens, therefore the Temperature Class (EPL Gb) and Maximum Surface Temperature (EPL Db) for this version in tables 2 and 3 are not applicable)

	Temperature Class (EPL Gb and Gc) and Maximum Surface Temperature (EPL Db) Based on ambient temperature													
	40°C		45°C		47°C		50°C		54°C		57°C		60°C	
	EPL Db	EPL Gb/Gc	EPL Db	EPL Gb/Gc	EPL Db	EPL Gb/Gc	EPL Db	EPL Gb/Gc	EPL Db	EPL Gb/Gc	EPL Db	EPL Gb/Gc	EPL Db	EPL Gb/Gc
LifEx-M...0310	T56°C	T6	T56°C	T6	T58°C	T6	T61°C	T6	T65°C	T6	T68°C	T6	T71°C	T6
LifEx-M...0315	T56°C	T6	T56°C	T6	T58°C	T6	T61°C	T6	T65°C	T6	T68°C	T6	T71°C	T6
LifEx-M...0615	T56°C	T6	T56°C	T6	T58°C	T6	T61°C	T6	T65°C	T6	T68°C	T6	T71°C	T6
LifEx-M...0630	T69°C	T6	T69°C	T5	T71°C	T5	T74°C	T5	T78°C	T5	T81°C	T4	T84°C	T4
LifEx-M...0645	T72°C	T5	T72°C	T5	T74°C	T5	T77°C	T5	T81°C	T4	T84°C	T4	T87°C	T4
LifEx-M...0660	T77°C	T5	T77°C	T4	T79°C	T4	T82°C	T4	T86°C	T4	T89°C	T4	T92°C	T4
LifEx-M...1230	T58°C	T6	T58°C	T6	T60°C	T6	T63°C	T6	T67°C	T6	T70°C	T6	T73°C	T6
LifEx-M...1260	T67°C	T6	T67°C	T5	T69°C	T5	T72°C	T5	T76°C	T5	T79°C	T4	T82°C	T4
LifEx-M...1290	T72°C	T5	T72°C	T5	T74°C	T4	T77°C	T4	T81°C	T4	T84°C	T4	T87°C	T4
LifEx-M...12120	T75°C	T5	T75°C	T4	T77°C	T4	T80°C	T4	T84°C	T4	T87°C	T4	T90°C	T4
LifEx-M...1590	T72°C	T5	T72°C	T5	T74°C	T4	T77°C	T4	T81°C	T4	T84°C	T4	T87°C	T4

Table 2: Temperature Class (EPL Gb) and Maximum Surface Temperature (EPL Db) for LifEx types with glass/polycarbonate lens and with polycarbonate diffuser

	Temperature Class (EPL Gb and Gc) and Maximum Surface Temperature (EPL Db) Based on ambient temperature					
	40°C		55°C		60°C	
	EPL Db	EPL Gc	EPL Db	EPL Gc	EPL Db	EPL Gc
LifEx-ME-0330	T58°C	T6	T73°C	T6	T78°C	T5
LifEx-MN-0330	T58°C	T6	T73°C	T5	T78°C	T4
LifEx-MT-0330	T58°C	-	T73°C	-	T78°C	-

Table 3: Temperature Class (EPL Gb and Gc) and Maximum Surface Temperature (EPL Db) for LifEx-M...-0330 types with glass/polycarbonate window and without polycarbonate diffuser

	Temperature Class (EPL Gb) and Maximum Surface Temperature (EPL Db) Based on ambient temperature													
	40°C		45°C		47°C		50°C		54°C		57°C		60°C	
	EPL Db	EPL Gb	EPL Db	EPL Gb	EPL Db	EPL Gb	EPL Db	EPL Gb	EPL Db	EPL Gb	EPL Db	EPL Gb	EPL Db	EPL Gb
LifEx-M...0310	T62°C	T6	T62°C	T6	T64°C	T6	T67°C	T6	T71°C	T6	T74°C	T6	T77°C	T6
LifEx-M...0315	T62°C	T6	T62°C	T6	T64°C	T6	T67°C	T6	T71°C	T6	T74°C	T6	T77°C	T6
LifEx-M...0615	T62°C	T6	T62°C	T6	T64°C	T6	T67°C	T6	T71°C	T6	T74°C	T6	T77°C	T6
LifEx-M...0630	T85°C	T6	T85°C	T5	T87°C	T5	T90°C	T5	T94°C	T5	T97°C	T4	T100°C	T4
LifEx-M...0645	T88°C	T6	T88°C	T5	T90°C	T5	T93°C	T5	T97°C	T4	T100°C	T4	T103°C	T4
LifEx-M...0660	T100°C	T6	T100°C	T4	T102°C	T4	T105°C	T4	T109°C	T4	T112°C	T4	T115°C	T4
LifEx-M...1230	T65°C	T6	T65°C	T6	T67°C	T6	T70°C	T6	T74°C	T6	T77°C	T6	T80°C	T6
LifEx-M...1260	T85°C	T6	T85°C	T5	T87°C	T5	T90°C	T5	T94°C	T5	T97°C	T4	T100°C	T4
LifEx-M...1290	T94°C	T6	T94°C	T5	T96°C	T4	T99°C	T4	T103°C	T4	T106°C	T4	T109°C	T4
LifEx-M...12120	T96°C	T5	T96°C	T4	T98°C	T4	T101°C	T4	T105°C	T4	T108°C	T4	T111°C	T4
LifEx-M...1590	T94°C	T6	T94°C	T5	T96°C	T4	T99°C	T4	T103°C	T4	T106°C	T4	T109°C	T4

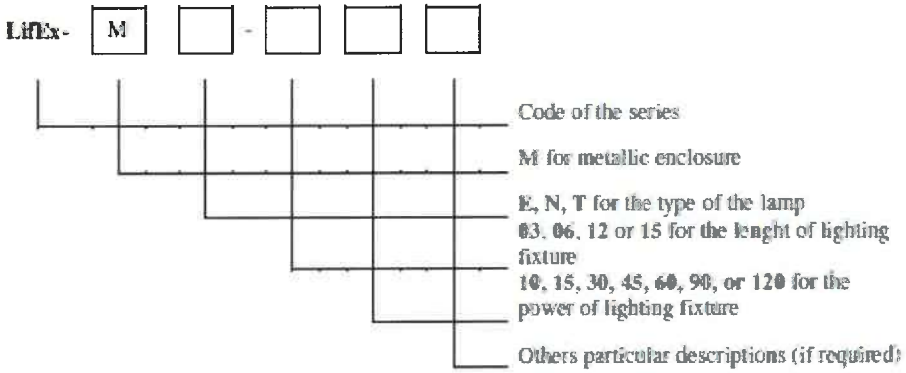
Table 4: Temperature Class (EPL Gb) and Maximum Surface Temperature (EPL Db) for LifEx types with glass/polycarbonate lens and without polycarbonate diffuser

	Maximum Surface Temperature (EPL Db) Based on ambient temperature						
	40°C	45°C	47°C	50°C	54°C	57°C	60°C
LifEx-M...0310	T56°C	T56°C	T58°C	T61°C	T65°C	T68°C	T71°C
LifEx-M...0315	T56°C	T56°C	T58°C	T61°C	T65°C	T68°C	T71°C
LifEx-M...0615	T56°C	T56°C	T58°C	T61°C	T65°C	T68°C	T71°C
LifEx-M...0630	T69°C	T69°C	T71°C	T74°C	T78°C	T81°C	T84°C
LifEx-M...0645	T72°C	T72°C	T74°C	T77°C	T81°C	T84°C	T87°C
LifEx-M...0660	T77°C	T77°C	T79°C	T82°C	T86°C	T89°C	T92°C
LifEx-M...1230	T58°C	T58°C	T60°C	T63°C	T67°C	T70°C	T73°C
LifEx-M...1260	T67°C	T67°C	T69°C	T72°C	T76°C	T79°C	T82°C
LifEx-M...1290	T72°C	T72°C	T74°C	T77°C	T81°C	T84°C	T87°C
LifEx-M...12120	T75°C	T75°C	T77°C	T80°C	T84°C	T87°C	T90°C
LifEx-M...1590	T72°C	T72°C	T74°C	T77°C	T81°C	T84°C	T87°C

Table 5: (Applicable to EPL Db only) Maximum Surface Temperature for LifEx types without glass/polycarbonate lens and with polycarbonate diffuser

The equipment has been separately tested against the requirements of IEC 60529 and it meets IP66. The gaskets on the caps provide the degree of protection.

The equipment uses the following nomenclature:



Variation 1:

This variation has assed the following changes:

i. Addition of an optional new removable cover for "easy installation" (which use the new aluminium extrusion);
ii. Addition of an optional external battery box;
iii. minimum ambient temperature extended to -60°C when Ex mb heater is used;
iv. Additional optional Ex mb EBM LED driver as an alternative to EBL3040 / EBL4040 Ex db series LED drivers;
v. added 30W model for size 300mm (LifEx-M..-0330).

12 Certificate history and evaluation reports

Issue	Date	Associated report	Notes
0	06 May 2020	R13027A/00	Prime Issue
1	01 Jul 2022	R14875A/00	Introduction of Variation 1

Note: Drawings that describe the equipment or component are listed in the Annex.

13 Conditions of Manufacture

The following conditions are required of the manufacturing process for compliance with the certification.

i. Where the product incorporates certified parts or safety critical components the manufacturer shall ensure that any changes to those parts or components do not affect the compliance of the certified product that is the subject of this certificate.
ii. The LifEx series lighting fixtures are to be designed in accordance with general electrical safety standards.
iii. The routine dielectric strength test on the LifEx-ME and LifEx-MN luminaries with applied voltage shall be performed at 2U + 1000V with a minimum value of 1560V (U = maximum rated voltage of the lamp)

iv. A routine visual inspection of the encapsulated parts is required, as per Clause 9.1 of IEC 60079-18. There shall be no visible damage or deformation to the encapsulant.

v. Where the removable battery pack is used with phoenix contacts, if used with a T6 version of the equipment, the maximum ambient shall be limited to +40°C.

14 Specific Conditions of Use (Special Conditions)

The following conditions relate to safe installation and/or use of the equipment.

i. Cable entries are provided which have less than 5 threads engaged. Care must be taken to ensure the correct gaskets and washers are sued with the cable gland to maintain IP66.

ii. The equipment uses an external part that is constructed from non-metallic materials, and as such care is to be taken to prevent an electro-static charging hazard. See instruction manual for details.

iii. For versions with glass window of 4mm thickness without cover, the luminaire must be installed in a location with a low risk of mechanical danger

iv. The temperature at the entry point may reach up to 75°C. Suitably rated cable glands must be used.

Certificate Annex

Certificate Number	**CML 20ATEX3018X**
Equipment	**LifEx-ME, LifEx-MN and LifEx-MT series of linear lighting fixtures**
Manufacturer	**Cortem S.p.A.**

The following documents describe the equipment or component defined in this certificate:

Issue 0

Drawing No	Sheets	Rev	Approved date	Title
A3-7466	1 to 6	0	06 May 2020	LifEx-M Luminaires
A4-7467	1 to 6	0	06 May 2020	Technical Note

Issue 1

Drawing No.	Sheets	Rev	Approved date	Title
A3-7466	1 of 6	1	01 Jul 2022	LifEx-M Luminaires Assembly and External Dimensions
A3-7466	2 of 6	1	01 Jul 2022	LifEx-M Luminaires Detail of sealing and op is protection
A3-7466	3 of 6	1	01 Jul 2022	LifEx-M Luminaires Detail of driver and inverter for LifEx-ME version
A3-7466	4 of 6	1	01 Jul 2022	LifEx-M Luminaires Circuit diagram for LifeEx-ME version
A3-7466	5 of 6	1	01 Jul 2022	LifEx-M Luminaires Circuit diagram LifEx-MN and LifEx-MT version
A3-7466	6 of 6	1	01 Jul 2022	LifEx-M Luminaires Detail of battery pack
A3-7729	1 to 3	0	01 Jul 2022	Battery heater for -60°C /-40°C applications Assembly and External Dimensions
A4-7727	1 to 8	0	01 Jul 2022	Technical Note

ITEM	Tag	ELF-200N1-02-L1-19	: NORMAL LIGHT			Dwg	123A90-DDL-EL-DL-20118
	S/Sys	83-40	: Normal Lighting Upper Deck			Module	UD
TASK	code	C10001674		Location	Onshore Activities	User	Rosetti Marino Quality Control
FORM	Process	MC	Activity CCK	Discipline	ATEX	Form	CJX01

Hazardous Area Equipment Detailed Inspection

Schedule Ref. #				**Area Code**					
Area Class Drawing	123A90-DDL-SAF-DL-30022			**Serial No.**		24/86772			
Manufacturer	Cortem Spa			**Model**		LIFEX-ME-0645-BB			
Cert No.	CML 20 ATEX 3018X			**Equipment Ambient Temp.**		-60°C to +50°C			
Area Classification	hazardous	**Zone**	2	**Gas group**	IIC	**Temp class**	T1		
Equipment Protection Type	Ex db	**EPL**	Gb	**Gas group**	IIC	**Temp class**	T5	**IP Rating**	IP66

Detailed Note:

1) Inspection shall only be performed by competent personnel

2) All fields are to be completed. Any non-applicable field shall state “NA”. Comments are required for ‘Failure’ column ONLY.

3) An Inspection Sheet should be completed for EACH individual item of Equipment.

	General Equipment	Detailed	OK/NA/PL	Comments
1	Equipment is appropriate to the EPL / Zone requirements of the area	x	OK	
2	Equipment group is correct	x	OK	
3	Equipment temperature class is correct	x	OK	
4	Degree of IP protection of equipment is appropriate for the level of protection	x	OK	
5	Equipment circuit identification is correct	x	PL	
6	Equipment circuit identification is available	x	NA	
7	Enclosure glass parts and glass-to-metal sealing gaskets and / or compounds are satisfactory	x	OK	
8	There is no damage or unauthorized modifications	x	OK	
9	There is no evidence of unauthorized modifications	x	OK	
10	Bolts, cable entry devices (direct and indirect) & blanking elements are of the correct type, are complete & tight		OK	
	Physical check	x	OK	
11	Threaded covers on enclosures are of the correct type, are tight and secured		OK	
	Physical check	x	OK	
12	Joint surfaces are clean and undamaged and gaskets, if any, are satisfactory and positioned correctly	x	OK	
13	Condition of enclosure gaskets is satisfactory	x	OK	
14	There is no evidence or ingress of water or dust in the enclosure in accordance with the IP rating	x	OK	
15	Electrical connections are tight	x	OK	
16	Bridging links do not reduce creepage / clearance and are allowed	x	OK	
17	Unused terminals are tightened	x	OK	
18	Encapsulated components are undamaged	x	NA	
19	Flameproof components are undamaged	x	NA	
20	Fluorescent lamps are not indicating EOL effects (only for Ex “e” – Ex “n” – Ex “t”)	x	NA	
21	HID lamps are not indicating EOL effects	x	NA	
22	Lamp type, rating, pin configuration and position are correct	x	OK	
23	Breathing and drainage devices are satisfactory	x	NA	
24	Type of cable is appropriate	x	OK	
25	There is no obvious damage to the cables	x	OK	
26	Cable glands are the correct type and installed correctly	x	OK	
27	Sealing of trunking, ducts, pipes and or conduits is satisfactory	x	OK	
28	Stopping boxes and cable boxes are corrected filled	x	OK	

ITEM	Tag	ELF-200N1-02-L1-19	: NORMAL LIGHT			Dwg	123A90-DDL-EL-DL-20118
	S/Sys	83-40	: Normal Lighting Upper Deck			Module	UD
TASK	code	C10001674		Location	Onshore Activities	User	Rosetti Marino Quality Control
FORM	Process	MC	Activity CCK	Discipline	ATEX	Form	CJX01 Hazardous Area Equipment Detailed Inspection

29	Integrity of conduit system and interface with mixed system maintained	x	NA	
30	Earthing connections, including any supplementary earthing bonding connections are satisfactory (for example connections are tight and conductors are of sufficient cross-section		OK	
	Physical check	x	OK	
31	Automated electric protective devices operate within permitted limits	x	NA	
32	Special conditions (if applicable) have been complied with.	x	OK	
33	All cable cores are uniquely labeled	x	OK	
34	Cable cores not in use are correctly terminated	x	NA	
35	Equipment is adequately protected against corrosion, weather, vibration and other adverse factors	x	PL	
36	No undue accumulation of dust and dirt	x	OK	
37	All equipment housings are clean and dry	x	OK	
38	All moving parts are free and have no mechanical damage	x	NA	
	Applicable for Installation of Heating Systems			
39	Temperature sensors function according to manufacturer's documents (only applicable for Ex-d e Ex-e)	x	NA	
40	Safety cut off devices function according to manufacturer's documents (only applicable for Ex-d e Ex-e)	x	NA	
41	The setting of the safety cut off is sealed (only applicable for Ex-d e Ex-e)	x	NA	
42	Reset of a heating system safety cut off possible with tool only(only applicable for Ex-d e Ex-e)	x	NA	
43	Auto-reset is not possible (only applicable for Ex-d e Ex-e)	x	NA	
44	Reset of a safety cut off under fault conditions is prevented (only applicable for Ex-d e Ex-e)	x	NA	
45	Safety cut off independent from control system (only applicable for Ex-d e Ex-e)	x	NA	
46	Level switch is installed and correctly set, if required (only applicable for Ex-d e Ex-e)	x	NA	
47	Flow switch is installed and correctly set, if required (only applicable for Ex-d e Ex-e)	x	NA	
	Extra Ex d checks			
48	Obstructions adjacent to flame proof flanged joints are in accordance with IEC 60079-14	x	NA	
49	Ex d conduits seals are fitted to all conduits and satisfactorily sealed	x	NA	
50	Cable glands are of the correct type and installed correctly	x	OK	
51	Adaptors, reducers, stop ends, etc. are all certified Ex d	x	OK	
52	Flame path are clean and undamaged	x	OK	
53	Flange gap dimensions are within tolerances	x	NA	
54	Motor fans have sufficient clearance to the enclosure and/or covers, cooling systems are undamaged, motor foundations have no indentations or cracks	x	NA	
55	The ventilation airflow is not impeded	x	NA	
56	Insulation resistance (IR) of the motor windings is satisfactory	x	NA	
57	Fault loop impedance (TN systems) or earthing resistance (IT systems) is satisfactory	x	NA	
58	Variable voltage/frequency installation complies with documentation	x	NA	
	Extra Ex e checks			
59	All Equipment is Ex e certified (including components within enclosure)	x	NA	
60	Power conductors are not bunched together causing possible hot spots	x	NA	
61	Motor fans have sufficient clearance to the enclosure and/or covers, cooling systems are undamaged, motor foundations have no indentations or cracks	x	NA	
62	Insulation resistance (IR) of the motor windings is satisfactory	x	NA	
63	Fault loop impedance (TN systems) or earthing resistance (IT systems) is satisfactory	x	NA	
64	The ventilation airflow is not impeded	x	NA	
65	Motor protection devices operate within the permitted tE or tA time limits.	x	NA	
66	Variable voltage/frequency installation complies with documentation	x	NA	

ROSETTI MARINO PROVERLIS CROSSWIND

ITEM	Tag	ELF-200N1-02-L1-19	: NORMAL LIGHT			Dwg	123A90-DDL-EL-DL-20118
	S/Sys	83-40	: Normal Lighting Upper Deck			Module	UD
TASK	code	C10001674		Location	Onshore Activities	User	Rosetti Marino Quality Control
FORM	Process	MC	Activity CCK	Discipline	ATEX	Form	CJX01
							Hazardous Area Equipment Detailed Inspection

Extra Ex n (nR, nL) checks				
67	All Terminals are Ex n certified (if required on certificate)	x	NA	
68	Hermetically sealed and enclosed break devices are undamaged	x	NA	
69	Restricted breathing properties satisfactory (conduct vacuum test)	x	NA	
70	Test port, if fitted, is functional (type “nR” only)	x	NA	
71	Breathing operation is satisfactory (type “nR” only)	x	NA	
72	Motor fans have sufficient clearance to the enclosure and/or covers, cooling systems are	x	NA	
73	The ventilation airflow is not impeded	x	NA	
74	Insulation resistance (IR) of the motor windings is satisfactory	x	NA	
75	Motor protection devices operate within the permitted tE or tA time limits.	x	NA	
76	Variable voltage/frequency installation complies with documentation	x	NA	
Extra Ex p checks				
77	Pressurization gas is correct type	x	NA	
78	Actual pressure is within maximum and minimum settings for equipment	x	NA	
79	Timers set as per certification documentation	x	NA	
80	Alarms and trip functions operate correctly as per certification documentation	x	NA	
81	Fault loop impedance (TN systems) or earthing resistance (IT systems) is satisfactory	x	NA	
82	Automatic electrical protective devices operate within permitted limits	x	NA	
83	Automatic electrical protective devices are set correctly	x	NA	
84	Protective gas inlet temperature is below maximum specified	x	NA	
85	Ducts, pipes and enclosures are in good condition	x	NA	
86	Protective gas is substantially free from contaminants	x	NA	
87	Protective gas pressure and/or flow is adequate	x	NA	
88	Pressure and/or flow indicators, alarms and interlocks function correctly	x	NA	
89	Conditions of spark and particle barriers of ducts for exhausting the gas in hazardous area are satisfactory	x	NA	
90	Specific conditions of use (if applicable) are complied with		NA	
Extra Ex i (Intrinsically Safe – IS) checks				
91	Equipment has adequate circuit identification for ‘IS’ Installation	x	NA	
92	Cables are installed in accordance with the documentation	x	NA	
93	Segregation is maintained between IS and non-IS Circuits	x	NA	
94	Cable screens are isolated at one end (field side)	x	NA	
95	Cable screens are earthed in accordance with the documentation	x	NA	
96	Safety barrier units, relays and other energy limiting devices are of the approved type, installed in	x	NA	
97	Equipment installed is the one specified in the documentation	x	NA	
98	Ambient temperature range of the apparatus is correct for the installation	x	NA	
99	Service temperature range of the apparatus is correct for the installation	x	NA	
100	Installation is clearly labelled	x	NA	
101	Printed circuit boards are clean and undamaged	x	NA	
102	The maximum voltage Um of the associated apparatus is not exceeded	x	NA	
103	Point-to-point connections are all correct	x	NA	
104	Earth continuity is satisfactory (e.g. connections are tight, conductors are of sufficient cross-section)	x	NA	
105	Earth connections maintain the integrity of the type of protection	x	NA	
106	Intrinsically safe circuit earthing is satisfactory	x	NA	
107	Insulation resistance is satisfactory	x	NA	
108	Short-circuit protection of the power supply is in accordance with the documentation	x	NA	

	BARRIER:	**Manufacturer:**	NA	**Model:**	NA		
		Authority:	NA	**Cert No:**	NA	**Type:**	NA

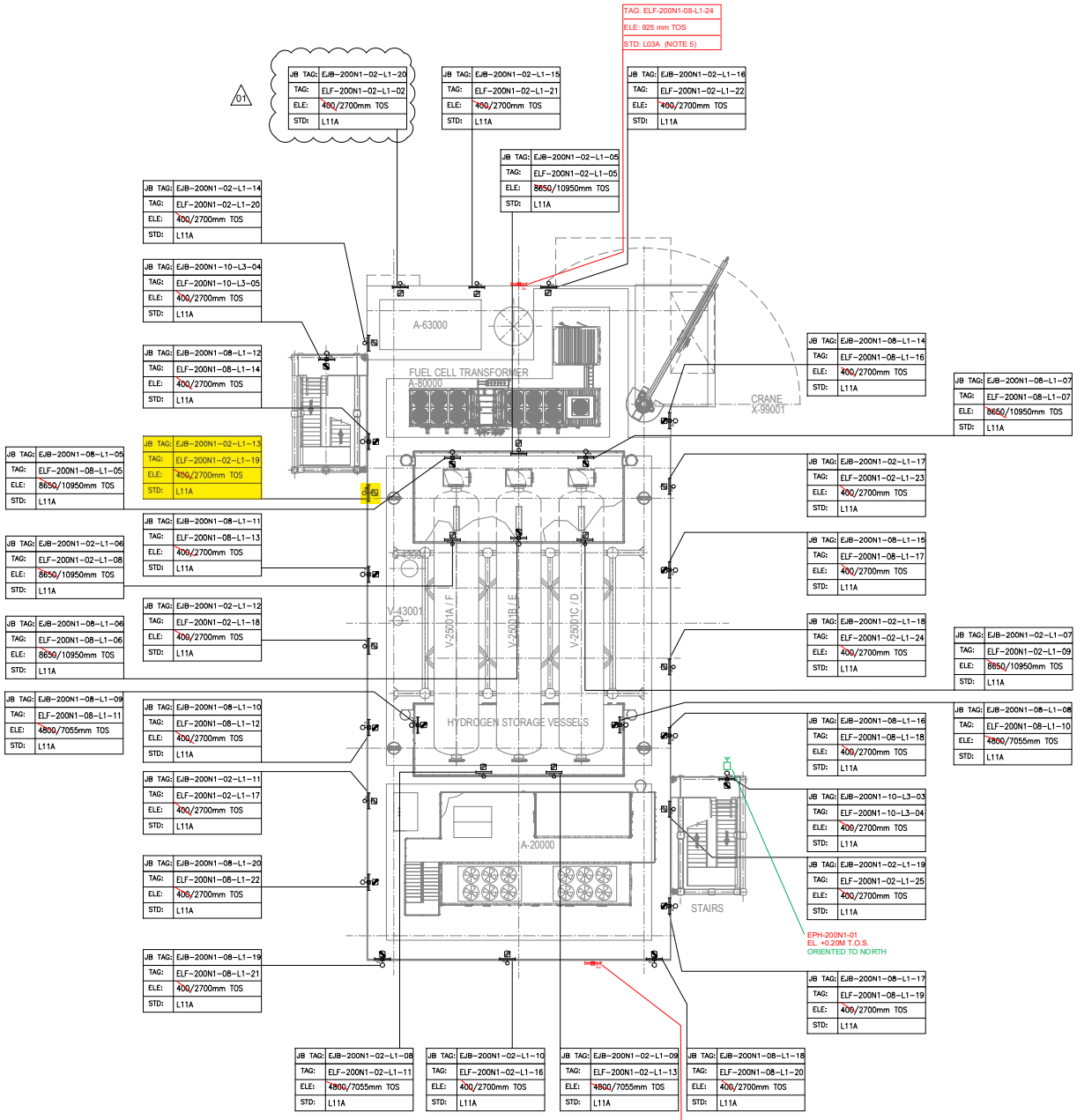
Remarks: Initial inspection should be detailed and carried out before equipment is brought into service as per IEC 60079-17

Please mark only one box as appropriate	
●	**Passed - Complete**
	Failed

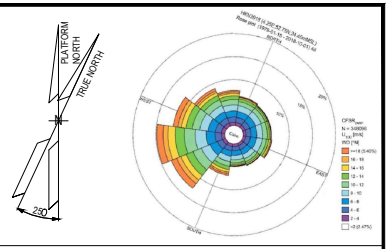
Page 3/3	Performed by	☐ WITNESS ☐ REVIEW	☐ WITNESS ☐ REVIEW
Company	ICS IMPIANTI	RM (ROSETTI MARINO)	
Name	Francesco Zucca	Andrea Andreani	
Date	2024-12-11	2024-12-14	
Signature	PROVERLIS Digitaly signed by Francesco Zucca 2024-12-11T15:28:25.854Z	PROVERLIS Digitaly signed by Andrea Andreani 2024-12-14T12:26:12.073Z	

DRAWING NO. 123A90-DDL-EL-DL-20118

REV. 01



PLAN ON UPPER DECK
EL+30.310 T.O.S.



NOTES

1. ALL DIMENSIONS AND ELEVATIONS ARE GIVEN IN mm UNLESS OTHERWISE NOTED.
2. ELEVATIONS REFER TO T.O.S.
3. ELEVATION OF THE LAMPS ARE REFFERED TO THE BOTTOM OF THE LAMP.
4. FOR THE ELEVATION OF JB, REFER TO THE TYPICAL INSTALLATION.
5. FOR ELF-200N1-08-L1-24 AND ELF-200N1-08-L1-25 CONSTRUCTION DETAILS REFER TO DOC. 123A90-DDL-ST-DD-90076

LEGEND

- EMERGENCY LIGHTING JB
- 60W LED EMERGENCY LUMINARIES
- 60W LED EMERGENCY LUMINARIES FIXTURE POLE MOUNTED
- NORMAL LIGHTING JB
- 45W LED NORMAL LUMINARIES
- 45W LED NORMAL LUMINARIES FIXTURE POLE MOUNTED
- WELDING SOCKET WITH INTEGRATED JB
- SMALL POWER SOCKET WITH INTEGRATED JB
- TWILIGHT RELAY SENSOR

JB TAG: — JB-TAG
TAG: — TAG
ELE: — ELEVATION
STD: — STANDARD

REFERENCE DOCUMENTS

123A90-DDL-PP-DL-70070	PLOT PLAN - LOWER & UPPER DECK
123A90-DDL-EL-DL-20100	ELECTRICAL EQUIPMENT LAYOUT - TOP DECK
123A90-DDL-EL-DD-20091	ELECTRICAL TYPICAL INSTALLATION DETAILS - LIGHTING SYSTEM
123A90-DDL-EL-DD-20092	ELECTRICAL TYPICAL INSTALLATION DETAILS - POWER SYSTEM & CABLE INSTALLATION
123A90-DDL-EL-RE-20153	LIGHTING CALCULATION STUDY REPORT
123A90-DDL-ST-DD-90076	IDENTIFICATION PANELS ASSEMBLY AND DETAILS

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	02/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	28/05/24	ASR	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DL-20118**

REV.:	DATE:	SIGNATURE:
1_F	26/11/24	G.Randi

ROSETTI MARINO SpA

CROSSWIND

ROSETTI MARINO

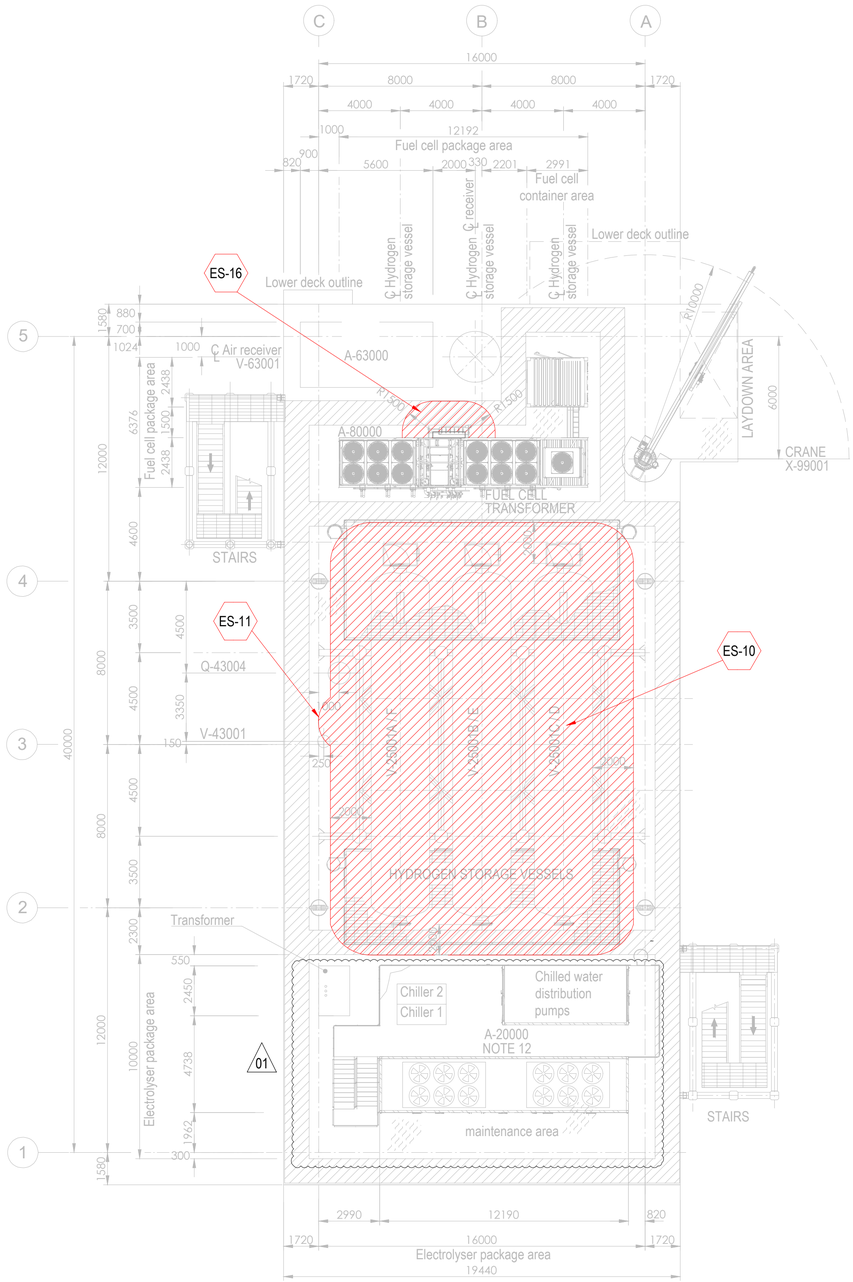
TITLE : BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET LAYOUT – TOP DECK

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK			SCALE 1:150
DRAWN ASR	CHECKED FMA/AMA	APPROVED FPA/DLO	DATE 01/08/24
A1	DRAWING NO. 123A90-DDL-EL-DL-20118	SHEET 1of2	REV. 01

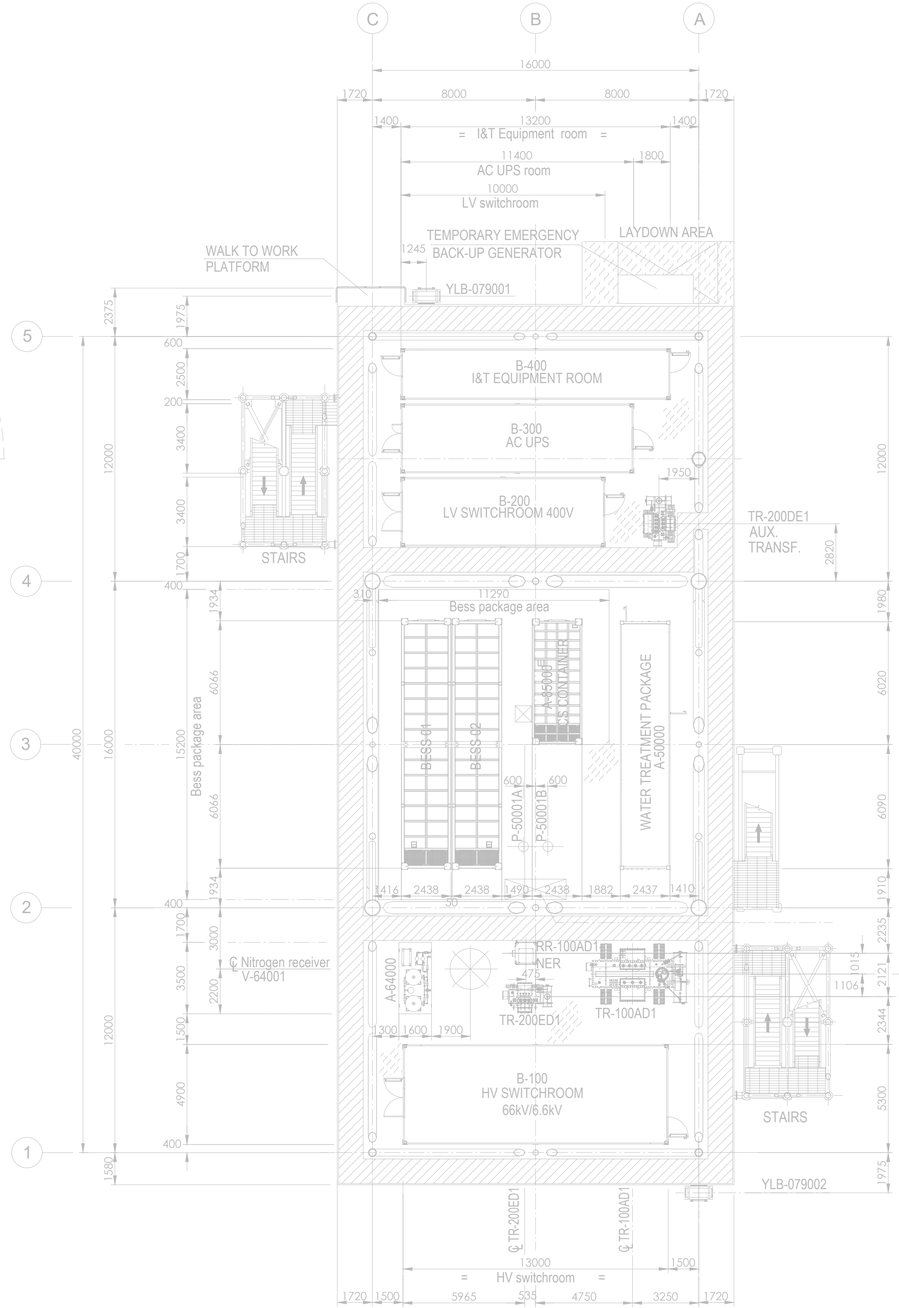
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DRAWING NO. 123A90-DDL-SAF-DL-30022

REV. 01



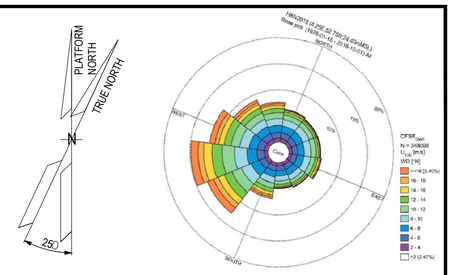
PLAN ON UPPER DECK
EL+30.310 T.O.S.



PLAN ON LOWER DECK
EL+23.310 T.O.S.

Tag No.	Equipment Tag	Description	Material	Ventilation Type
01	P-50001 A/B	SEA WATER LIFT PUMPS	SEA WATER	NATURAL (OPEN AREA)
02	Q-43004	HYDROGEN VENT	HYDROGEN	NATURAL (OPEN AREA)
03	V-43001	HYDROGEN VENT KO DRUM	HYDROGEN	NATURAL (OPEN AREA)
04	V-25001 (A/B/C/D/E/F)	HYDROGEN STORAGE VESSELS	HYDROGEN	NATURAL (OPEN AREA)
05	V-63001	AIR RECEIVER	INSTRUMENT AIR	NATURAL (OPEN AREA)
06	A-20000	ELECTROLYSER PACKAGE		
07	A-63000	INSTRUMENT AIR PACKAGE		
08	A-80000	FUEL CELL PACKAGE		
09	A-85000	BESS PACKAGE		
10	YLB-079001/2	LIFE RAFTS		
11	A-50000	WATER TREATMENT PACKAGE		

Tag No.	Equipment Tag	Description	Material	Ventilation Type
12	A-64000	NITROGEN SYSTEM		
13	B-100	HV SWITCHROOM 66kV/6.6kV		
14	B-200	LV SWITCHROOM 400V		
15	B-300	AC UPS EQUIPMENT ROOM		
16	B-400	I&T EQUIPMENT ROOM		
17	TR-100AD1	TRANSFORMER MAIN 66kV/6.6kV		
18	RR-100AD1-NER	NEUTRAL EARTHING RESISTOR		
19	TR-200DE1	TRANSFORMER AUX. 6.6kV/0.4kV		
20	TR-200ED1	SOLAR TRANSFORMER PV FARM EQUIPMENT		
21	X-99001	CRANE		
22	V-64001	NITROGEN RECEIVER		



1. ALL DIMENSIONS IN mm U.N.O
2. ALL ELEVATIONS IN METERS.
3. PLATFORM NORTH DIRECTION IS N 25°W.
4. VENT TOP SHALL BE REACHEABLE FOR MAINTENANCE PURPOSE.
5. THE BESS IS CONSIDERED SAFE AREA EXCEPT EXTRACTORES FROM BATTERIES , CURRENTLY NOT SHOWN IN DRAWINGS, SINCE INFORMATION FROM VENDOR IS NOT YET AVAILABLE.[ES17]
6. THE LOCATION OF EMISSION SOURCES ON THE LAYOUT ARE ONLY INDICATIVE. EMISSION SOURCES CONSIDERED ARE PRESENT WITHIN THE EXTENSION OF HAZARDOUS CLASSIFIED AREAS SHOWN ON THE LAYOUT. THIS IS BECAUSE VALVES AND FLANGES,WHICH ARE CONSIDERED POTENTIAL SOURCES OF RELEASE POINTS FOR FLAMMABLE GAS ARE NOT SHOWN ON CURRENT LAYOUT PROVIDED. THE SAME APPLIES TO THE EMISSION SOURCES FOR CPI'S ITEM.
7. IDENTIFIED EMISSION SOURCES DETAIL

EMISSION SOURCE No.	IDENTIFIED AREAS
ES10	HYDROGEN STORAGE VESSLES
ES11	HYDROGEN VENT KO DRUM
ES16	FUEL CELL

01

ZONE 0 | ZONE 1 | ZONE 2 | ES EMISSION SOURCES

01

01

123A90-DDL-PP-DS-70071	PLOT PLAN - BELOW LOWER DECK
123A90-DDL-PP-DS-70072	PLOT PLAN - ELEVATION LOOKING NORTH & EAST

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	27/08/24	MMA	CCA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	08/02/24	MMA	CCA	DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND

ROSETTI MARINO

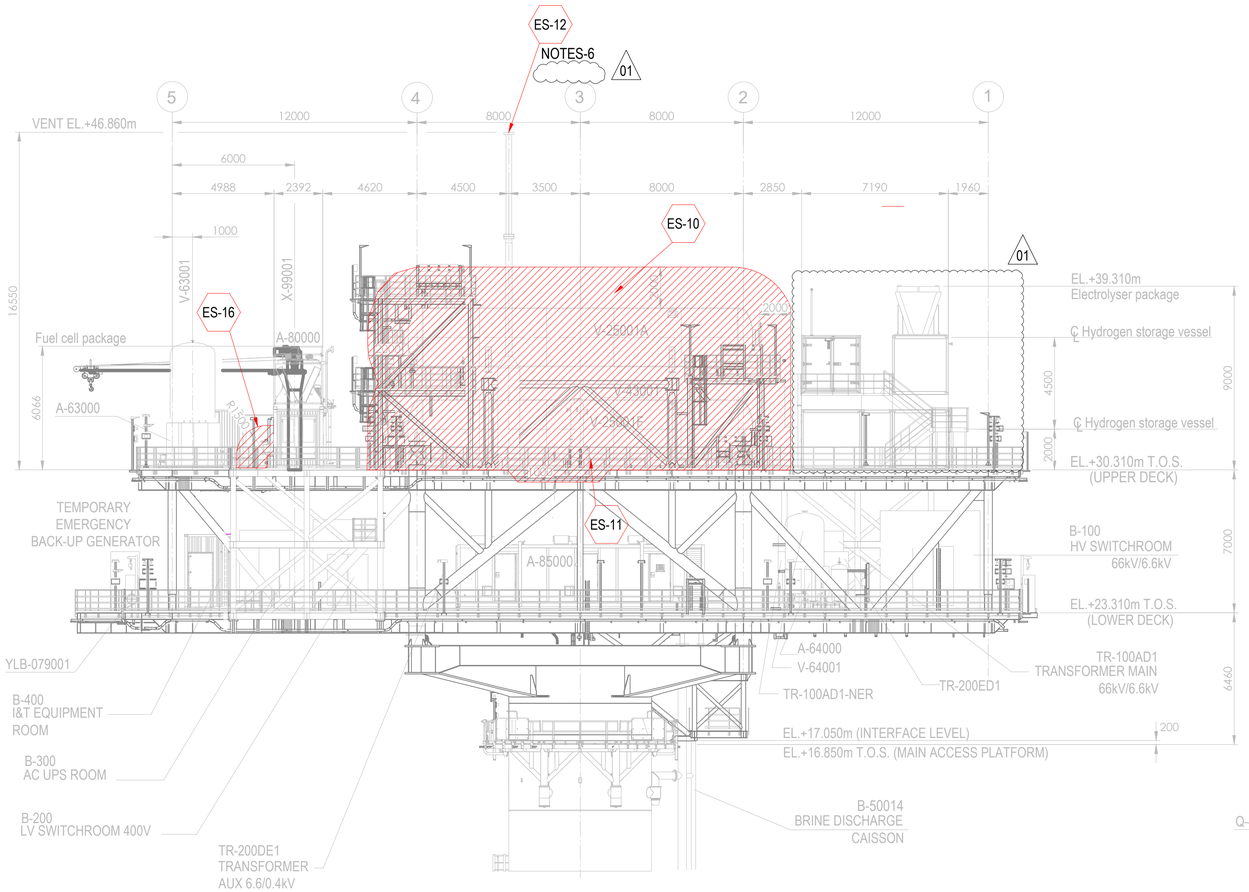
TITLE : BASE LOAD POWER HUB (BLPH)
HAZARDOUS AREA CLASSIFICATION
LOWER & UPPER DECK

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK		SCALE 1:150
DRAWN M. MAGNI	CHECKED C. CARACCIOLO	APPROVED D. LO STERZO	DATE 03/07/24
A1	DRAWING NO. 123A90-DDL-SAF-DL-30022	SHEET 001	REV. 01

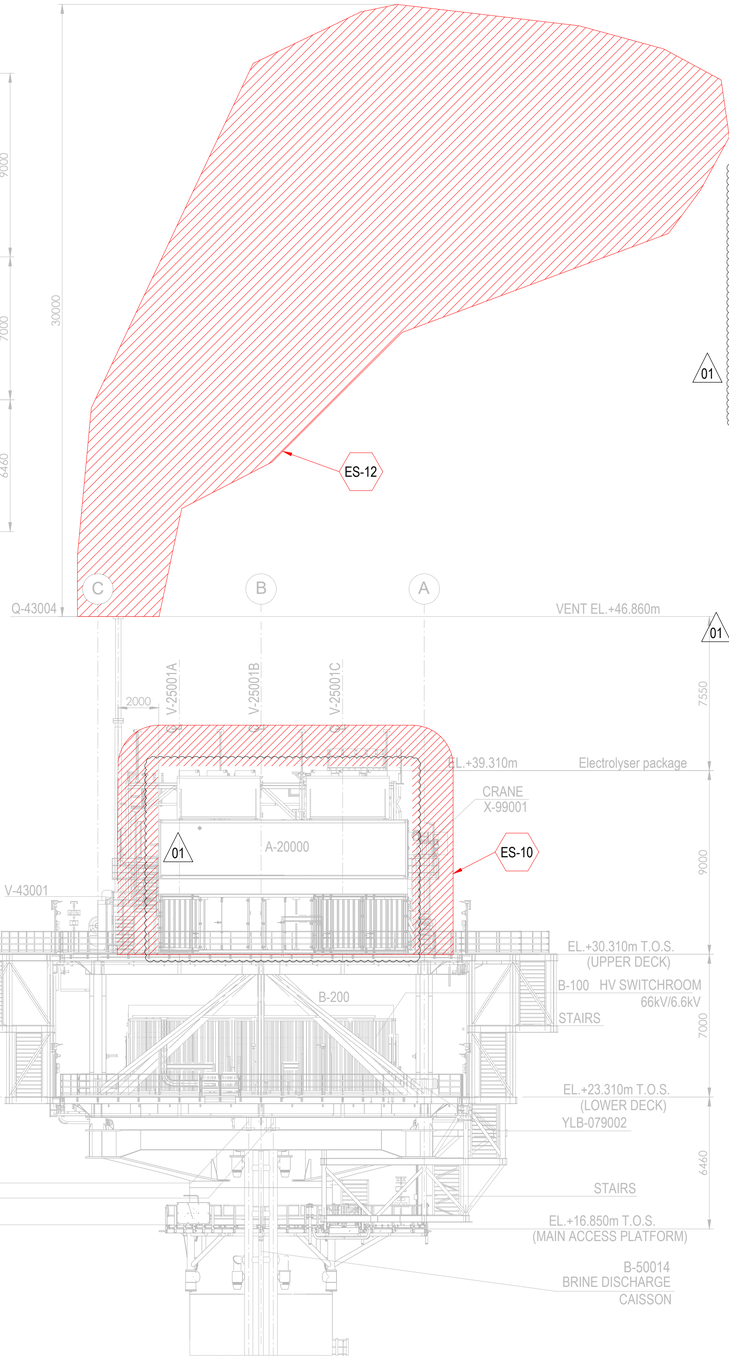
File Name : 123A90-DDL-SAF-DL-30022 Rev.01

DRAWING NO. 123A90-DDL-SAF-DL-30024

REV. 01



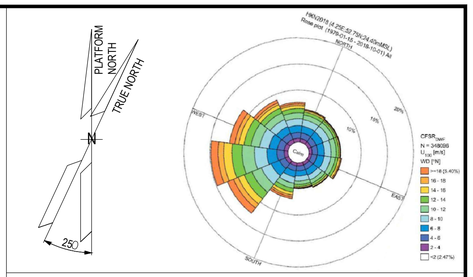
ELEVATION LOOKING EAST



ELEVATION LOOKING NORTH

01

Tag No.	Equipment Tag	Description	Material	Ventilation Type
01	P-50001 A/B	SEA WATER LIFT PUMPS	SEA WATER	NATURAL (OPEN AREA)
02	Q-43004	HYDROGEN VENT	HYDROGEN	NATURAL (OPEN AREA)
03	V-43001	HYDROGEN VENT KO DRUM	HYDROGEN	NATURAL (OPEN AREA)
04	V-25001 (A/B/C/D/E/F)	HYDROGEN STORAGE VESSELS	HYDROGEN	NATURAL (OPEN AREA)
05	V-63001	INSTRUMENT AIR RECEIVER	INSTRUMENT AIR	NATURAL (OPEN AREA)
06	A-20000	ELECTROLYSER PACKAGE		
07	A-63000	INSTRUMENT AIR PACKAGE		
08	A-80000	FUEL CELL PACKAGE		
09	A-85000	BESS PACKAGE		
10	YLB-079001/2	LIFE RAFTS		
11	B-100	HV SWITCHROOM 66kV/6.6kV		
12	B-200	LV SWITCHROOM 400V		
13	B-300	AC UPS EQUIPMENT ROOM		
14	B-400	I&T EQUIPMENT ROOM		
15	TR-100AD1	TRANSFORMER MAIN 66kV/6.6kV		
16	TR-100AD1-NER	NEUTRAL EARTHING RESISTOR		
17	TR-200DE1	TRANSFORMER AUX. 6.6kV/0.4kV		
18	TR-200ED1	SOLAR TRANSFORMER PV FARM EQUIPMENT		
19	X-99001	CRANE		
20	V-64001	NITROGEN RECEIVER		



NOTES

1. ALL DIMENSIONS IN mm U.N.O
2. ALL ELEVATIONS IN METERS.
3. PLATFORM NORTH DIRECTION IS N 25°W.
4. VENT TOP SHALL BE REACHEABLE FOR MAINTENANCE PURPOSE.
5. THE BESS IS CONSIDERED SAFE AREA EXCEPT EXTRACTORES FROM BATTERIES , CURRENTLY NOT SHOWN IN DRAWINGS, SINCE INFORMATION FROM VENDOR IS NOT YET AVAILABLE.[ES17]
6. (ES12) IS SHOWN ONLY ON ELEVATION LOOKING NORTH ON THIS LAYOUT
7. THE LOCATION OF EMISSION SOURCES ON THE LAYOUT ARE ONLY INDICATIVE. EMISSION SOURCES CONSIDERED ARE PRESENT WITHIN THE EXTENSION OF HAZARDOUS CLASSIFIED AREAS SHOWN ON THE LAYOUT. THIS IS BECAUSE VALVES AND FLANGES,WHICH ARE CONSIDERED POTENTIAL SOURCES OF RELEASE POINTS FOR FLAMMABLE GAS ARE NOT SHOWN ON CURRENT LAYOUT PROVIDED. THE SAME APPLIES TO THE EMISSION SOURCES FOR CPI'S ITEM.
8. IDENTIFIED EMISSION SOURCES DETAIL

EMISSION SOURCE No.	IDENTIFIED AREAS
ES10	HYDROGEN STORAGE VESSLES
ES11	HYDROGEN VENT KO DRUM
ES12	HYDROGEN VENT
ES16	FUEL CELL

01

LEGEND

ZONE 0 | ZONE 1 | ZONE 2 | ES EMISSION SOURCES

01

REFERENCE DOCUMENTS

123A90-DDL-PP-DS-70070	PLOT PLAN - LOWER & UPPER DECK
123A90-DDL-PP-DS-70071	PLOT PLAN - BELOW LOWER DECK

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
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00	08/02/24	MMA	CCA	DLO	ISSUE FOR REVIEW (IFR)

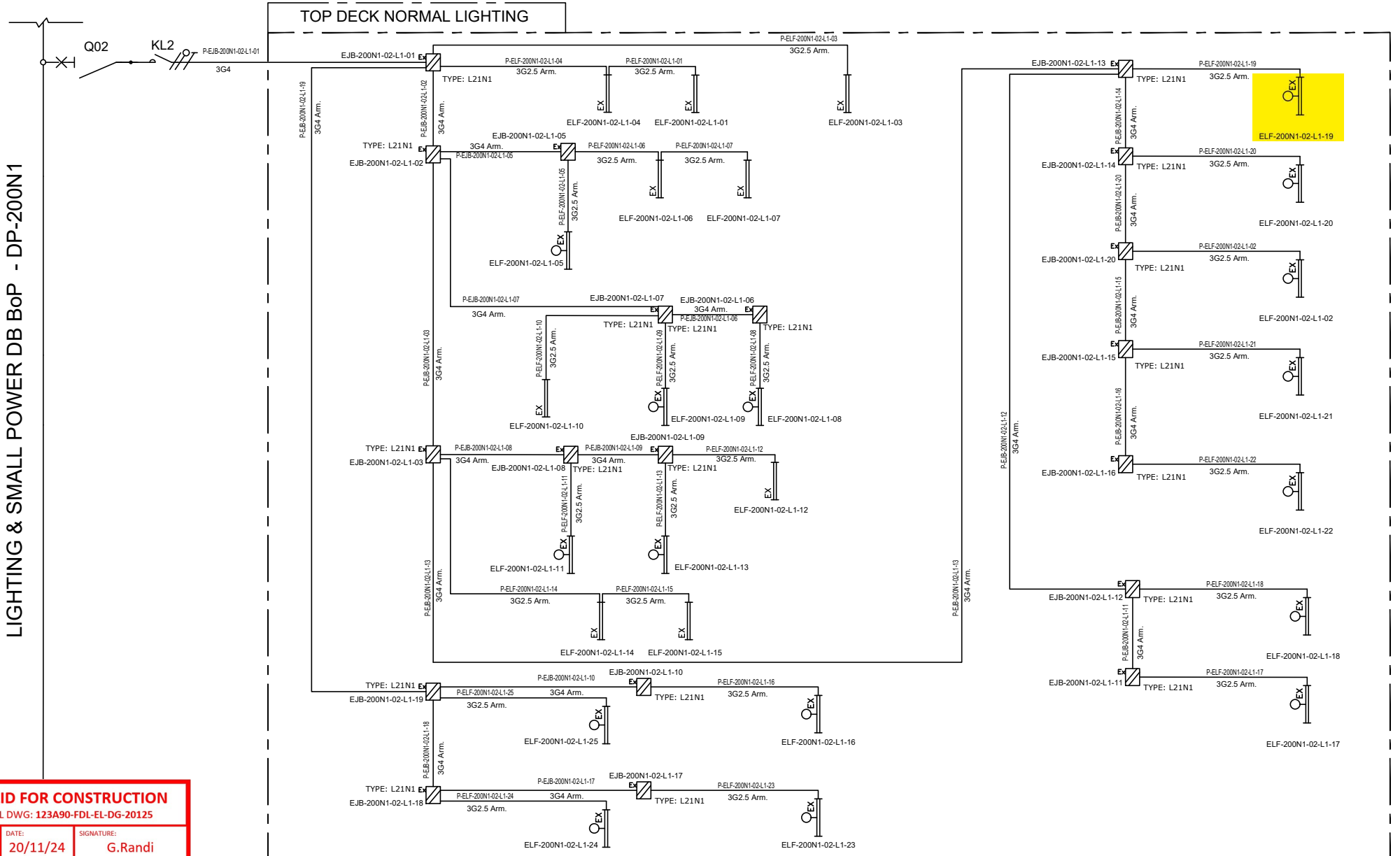
CROSSWIND | ROSETTI MARINO

TITLE :
BASE LOAD POWER HUB (BLPH)
HAZARDOUS AREA CLASSIFICATION
ELEVATION LOOKING NORTH & EAST

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK			SCALE 1:150
DRAWN M. MAGNI	CHECKED C. CARACCIOLO	APPROVED D. LO STERZO	DATE 03/07/24

A1	DRAWING NO. 123A90-DDL-SAF-DL-30024	SHEET 001	REV. 01

File Name : 123A90-DDL-SAF-DL-30024 Rev.01



VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DG-20125**

REV.:	DATE:	SIGNATURE:
2_B	20/11/24	G.Randi

ROSETTI MARINO SpA

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	08/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	01/07/24	ASR	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

TITLE : BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET CIRCUIT DIAGRAM
TOP DECK–NORMAL LIGHTING

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE : NTS

A3

DRAWING NO. 123A90–DDL–EL–DG–20125

SHEET 010

REV. 01

CROSSWIND

ROSETTI MARINO

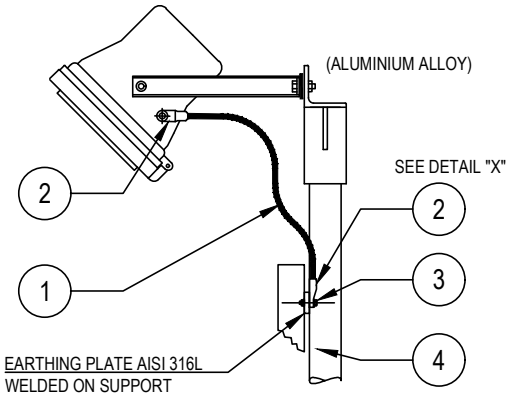
F.to UNI A3: 420mmx297mm

File Name : 123A90–DDL–EL–DG–20125

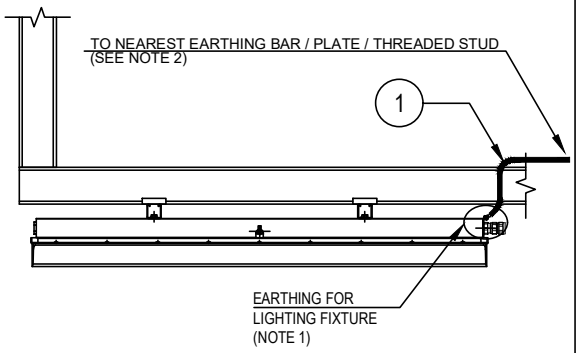
E05

POS.	DESCRIPTION	MATERIAL	SIZE	Q.TY	NOTE
1	Y/G INSULATING COPPER CONDUCTOR	COPPER	$6mm^2$		
2	COMPRESSION TYPE LUG FOR INSULATION COPPER CONDUCTOR	TINNED COPPER	$6mm^2$	2	
3	HEXAG. BOLTS, PLANE WASHERS, SPRING WASHER AND NUT	AISI 316L	M8X30	1	

LIGHTING FIXTURE/GENERAL ITEM ON POLE

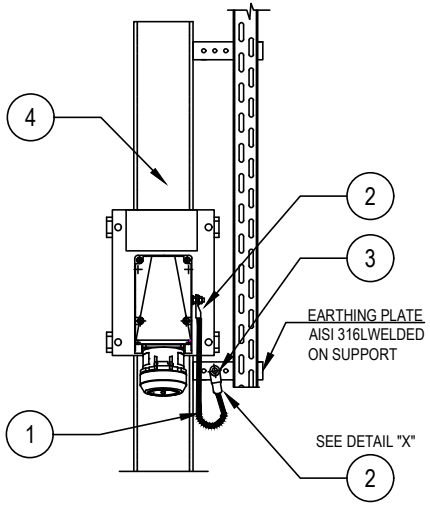


LIGHTING FIXTURES

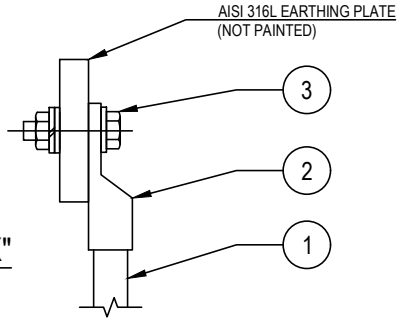


Refer also to TYP. "E32" (SEE SHEET 23)

POWER SOCKET OUTLET



DETAIL "X"



TYPICAL VALID ALSO FOR NAVAID LIGHTS

NOTES:

1) ALL LIGHTING FIXTURES AND RELEVANT ARMOUR OF THE CABLE, ARE CONNECTED TO EARTH CONNECTION THROUGH THE EARTHING TAG OF THE CABLE GLAND

2) FOR EARTHING POINT USE ONE OF THE FOLLOWING METHODS:
TYP. E03A-D sh. 004 (EARTHING BAR ON STRUCT. UNISTRUT AND CABLE TRAY)
TYP. E11C sh. 003 (EARTHING PLATE)
TYP. E11D sh. 003 (THREADED STUD ON EXTERNAL STRUCTURE)

VALID FOR CONSTRUCTION
FDL DWG: 123A90-FDL-EL-DD-20090
REV.: 2_I | DATE: 07/11/24 | SIGNATURE: G.Randi
ROSETTI MARINO SpA

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	26/08/24	GRA	AMA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	10/06/24	SPS	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	21/11/23	SPS	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL TYPICAL INSTALLATION DETAILS–EARTHING SYSTEM
EARTHING FOR ELECTRICAL EQUIPMENTS

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK | SCALE : NTS

A3 | DRAWING NO. 123A90–DDL–EL–DD–20090 | SHEET 006 | REV. 02

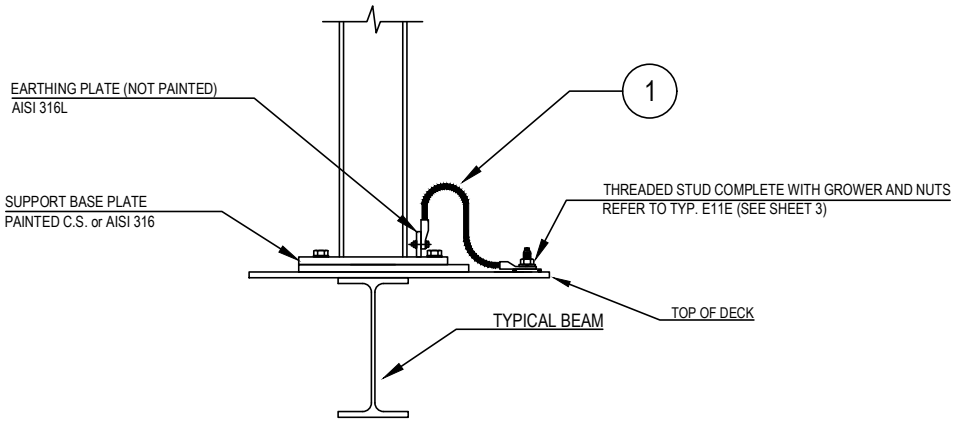
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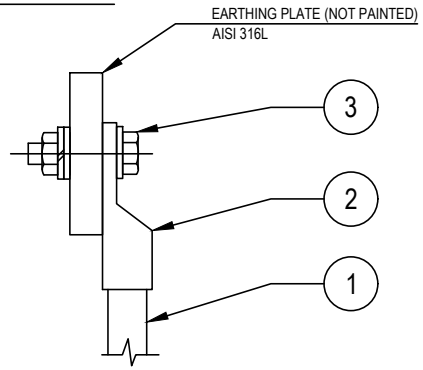
E24

POS.	DESCRIPTION	MATERIAL	SIZE	Q.TY	NOTE
1	As. R. Y/G INSULATING COPPER CONDUCTOR	COPPER	35mm^2		
2	COMPRESSION TYPE LUG FOR INSULATION COPPER CONDUCTOR	TINNED COPPER	35mm^2	2	~~NOTE 1~~
3	HEXAG. BOLT M10X30 COMPLETE WITH PLANE WASHERS, SPRING WASHER AND NUT	AISI 316L	M10X30	2	

GENERIC SUPPORT BOLTED ON STRUCTURE



DETAIL "X"



NOTES:
1) ~~CABLE LUG CRIMPING METHOD SHALL BE HEXAGONAL COMPRESSION DIES ONLY~~
2) EXTERNAL EARTHING CONNECTION ONLY SHALL BE PROTECTED AGAINST CORROSION USING OXIDE RESISTANT COMPOUND (E.G. COPPER GREASE)

VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DD-20090**
REV.: 2_I | DATE: 07/11/24 | SIGNATURE: G.Randi
ROSETTI MARINO SpA

CROSSWIND

ROSETTI MARINO

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	26/08/24	GRA	AMA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	10/06/24	SPS	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	21/11/23	SPS	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL TYPICAL INSTALLATION DETAILS–EARTHING SYSTEM
EARTHING FOR POLE/SUPPORT OF GENERIC EQUIPMENTS

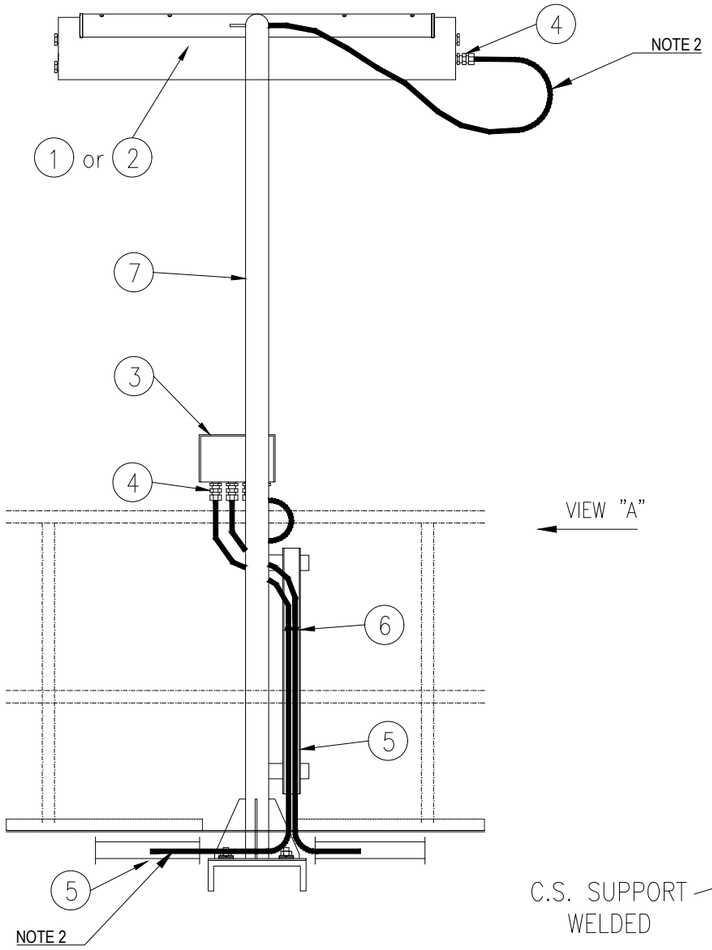
CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK | SCALE : NTS

A3	DRAWING NO.	SHEET	REV.
	123A90-DDL-EL-DD-20090	012	02

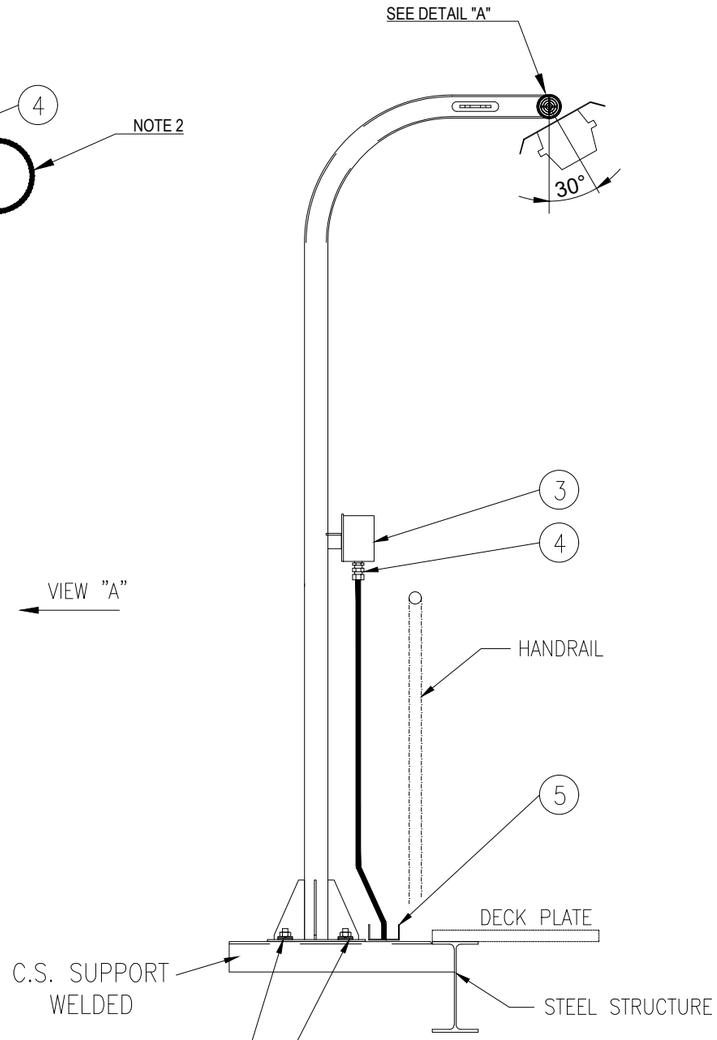
F.to UNI A3: 420mmx297mm

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L11A

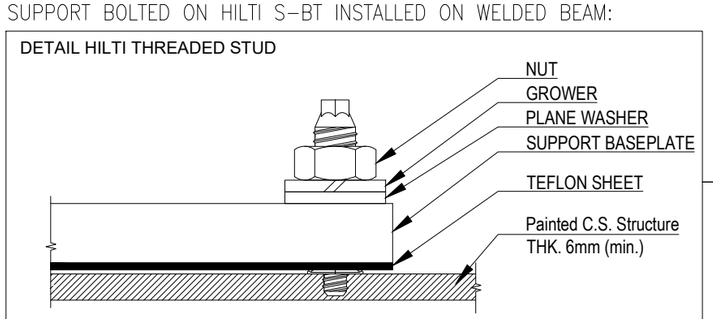


VIEW "A"

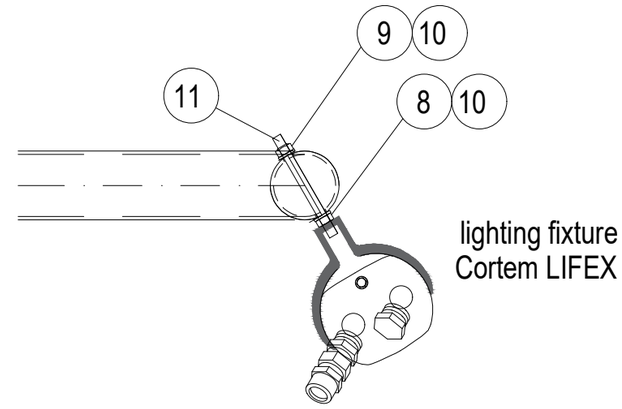


VIEW "A"

SUPPORT BOLTED ON HILTI S-BT INSTALLED ON WELDED BEAM:



POS.	DESCRIPTION	MATERIAL	SIZE	Q.TY	NOTE
1	42W LED LUMINARIES	ALUMINIUM ALLOY		1	
2	45W LED LUMINARIES C/W BATTERY	ALUMINIUM ALLOY		1	
3	JUNCTION BOX (Ex)	GRP		1	NOTE 1
4	CABLE GLAND C/W EARTH TAG, WASHERS, LOCKNUT AND WEATHERPROOF WASHERS	BRASS NICKEL PLATED		AS REQ.	
5	CABLE TRAY	AISI 316L			
6	STAINLESS STEEL NYLON COATED CABLE TIE	SS NYLON COATED			
7	POLE SUPPORT FOR LAMP	AISI 316L	2"		
8	NUT	AISI 316L	M8		
9	SELF.LOCKING NUT	AISI 316L	M8		
10	LARGE PLANE WASHER (24mm DIAM.)	AISI 316L	M8		
11	THREADED ROD M8x100	AISI 316L	M8		



DETAIL "A"

NOTES:

1) FOR LAMPS IN HAZARDOUS AREA, USE ARMOURED CABLE, DOUBLE SEAL CABLE GLAND AND EX JUNCTION BOX.

2) ALWAYS ENSURE CABLE LENGTH IS >3m

VALID FOR CONSTRUCTION
FDL DWG: 123A90-FDL-EL-DD-20091
REV.: 2_A | DATE: 30/09/24 | SIGNATURE: G.Randi
ROSETTI MARINO SpA

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	30/09/24	GRA	AMA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	04/07/24	NLK	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	21/11/23	SPS	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

02

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL TYPICAL INSTALLATION DETAILS-LIGHTING SYSTEM
LIGHTING FIXTURE MOUNTED ON POLE

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK | SCALE : NTS

A3 | DRAWING NO. 123A90-DDL-EL-DD-20091 | SHEET 014 | REV. 02

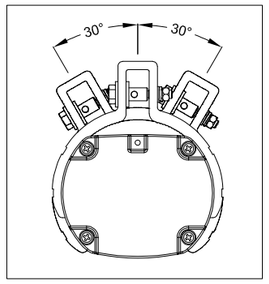
F.to UNI A3: 420mmx297mm

File Name : 123A90-DDL-EL-DD-20091 REV.02.DWG

MODEL C-225 REV.1

GENERAL NOTE:
- PO: 1724001290 DD 26/06/2024
- ITEM.: 1
- Q.TY: 57
- EXTERNAL PAINTING: RAL 7022 (END CAPS)
- INTERNAL PAINTING: NOT PAINTED
- ALL DIMENSIONS ARE IN mm

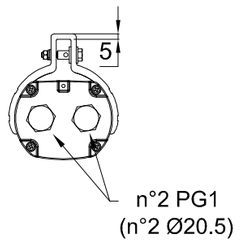
STANDARD FIXING BRACKET
FASTENING WITH 2 THREADED M8
HOLES, ADJUSTABLE FROM 0° TO ±30°



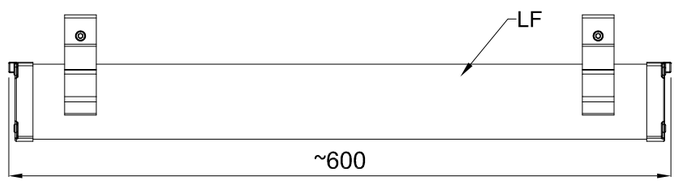
LF INFORMATION	
NOMINAL POWER	45W
CONSUMED POWER	43,5W
POWER FACTOR	>0,93
RATED CURRENT	200 mA
VIEWING ANGLE	120°
COLOUR TEMP.	5000 K
CRI	>80
INSTANT RESTRIKE	YES
LUMEN	6200 lm
LIGHT INTENSITY	2248 cd
EFFICIENCY	143 lm/W
WEIGHT	2,5 Kg
IP PROTECTION	IP66

N°	Q.TY	CODE	DESCRIPTION
LF	1	LIFEX-ME-0645-BB	110-277Vac 50-60Hz 45W LED LINEAR LIGHTING FIXTURE BODY: ALUMINUM ALLOY EXTRUSION AND ALUMINUM END CAPS TRANSPARENT PART: GLASS RESISTANT TO SHOCKS, UV RAYS AND IMPACT RESISTANCE IK09 GASKETS: ACID AND HYDROCARBON RESISTANT SILICONE ASSEMBLY: FASTENING BRACKETS FOR M8 HOLES, ADJUSTABLE 0° TO ±30° MADE IN ANODIZED ALUMINUM CONNECTION: TERMINAL BLOCK ON SIDE (IN) L, N, PE CROSS SEC. MAX. 4mmq SUITABLE FOR LOOP-IN LOOP-OUT SCREWS, BOLTS AND NUTS: STAINLESS STEEL 304
PG1	4	PLG1IB +DL1IB +RDI1IS/A4	IP66 Ex db IIC Gb - Ex eb IIC Gb NICKEL PLATED BRASS PLUG ISO M20x1,5 WITH RELEVANT LOCKNUT AND SERRATED WASHER MADE IN STAINLESS STEEL

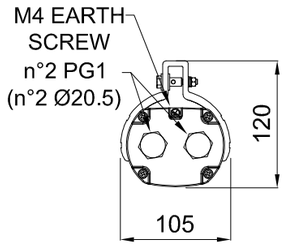
LEFT SIDE (OUT)



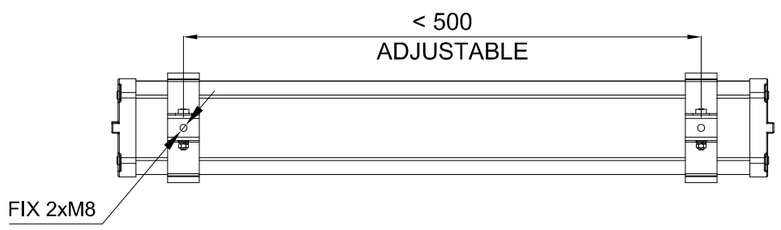
FRONT SIDE



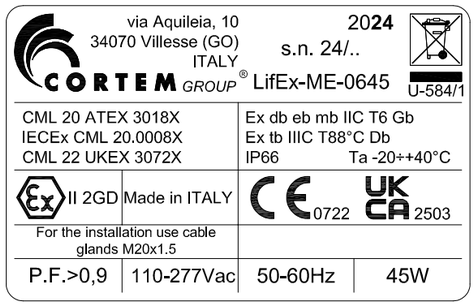
RIGHT SIDE (IN)



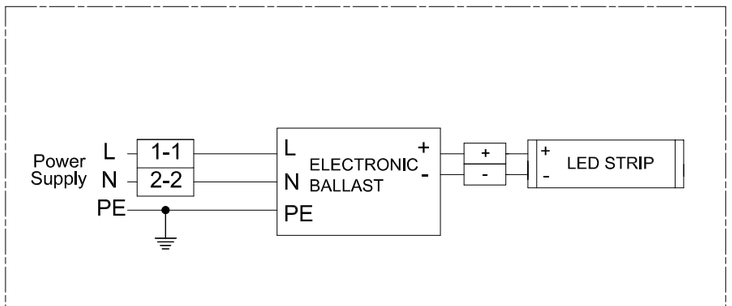
TOP SIDE



CERTIFICATE NAMEPLATE



WIRING DIAGRAM



REV.	DATE	PREP'D	CHK'D	APP'D	DESCRIPTION
2	09/07/2024	FRATTARUOLO	GIUSTI	GRATTON	REISSUED FOR APPROVAL
1	05/07/2024	FRATTARUOLO	GIUSTI	GRATTON	REISSUED FOR APPROVAL
0	28/06/2024	FRATTARUOLO	GIUSTI	GRATTON	ISSUED FOR APPROVAL

DRAWING TITLE: ROSETTI MARINO S.P.A.

CORTEM S.p.a.
GENERAL LAYOUT
001 LIFEX-ME-0645-BB/C2402693/10.

CORTEM JOB: COV2402693
DRAWING SCALE: /
DRAWING NUMBER: A3-C 27521
SHEET: 1
NEXT: 2
TOT.: 2

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AUTHORIZATION

Smart Professional R. 2012

Row	Item	Required	Manufacturer Proposal	Comments	Rev.
1	Data Sheet for Lighting Fixtures & Accessories				
2	42W LED Linear Luminaire-Normal Lighting-ATEX Area				
3	Model Number	by vendor	LIFEX-ME-0645-BB		01
4	Serial Number	by vendor			00
5	Quantity	28 Nos.		(25+3 Spare)	01
6	Location / Module	Upper deck			00
7	**LED Lamp**				
8	Nominal power	42 watts	45 watts		01
9	No. of linear	1	1		01
10	Luminous flux	5810 lm	6200 lm		01
11	Colour Temperature	5000 K	5000 K		01
12	**Protection**				
13	Hazardous Area Certification (Ex)	Zone 1 Gas Group IIC (or) IIB + H2, T1	Ex II 2GD Ex db eb mb IIC Gb Ex tb IIIC Db		01
14	Degree of Protection (IP)	IP 56	IP 66		01
15	ATEX certified	Classification EX db	ATEX CML 20 ATEX 3018X		01
16	**Material**				
17	Body	GRP/Aluminium alloy	Aluminium alloy		01
18	Reflector	GRP/Aluminium	Aluminium		01
19	Diffuser	Polycarbonate/temperate glass	Tempered glass		01
20	**Cable Entry**				
21	No. of cable entry	4 Nos.	4 Entries, 2 per side		01
22	Size	M20	Ø20.5mm		01
23	**Emergency Battery Pack**				
24	Requirement	Not required			00
25	Battery type	Not required			00
26	Autonomy	Not required			00
27	Emergency luminous flux	Not required			00
28	**Mechanical parameters**				
29	Dimension	by vendor	600x105x120(mm)		01
30	Weight	by vendor	2.5kg		01

Note:

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Tag Number	Tag Description	Location	P.O.	Vendor	Manufacturer	Serial Number	Model Type Catalogue Number	Installation Zone	ATEX Certificate Number	Reference Document	ATEX Certification Marking	Notes / Comments	Skid / Package	Electrical Equip.	Barrier Calculation Ref.	Special Conditions of Safe Use Applicable	3D Location
ELF-200N1-02-L1-17	Normal Lighting Fixture	UPPER DECK	1724001290	Cortem Spa	Cortem Spa	24/86772	LIFEX-ME-0645-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	
ELF-200N1-02-L1-18	Normal Lighting Fixture	UPPER DECK	1724001290	Cortem Spa	Cortem Spa	24/86772	LIFEX-ME-0645-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	
ELF-200N1-02-L1-19	Normal Lighting Fixture	UPPER DECK	1724001290	Cortem Spa	Cortem Spa	24/86772	LIFEX-ME-0645-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	
ELF-200N1-02-L1-20	Normal Lighting Fixture	UPPER DECK	1724001290	Cortem Spa	Cortem Spa	24/86772	LIFEX-ME-0645-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	
ELF-200N1-02-L1-21	Normal Lighting Fixture	UPPER DECK	1724001290	Cortem Spa	Cortem Spa	24/86772	LIFEX-ME-0645-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	
ELF-200N1-02-L1-22	Normal Lighting Fixture	UPPER DECK	1724001290	Cortem Spa	Cortem Spa	24/86772	LIFEX-ME-0645-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	
ELF-200N1-02-L1-23	Normal Lighting Fixture	UPPER DECK	1724001290	Cortem Spa	Cortem Spa	24/86772	LIFEX-ME-0645-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	
ELF-200N1-02-L1-24	Normal Lighting Fixture	UPPER DECK	1724001290	Cortem Spa	Cortem Spa	24/86772	LIFEX-ME-0645-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	
ELF-200N1-02-L1-25	Normal Lighting Fixture	UPPER DECK	1724001290	Cortem Spa	Cortem Spa	24/86772	LIFEX-ME-0645-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	
ELF-200N1-03-L2-01	Normal Lighting Fixture	LOWER DECK	1724001290	Cortem Spa	Cortem Spa	24/86772	LIFEX-ME-0645-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	
ELF-200N1-03-L2-02	Normal Lighting Fixture	LOWER DECK	1724001290	Cortem Spa	Cortem Spa	24/86772	LIFEX-ME-0645-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	
ELF-200N1-03-L2-03	Normal Lighting Fixture	LOWER DECK	1724001290	Cortem Spa	Cortem Spa	24/86772	LIFEX-ME-0645-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	
ELF-200N1-03-L2-04	Normal Lighting Fixture	LOWER DECK	1724001290	Cortem Spa	Cortem Spa	24/86772	LIFEX-ME-0645-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	
ELF-200N1-03-L2-05	Normal Lighting Fixture	LOWER DECK	1724001290	Cortem Spa	Cortem Spa	24/86772	LIFEX-ME-0645-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	
ELF-200N1-03-L2-06	Normal Lighting Fixture	LOWER DECK	1724001290	Cortem Spa	Cortem Spa	24/86772	LIFEX-ME-0645-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	
ELF-200N1-03-L2-07	Normal Lighting Fixture	LOWER DECK	1724001290	Cortem Spa	Cortem Spa	24/86772	LIFEX-ME-0645-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	
ELF-200N1-03-L2-08	Normal Lighting Fixture	LOWER DECK	1724001290	Cortem Spa	Cortem Spa	24/86772	LIFEX-ME-0645-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	
ELF-200N1-03-L2-09	Normal Lighting Fixture	LOWER DECK	1724001290	Cortem Spa	Cortem Spa	24/86772	LIFEX-ME-0645-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	
ELF-200N1-03-L2-10	Normal Lighting Fixture	LOWER DECK	1724001290	Cortem Spa	Cortem Spa	24/86772	LIFEX-ME-0645-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	
ELF-200N1-03-L2-11	Normal Lighting Fixture	LOWER DECK	1724001290	Cortem Spa	Cortem Spa	24/86772	LIFEX-ME-0645-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	
ELF-200N1-03-L2-12	Normal Lighting Fixture	LOWER DECK	1724001290	Cortem Spa	Cortem Spa	24/86772	LIFEX-ME-0645-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	
ELF-200N1-03-L2-13	Normal Lighting Fixture	LOWER DECK	1724001290	Cortem Spa	Cortem Spa	24/86772	LIFEX-ME-0645-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	
ELF-200N1-03-L2-14	Normal Lighting Fixture	LOWER DECK	1724001290	Cortem Spa	Cortem Spa	24/86772	LIFEX-ME-0645-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	
ELF-200N1-03-L2-15	Normal Lighting Fixture	LOWER DECK	1724001290	Cortem Spa	Cortem Spa	24/86772	LIFEX-ME-0645-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	
ELF-200N1-03-L2-16	Normal Lighting Fixture	LOWER DECK	1724001290	Cortem Spa	Cortem Spa	24/86772	LIFEX-ME-0645-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	
ELF-200N1-04-L3-01	Stair Normal Lighting Fixture	LOWER DECK	1724001290	Cortem Spa	Cortem Spa	24/86772	LIFEX-ME-0645-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	
ELF-200N1-04-L3-02	Stair Normal Lighting Fixture	LOWER DECK	1724001290	Cortem Spa	Cortem Spa	24/86772	LIFEX-ME-0645-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	
ELF-200N1-08-L1-01	Emergency Lighting Fixture	UPPER DECK	1724001290	Cortem Spa	Cortem Spa	24/86773	LIFEX-ME-1260N-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	
ELF-200N1-08-L1-02	Emergency Lighting Fixture	UPPER DECK	1724001290	Cortem Spa	Cortem Spa	24/86773	LIFEX-ME-1260N-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	
ELF-200N1-08-L1-03	Emergency Lighting Fixture	UPPER DECK	1724001290	Cortem Spa	Cortem Spa	24/86773	LIFEX-ME-1260N-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	
ELF-200N1-08-L1-04	Emergency Lighting Fixture	UPPER DECK	1724001290	Cortem Spa	Cortem Spa	24/86773	LIFEX-ME-1260N-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	
ELF-200N1-08-L1-05	Emergency Lighting Fixture	UPPER DECK	1724001290	Cortem Spa	Cortem Spa	24/86773	LIFEX-ME-1260N-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	HAZARDOUS-AREA_8
ELF-200N1-08-L1-06	Emergency Lighting Fixture	UPPER DECK	1724001290	Cortem Spa	Cortem Spa	24/86773	LIFEX-ME-1260N-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	HAZARDOUS-AREA_8 HAZARDOUS-AREA_3 HAZARDOUS-AREA_1 HAZARDOUS-AREA_2
ELF-200N1-08-L1-07	Emergency Lighting Fixture	UPPER DECK	1724001290	Cortem Spa	Cortem Spa	24/86773	LIFEX-ME-1260N-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	HAZARDOUS-AREA_8
ELF-200N1-08-L1-08	Emergency Lighting Fixture	UPPER DECK	1724001290	Cortem Spa	Cortem Spa	24/86773	LIFEX-ME-1260N-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	HAZARDOUS-AREA_3 HAZARDOUS-AREA_6
ELF-200N1-08-L1-09	Emergency Lighting Fixture	UPPER DECK	1724001290	Cortem Spa	Cortem Spa	24/86773	LIFEX-ME-1260N-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	HAZARDOUS-AREA_1 HAZARDOUS-AREA_4
ELF-200N1-08-L1-10	Emergency Lighting Fixture	UPPER DECK	1724001290	Cortem Spa	Cortem Spa	24/86773	LIFEX-ME-1260N-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	HAZARDOUS-AREA_4 HAZARDOUS-AREA_1
ELF-200N1-08-L1-11	Emergency Lighting Fixture	UPPER DECK	1724001290	Cortem Spa	Cortem Spa	24/86773	LIFEX-ME-1260N-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	HAZARDOUS-AREA_6 HAZARDOUS-AREA_3
ELF-200N1-08-L1-12	Emergency Lighting Fixture	UPPER DECK	1724001290	Cortem Spa	Cortem Spa	24/86773	LIFEX-ME-1260N-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	
ELF-200N1-08-L1-13	Emergency Lighting Fixture	UPPER DECK	1724001290	Cortem Spa	Cortem Spa	24/86773	LIFEX-ME-1260N-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	
ELF-200N1-08-L1-14	Emergency Lighting Fixture	UPPER DECK	1724001290	Cortem Spa	Cortem Spa	24/86773	LIFEX-ME-1260N-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	
ELF-200N1-08-L1-15	Emergency Lighting Fixture	UPPER DECK	1724001290	Cortem Spa	Cortem Spa	24/86773	LIFEX-ME-1260N-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	
ELF-200N1-08-L1-16	Emergency Lighting Fixture	UPPER DECK	1724001290	Cortem Spa	Cortem Spa	24/86773	LIFEX-ME-1260N-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	
ELF-200N1-08-L1-17	Emergency Lighting Fixture	UPPER DECK	1724001290	Cortem Spa	Cortem Spa	24/86773	LIFEX-ME-1260N-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	
ELF-200N1-08-L1-18	Emergency Lighting Fixture	UPPER DECK	1724001290	Cortem Spa	Cortem Spa	24/86773	LIFEX-ME-1260N-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	
ELF-200N1-08-L1-19	Emergency Lighting Fixture	UPPER DECK	1724001290	Cortem Spa	Cortem Spa	24/86773	LIFEX-ME-1260N-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	
ELF-200N1-08-L1-20	Emergency Lighting Fixture	UPPER DECK	1724001290	Cortem Spa	Cortem Spa	24/86773	LIFEX-ME-1260N-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	
ELF-200N1-08-L1-21	Emergency Lighting Fixture	UPPER DECK	1724001290	Cortem Spa	Cortem Spa	24/86773	LIFEX-ME-1260N-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	
ELF-200N1-08-L1-22	Emergency Lighting Fixture	UPPER DECK	1724001290	Cortem Spa	Cortem Spa	24/86773	LIFEX-ME-1260N-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	
ELF-200N1-08-L1-23	Emergency Lighting Fixture	UPPER DECK	1724001290	Cortem Spa	Cortem Spa	24/86773	LIFEX-ME-1260N-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	
ELF-200N1-09-L2-01	Emergency Lighting Fixture	LOWER DECK	1724001290	Cortem Spa	Cortem Spa	24/86773	LIFEX-ME-1260N-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	
ELF-200N1-09-L2-02	Emergency Lighting Fixture	LOWER DECK	1724001290	Cortem Spa	Cortem Spa	24/86773	LIFEX-ME-1260N-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	
ELF-200N1-09-L2-03	Emergency Lighting Fixture	LOWER DECK	1724001290	Cortem Spa	Cortem Spa	24/86773	LIFEX-ME-1260N-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	
ELF-200N1-09-L2-04	Emergency Lighting Fixture	LOWER DECK	1724001290	Cortem Spa	Cortem Spa	24/86773	LIFEX-ME-1260N-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	
ELF-200N1-09-L2-05	Emergency Lighting Fixture	LOWER DECK	1724001290	Cortem Spa	Cortem Spa	24/86773	LIFEX-ME-1260N-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	
ELF-200N1-09-L2-06	Emergency Lighting Fixture	LOWER DECK	1724001290	Cortem Spa	Cortem Spa	24/86773	LIFEX-ME-1260N-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	
ELF-200N1-09-L2-07	Emergency Lighting Fixture	LOWER DECK	1724001290	Cortem Spa	Cortem Spa	24/86773	LIFEX-ME-1260N-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	
ELF-200N1-09-L2-08	Emergency Lighting Fixture	LOWER DECK	1724001290	Cortem Spa	Cortem Spa	24/86773	LIFEX-ME-1260N-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	
ELF-200N1-09-L2-09	Emergency Lighting Fixture	LOWER DECK	1724001290	Cortem Spa	Cortem Spa	24/86773	LIFEX-ME-1260N-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	
ELF-200N1-09-L2-10	Emergency Lighting Fixture	LOWER DECK	1724001290	Cortem Spa	Cortem Spa	24/86773	LIFEX-ME-1260N-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	
ELF-200N1-09-L2-11	Emergency Lighting Fixture	LOWER DECK	1724001290	Cortem Spa	Cortem Spa	24/86773	LIFEX-ME-1260N-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	
ELF-200N1-09-L2-12	Emergency Lighting Fixture	LOWER DECK	1724001290	Cortem Spa	Cortem Spa	24/86773	LIFEX-ME-1260N-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	
ELF-200N1-09-L2-13	Emergency Lighting Fixture	LOWER DECK	1724001290	Cortem Spa	Cortem Spa	24/86773	LIFEX-ME-1260N-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	
ELF-200N1-09-L2-14	Emergency Lighting Fixture	LOWER DECK	1724001290	Cortem Spa	Cortem Spa	24/86773	LIFEX-ME-1260N-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	
ELF-200N1-09-L2-15	Emergency Lighting Fixture	LOWER DECK	1724001290	Cortem Spa	Cortem Spa	24/86773	LIFEX-ME-1260N-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	
ELF-200N1-09-L2-16	Emergency Lighting Fixture	LOWER DECK	1724001290	Cortem Spa	Cortem Spa	24/86773	LIFEX-ME-1260N-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	
ELF-200N1-09-L2-17	Emergency Lighting Fixture	LOWER DECK	1724001290	Cortem Spa	Cortem Spa	24/86773	LIFEX-ME-1260N-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	
ELF-200N1-09-L2-18	Emergency Lighting Fixture	LOWER DECK	1724001290	Cortem Spa	Cortem Spa	24/86773	LIFEX-ME-1260N-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	
ELF-200N1-09-L2-19	Emergency Lighting Fixture	LOWER DECK	1724001290	Cortem Spa	Cortem Spa	24/86773	LIFEX-ME-1260N-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	
ELF-200N1-09-L2-20	Emergency Lighting Fixture	LOWER DECK	1724001290	Cortem Spa	Cortem Spa	24/86773	LIFEX-ME-1260N-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	
ELF-200N1-09-L2-21	Emergency Lighting Fixture	LOWER DECK	1724001290	Cortem Spa	Cortem Spa	24/86773	LIFEX-ME-1260N-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	
ELF-200N1-09-L2-22	Emergency Lighting Fixture	LOWER DECK	1724001290	Cortem Spa	Cortem Spa	24/86773	LIFEX-ME-1260N-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	
ELF-200N1-09-L2-23	Emergency Lighting Fixture	LOWER DECK	1724001290	Cortem Spa	Cortem Spa	24/86773	LIFEX-ME-1260N-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	
ELF-200N1-09-L2-24	Emergency Lighting Fixture	BELOW LOWER DECK	1724001290	Cortem Spa	Cortem Spa	24/86773	LIFEX-ME-1260N-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	

EU Type Examination Certificate CML 20ATEX3018X Issue 1

1 Equipment intended for use in Potentially Explosive Atmospheres Directive 2014/34/EU

2 Equipment **LifEx-ME, LifEx-MN and LifEx-MT series of linear lighting fixtures**

3 Manufacturer **Cortem S.p.A.**

4 Address **Via Aquileia 10**
34070 Villesse
(GO)
Italy

5 The equipment is specified in the description of this certificate and the documents to which it refers.

6 CML B.V., Chamber of Commerce No 6738671, Koopvaardijweg 32, 4906CV Oosterhout, The Netherlands, Notified Body Number 2776, in accordance with Article 17 of Directive 2014/34/EU of the European Parliament and of the Council, dated 26 February 2014, certifies that this equipment has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of equipment intended for use in potentially explosive atmospheres given in Annex II to the Directive.

The examination and test results are recorded in the confidential reports listed in Section 12.

7 If an 'X' suffix appears after the certificate number, it indicates that the equipment is subject to conditions of safe use (affecting correct installation or safe use). These are specified in Section 14.

8 This EU Type Examination certificate relates only to the design and construction of the specified equipment or component. Further requirements of Directive 2014/34/EU Article 13 apply to the manufacture of the equipment or component and are separately certified.

9 Compliance with the Essential Health and Safety Requirements, with the exception of those listed in the confidential report, has been demonstrated through compliance with the following documents:

EN IEC 60079-0:2018	EN 60079-1:2014	EN IEC 60079-7:2015+A1:2018
EN 60079-18:2015+A1:2017	EN 60079-31:2014	

10 The equipment shall be marked with the following:

LifEx-ME	LifEx-MN and LifEx-MT
Ex db eb mb IIC T.. Gb	Ex tb IIIC T…°C Db
Ex eb mb IIC T.. Gb *(when Ex mb LED drivers are used)*	IP66
Ex tb IIIC T…°C Db	
IP66	
Ta=* see description	Ta=* see description

11 Description

The LifEx is a range of linear LED lighting fixtures that are available in three different configurations for different applications, designated as the LifEx-ME, LifEx-MT and LifEx-MN.

LifEx-ME

The LifEx-ME version has an Equipment Protection Level of EPL Gb and Db and utilises types of protection increased safety (eb) and dust protection by enclosure (tb), along with encapsulation (mb) for the light source and flameproof (db) for the driver.

It is constructed from an aluminium enclosure, with either a glass or polycarbonate lens and with optional polycarbonate diffuser.

LifEx-MN

The LifEx-MN version has an Equipment Protection Level of EPL Gc and Db and utilises types of protection increased safety (ec) and dust protection by enclosure (tb).

It is constructed from an aluminium enclosure, with polycarbonate diffuser and/or with optional glass or polycarbonate lens.

LifEx-MT

The LifEx-MT versions has an Equipment Protection Level of EPL Db and utilises types of protection dust protection by enclosure (tb).

It is constructed from an aluminium enclosure, with polycarbonate diffuser and/or with optional glass or polycarbonate lens.

Design Options

Every configuration is available in lengths ranging from 300 mm to 1500 mm, and power ratings up to a maximum of 105W of nominal power.

The LifEx can be used in only normal service, in only emergency service or in normal and emergency service.

The minimum ambient temperature for the range is:

- -60°C for versions without battery
- -60°C for versions with the battery heater
- -20°C for versions with battery

The range is available with the following maximum ambient temperatures:

	With glass lens and with/without polycarbonate diffuser	With Polycarbonate lens and with/without polycarbonate diffuser	Without lens polycarbonate diffuser only
LifEx-M...0310	+60°C	+60°C	+60°C
LifEx-M...0315	+60°C	+60°C	+60°C
LifEx-M...0330	+60°C	Configuration not available	Configuration not available
LifEx-M...0615	+60°C	+60°C	+60°C
LifEx-M...0630	+60°C	+50°C	+60°C
LifEx-M...0645	+57°C	+47°C	+60°C
LifEx-M...0660	+47°C	Configuration not available	+58°C
LifEx-M...1230	+60°C	+60°C	+60°C
LifEx-M...1260	+60°C	+50°C	+60°C
LifEx-M...1290	+60°C	+40°C	+60°C
LifEx-M...12120	+54°C	Configuration not available	+60°C
LifEx-M...1590	+60°C	+40°C	+60°C

Table 1: Maximum Ambient Temperatures

The following tables provide the Temperature Class (EPL Gb) and Maximum Surface Temperature (EPL Db) for each LifEx type, with the following notes:

- The LifEx-MN with an ambient temperature greater than 50°C is T5 or T4. T6 is not included.
- The Temperature Class (EPL Gb) and Maximum Surface Temperature (EPL Db) in the tables below are not applicable when the ambient temperature is not permitted in the above maximum ambient temperature range table.

13. (For example, the LifEx-M...0660 is not permitted with polycarbonate lens, therefore the Temperature Class (EPL Gb) and Maximum Surface Temperature (EPL Db) for this version in tables 2 and 3 are not applicable)

	Temperature Class (EPL Gb and Gc) and Maximum Surface Temperature (EPL Db) Based on ambient temperature													
	40°C		45°C		47°C		50°C		54°C		57°C		60°C	
	EPL Db	EPL Gb/Gc	EPL Db	EPL Gb/Gc	EPL Db	EPL Gb/Gc	EPL Db	EPL Gb/Gc	EPL Db	EPL Gb/Gc	EPL Db	EPL Gb/Gc	EPL Db	EPL Gb/Gc
LifEx-M...0310	T56°C	T6	T56°C	T6	T58°C	T6	T61°C	T6	T65°C	T6	T68°C	T6	T71°C	T6
LifEx-M...0315	T56°C	T6	T56°C	T6	T58°C	T6	T61°C	T6	T65°C	T6	T68°C	T6	T71°C	T6
LifEx-M...0615	T56°C	T6	T56°C	T6	T58°C	T6	T61°C	T6	T65°C	T6	T68°C	T6	T71°C	T6
LifEx-M...0630	T69°C	T6	T69°C	T5	T71°C	T5	T74°C	T5	T78°C	T5	T81°C	T4	T84°C	T4
LifEx-M...0645	T72°C	T5	T72°C	T5	T74°C	T5	T77°C	T5	T81°C	T4	T84°C	T4	T87°C	T4
LifEx-M...0660	T77°C	T5	T77°C	T4	T79°C	T4	T82°C	T4	T86°C	T4	T89°C	T4	T92°C	T4
LifEx-M...1230	T58°C	T6	T58°C	T6	T60°C	T6	T63°C	T6	T67°C	T6	T70°C	T6	T73°C	T6
LifEx-M...1260	T67°C	T6	T67°C	T5	T69°C	T5	T72°C	T5	T76°C	T5	T79°C	T4	T82°C	T4
LifEx-M...1290	T72°C	T5	T72°C	T5	T74°C	T4	T77°C	T4	T81°C	T4	T84°C	T4	T87°C	T4
LifEx-M...12120	T75°C	T5	T75°C	T4	T77°C	T4	T80°C	T4	T84°C	T4	T87°C	T4	T90°C	T4
LifEx-M...1590	T72°C	T5	T72°C	T5	T74°C	T4	T77°C	T4	T81°C	T4	T84°C	T4	T87°C	T4

Table 2: Temperature Class (EPL Gb) and Maximum Surface Temperature (EPL Db) for LifEx types with glass/polycarbonate lens and with polycarbonate diffuser

	Temperature Class (EPL Gb and Gc) and Maximum Surface Temperature (EPL Db) Based on ambient temperature					
	40°C		55°C		60°C	
	EPL Db	EPL Gc	EPL Db	EPL Gc	EPL Db	EPL Gc
LifEx-ME-0330	T58°C	T6	T73°C	T6	T78°C	T5
LifEx-MN-0330	T58°C	T6	T73°C	T5	T78°C	T4
LifEx-MT-0330	T58°C	-	T73°C	-	T78°C	-

Table 3: Temperature Class (EPL Gb and Gc) and Maximum Surface Temperature (EPL Db) for LifEx-M...-0330 types with glass/polycarbonate window and without polycarbonate diffuser

	Temperature Class (EPL Gb) and Maximum Surface Temperature (EPL Db) Based on ambient temperature													
	40°C		45°C		47°C		50°C		54°C		57°C		60°C	
	EPL Db	EPL Gb	EPL Db	EPL Gb	EPL Db	EPL Gb	EPL Db	EPL Gb	EPL Db	EPL Gb	EPL Db	EPL Gb	EPL Db	EPL Gb
LifEx-M...0310	T62°C	T6	T62°C	T6	T64°C	T6	T67°C	T6	T71°C	T6	T74°C	T6	T77°C	T6
LifEx-M...0315	T62°C	T6	T62°C	T6	T64°C	T6	T67°C	T6	T71°C	T6	T74°C	T6	T77°C	T6
LifEx-M...0615	T62°C	T6	T62°C	T6	T64°C	T6	T67°C	T6	T71°C	T6	T74°C	T6	T77°C	T6
LifEx-M...0630	T85°C	T6	T85°C	T5	T87°C	T5	T90°C	T5	T94°C	T5	T97°C	T4	T100°C	T4
LifEx-M...0645	T88°C	T6	T88°C	T5	T90°C	T5	T93°C	T5	T97°C	T4	T100°C	T4	T103°C	T4
LifEx-M...0660	T100°C	T6	T100°C	T4	T102°C	T4	T105°C	T4	T109°C	T4	T112°C	T4	T115°C	T4
LifEx-M...1230	T65°C	T6	T65°C	T6	T67°C	T6	T70°C	T6	T74°C	T6	T77°C	T6	T80°C	T6
LifEx-M...1260	T85°C	T6	T85°C	T5	T87°C	T5	T90°C	T5	T94°C	T5	T97°C	T4	T100°C	T4
LifEx-M...1290	T94°C	T6	T94°C	T5	T96°C	T4	T99°C	T4	T103°C	T4	T106°C	T4	T109°C	T4
LifEx-M...12120	T96°C	T5	T96°C	T4	T98°C	T4	T101°C	T4	T105°C	T4	T108°C	T4	T111°C	T4
LifEx-M...1590	T94°C	T6	T94°C	T5	T96°C	T4	T99°C	T4	T103°C	T4	T106°C	T4	T109°C	T4

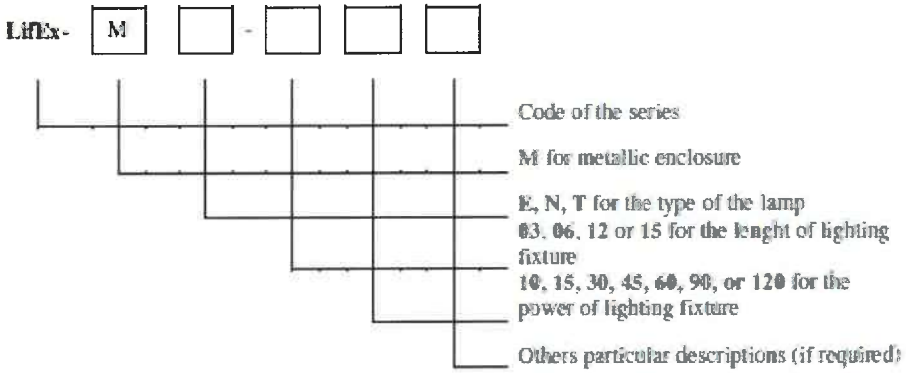
Table 4: Temperature Class (EPL Gb) and Maximum Surface Temperature (EPL Db) for LifEx types with glass/polycarbonate lens and without polycarbonate diffuser

	Maximum Surface Temperature (EPL Db) Based on ambient temperature						
	40°C	45°C	47°C	50°C	54°C	57°C	60°C
LifEx-M...0310	T56°C	T56°C	T58°C	T61°C	T65°C	T68°C	T71°C
LifEx-M...0315	T56°C	T56°C	T58°C	T61°C	T65°C	T68°C	T71°C
LifEx-M...0615	T56°C	T56°C	T58°C	T61°C	T65°C	T68°C	T71°C
LifEx-M...0630	T69°C	T69°C	T71°C	T74°C	T78°C	T81°C	T84°C
LifEx-M...0645	T72°C	T72°C	T74°C	T77°C	T81°C	T84°C	T87°C
LifEx-M...0660	T77°C	T77°C	T79°C	T82°C	T86°C	T89°C	T92°C
LifEx-M...1230	T58°C	T58°C	T60°C	T63°C	T67°C	T70°C	T73°C
LifEx-M...1260	T67°C	T67°C	T69°C	T72°C	T76°C	T79°C	T82°C
LifEx-M...1290	T72°C	T72°C	T74°C	T77°C	T81°C	T84°C	T87°C
LifEx-M...12120	T75°C	T75°C	T77°C	T80°C	T84°C	T87°C	T90°C
LifEx-M...1590	T72°C	T72°C	T74°C	T77°C	T81°C	T84°C	T87°C

Table 5: (Applicable to EPL Db only) Maximum Surface Temperature for LifEx types without glass/polycarbonate lens and with polycarbonate diffuser

The equipment has been separately tested against the requirements of IEC 60529 and it meets IP66. The gaskets on the caps provide the degree of protection.

The equipment uses the following nomenclature:



Variation 1:

This variation has assed the following changes:

i. Addition of an optional new removable cover for "easy installation" (which use the new aluminium extrusion);
ii. Addition of an optional external battery box;
iii. minimum ambient temperature extended to -60°C when Ex mb heater is used;
iv. Additional optional Ex mb EBM LED driver as an alternative to EBL3040 / EBL4040 Ex db series LED drivers;
v. added 30W model for size 300mm (LifEx-M..-0330).

12 Certificate history and evaluation reports

Issue	Date	Associated report	Notes
0	06 May 2020	R13027A/00	Prime Issue
1	01 Jul 2022	R14875A/00	Introduction of Variation 1

Note: Drawings that describe the equipment or component are listed in the Annex.

13 Conditions of Manufacture

The following conditions are required of the manufacturing process for compliance with the certification.

i. Where the product incorporates certified parts or safety critical components the manufacturer shall ensure that any changes to those parts or components do not affect the compliance of the certified product that is the subject of this certificate.
ii. The LifEx series lighting fixtures are to be designed in accordance with general electrical safety standards.
iii. The routine dielectric strength test on the LifEx-ME and LifEx-MN luminaries with applied voltage shall be performed at 2U + 1000V with a minimum value of 1560V (U = maximum rated voltage of the lamp)

iv. A routine visual inspection of the encapsulated parts is required, as per Clause 9.1 of IEC 60079-18. There shall be no visible damage or deformation to the encapsulant.

v. Where the removable battery pack is used with phoenix contacts, if used with a T6 version of the equipment, the maximum ambient shall be limited to +40°C.

14 Specific Conditions of Use (Special Conditions)

The following conditions relate to safe installation and/or use of the equipment.

i. Cable entries are provided which have less than 5 threads engaged. Care must be taken to ensure the correct gaskets and washers are sued with the cable gland to maintain IP66.

ii. The equipment uses an external part that is constructed from non-metallic materials, and as such care is to be taken to prevent an electro-static charging hazard. See instruction manual for details.

iii. For versions with glass window of 4mm thickness without cover, the luminaire must be installed in a location with a low risk of mechanical danger

iv. The temperature at the entry point may reach up to 75°C. Suitably rated cable glands must be used.

Certificate Annex

Certificate Number	**CML 20ATEX3018X**
Equipment	**LifEx-ME, LifEx-MN and LifEx-MT series of linear lighting fixtures**
Manufacturer	**Cortem S.p.A.**

The following documents describe the equipment or component defined in this certificate:

Issue 0

Drawing No	Sheets	Rev	Approved date	Title
A3-7466	1 to 6	0	06 May 2020	LifEx-M Luminaires
A4-7467	1 to 6	0	06 May 2020	Technical Note

Issue 1

Drawing No.	Sheets	Rev	Approved date	Title
A3-7466	1 of 6	1	01 Jul 2022	LifEx-M Luminaires Assembly and External Dimensions
A3-7466	2 of 6	1	01 Jul 2022	LifEx-M Luminaires Detail of sealing and op is protection
A3-7466	3 of 6	1	01 Jul 2022	LifEx-M Luminaires Detail of driver and inverter for LifEx-ME version
A3-7466	4 of 6	1	01 Jul 2022	LifEx-M Luminaires Circuit diagram for LifeEx-ME version
A3-7466	5 of 6	1	01 Jul 2022	LifEx-M Luminaires Circuit diagram LifEx-MN and LifEx-MT version
A3-7466	6 of 6	1	01 Jul 2022	LifEx-M Luminaires Detail of battery pack
A3-7729	1 to 3	0	01 Jul 2022	Battery heater for -60°C /-40°C applications Assembly and External Dimensions
A4-7727	1 to 8	0	01 Jul 2022	Technical Note

ITEM	Tag	ELF-200N1-02-L1-24	: NORMAL LIGHT	Dwg	123A90-DDL-EL-DL-20118
	S/Sys	83-40	: Normal Lighting Upper Deck	Module	UD
TASK	code	C10001675	Location: Onshore Activities	User	Rosetti Marino Quality Control
FORM	Process	MC	Activity: CCK / Discipline: ATEX / Form: CJX01		Hazardous Area Equipment Detailed Inspection

Schedule Ref. #				**Area Code**					
Area Class Drawing	123A90-DDL-SAF-DL-30022			**Serial No.**	24/86772				
Manufacturer	Cortem Spa			**Model**	LIFEX-ME-0645-BB				
Cert No.	CML 20 ATEX 3018X			**Equipment Ambient Temp.**	-60°C to +50°C				
Area Classification	hazardous	**Zone**	2	**Gas group**	IIC	**Temp class**	T1		
Equipment Protection Type	Ex db	**EPL**	Gb	**Gas group**	IIC	**Temp class**	T5	**IP Rating**	IP66

Detailed Note:

1) Inspection shall only be performed by competent personnel

2) All fields are to be completed. Any non-applicable field shall state “NA”. Comments are required for ‘Failure’ column ONLY.

3) An Inspection Sheet should be completed for EACH individual item of Equipment.

	General Equipment	Detailed	OK/NA/PL	Comments
1	Equipment is appropriate to the EPL / Zone requirements of the area	x	OK	
2	Equipment group is correct	x	OK	
3	Equipment temperature class is correct	x	OK	
4	Degree of IP protection of equipment is appropriate for the level of protection	x	OK	
5	Equipment circuit identification is correct	x	PL	
6	Equipment circuit identification is available	x	NA	
7	Enclosure glass parts and glass-to-metal sealing gaskets and / or compounds are satisfactory	x	OK	
8	There is no damage or unauthorized modifications	x	OK	
9	There is no evidence of unauthorized modifications	x	OK	
10	Bolts, cable entry devices (direct and indirect) & blanking elements are of the correct type, are complete & tight		OK	
	Physical check	x	OK	
11	Threaded covers on enclosures are of the correct type, are tight and secured		OK	
	Physical check	x	OK	
12	Joint surfaces are clean and undamaged and gaskets, if any, are satisfactory and positioned correctly	x	OK	
13	Condition of enclosure gaskets is satisfactory	x	OK	
14	There is no evidence or ingress of water or dust in the enclosure in accordance with the IP rating	x	OK	
15	Electrical connections are tight	x	OK	
16	Bridging links do not reduce creepage / clearance and are allowed	x	OK	
17	Unused terminals are tightened	x	OK	
18	Encapsulated components are undamaged	x	NA	
19	Flameproof components are undamaged	x	NA	
20	Fluorescent lamps are not indicating EOL effects (only for Ex “e” – Ex “n” – Ex “t”)	x	NA	
21	HID lamps are not indicating EOL effects	x	NA	
22	Lamp type, rating, pin configuration and position are correct	x	OK	
23	Breathing and drainage devices are satisfactory	x	NA	
24	Type of cable is appropriate	x	OK	
25	There is no obvious damage to the cables	x	OK	
26	Cable glands are the correct type and installed correctly	x	OK	
27	Sealing of trunking, ducts, pipes and or conduits is satisfactory	x	OK	
28	Stopping boxes and cable boxes are corrected filled	x	OK	

ITEM	Tag	ELF-200N1-02-L1-24	: NORMAL LIGHT			Dwg	123A90-DDL-EL-DL-20118
	S/Sys	83-40	: Normal Lighting Upper Deck			Module	UD
TASK	code	C10001675		Location	Onshore Activities	User	Rosetti Marino Quality Control
FORM	Process	MC	Activity CCK	Discipline	ATEX	Form	CJX01 Hazardous Area Equipment Detailed Inspection

29	Integrity of conduit system and interface with mixed system maintained	x	NA	
30	Earthing connections, including any supplementary earthing bonding connections are satisfactory (for example connections are tight and conductors are of sufficient cross-section		OK	
	Physical check	x	OK	
31	Automated electric protective devices operate within permitted limits	x	NA	
32	Special conditions (if applicable) have been complied with.	x	OK	
33	All cable cores are uniquely labeled	x	OK	
34	Cable cores not in use are correctly terminated	x	NA	
35	Equipment is adequately protected against corrosion, weather, vibration and other adverse factors	x	PL	
36	No undue accumulation of dust and dirt	x	OK	
37	All equipment housings are clean and dry	x	OK	
38	All moving parts are free and have no mechanical damage	x	NA	
	Applicable for Installation of Heating Systems			
39	Temperature sensors function according to manufacturer's documents (only applicable for Ex-d e Ex-e)	x	NA	
40	Safety cut off devices function according to manufacturer's documents (only applicable for Ex-d e Ex-e)	x	NA	
41	The setting of the safety cut off is sealed (only applicable for Ex-d e Ex-e)	x	NA	
42	Reset of a heating system safety cut off possible with tool only(only applicable for Ex-d e Ex-e)	x	NA	
43	Auto-reset is not possible (only applicable for Ex-d e Ex-e)	x	NA	
44	Reset of a safety cut off under fault conditions is prevented (only applicable for Ex-d e Ex-e)	x	NA	
45	Safety cut off independent from control system (only applicable for Ex-d e Ex-e)	x	NA	
46	Level switch is installed and correctly set, if required (only applicable for Ex-d e Ex-e)	x	NA	
47	Flow switch is installed and correctly set, if required (only applicable for Ex-d e Ex-e)	x	NA	
	Extra Ex d checks			
48	Obstructions adjacent to flame proof flanged joints are in accordance with IEC 60079-14	x	NA	
49	Ex d conduits seals are fitted to all conduits and satisfactorily sealed	x	NA	
50	Cable glands are of the correct type and installed correctly	x	OK	
51	Adaptors, reducers, stop ends, etc. are all certified Ex d	x	OK	
52	Flame path are clean and undamaged	x	OK	
53	Flange gap dimensions are within tolerances	x	NA	
54	Motor fans have sufficient clearance to the enclosure and/or covers, cooling systems are undamaged, motor foundations have no indentations or cracks	x	NA	
55	The ventilation airflow is not impeded	x	NA	
56	Insulation resistance (IR) of the motor windings is satisfactory	x	NA	
57	Fault loop impedance (TN systems) or earthing resistance (IT systems) is satisfactory	x	NA	
58	Variable voltage/frequency installation complies with documentation	x	NA	
	Extra Ex e checks			
59	All Equipment is Ex e certified (including components within enclosure)	x	NA	
60	Power conductors are not bunched together causing possible hot spots	x	NA	
61	Motor fans have sufficient clearance to the enclosure and/or covers, cooling systems are undamaged, motor foundations have no indentations or cracks	x	NA	
62	Insulation resistance (IR) of the motor windings is satisfactory	x	NA	
63	Fault loop impedance (TN systems) or earthing resistance (IT systems) is satisfactory	x	NA	
64	The ventilation airflow is not impeded	x	NA	
65	Motor protection devices operate within the permitted tE or tA time limits.	x	NA	
66	Variable voltage/frequency installation complies with documentation	x	NA	

ITEM	Tag	ELF-200N1-02-L1-24	: NORMAL LIGHT			Dwg	123A90-DDL-EL-DL-20118
	S/Sys	83-40	: Normal Lighting Upper Deck			Module	UD
TASK	code	C10001675		Location	Onshore Activities	User	Rosetti Marino Quality Control
FORM	Process	MC	Activity CCK	Discipline	ATEX	Form	CJX01
							Hazardous Area Equipment Detailed Inspection

Extra Ex n (nR, nL) checks				
67	All Terminals are Ex n certified (if required on certificate)	x	NA	
68	Hermetically sealed and enclosed break devices are undamaged	x	NA	
69	Restricted breathing properties satisfactory (conduct vacuum test)	x	NA	
70	Test port, if fitted, is functional (type “nR” only)	x	NA	
71	Breathing operation is satisfactory (type “nR” only)	x	NA	
72	Motor fans have sufficient clearance to the enclosure and/or covers, cooling systems are	x	NA	
73	The ventilation airflow is not impeded	x	NA	
74	Insulation resistance (IR) of the motor windings is satisfactory	x	NA	
75	Motor protection devices operate within the permitted tE or tA time limits.	x	NA	
76	Variable voltage/frequency installation complies with documentation	x	NA	
Extra Ex p checks				
77	Pressurization gas is correct type	x	NA	
78	Actual pressure is within maximum and minimum settings for equipment	x	NA	
79	Timers set as per certification documentation	x	NA	
80	Alarms and trip functions operate correctly as per certification documentation	x	NA	
81	Fault loop impedance (TN systems) or earthing resistance (IT systems) is satisfactory	x	NA	
82	Automatic electrical protective devices operate within permitted limits	x	NA	
83	Automatic electrical protective devices are set correctly	x	NA	
84	Protective gas inlet temperature is below maximum specified	x	NA	
85	Ducts, pipes and enclosures are in good condition	x	NA	
86	Protective gas is substantially free from contaminants	x	NA	
87	Protective gas pressure and/or flow is adequate	x	NA	
88	Pressure and/or flow indicators, alarms and interlocks function correctly	x	NA	
89	Conditions of spark and particle barriers of ducts for exhausting the gas in hazardous area are satisfactory	x	NA	
90	Specific conditions of use (if applicable) are complied with		NA	
Extra Ex i (Intrinsically Safe – IS) checks				
91	Equipment has adequate circuit identification for ‘IS’ Installation	x	NA	
92	Cables are installed in accordance with the documentation	x	NA	
93	Segregation is maintained between IS and non-IS Circuits	x	NA	
94	Cable screens are isolated at one end (field side)	x	NA	
95	Cable screens are earthed in accordance with the documentation	x	NA	
96	Safety barrier units, relays and other energy limiting devices are of the approved type, installed in	x	NA	
97	Equipment installed is the one specified in the documentation	x	NA	
98	Ambient temperature range of the apparatus is correct for the installation	x	NA	
99	Service temperature range of the apparatus is correct for the installation	x	NA	
100	Installation is clearly labelled	x	NA	
101	Printed circuit boards are clean and undamaged	x	NA	
102	The maximum voltage Um of the associated apparatus is not exceeded	x	NA	
103	Point-to-point connections are all correct	x	NA	
104	Earth continuity is satisfactory (e.g. connections are tight, conductors are of sufficient cross-section)	x	NA	
105	Earth connections maintain the integrity of the type of protection	x	NA	
106	Intrinsically safe circuit earthing is satisfactory	x	NA	
107	Insulation resistance is satisfactory	x	NA	
108	Short-circuit protection of the power supply is in accordance with the documentation	x	NA	

	BARRIER:	**Manufacturer:**	NA	**Model:**	NA		
		Authority:	NA	**Cert No:**	NA	**Type:**	NA

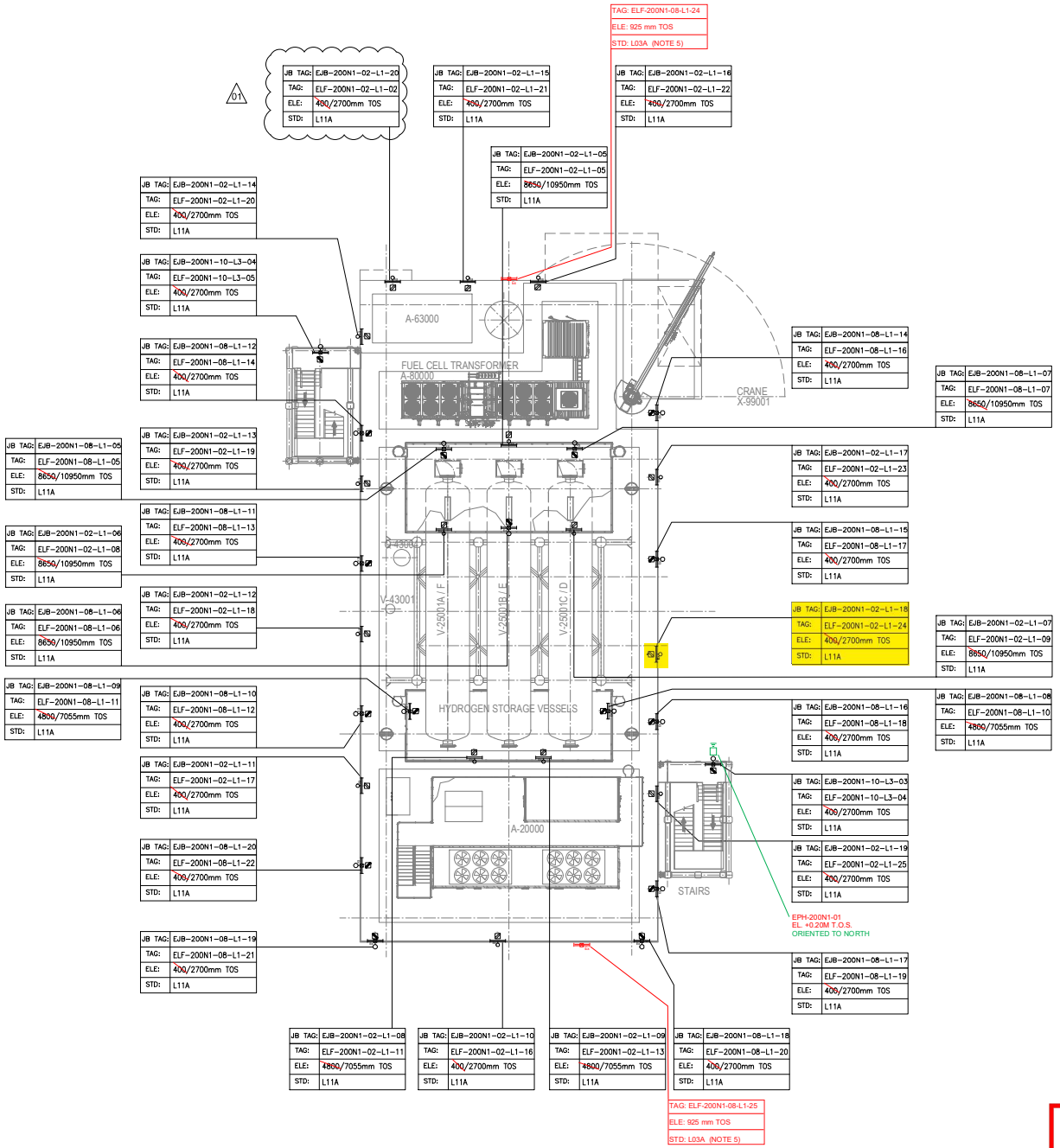
Remarks: Initial inspection should be detailed and carried out before equipment is brought into service as per IEC 60079-17

Please mark only one box as appropriate	
●	**Passed - Complete**
	Failed

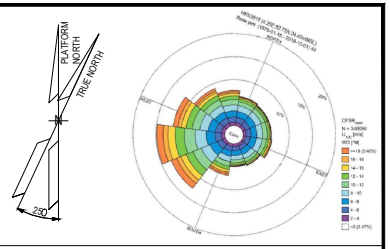
Page 3/3	Performed by	☐ WITNESS ☐ REVIEW	☐ WITNESS ☐ REVIEW
Company	ICS IMPIANTI	RM(ROSETTI MARINO)	
Name	Francesco Zucca	Andrea Andreani	
Date	2024-12-11	2024-12-14	
Signature	PROVERLIS Digitaly signed by Francesco Zucca 2024-12-11T15:28:41.810Z	PROVERLIS Digitaly signed by Andrea Andreani 2024-12-14T13:00:40.444Z	

DRAWING NO. 123A90-DDL-EL-DL-20118

REV. 01



PLAN ON UPPER DECK
EL+30.310 T.O.S.



NOTES

1. ALL DIMENSIONS AND ELEVATIONS ARE GIVEN IN mm UNLESS OTHERWISE NOTED.
2. ELEVATIONS REFER TO T.O.S.
3. ELEVATION OF THE LAMPS ARE REFFERED TO THE BOTTOM OF THE LAMP.
4. FOR THE ELEVATION OF JB, REFER TO THE TYPICAL INSTALLATION.
5. FOR ELF-200N1-08-L1-24 AND ELF-200N1-08-L1-25 CONSTRUCTION DETAILS REFER TO DOC. 123A90-DDL-ST-DD-90076

LEGEND

- EMERGENCY LIGHTING JB
- 60W LED EMERGENCY LUMINARIES
- 60W LED EMERGENCY LUMINARIES FIXTURE POLE MOUNTED
- NORMAL LIGHTING JB
- 45W LED NORMAL LUMINARIES
- 45W LED NORMAL LUMINARIES FIXTURE POLE MOUNTED
- WELDING SOCKET WITH INTEGRATED JB
- SMALL POWER SOCKET WITH INTEGRATED JB
- TWILIGHT RELAY SENSOR

JB TAG: — JB-TAG
TAG: — TAG
ELE: — ELEVATION
STD: — STANDARD

REFERENCE DOCUMENTS

123A90-DDL-PP-DL-70070	PLOT PLAN - LOWER & UPPER DECK
123A90-DDL-EL-DL-20100	ELECTRICAL EQUIPMENT LAYOUT - TOP DECK
123A90-DDL-EL-DD-20091	ELECTRICAL TYPICAL INSTALLATION DETAILS - LIGHTING SYSTEM
123A90-DDL-EL-DD-20092	ELECTRICAL TYPICAL INSTALLATION DETAILS - POWER SYSTEM & CABLE INSTALLATION
123A90-DDL-EL-RE-20153	LIGHTING CALCULATION STUDY REPORT
123A90-DDL-ST-DD-90076	IDENTIFICATION PANELS ASSEMBLY AND DETAILS

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	02/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	28/05/24	ASR	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DL-20118**

REV.:	DATE:	SIGNATURE:
1_F	26/11/24	G.Randi

ROSETTI MARINO SpA

CROSSWIND

ROSETTI MARINO

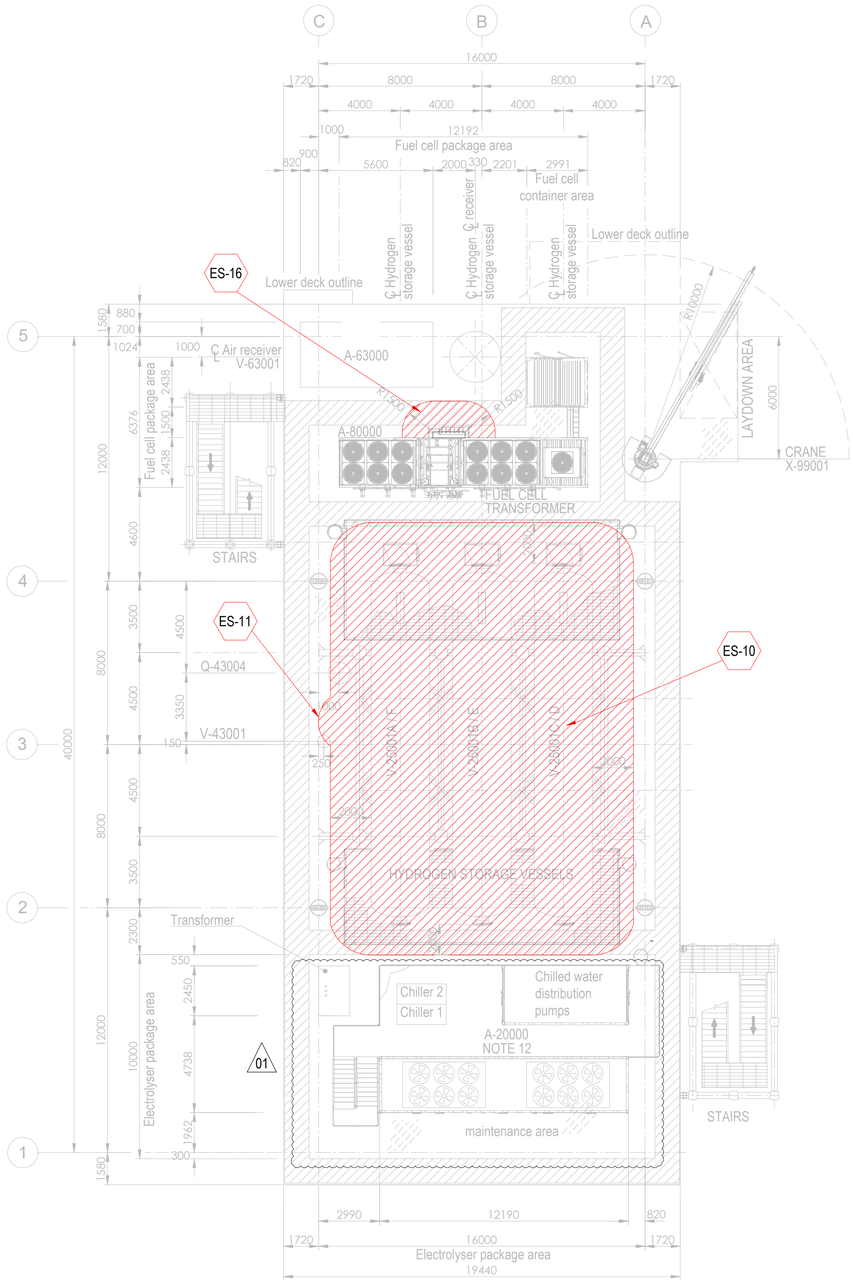
TITLE : BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET LAYOUT – TOP DECK

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK			SCALE 1:150
DRAWN ASR	CHECKED FMA/AMA	APPROVED FPA/DLO	DATE 01/08/24
A1	DRAWING NO. 123A90-DDL-EL-DL-20118	SHEET 1of2	REV. 01

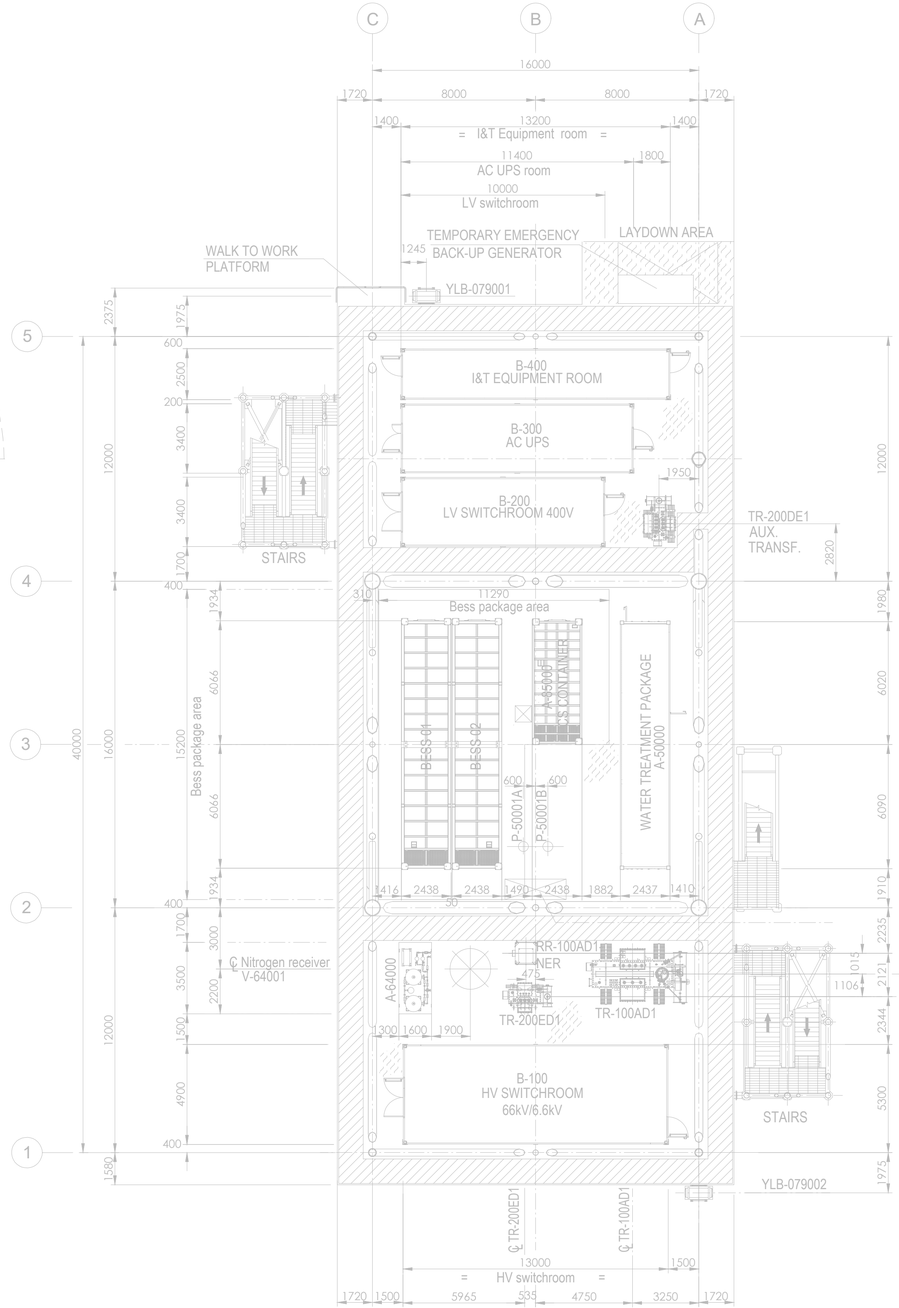
File Name : 123A90-DDL-EL-DL-20118

DRAWING NO. 123A90-DDL-SAF-DL-30022

REV. 01



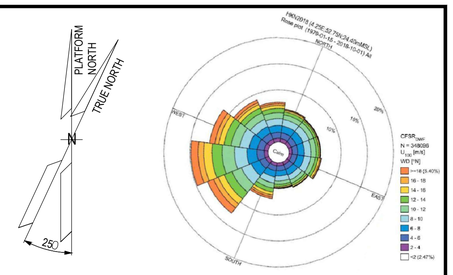
PLAN ON UPPER DECK
EL+30.310 T.O.S.



PLAN ON LOWER DECK
EL+23.310 T.O.S.

Tag No.	Equipment Tag	Description	Material	Ventilation Type
01	P-50001 A/B	SEA WATER LIFT PUMPS	SEA WATER	NATURAL (OPEN AREA)
02	Q-43004	HYDROGEN VENT	HYDROGEN	NATURAL (OPEN AREA)
03	V-43001	HYDROGEN VENT KO DRUM	HYDROGEN	NATURAL (OPEN AREA)
04	V-25001 (A/B/C/D/E/F)	HYDROGEN STORAGE VESSELS	HYDROGEN	NATURAL (OPEN AREA)
05	V-63001	AIR RECEIVER	INSTRUMENT AIR	NATURAL (OPEN AREA)
06	A-20000	ELECTROLYSER PACKAGE		
07	A-63000	INSTRUMENT AIR PACKAGE		
08	A-80000	FUEL CELL PACKAGE		
09	A-85000	BESS PACKAGE		
10	YLB-079001/2	LIFE RAFTS		
11	A-50000	WATER TREATMENT PACKAGE		

Tag No.	Equipment Tag	Description	Material	Ventilation Type
12	A-64000	NITROGEN SYSTEM		
13	B-100	HV SWITCHROOM 66kV/6.6kV		
14	B-200	LV SWITCHROOM 400V		
15	B-300	AC UPS EQUIPMENT ROOM		
16	B-400	I&T EQUIPMENT ROOM		
17	TR-100AD1	TRANSFORMER MAIN 66kV/6.6kV		
18	RR-100AD1-NER	NEUTRAL EARTHING RESISTOR		
19	TR-200DE1	TRANSFORMER AUX. 6.6kV/0.4kV		
20	TR-200ED1	SOLAR TRANSFORMER PV FARM EQUIPMENT		
21	X-99001	CRANE		
22	V-64001	NITROGEN RECEIVER		



1. ALL DIMENSIONS IN mm U.N.O
2. ALL ELEVATIONS IN METERS.
3. PLATFORM NORTH DIRECTION IS N 25°W.
4. VENT TOP SHALL BE REACHEABLE FOR MAINTENANCE PURPOSE.
5. THE BESS IS CONSIDERED SAFE AREA EXCEPT EXTRACTORES FROM BATTERIES , CURRENTLY NOT SHOWN IN DRAWINGS, SINCE INFORMATION FROM VENDOR IS NOT YET AVAILABLE.[ES17]
6. THE LOCATION OF EMISSION SOURCES ON THE LAYOUT ARE ONLY INDICATIVE. EMISSION SOURCES CONSIDERED ARE PRESENT WITHIN THE EXTENSION OF HAZARDOUS CLASSIFIED AREAS SHOWN ON THE LAYOUT. THIS IS BECAUSE VALVES AND FLANGES,WHICH ARE CONSIDERED POTENTIAL SOURCES OF RELEASE POINTS FOR FLAMMABLE GAS ARE NOT SHOWN ON CURRENT LAYOUT PROVIDED. THE SAME APPLIES TO THE EMISSION SOURCES FOR CPI'S ITEM.
7. IDENTIFIED EMISSION SOURCES DETAIL

EMISSION SOURCE No.	IDENTIFIED AREAS
ES10	HYDROGEN STORAGE VESSLES
ES11	HYDROGEN VENT KO DRUM
ES16	FUEL CELL

01

ZONE 0 | ZONE 1 | ZONE 2 | ES EMISSION SOURCES

01

01

123A90-DDL-PP-DS-70071	PLOT PLAN - BELOW LOWER DECK
123A90-DDL-PP-DS-70072	PLOT PLAN - ELEVATION LOOKING NORTH & EAST

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	27/08/24	MMA	CCA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	08/02/24	MMA	CCA	DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND

ROSETTI MARINO

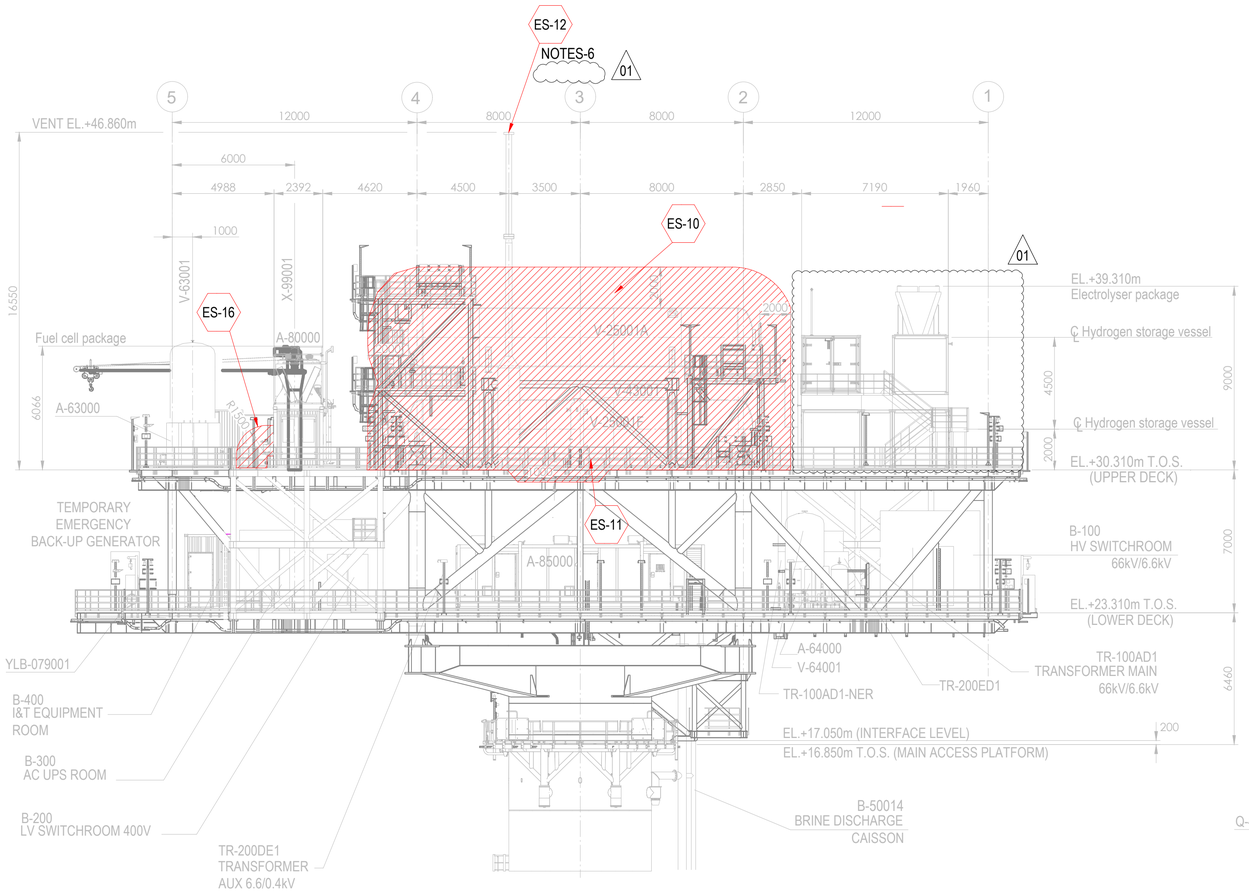
TITLE : BASE LOAD POWER HUB (BLPH)
HAZARDOUS AREA CLASSIFICATION
LOWER & UPPER DECK

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK		SCALE 1:150
DRAWN M. MAGNI	CHECKED C. CARACCIOLO	APPROVED D. LO STERZO	DATE 03/07/24
A1	DRAWING NO. 123A90-DDL-SAF-DL-30022	SHEET 001	REV. 01

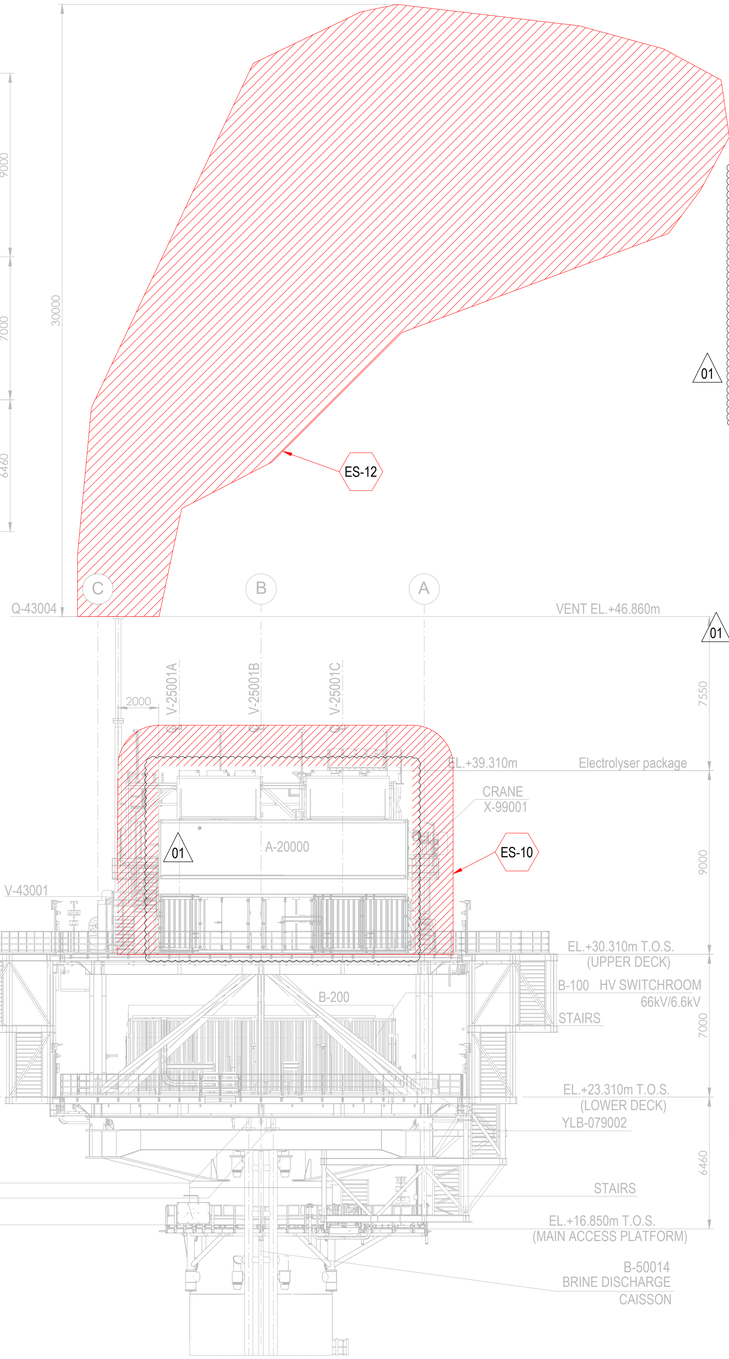
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DRAWING NO. 123A90-DDL-SAF-DL-30024

REV. 01



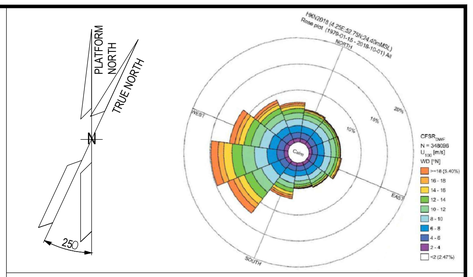
ELEVATION LOOKING EAST



ELEVATION LOOKING NORTH

01

Tag No.	Equipment Tag	Description	Material	Ventilation Type
01	P-50001 A/B	SEA WATER LIFT PUMPS	SEA WATER	NATURAL (OPEN AREA)
02	Q-43004	HYDROGEN VENT	HYDROGEN	NATURAL (OPEN AREA)
03	V-43001	HYDROGEN VENT KO DRUM	HYDROGEN	NATURAL (OPEN AREA)
04	V-25001 (A/B/C/D/E/F)	HYDROGEN STORAGE VESSELS	HYDROGEN	NATURAL (OPEN AREA)
05	V-63001	INSTRUMENT AIR RECEIVER	INSTRUMENT AIR	NATURAL (OPEN AREA)
06	A-20000	ELECTROLYSER PACKAGE		
07	A-63000	INSTRUMENT AIR PACKAGE		
08	A-80000	FUEL CELL PACKAGE		
09	A-85000	BESS PACKAGE		
10	YLB-079001/2	LIFE RAFTS		
11	B-100	HV SWITCHROOM 66kV/6.6kV		
12	B-200	LV SWITCHROOM 400V		
13	B-300	AC UPS EQUIPMENT ROOM		
14	B-400	I&T EQUIPMENT ROOM		
15	TR-100AD1	TRANSFORMER MAIN 66kV/6.6kV		
16	TR-100AD1-NER	NEUTRAL EARTHING RESISTOR		
17	TR-200DE1	TRANSFORMER AUX. 6.6kV/0.4kV		
18	TR-200ED1	SOLAR TRANSFORMER PV FARM EQUIPMENT		
19	X-99001	CRANE		
20	V-64001	NITROGEN RECEIVER		



NOTES

1. ALL DIMENSIONS IN mm U.N.O
2. ALL ELEVATIONS IN METERS.
3. PLATFORM NORTH DIRECTION IS N 25°W.
4. VENT TOP SHALL BE REACHEABLE FOR MAINTENANCE PURPOSE.
5. THE BESS IS CONSIDERED SAFE AREA EXCEPT EXTRACTORES FROM BATTERIES , CURRENTLY NOT SHOWN IN DRAWINGS, SINCE INFORMATION FROM VENDOR IS NOT YET AVAILABLE.[ES17]
6. (ES12) IS SHOWN ONLY ON ELEVATION LOOKING NORTH ON THIS LAYOUT
7. THE LOCATION OF EMISSION SOURCES ON THE LAYOUT ARE ONLY INDICATIVE. EMISSION SOURCES CONSIDERED ARE PRESENT WITHIN THE EXTENSION OF HAZARDOUS CLASSIFIED AREAS SHOWN ON THE LAYOUT. THIS IS BECAUSE VALVES AND FLANGES,WHICH ARE CONSIDERED POTENTIAL SOURCES OF RELEASE POINTS FOR FLAMMABLE GAS ARE NOT SHOWN ON CURRENT LAYOUT PROVIDED. THE SAME APPLIES TO THE EMISSION SOURCES FOR CPI'S ITEM.
8. IDENTIFIED EMISSION SOURCES DETAIL

EMISSION SOURCE No.	IDENTIFIED AREAS
ES10	HYDROGEN STORAGE VESSLES
ES11	HYDROGEN VENT KO DRUM
ES12	HYDROGEN VENT
ES16	FUEL CELL

01

LEGEND

ZONE 0 | ZONE 1 | ZONE 2 | ES EMISSION SOURCES

01

REFERENCE DOCUMENTS

123A90-DDL-PP-DS-70070	PLOT PLAN - LOWER & UPPER DECK
123A90-DDL-PP-DS-70071	PLOT PLAN - BELOW LOWER DECK

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	27/08/24	MMA	CCA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	08/02/24	MMA	CCA	DLO	ISSUE FOR REVIEW (IFR)

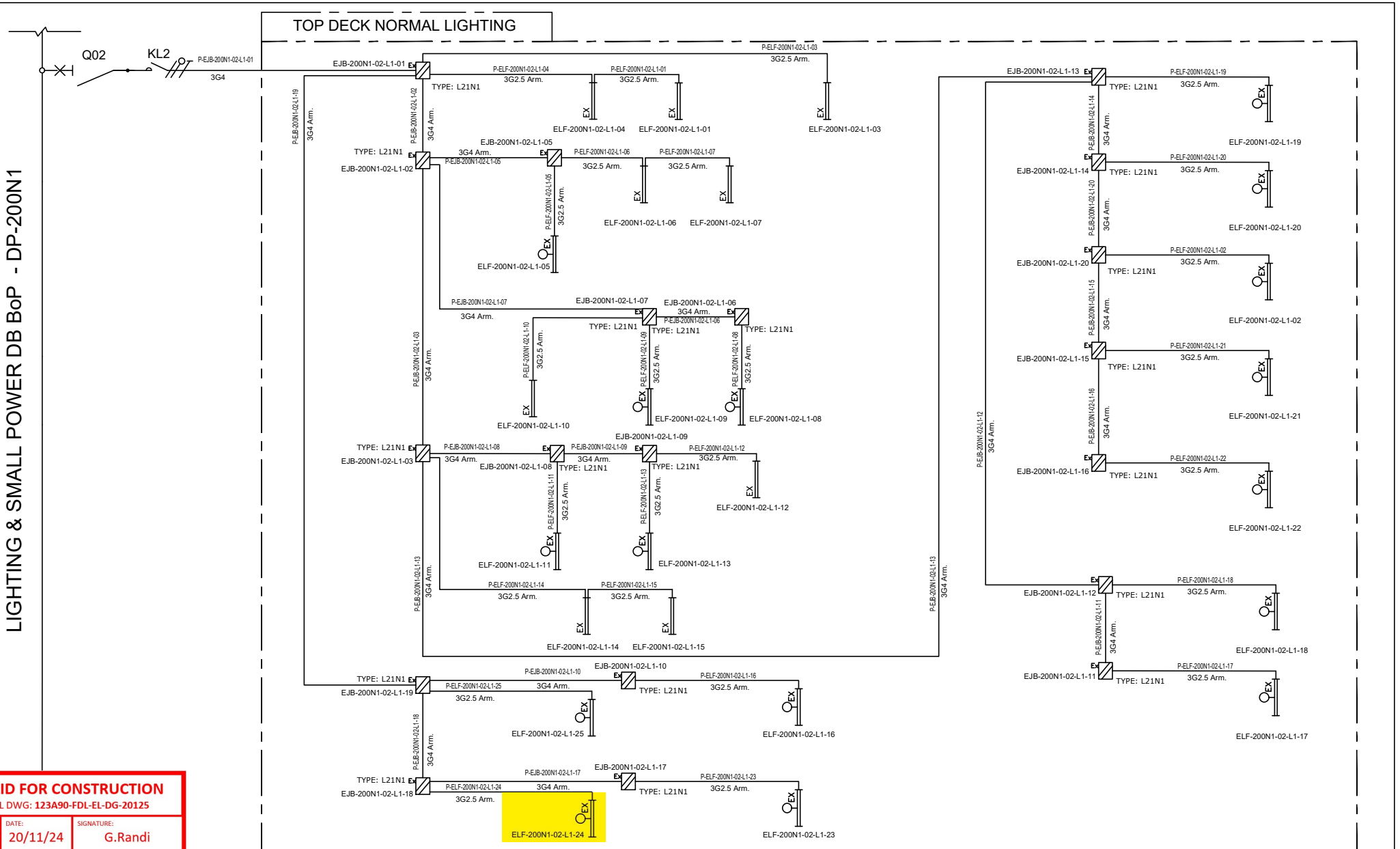
CROSSWIND | ROSETTI MARINO

TITLE :
BASE LOAD POWER HUB (BLPH)
HAZARDOUS AREA CLASSIFICATION
ELEVATION LOOKING NORTH & EAST

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK			SCALE 1:150
DRAWN M. MAGNI	CHECKED C. CARACCIOLO	APPROVED D. LO STERZO	DATE 03/07/24

A1	DRAWING NO. 123A90-DDL-SAF-DL-30024	SHEET 001	REV. 01

File Name : 123A90-DDL-SAF-DL-30024 Rev.01



VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DG-20125**

REV.:	DATE:	SIGNATURE:
2_B	20/11/24	G.Randi

ROSETTI MARINO SpA

CROSSWIND

ROSETTI MARINO

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	08/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	01/07/24	ASR	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

TITLE : BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET CIRCUIT DIAGRAM
TOP DECK–NORMAL LIGHTING

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE : NTS

A3	DRAWING NO.	SHEET	REV.
	123A90–DDL–EL–DG–20125	010	01

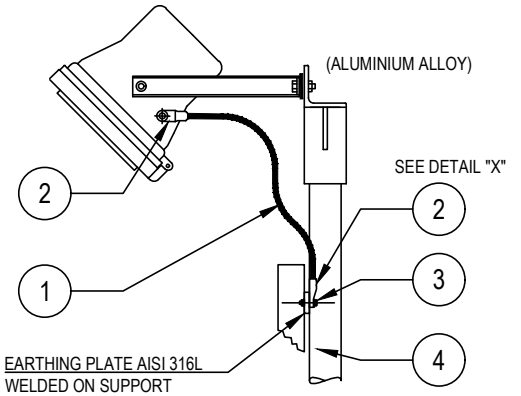
F.to UNI A3: 420mmx297mm

File Name : 123A90–DDL–EL–DG–20125

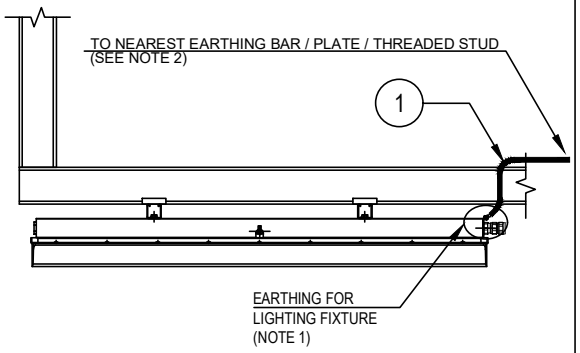
E05

POS.	DESCRIPTION	MATERIAL	SIZE	Q.TY	NOTE
1	Y/G INSULATING COPPER CONDUCTOR	COPPER	$6mm^2$		
2	COMPRESSION TYPE LUG FOR INSULATION COPPER CONDUCTOR	TINNED COPPER	$6mm^2$	2	
3	HEXAG. BOLTS, PLANE WASHERS, SPRING WASHER AND NUT	AISI 316L	M8X30	1	

LIGHTING FIXTURE/GENERAL ITEM ON POLE

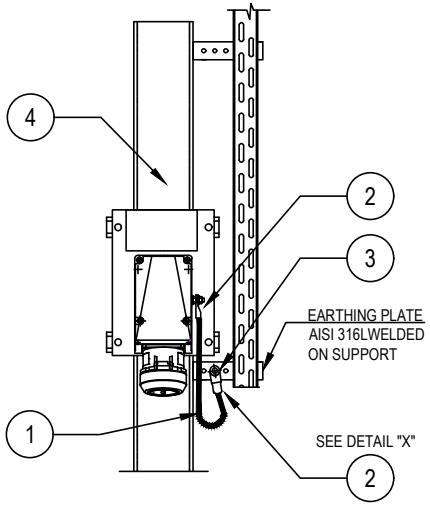


LIGHTING FIXTURES

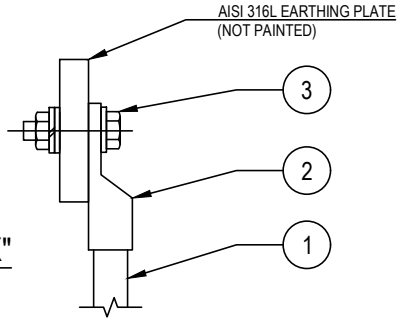


Refer also to TYP. "E32" (SEE SHEET 23)

POWER SOCKET OUTLET



DETAIL "X"



TYPICAL VALID ALSO FOR NAVAID LIGHTS

NOTES:

1) ALL LIGHTING FIXTURES AND RELEVANT ARMOUR OF THE CABLE, ARE CONNECTED TO EARTH CONNECTION THROUGH THE EARTHING TAG OF THE CABLE GLAND

2) FOR EARTHING POINT USE ONE OF THE FOLLOWING METHODS:
TYP. E03A-D sh. 004 (EARTHING BAR ON STRUCT. UNISTRUT AND CABLE TRAY)
TYP. E11C sh. 003 (EARTHING PLATE)
TYP. E11D sh. 003 (THREADED STUD ON EXTERNAL STRUCTURE)

VALID FOR CONSTRUCTION
FDL DWG: 123A90-FDL-EL-DD-20090
REV.: 2_I | DATE: 07/11/24 | SIGNATURE: G.Randi
ROSETTI MARINO SpA

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	26/08/24	GRA	AMA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	10/06/24	SPS	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	21/11/23	SPS	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL TYPICAL INSTALLATION DETAILS–EARTHING SYSTEM
EARTHING FOR ELECTRICAL EQUIPMENTS

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK | SCALE : NTS

A3 | DRAWING NO. 123A90–DDL–EL–DD–20090 | SHEET 006 | REV. 02

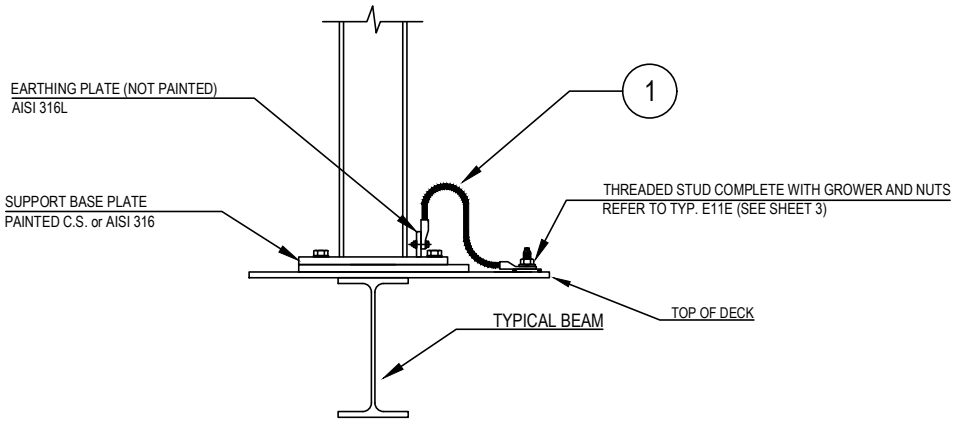
F.to UNI A3: 420mmx297mm

File Name : 123A90-DDL-EL-DD-20090 REV.02.DWG

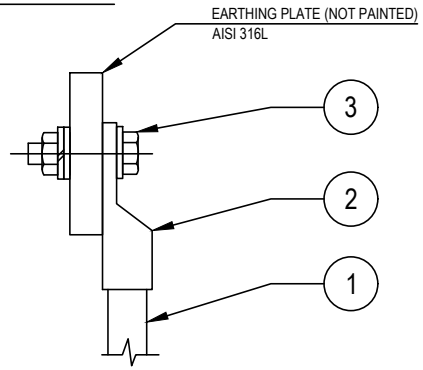
E24

POS.	DESCRIPTION	MATERIAL	SIZE	Q.TY	NOTE
1	As. R. Y/G INSULATING COPPER CONDUCTOR	COPPER	35mm^2		
2	COMPRESSION TYPE LUG FOR INSULATION COPPER CONDUCTOR	TINNED COPPER	35mm^2	2	~~NOTE 1~~
3	HEXAG. BOLT M10X30 COMPLETE WITH PLANE WASHERS, SPRING WASHER AND NUT	AISI 316L	M10X30	2	

GENERIC SUPPORT BOLTED ON STRUCTURE



DETAIL "X"



NOTES:
1) ~~CABLE LUG CRIMPING METHOD SHALL BE HEXAGONAL COMPRESSION DIES ONLY~~
2) EXTERNAL EARTHING CONNECTION ONLY SHALL BE PROTECTED AGAINST CORROSION USING OXIDE RESISTANT COMPOUND (E.G. COPPER GREASE)

VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DD-20090**
REV.: 2_I | DATE: 07/11/24 | SIGNATURE: G.Randi
ROSETTI MARINO SpA

CROSSWIND

ROSETTI MARINO

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	26/08/24	GRA	AMA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	10/06/24	SPS	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	21/11/23	SPS	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL TYPICAL INSTALLATION DETAILS–EARTHING SYSTEM
EARTHING FOR POLE/SUPPORT OF GENERIC EQUIPMENTS

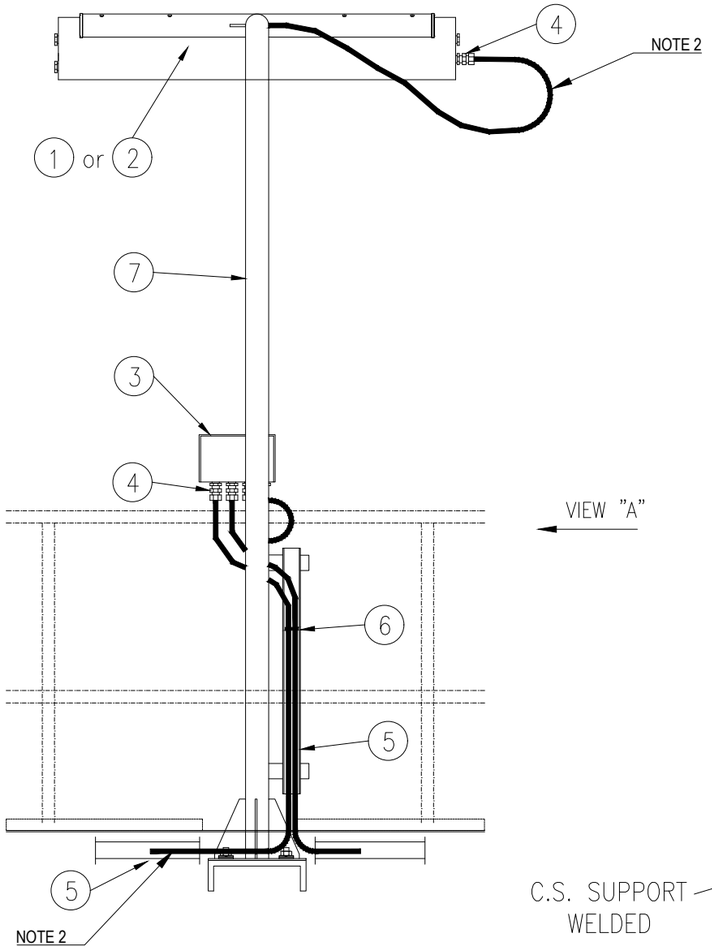
CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK | SCALE : NTS

A3	DRAWING NO.	SHEET	REV.
	123A90-DDL-EL-DD-20090	012	02

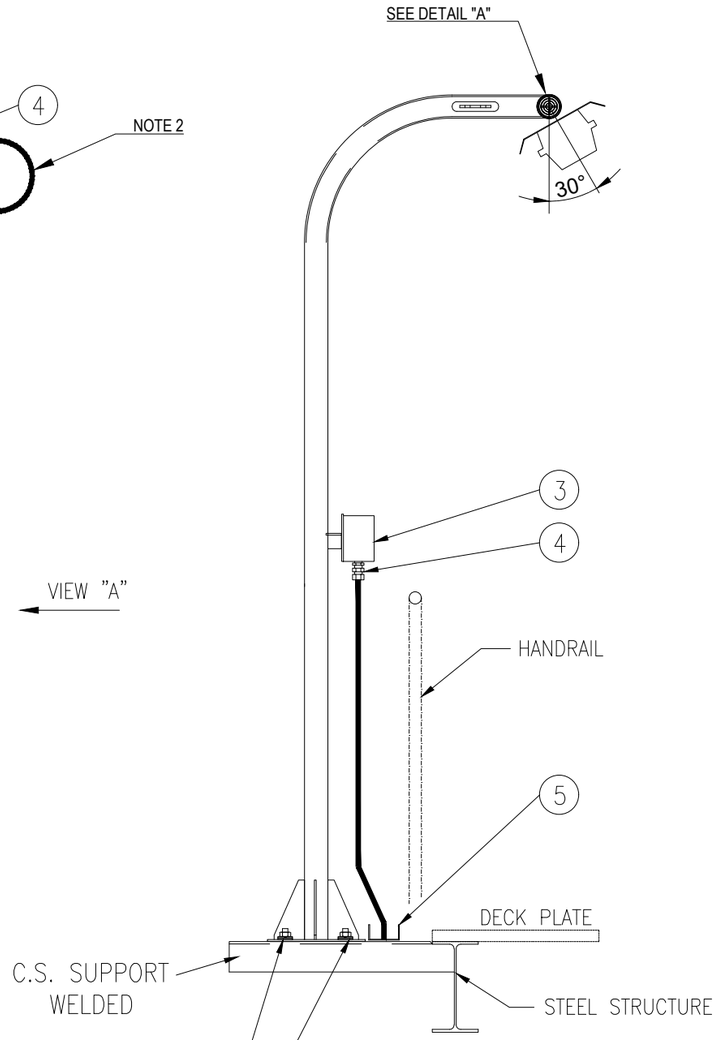
F.to UNI A3: 420mmx297mm

File Name : 123A90-DDL-EL-DD-20090 REV.02.DWG

L11A

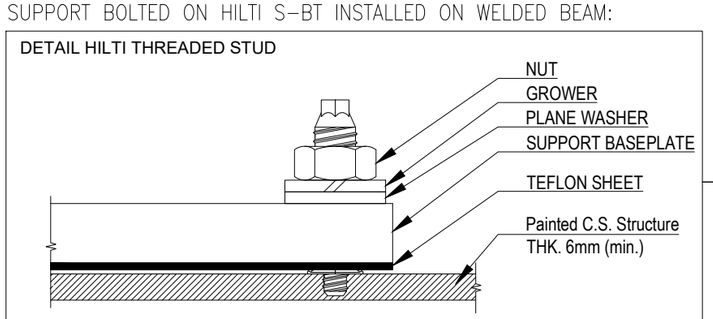


VIEW "A"

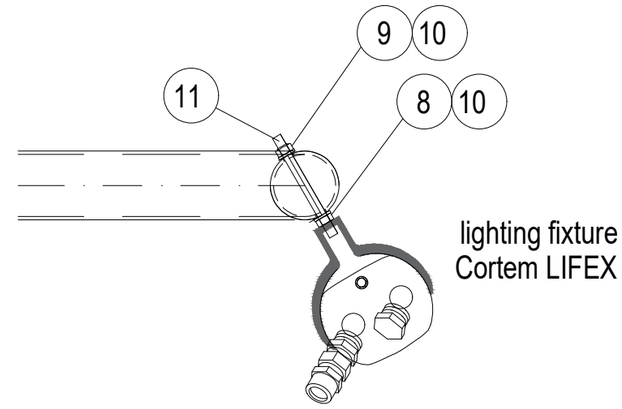


VIEW "A"

SUPPORT BOLTED ON HILTI S-BT INSTALLED ON WELDED BEAM:



POS.	DESCRIPTION	MATERIAL	SIZE	Q.TY	NOTE
1	42W LED LUMINARIES	ALUMINIUM ALLOY		1	
2	45W LED LUMINARIES C/W BATTERY	ALUMINIUM ALLOY		1	
3	JUNCTION BOX (Ex)	GRP		1	NOTE 1
4	CABLE GLAND C/W EARTH TAG, WASHERS, LOCKNUT AND WEATHERPROOF WASHERS	BRASS NICKEL PLATED		AS REQ.	
5	CABLE TRAY	AISI 316L			
6	STAINLESS STEEL NYLON COATED CABLE TIE	SS NYLON COATED			
7	POLE SUPPORT FOR LAMP	AISI 316L	2"		
8	NUT	AISI 316L	M8		
9	SELF.LOCKING NUT	AISI 316L	M8		
10	LARGE PLANE WASHER (24mm DIAM.)	AISI 316L	M8		
11	THREADED ROD M8x100	AISI 316L	M8		



DETAIL "A"

NOTES:

1) FOR LAMPS IN HAZARDOUS AREA, USE ARMOURED CABLE, DOUBLE SEAL CABLE GLAND AND EX JUNCTION BOX.

2) ALWAYS ENSURE CABLE LENGTH IS >3m

VALID FOR CONSTRUCTION
FDL DWG: 123A90-FDL-EL-DD-20091
REV.: 2_A | DATE: 30/09/24 | SIGNATURE: G.Randi
ROSETTI MARINO SpA

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	30/09/24	GRA	AMA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	04/07/24	NLK	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	21/11/23	SPS	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

02

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL TYPICAL INSTALLATION DETAILS-LIGHTING SYSTEM
LIGHTING FIXTURE MOUNTED ON POLE

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK | SCALE : NTS

A3 | DRAWING NO. 123A90-DDL-EL-DD-20091 | SHEET 014 | REV. 02

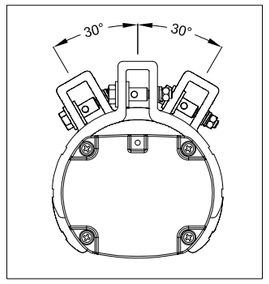
F.to UNI A3: 420mmx297mm

File Name : 123A90-DDL-EL-DD-20091 REV.02.DWG

MODEL C-225 REV.1

GENERAL NOTE:
- PO: 1724001290 DD 26/06/2024
- ITEM.: 1
- Q.TY: 57
- EXTERNAL PAINTING: RAL 7022 (END CAPS)
- INTERNAL PAINTING: NOT PAINTED
- ALL DIMENSIONS ARE IN mm

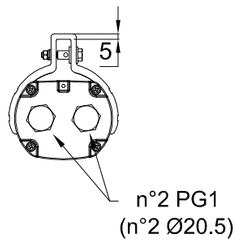
STANDARD FIXING BRACKET
FASTENING WITH 2 THREADED M8
HOLES, ADJUSTABLE FROM 0° TO ±30°



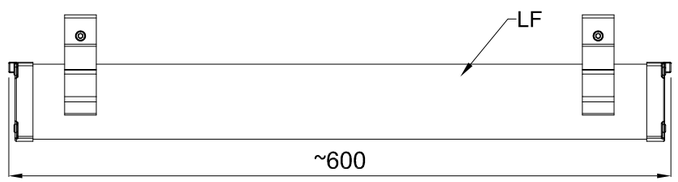
LF INFORMATION	
NOMINAL POWER	45W
CONSUMED POWER	43,5W
POWER FACTOR	>0,93
RATED CURRENT	200 mA
VIEWING ANGLE	120°
COLOUR TEMP.	5000 K
CRI	>80
INSTANT RESTRIKE	YES
LUMEN	6200 lm
LIGHT INTENSITY	2248 cd
EFFICIENCY	143 lm/W
WEIGHT	2,5 Kg
IP PROTECTION	IP66

N°	Q.TY	CODE	DESCRIPTION
LF	1	LIFEX-ME-0645-BB	110-277Vac 50-60Hz 45W LED LINEAR LIGHTING FIXTURE BODY: ALUMINUM ALLOY EXTRUSION AND ALUMINUM END CAPS TRANSPARENT PART: GLASS RESISTANT TO SHOCKS, UV RAYS AND IMPACT RESISTANCE IK09 GASKETS: ACID AND HYDROCARBON RESISTANT SILICONE ASSEMBLY: FASTENING BRACKETS FOR M8 HOLES, ADJUSTABLE 0° TO ±30° MADE IN ANODIZED ALUMINUM CONNECTION: TERMINAL BLOCK ON SIDE (IN) L, N, PE CROSS SEC. MAX. 4mmq SUITABLE FOR LOOP-IN LOOP-OUT SCREWS, BOLTS AND NUTS: STAINLESS STEEL 304
PG1	4	PLG1IB +DL1IB +RDI1IS/A4	IP66 Ex db IIC Gb - Ex eb IIC Gb NICKEL PLATED BRASS PLUG ISO M20x1,5 WITH RELEVANT LOCKNUT AND SERRATED WASHER MADE IN STAINLESS STEEL

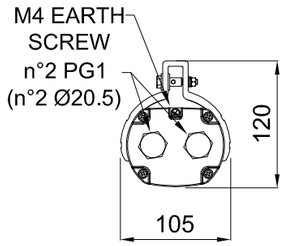
LEFT SIDE (OUT)



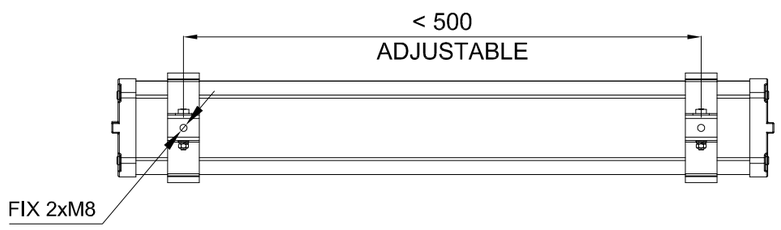
FRONT SIDE



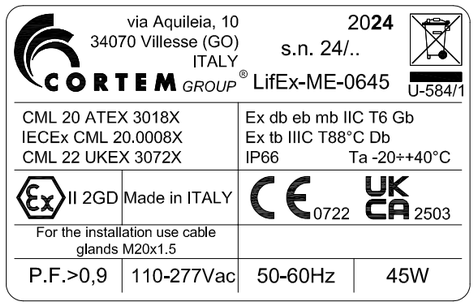
RIGHT SIDE (IN)



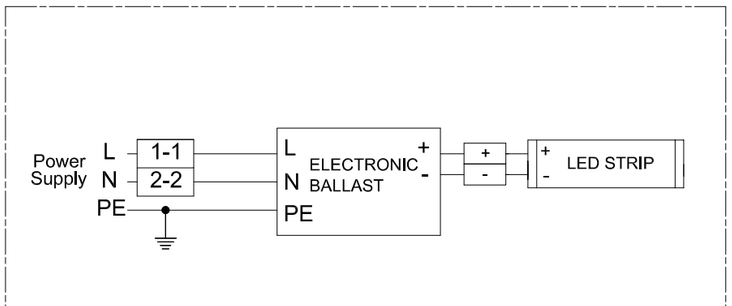
TOP SIDE



CERTIFICATE NAMEPLATE



WIRING DIAGRAM



REV.	DATE	PREP'D	CHK'D	APP'D	DESCRIPTION
2	09/07/2024	FRATTARUOLO	GIUSTI	GRATTON	REISSUED FOR APPROVAL
1	05/07/2024	FRATTARUOLO	GIUSTI	GRATTON	REISSUED FOR APPROVAL
0	28/06/2024	FRATTARUOLO	GIUSTI	GRATTON	ISSUED FOR APPROVAL

DRAWING TITLE: ROSETTI MARINO S.P.A.

CORTEM S.p.a.
GENERAL LAYOUT
001 LIFEX-ME-0645-BB/C2402693/10.

CORTEM JOB: COV2402693
DRAWING SCALE: /
DRAWING NUMBER: A3-C 27521
SHEET: 1
NEXT: 2
TOT.: 2

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AND IT CANNOT BE REPRODUCED WITHOUT CORTEM'S
AUTHORIZATION

Smart Professional R. 2012

Row	Item	Required	Manufacturer Proposal	Comments	Rev.
1	Data Sheet for Lighting Fixtures & Accessories				
2	42W LED Linear Luminaire-Normal Lighting-ATEX Area				
3	Model Number	by vendor	LIFEX-ME-0645-BB		01
4	Serial Number	by vendor			00
5	Quantity	28 Nos.		(25+3 Spare)	01
6	Location / Module	Upper deck			00
7	**LED Lamp**				
8	Nominal power	42 watts	45 watts		01
9	No. of linear	1	1		01
10	Luminous flux	5810 lm	6200 lm		01
11	Colour Temperature	5000 K	5000 K		01
12	**Protection**				
13	Hazardous Area Certification (Ex)	Zone 1 Gas Group IIC (or) IIB + H2, T1	Ex II 2GD Ex db eb mb IIC Gb Ex tb IIIC Db		01
14	Degree of Protection (IP)	IP 56	IP 66		01
15	ATEX certified	Classification EX db	ATEX CML 20 ATEX 3018X		01
16	**Material**				
17	Body	GRP/Aluminium alloy	Aluminium alloy		01
18	Reflector	GRP/Aluminium	Aluminium		01
19	Diffuser	Polycarbonate/temperate glass	Tempered glass		01
20	**Cable Entry**				
21	No. of cable entry	4 Nos.	4 Entries, 2 per side		01
22	Size	M20	Ø20.5mm		01
23	**Emergency Battery Pack**				
24	Requirement	Not required			00
25	Battery type	Not required			00
26	Autonomy	Not required			00
27	Emergency luminous flux	Not required			00
28	**Mechanical parameters**				
29	Dimension	by vendor	600x105x120(mm)		01
30	Weight	by vendor	2.5kg		01

Note:

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Tag Number	Tag Description	Location	P.O.	Vendor	Manufacturer	Serial Number	Model Type Catalogue Number	Installation Zone	ATEX Certificate Number	Reference Document	ATEX Certification Marking	Notes / Comments	Skid / Package	Electrical Equip.	Barrier Calculation Ref.	Special Conditions of Safe Use Applicable	3D Location
ELF-200N1-02-L1-17	Normal Lighting Fixture	UPPER DECK	1724001290	Cortem Spa	Cortem Spa	24/86772	LIFEX-ME-0645-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	
ELF-200N1-02-L1-18	Normal Lighting Fixture	UPPER DECK	1724001290	Cortem Spa	Cortem Spa	24/86772	LIFEX-ME-0645-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	
ELF-200N1-02-L1-19	Normal Lighting Fixture	UPPER DECK	1724001290	Cortem Spa	Cortem Spa	24/86772	LIFEX-ME-0645-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	
ELF-200N1-02-L1-20	Normal Lighting Fixture	UPPER DECK	1724001290	Cortem Spa	Cortem Spa	24/86772	LIFEX-ME-0645-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	
ELF-200N1-02-L1-21	Normal Lighting Fixture	UPPER DECK	1724001290	Cortem Spa	Cortem Spa	24/86772	LIFEX-ME-0645-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	
ELF-200N1-02-L1-22	Normal Lighting Fixture	UPPER DECK	1724001290	Cortem Spa	Cortem Spa	24/86772	LIFEX-ME-0645-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	
ELF-200N1-02-L1-23	Normal Lighting Fixture	UPPER DECK	1724001290	Cortem Spa	Cortem Spa	24/86772	LIFEX-ME-0645-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	
ELF-200N1-02-L1-24	Normal Lighting Fixture	UPPER DECK	1724001290	Cortem Spa	Cortem Spa	24/86772	LIFEX-ME-0645-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	
ELF-200N1-02-L1-25	Normal Lighting Fixture	UPPER DECK	1724001290	Cortem Spa	Cortem Spa	24/86772	LIFEX-ME-0645-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	
ELF-200N1-03-L2-01	Normal Lighting Fixture	LOWER DECK	1724001290	Cortem Spa	Cortem Spa	24/86772	LIFEX-ME-0645-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	
ELF-200N1-03-L2-02	Normal Lighting Fixture	LOWER DECK	1724001290	Cortem Spa	Cortem Spa	24/86772	LIFEX-ME-0645-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	
ELF-200N1-03-L2-03	Normal Lighting Fixture	LOWER DECK	1724001290	Cortem Spa	Cortem Spa	24/86772	LIFEX-ME-0645-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	
ELF-200N1-03-L2-04	Normal Lighting Fixture	LOWER DECK	1724001290	Cortem Spa	Cortem Spa	24/86772	LIFEX-ME-0645-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	
ELF-200N1-03-L2-05	Normal Lighting Fixture	LOWER DECK	1724001290	Cortem Spa	Cortem Spa	24/86772	LIFEX-ME-0645-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	
ELF-200N1-03-L2-06	Normal Lighting Fixture	LOWER DECK	1724001290	Cortem Spa	Cortem Spa	24/86772	LIFEX-ME-0645-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	
ELF-200N1-03-L2-07	Normal Lighting Fixture	LOWER DECK	1724001290	Cortem Spa	Cortem Spa	24/86772	LIFEX-ME-0645-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	
ELF-200N1-03-L2-08	Normal Lighting Fixture	LOWER DECK	1724001290	Cortem Spa	Cortem Spa	24/86772	LIFEX-ME-0645-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	
ELF-200N1-03-L2-09	Normal Lighting Fixture	LOWER DECK	1724001290	Cortem Spa	Cortem Spa	24/86772	LIFEX-ME-0645-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	
ELF-200N1-03-L2-10	Normal Lighting Fixture	LOWER DECK	1724001290	Cortem Spa	Cortem Spa	24/86772	LIFEX-ME-0645-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	
ELF-200N1-03-L2-11	Normal Lighting Fixture	LOWER DECK	1724001290	Cortem Spa	Cortem Spa	24/86772	LIFEX-ME-0645-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	
ELF-200N1-03-L2-12	Normal Lighting Fixture	LOWER DECK	1724001290	Cortem Spa	Cortem Spa	24/86772	LIFEX-ME-0645-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	
ELF-200N1-03-L2-13	Normal Lighting Fixture	LOWER DECK	1724001290	Cortem Spa	Cortem Spa	24/86772	LIFEX-ME-0645-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	
ELF-200N1-03-L2-14	Normal Lighting Fixture	LOWER DECK	1724001290	Cortem Spa	Cortem Spa	24/86772	LIFEX-ME-0645-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	
ELF-200N1-03-L2-15	Normal Lighting Fixture	LOWER DECK	1724001290	Cortem Spa	Cortem Spa	24/86772	LIFEX-ME-0645-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	
ELF-200N1-03-L2-16	Normal Lighting Fixture	LOWER DECK	1724001290	Cortem Spa	Cortem Spa	24/86772	LIFEX-ME-0645-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	
ELF-200N1-04-L3-01	Stair Normal Lighting Fixture	LOWER DECK	1724001290	Cortem Spa	Cortem Spa	24/86772	LIFEX-ME-0645-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	
ELF-200N1-04-L3-02	Stair Normal Lighting Fixture	LOWER DECK	1724001290	Cortem Spa	Cortem Spa	24/86772	LIFEX-ME-0645-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	
ELF-200N1-08-L1-01	Emergency Lighting Fixture	UPPER DECK	1724001290	Cortem Spa	Cortem Spa	24/86773	LIFEX-ME-1260N-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	
ELF-200N1-08-L1-02	Emergency Lighting Fixture	UPPER DECK	1724001290	Cortem Spa	Cortem Spa	24/86773	LIFEX-ME-1260N-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	
ELF-200N1-08-L1-03	Emergency Lighting Fixture	UPPER DECK	1724001290	Cortem Spa	Cortem Spa	24/86773	LIFEX-ME-1260N-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	
ELF-200N1-08-L1-04	Emergency Lighting Fixture	UPPER DECK	1724001290	Cortem Spa	Cortem Spa	24/86773	LIFEX-ME-1260N-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	
ELF-200N1-08-L1-05	Emergency Lighting Fixture	UPPER DECK	1724001290	Cortem Spa	Cortem Spa	24/86773	LIFEX-ME-1260N-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	HAZARDOUS-AREA_8
ELF-200N1-08-L1-06	Emergency Lighting Fixture	UPPER DECK	1724001290	Cortem Spa	Cortem Spa	24/86773	LIFEX-ME-1260N-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	HAZARDOUS-AREA_8 HAZARDOUS-AREA_3 HAZARDOUS-AREA_1 HAZARDOUS-AREA_2
ELF-200N1-08-L1-07	Emergency Lighting Fixture	UPPER DECK	1724001290	Cortem Spa	Cortem Spa	24/86773	LIFEX-ME-1260N-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	HAZARDOUS-AREA_8
ELF-200N1-08-L1-08	Emergency Lighting Fixture	UPPER DECK	1724001290	Cortem Spa	Cortem Spa	24/86773	LIFEX-ME-1260N-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	HAZARDOUS-AREA_3 HAZARDOUS-AREA_6
ELF-200N1-08-L1-09	Emergency Lighting Fixture	UPPER DECK	1724001290	Cortem Spa	Cortem Spa	24/86773	LIFEX-ME-1260N-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	HAZARDOUS-AREA_1 HAZARDOUS-AREA_4
ELF-200N1-08-L1-10	Emergency Lighting Fixture	UPPER DECK	1724001290	Cortem Spa	Cortem Spa	24/86773	LIFEX-ME-1260N-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	HAZARDOUS-AREA_4 HAZARDOUS-AREA_1
ELF-200N1-08-L1-11	Emergency Lighting Fixture	UPPER DECK	1724001290	Cortem Spa	Cortem Spa	24/86773	LIFEX-ME-1260N-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	HAZARDOUS-AREA_6 HAZARDOUS-AREA_3
ELF-200N1-08-L1-12	Emergency Lighting Fixture	UPPER DECK	1724001290	Cortem Spa	Cortem Spa	24/86773	LIFEX-ME-1260N-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	
ELF-200N1-08-L1-13	Emergency Lighting Fixture	UPPER DECK	1724001290	Cortem Spa	Cortem Spa	24/86773	LIFEX-ME-1260N-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	
ELF-200N1-08-L1-14	Emergency Lighting Fixture	UPPER DECK	1724001290	Cortem Spa	Cortem Spa	24/86773	LIFEX-ME-1260N-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	
ELF-200N1-08-L1-15	Emergency Lighting Fixture	UPPER DECK	1724001290	Cortem Spa	Cortem Spa	24/86773	LIFEX-ME-1260N-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	
ELF-200N1-08-L1-16	Emergency Lighting Fixture	UPPER DECK	1724001290	Cortem Spa	Cortem Spa	24/86773	LIFEX-ME-1260N-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	
ELF-200N1-08-L1-17	Emergency Lighting Fixture	UPPER DECK	1724001290	Cortem Spa	Cortem Spa	24/86773	LIFEX-ME-1260N-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	
ELF-200N1-08-L1-18	Emergency Lighting Fixture	UPPER DECK	1724001290	Cortem Spa	Cortem Spa	24/86773	LIFEX-ME-1260N-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	
ELF-200N1-08-L1-19	Emergency Lighting Fixture	UPPER DECK	1724001290	Cortem Spa	Cortem Spa	24/86773	LIFEX-ME-1260N-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	
ELF-200N1-08-L1-20	Emergency Lighting Fixture	UPPER DECK	1724001290	Cortem Spa	Cortem Spa	24/86773	LIFEX-ME-1260N-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	
ELF-200N1-08-L1-21	Emergency Lighting Fixture	UPPER DECK	1724001290	Cortem Spa	Cortem Spa	24/86773	LIFEX-ME-1260N-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	
ELF-200N1-08-L1-22	Emergency Lighting Fixture	UPPER DECK	1724001290	Cortem Spa	Cortem Spa	24/86773	LIFEX-ME-1260N-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	
ELF-200N1-08-L1-23	Emergency Lighting Fixture	UPPER DECK	1724001290	Cortem Spa	Cortem Spa	24/86773	LIFEX-ME-1260N-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	
ELF-200N1-09-L2-01	Emergency Lighting Fixture	LOWER DECK	1724001290	Cortem Spa	Cortem Spa	24/86773	LIFEX-ME-1260N-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	
ELF-200N1-09-L2-02	Emergency Lighting Fixture	LOWER DECK	1724001290	Cortem Spa	Cortem Spa	24/86773	LIFEX-ME-1260N-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	
ELF-200N1-09-L2-03	Emergency Lighting Fixture	LOWER DECK	1724001290	Cortem Spa	Cortem Spa	24/86773	LIFEX-ME-1260N-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	
ELF-200N1-09-L2-04	Emergency Lighting Fixture	LOWER DECK	1724001290	Cortem Spa	Cortem Spa	24/86773	LIFEX-ME-1260N-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	
ELF-200N1-09-L2-05	Emergency Lighting Fixture	LOWER DECK	1724001290	Cortem Spa	Cortem Spa	24/86773	LIFEX-ME-1260N-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	
ELF-200N1-09-L2-06	Emergency Lighting Fixture	LOWER DECK	1724001290	Cortem Spa	Cortem Spa	24/86773	LIFEX-ME-1260N-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	
ELF-200N1-09-L2-07	Emergency Lighting Fixture	LOWER DECK	1724001290	Cortem Spa	Cortem Spa	24/86773	LIFEX-ME-1260N-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	
ELF-200N1-09-L2-08	Emergency Lighting Fixture	LOWER DECK	1724001290	Cortem Spa	Cortem Spa	24/86773	LIFEX-ME-1260N-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	
ELF-200N1-09-L2-09	Emergency Lighting Fixture	LOWER DECK	1724001290	Cortem Spa	Cortem Spa	24/86773	LIFEX-ME-1260N-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	
ELF-200N1-09-L2-10	Emergency Lighting Fixture	LOWER DECK	1724001290	Cortem Spa	Cortem Spa	24/86773	LIFEX-ME-1260N-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	
ELF-200N1-09-L2-11	Emergency Lighting Fixture	LOWER DECK	1724001290	Cortem Spa	Cortem Spa	24/86773	LIFEX-ME-1260N-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	
ELF-200N1-09-L2-12	Emergency Lighting Fixture	LOWER DECK	1724001290	Cortem Spa	Cortem Spa	24/86773	LIFEX-ME-1260N-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	
ELF-200N1-09-L2-13	Emergency Lighting Fixture	LOWER DECK	1724001290	Cortem Spa	Cortem Spa	24/86773	LIFEX-ME-1260N-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	
ELF-200N1-09-L2-14	Emergency Lighting Fixture	LOWER DECK	1724001290	Cortem Spa	Cortem Spa	24/86773	LIFEX-ME-1260N-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	
ELF-200N1-09-L2-15	Emergency Lighting Fixture	LOWER DECK	1724001290	Cortem Spa	Cortem Spa	24/86773	LIFEX-ME-1260N-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	
ELF-200N1-09-L2-16	Emergency Lighting Fixture	LOWER DECK	1724001290	Cortem Spa	Cortem Spa	24/86773	LIFEX-ME-1260N-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	
ELF-200N1-09-L2-17	Emergency Lighting Fixture	LOWER DECK	1724001290	Cortem Spa	Cortem Spa	24/86773	LIFEX-ME-1260N-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	
ELF-200N1-09-L2-18	Emergency Lighting Fixture	LOWER DECK	1724001290	Cortem Spa	Cortem Spa	24/86773	LIFEX-ME-1260N-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	
ELF-200N1-09-L2-19	Emergency Lighting Fixture	LOWER DECK	1724001290	Cortem Spa	Cortem Spa	24/86773	LIFEX-ME-1260N-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	
ELF-200N1-09-L2-20	Emergency Lighting Fixture	LOWER DECK	1724001290	Cortem Spa	Cortem Spa	24/86773	LIFEX-ME-1260N-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	
ELF-200N1-09-L2-21	Emergency Lighting Fixture	LOWER DECK	1724001290	Cortem Spa	Cortem Spa	24/86773	LIFEX-ME-1260N-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	
ELF-200N1-09-L2-22	Emergency Lighting Fixture	LOWER DECK	1724001290	Cortem Spa	Cortem Spa	24/86773	LIFEX-ME-1260N-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	
ELF-200N1-09-L2-23	Emergency Lighting Fixture	LOWER DECK	1724001290	Cortem Spa	Cortem Spa	24/86773	LIFEX-ME-1260N-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	
ELF-200N1-09-L2-24	Emergency Lighting Fixture	BELOW LOWER DECK	1724001290	Cortem Spa	Cortem Spa	24/86773	LIFEX-ME-1260N-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	

EU Type Examination Certificate CML 20ATEX3018X Issue 1

1 Equipment intended for use in Potentially Explosive Atmospheres Directive 2014/34/EU

2 Equipment **LifEx-ME, LifEx-MN and LifEx-MT series of linear lighting fixtures**

3 Manufacturer **Cortem S.p.A.**

4 Address **Via Aquileia 10**
34070 Villesse
(GO)
Italy

5 The equipment is specified in the description of this certificate and the documents to which it refers.

6 CML B.V., Chamber of Commerce No 6738671, Koopvaardijweg 32, 4906CV Oosterhout, The Netherlands, Notified Body Number 2776, in accordance with Article 17 of Directive 2014/34/EU of the European Parliament and of the Council, dated 26 February 2014, certifies that this equipment has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of equipment intended for use in potentially explosive atmospheres given in Annex II to the Directive.

The examination and test results are recorded in the confidential reports listed in Section 12.

7 If an 'X' suffix appears after the certificate number, it indicates that the equipment is subject to conditions of safe use (affecting correct installation or safe use). These are specified in Section 14.

8 This EU Type Examination certificate relates only to the design and construction of the specified equipment or component. Further requirements of Directive 2014/34/EU Article 13 apply to the manufacture of the equipment or component and are separately certified.

9 Compliance with the Essential Health and Safety Requirements, with the exception of those listed in the confidential report, has been demonstrated through compliance with the following documents:

EN IEC 60079-0:2018	EN 60079-1:2014	EN IEC 60079-7:2015+A1:2018
EN 60079-18:2015+A1:2017	EN 60079-31:2014	

10 The equipment shall be marked with the following:

LifEx-ME	LifEx-MN and LifEx-MT
Ex db eb mb IIC T.. Gb	Ex tb IIIC T…°C Db
Ex eb mb IIC T.. Gb *(when Ex mb LED drivers are used)*	IP66
Ex tb IIIC T…°C Db	
IP66	
Ta=* see description	Ta=* see description

11 Description

The LifEx is a range of linear LED lighting fixtures that are available in three different configurations for different applications, designated as the LifEx-ME, LifEx-MT and LifEx-MN.

LifEx-ME

The LifEx-ME version has an Equipment Protection Level of EPL Gb and Db and utilises types of protection increased safety (eb) and dust protection by enclosure (tb), along with encapsulation (mb) for the light source and flameproof (db) for the driver.

It is constructed from an aluminium enclosure, with either a glass or polycarbonate lens and with optional polycarbonate diffuser.

LifEx-MN

The LifEx-MN version has an Equipment Protection Level of EPL Gc and Db and utilises types of protection increased safety (ec) and dust protection by enclosure (tb).

It is constructed from an aluminium enclosure, with polycarbonate diffuser and/or with optional glass or polycarbonate lens.

LifEx-MT

The LifEx-MT versions has an Equipment Protection Level of EPL Db and utilises types of protection dust protection by enclosure (tb).

It is constructed from an aluminium enclosure, with polycarbonate diffuser and/or with optional glass or polycarbonate lens.

Design Options

Every configuration is available in lengths ranging from 300 mm to 1500 mm, and power ratings up to a maximum of 105W of nominal power.

The LifEx can be used in only normal service, in only emergency service or in normal and emergency service.

The minimum ambient temperature for the range is:

- -60°C for versions without battery
- -60°C for versions with the battery heater
- -20°C for versions with battery

The range is available with the following maximum ambient temperatures:

	With glass lens and with/without polycarbonate diffuser	With Polycarbonate lens and with/without polycarbonate diffuser	Without lens polycarbonate diffuser only
LifEx-M...0310	+60°C	+60°C	+60°C
LifEx-M...0315	+60°C	+60°C	+60°C
LifEx-M...0330	+60°C	Configuration not available	Configuration not available
LifEx-M...0615	+60°C	+60°C	+60°C
LifEx-M...0630	+60°C	+50°C	+60°C
LifEx-M...0645	+57°C	+47°C	+60°C
LifEx-M...0660	+47°C	Configuration not available	+58°C
LifEx-M...1230	+60°C	+60°C	+60°C
LifEx-M...1260	+60°C	+50°C	+60°C
LifEx-M...1290	+60°C	+40°C	+60°C
LifEx-M...12120	+54°C	Configuration not available	+60°C
LifEx-M...1590	+60°C	+40°C	+60°C

Table 1: Maximum Ambient Temperatures

The following tables provide the Temperature Class (EPL Gb) and Maximum Surface Temperature (EPL Db) for each LifEx type, with the following notes:

- The LifEx-MN with an ambient temperature greater than 50°C is T5 or T4. T6 is not included.
- The Temperature Class (EPL Gb) and Maximum Surface Temperature (EPL Db) in the tables below are not applicable when the ambient temperature is not permitted in the above maximum ambient temperature range table.

13. (For example, the LifEx-M...0660 is not permitted with polycarbonate lens, therefore the Temperature Class (EPL Gb) and Maximum Surface Temperature (EPL Db) for this version in tables 2 and 3 are not applicable)

	Temperature Class (EPL Gb and Gc) and Maximum Surface Temperature (EPL Db) Based on ambient temperature													
	40°C		45°C		47°C		50°C		54°C		57°C		60°C	
	EPL Db	EPL Gb/Gc	EPL Db	EPL Gb/Gc	EPL Db	EPL Gb/Gc	EPL Db	EPL Gb/Gc	EPL Db	EPL Gb/Gc	EPL Db	EPL Gb/Gc	EPL Db	EPL Gb/Gc
LifEx-M...0310	T56°C	T6	T56°C	T6	T58°C	T6	T61°C	T6	T65°C	T6	T68°C	T6	T71°C	T6
LifEx-M...0315	T56°C	T6	T56°C	T6	T58°C	T6	T61°C	T6	T65°C	T6	T68°C	T6	T71°C	T6
LifEx-M...0615	T56°C	T6	T56°C	T6	T58°C	T6	T61°C	T6	T65°C	T6	T68°C	T6	T71°C	T6
LifEx-M...0630	T69°C	T6	T69°C	T5	T71°C	T5	T74°C	T5	T78°C	T5	T81°C	T4	T84°C	T4
LifEx-M...0645	T72°C	T5	T72°C	T5	T74°C	T5	T77°C	T5	T81°C	T4	T84°C	T4	T87°C	T4
LifEx-M...0660	T77°C	T5	T77°C	T4	T79°C	T4	T82°C	T4	T86°C	T4	T89°C	T4	T92°C	T4
LifEx-M...1230	T58°C	T6	T58°C	T6	T60°C	T6	T63°C	T6	T67°C	T6	T70°C	T6	T73°C	T6
LifEx-M...1260	T67°C	T6	T67°C	T5	T69°C	T5	T72°C	T5	T76°C	T5	T79°C	T4	T82°C	T4
LifEx-M...1290	T72°C	T5	T72°C	T5	T74°C	T4	T77°C	T4	T81°C	T4	T84°C	T4	T87°C	T4
LifEx-M...12120	T75°C	T5	T75°C	T4	T77°C	T4	T80°C	T4	T84°C	T4	T87°C	T4	T90°C	T4
LifEx-M...1590	T72°C	T5	T72°C	T5	T74°C	T4	T77°C	T4	T81°C	T4	T84°C	T4	T87°C	T4

Table 2: Temperature Class (EPL Gb) and Maximum Surface Temperature (EPL Db) for LifEx types with glass/polycarbonate lens and with polycarbonate diffuser

	Temperature Class (EPL Gb and Gc) and Maximum Surface Temperature (EPL Db) Based on ambient temperature					
	40°C		55°C		60°C	
	EPL Db	EPL Gc	EPL Db	EPL Gc	EPL Db	EPL Gc
LifEx-ME-0330	T58°C	T6	T73°C	T6	T78°C	T5
LifEx-MN-0330	T58°C	T6	T73°C	T5	T78°C	T4
LifEx-MT-0330	T58°C	-	T73°C	-	T78°C	-

Table 3: Temperature Class (EPL Gb and Gc) and Maximum Surface Temperature (EPL Db) for LifEx-M...-0330 types with glass/polycarbonate window and without polycarbonate diffuser

	Temperature Class (EPL Gb) and Maximum Surface Temperature (EPL Db) Based on ambient temperature													
	40°C		45°C		47°C		50°C		54°C		57°C		60°C	
	EPL Db	EPL Gb	EPL Db	EPL Gb	EPL Db	EPL Gb	EPL Db	EPL Gb	EPL Db	EPL Gb	EPL Db	EPL Gb	EPL Db	EPL Gb
LifEx-M...0310	T62°C	T6	T62°C	T6	T64°C	T6	T67°C	T6	T71°C	T6	T74°C	T6	T77°C	T6
LifEx-M...0315	T62°C	T6	T62°C	T6	T64°C	T6	T67°C	T6	T71°C	T6	T74°C	T6	T77°C	T6
LifEx-M...0615	T62°C	T6	T62°C	T6	T64°C	T6	T67°C	T6	T71°C	T6	T74°C	T6	T77°C	T6
LifEx-M...0630	T85°C	T6	T85°C	T5	T87°C	T5	T90°C	T5	T94°C	T5	T97°C	T4	T100°C	T4
LifEx-M...0645	T88°C	T6	T88°C	T5	T90°C	T5	T93°C	T5	T97°C	T4	T100°C	T4	T103°C	T4
LifEx-M...0660	T100°C	T6	T100°C	T4	T102°C	T4	T105°C	T4	T109°C	T4	T112°C	T4	T115°C	T4
LifEx-M...1230	T65°C	T6	T65°C	T6	T67°C	T6	T70°C	T6	T74°C	T6	T77°C	T6	T80°C	T6
LifEx-M...1260	T85°C	T6	T85°C	T5	T87°C	T5	T90°C	T5	T94°C	T5	T97°C	T4	T100°C	T4
LifEx-M...1290	T94°C	T6	T94°C	T5	T96°C	T4	T99°C	T4	T103°C	T4	T106°C	T4	T109°C	T4
LifEx-M...12120	T96°C	T5	T96°C	T4	T98°C	T4	T101°C	T4	T105°C	T4	T108°C	T4	T111°C	T4
LifEx-M...1590	T94°C	T6	T94°C	T5	T96°C	T4	T99°C	T4	T103°C	T4	T106°C	T4	T109°C	T4

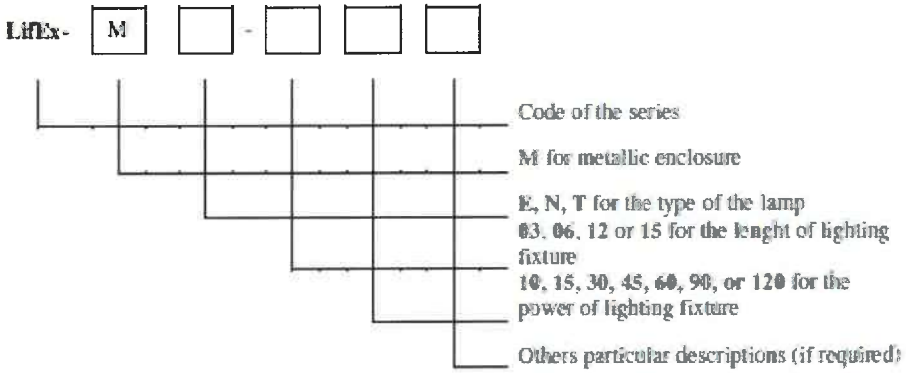
Table 4: Temperature Class (EPL Gb) and Maximum Surface Temperature (EPL Db) for LifEx types with glass/polycarbonate lens and without polycarbonate diffuser

	Maximum Surface Temperature (EPL Db) Based on ambient temperature						
	40°C	45°C	47°C	50°C	54°C	57°C	60°C
LifEx-M...0310	T56°C	T56°C	T58°C	T61°C	T65°C	T68°C	T71°C
LifEx-M...0315	T56°C	T56°C	T58°C	T61°C	T65°C	T68°C	T71°C
LifEx-M...0615	T56°C	T56°C	T58°C	T61°C	T65°C	T68°C	T71°C
LifEx-M...0630	T69°C	T69°C	T71°C	T74°C	T78°C	T81°C	T84°C
LifEx-M...0645	T72°C	T72°C	T74°C	T77°C	T81°C	T84°C	T87°C
LifEx-M...0660	T77°C	T77°C	T79°C	T82°C	T86°C	T89°C	T92°C
LifEx-M...1230	T58°C	T58°C	T60°C	T63°C	T67°C	T70°C	T73°C
LifEx-M...1260	T67°C	T67°C	T69°C	T72°C	T76°C	T79°C	T82°C
LifEx-M...1290	T72°C	T72°C	T74°C	T77°C	T81°C	T84°C	T87°C
LifEx-M...12120	T75°C	T75°C	T77°C	T80°C	T84°C	T87°C	T90°C
LifEx-M...1590	T72°C	T72°C	T74°C	T77°C	T81°C	T84°C	T87°C

Table 5: (Applicable to EPL Db only) Maximum Surface Temperature for LifEx types without glass/polycarbonate lens and with polycarbonate diffuser

The equipment has been separately tested against the requirements of IEC 60529 and it meets IP66. The gaskets on the caps provide the degree of protection.

The equipment uses the following nomenclature:



Variation 1:

This variation has assed the following changes:

i. Addition of an optional new removable cover for "easy installation" (which use the new aluminium extrusion);
ii. Addition of an optional external battery box;
iii. minimum ambient temperature extended to -60°C when Ex mb heater is used;
iv. Additional optional Ex mb EBM LED driver as an alternative to EBL3040 / EBL4040 Ex db series LED drivers;
v. added 30W model for size 300mm (LifEx-M..-0330).

12 Certificate history and evaluation reports

Issue	Date	Associated report	Notes
0	06 May 2020	R13027A/00	Prime Issue
1	01 Jul 2022	R14875A/00	Introduction of Variation 1

Note: Drawings that describe the equipment or component are listed in the Annex.

13 Conditions of Manufacture

The following conditions are required of the manufacturing process for compliance with the certification.

i. Where the product incorporates certified parts or safety critical components the manufacturer shall ensure that any changes to those parts or components do not affect the compliance of the certified product that is the subject of this certificate.
ii. The LifEx series lighting fixtures are to be designed in accordance with general electrical safety standards.
iii. The routine dielectric strength test on the LifEx-ME and LifEx-MN luminaries with applied voltage shall be performed at 2U + 1000V with a minimum value of 1560V (U = maximum rated voltage of the lamp)

iv. A routine visual inspection of the encapsulated parts is required, as per Clause 9.1 of IEC 60079-18. There shall be no visible damage or deformation to the encapsulant.

v. Where the removable battery pack is used with phoenix contacts, if used with a T6 version of the equipment, the maximum ambient shall be limited to +40°C.

14 Specific Conditions of Use (Special Conditions)

The following conditions relate to safe installation and/or use of the equipment.

i. Cable entries are provided which have less than 5 threads engaged. Care must be taken to ensure the correct gaskets and washers are sued with the cable gland to maintain IP66.

ii. The equipment uses an external part that is constructed from non-metallic materials, and as such care is to be taken to prevent an electro-static charging hazard. See instruction manual for details.

iii. For versions with glass window of 4mm thickness without cover, the luminaire must be installed in a location with a low risk of mechanical danger

iv. The temperature at the entry point may reach up to 75°C. Suitably rated cable glands must be used.

Certificate Annex

Certificate Number	**CML 20ATEX3018X**
Equipment	**LifEx-ME, LifEx-MN and LifEx-MT series of linear lighting fixtures**
Manufacturer	**Cortem S.p.A.**

The following documents describe the equipment or component defined in this certificate:

Issue 0

Drawing No	Sheets	Rev	Approved date	Title
A3-7466	1 to 6	0	06 May 2020	LifEx-M Luminaires
A4-7467	1 to 6	0	06 May 2020	Technical Note

Issue 1

Drawing No.	Sheets	Rev	Approved date	Title
A3-7466	1 of 6	1	01 Jul 2022	LifEx-M Luminaires Assembly and External Dimensions
A3-7466	2 of 6	1	01 Jul 2022	LifEx-M Luminaires Detail of sealing and op is protection
A3-7466	3 of 6	1	01 Jul 2022	LifEx-M Luminaires Detail of driver and inverter for LifEx-ME version
A3-7466	4 of 6	1	01 Jul 2022	LifEx-M Luminaires Circuit diagram for LifeEx-ME version
A3-7466	5 of 6	1	01 Jul 2022	LifEx-M Luminaires Circuit diagram LifEx-MN and LifEx-MT version
A3-7466	6 of 6	1	01 Jul 2022	LifEx-M Luminaires Detail of battery pack
A3-7729	1 to 3	0	01 Jul 2022	Battery heater for -60°C /-40°C applications Assembly and External Dimensions
A4-7727	1 to 8	0	01 Jul 2022	Technical Note

ITEM	Tag	ELF-200N1-02-L1-25	: NORMAL LIGHT	Dwg	123A90-DDL-EL-DL-20118
	S/Sys	83-40	: Normal Lighting Upper Deck	Module	UD
TASK	code	C10001676	Location: Onshore Activities	User	Rosetti Marino Quality Control
FORM	Process	MC	Activity: CCK / Discipline: ATEX / Form: CJX01		Hazardous Area Equipment Detailed Inspection

Schedule Ref. #				**Area Code**					
Area Class Drawing	123A90-DDL-SAF-DL-30022			**Serial No.**	24/86772				
Manufacturer	Cortem Spa			**Model**	LIFEX-ME-0645-BB				
Cert No.	CML 20 ATEX 3018X			**Equipment Ambient Temp.**	-60°C to +50°C				
Area Classification	hazardous	**Zone**	2	**Gas group**	IIC	**Temp class**	T1		
Equipment Protection Type	Ex db	**EPL**	Gb	**Gas group**	IIC	**Temp class**	T5	**IP Rating**	IP66

Detailed Note:

1) Inspection shall only be performed by competent personnel

2) All fields are to be completed. Any non-applicable field shall state “NA”. Comments are required for ‘Failure’ column ONLY.

3) An Inspection Sheet should be completed for EACH individual item of Equipment.

	General Equipment	Detailed	OK/NA/PL	Comments
1	Equipment is appropriate to the EPL / Zone requirements of the area	x	OK	
2	Equipment group is correct	x	OK	
3	Equipment temperature class is correct	x	OK	
4	Degree of IP protection of equipment is appropriate for the level of protection	x	OK	
5	Equipment circuit identification is correct	x	PL	
6	Equipment circuit identification is available	x	NA	
7	Enclosure glass parts and glass-to-metal sealing gaskets and / or compounds are satisfactory	x	OK	
8	There is no damage or unauthorized modifications	x	OK	
9	There is no evidence of unauthorized modifications	x	OK	
10	Bolts, cable entry devices (direct and indirect) & blanking elements are of the correct type, are complete & tight		OK	
	Physical check	x	OK	
11	Threaded covers on enclosures are of the correct type, are tight and secured		OK	
	Physical check	x	OK	
12	Joint surfaces are clean and undamaged and gaskets, if any, are satisfactory and positioned correctly	x	OK	
13	Condition of enclosure gaskets is satisfactory	x	OK	
14	There is no evidence or ingress of water or dust in the enclosure in accordance with the IP rating	x	OK	
15	Electrical connections are tight	x	OK	
16	Bridging links do not reduce creepage / clearance and are allowed	x	OK	
17	Unused terminals are tightened	x	OK	
18	Encapsulated components are undamaged	x	NA	
19	Flameproof components are undamaged	x	NA	
20	Fluorescent lamps are not indicating EOL effects (only for Ex “e” – Ex “n” – Ex “t”)	x	NA	
21	HID lamps are not indicating EOL effects	x	NA	
22	Lamp type, rating, pin configuration and position are correct	x	OK	
23	Breathing and drainage devices are satisfactory	x	NA	
24	Type of cable is appropriate	x	OK	
25	There is no obvious damage to the cables	x	OK	
26	Cable glands are the correct type and installed correctly	x	OK	
27	Sealing of trunking, ducts, pipes and or conduits is satisfactory	x	OK	
28	Stopping boxes and cable boxes are corrected filled	x	OK	

ITEM	Tag	ELF-200N1-02-L1-25	: NORMAL LIGHT			Dwg	123A90-DDL-EL-DL-20118
	S/Sys	83-40	: Normal Lighting Upper Deck			Module	UD
TASK	code	C10001676		Location	Onshore Activities	User	Rosetti Marino Quality Control
FORM	Process	MC	Activity CCK	Discipline	ATEX	Form	CJX01 Hazardous Area Equipment Detailed Inspection

29	Integrity of conduit system and interface with mixed system maintained	x	NA	
30	Earthing connections, including any supplementary earthing bonding connections are satisfactory (for example connections are tight and conductors are of sufficient cross-section		OK	
	Physical check	x	OK	
31	Automated electric protective devices operate within permitted limits	x	NA	
32	Special conditions (if applicable) have been complied with.	x	OK	
33	All cable cores are uniquely labeled	x	OK	
34	Cable cores not in use are correctly terminated	x	NA	
35	Equipment is adequately protected against corrosion, weather, vibration and other adverse factors	x	PL	
36	No undue accumulation of dust and dirt	x	OK	
37	All equipment housings are clean and dry	x	OK	
38	All moving parts are free and have no mechanical damage	x	NA	
	Applicable for Installation of Heating Systems			
39	Temperature sensors function according to manufacturer's documents (only applicable for Ex-d e Ex-e)	x	NA	
40	Safety cut off devices function according to manufacturer's documents (only applicable for Ex-d e Ex-e)	x	NA	
41	The setting of the safety cut off is sealed (only applicable for Ex-d e Ex-e)	x	NA	
42	Reset of a heating system safety cut off possible with tool only(only applicable for Ex-d e Ex-e)	x	NA	
43	Auto-reset is not possible (only applicable for Ex-d e Ex-e)	x	NA	
44	Reset of a safety cut off under fault conditions is prevented (only applicable for Ex-d e Ex-e)	x	NA	
45	Safety cut off independent from control system (only applicable for Ex-d e Ex-e)	x	NA	
46	Level switch is installed and correctly set, if required (only applicable for Ex-d e Ex-e)	x	NA	
47	Flow switch is installed and correctly set, if required (only applicable for Ex-d e Ex-e)	x	NA	
	Extra Ex d checks			
48	Obstructions adjacent to flame proof flanged joints are in accordance with IEC 60079-14	x	NA	
49	Ex d conduits seals are fitted to all conduits and satisfactorily sealed	x	NA	
50	Cable glands are of the correct type and installed correctly	x	OK	
51	Adaptors, reducers, stop ends, etc. are all certified Ex d	x	OK	
52	Flame path are clean and undamaged	x	OK	
53	Flange gap dimensions are within tolerances	x	NA	
54	Motor fans have sufficient clearance to the enclosure and/or covers, cooling systems are undamaged, motor foundations have no indentations or cracks	x	NA	
55	The ventilation airflow is not impeded	x	NA	
56	Insulation resistance (IR) of the motor windings is satisfactory	x	NA	
57	Fault loop impedance (TN systems) or earthing resistance (IT systems) is satisfactory	x	NA	
58	Variable voltage/frequency installation complies with documentation	x	NA	
	Extra Ex e checks			
59	All Equipment is Ex e certified (including components within enclosure)	x	NA	
60	Power conductors are not bunched together causing possible hot spots	x	NA	
61	Motor fans have sufficient clearance to the enclosure and/or covers, cooling systems are undamaged, motor foundations have no indentations or cracks	x	NA	
62	Insulation resistance (IR) of the motor windings is satisfactory	x	NA	
63	Fault loop impedance (TN systems) or earthing resistance (IT systems) is satisfactory	x	NA	
64	The ventilation airflow is not impeded	x	NA	
65	Motor protection devices operate within the permitted tE or tA time limits.	x	NA	
66	Variable voltage/frequency installation complies with documentation	x	NA	

ITEM	Tag	ELF-200N1-02-L1-25	: NORMAL LIGHT			Dwg	123A90-DDL-EL-DL-20118
	S/Sys	83-40	: Normal Lighting Upper Deck			Module	UD
TASK	code	C10001676		Location	Onshore Activities	User	Rosetti Marino Quality Control
FORM	Process	MC	Activity CCK	Discipline	ATEX	Form	CJX01
							Hazardous Area Equipment Detailed Inspection

Extra Ex n (nR, nL) checks				
67	All Terminals are Ex n certified (if required on certificate)	x	NA	
68	Hermetically sealed and enclosed break devices are undamaged	x	NA	
69	Restricted breathing properties satisfactory (conduct vacuum test)	x	NA	
70	Test port, if fitted, is functional (type “nR” only)	x	NA	
71	Breathing operation is satisfactory (type “nR” only)	x	NA	
72	Motor fans have sufficient clearance to the enclosure and/or covers, cooling systems are	x	NA	
73	The ventilation airflow is not impeded	x	NA	
74	Insulation resistance (IR) of the motor windings is satisfactory	x	NA	
75	Motor protection devices operate within the permitted tE or tA time limits.	x	NA	
76	Variable voltage/frequency installation complies with documentation	x	NA	
Extra Ex p checks				
77	Pressurization gas is correct type	x	NA	
78	Actual pressure is within maximum and minimum settings for equipment	x	NA	
79	Timers set as per certification documentation	x	NA	
80	Alarms and trip functions operate correctly as per certification documentation	x	NA	
81	Fault loop impedance (TN systems) or earthing resistance (IT systems) is satisfactory	x	NA	
82	Automatic electrical protective devices operate within permitted limits	x	NA	
83	Automatic electrical protective devices are set correctly	x	NA	
84	Protective gas inlet temperature is below maximum specified	x	NA	
85	Ducts, pipes and enclosures are in good condition	x	NA	
86	Protective gas is substantially free from contaminants	x	NA	
87	Protective gas pressure and/or flow is adequate	x	NA	
88	Pressure and/or flow indicators, alarms and interlocks function correctly	x	NA	
89	Conditions of spark and particle barriers of ducts for exhausting the gas in hazardous area are satisfactory	x	NA	
90	Specific conditions of use (if applicable) are complied with		NA	
Extra Ex i (Intrinsically Safe – IS) checks				
91	Equipment has adequate circuit identification for ‘IS’ Installation	x	NA	
92	Cables are installed in accordance with the documentation	x	NA	
93	Segregation is maintained between IS and non-IS Circuits	x	NA	
94	Cable screens are isolated at one end (field side)	x	NA	
95	Cable screens are earthed in accordance with the documentation	x	NA	
96	Safety barrier units, relays and other energy limiting devices are of the approved type, installed in	x	NA	
97	Equipment installed is the one specified in the documentation	x	NA	
98	Ambient temperature range of the apparatus is correct for the installation	x	NA	
99	Service temperature range of the apparatus is correct for the installation	x	NA	
100	Installation is clearly labelled	x	NA	
101	Printed circuit boards are clean and undamaged	x	NA	
102	The maximum voltage Um of the associated apparatus is not exceeded	x	NA	
103	Point-to-point connections are all correct	x	NA	
104	Earth continuity is satisfactory (e.g. connections are tight, conductors are of sufficient cross-section)	x	NA	
105	Earth connections maintain the integrity of the type of protection	x	NA	
106	Intrinsically safe circuit earthing is satisfactory	x	NA	
107	Insulation resistance is satisfactory	x	NA	
108	Short-circuit protection of the power supply is in accordance with the documentation	x	NA	

	BARRIER:	**Manufacturer:**	NA	**Model:**	NA		
		Authority:	NA	**Cert No:**	NA	**Type:**	NA

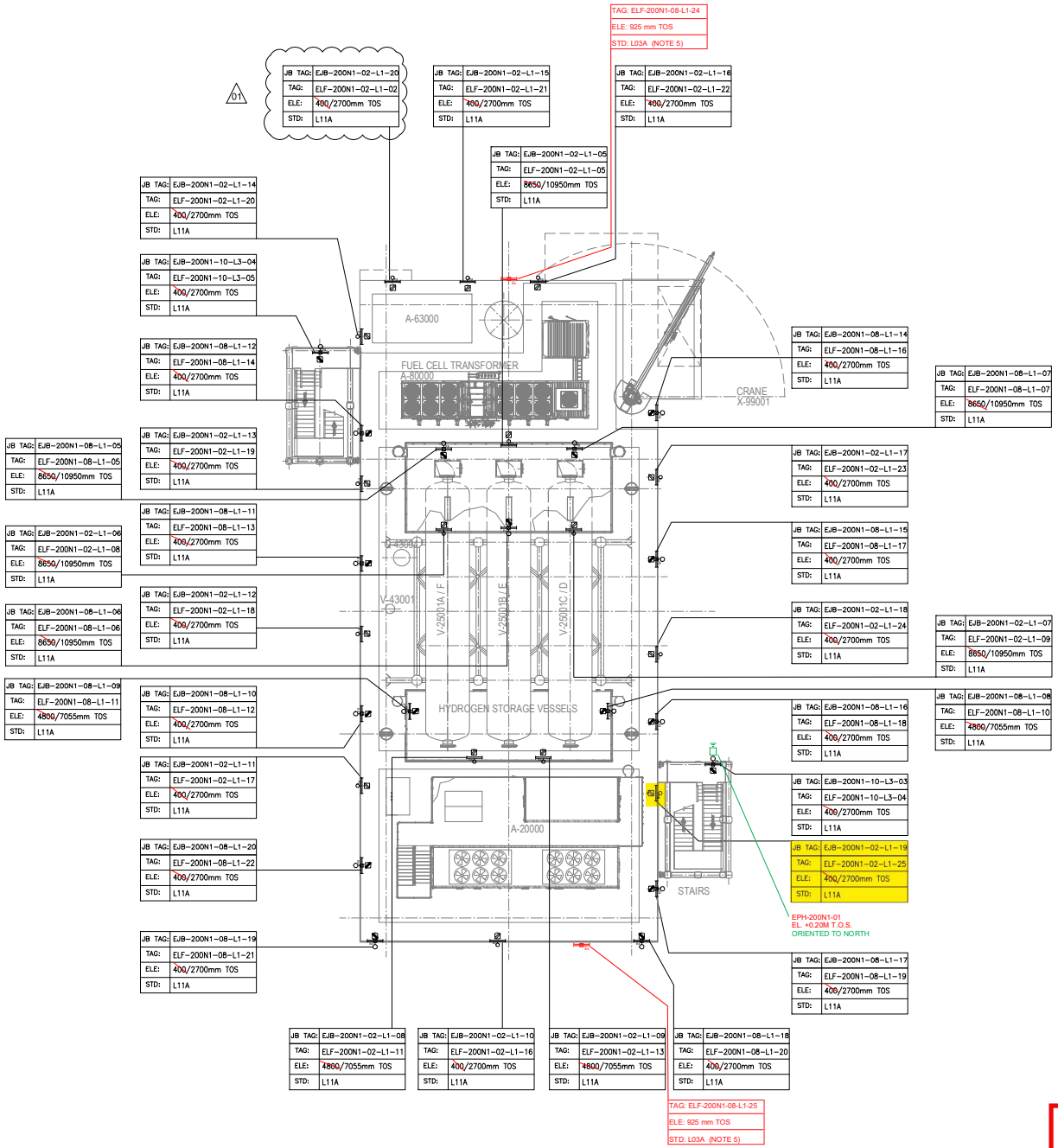
Remarks: Initial inspection should be detailed and carried out before equipment is brought into service as per IEC 60079-17

Please mark only one box as appropriate	
●	**Passed - Complete**
	Failed

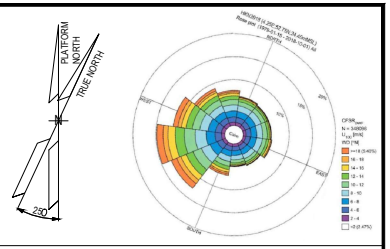
Page 3/3	Performed by	☐ WITNESS ☐ REVIEW	☐ WITNESS ☐ REVIEW
Company	ICS IMPIANTI	RM (ROSETTI MARINO)	
Name	Francesco Zucca	Andrea Andreani	
Date	2024-12-11	2024-12-14	
Signature	PROVERLIS Digitaly signed by Francesco Zucca 2024-12-11T15:28:54.973Z	PROVERLIS Digitaly signed by Andrea Andreani 2024-12-14T13:06:03.250Z	

DRAWING NO. 123A90-DDL-EL-DL-20118

REV. 01



PLAN ON UPPER DECK
EL+30.310 T.O.S.



NOTES

1. ALL DIMENSIONS AND ELEVATIONS ARE GIVEN IN mm UNLESS OTHERWISE NOTED.
2. ELEVATIONS REFER TO T.O.S.
3. ELEVATION OF THE LAMPS ARE REFFERED TO THE BOTTOM OF THE LAMP.
4. FOR THE ELEVATION OF JB, REFER TO THE TYPICAL INSTALLATION.
5. FOR ELF-200N1-08-L1-24 AND ELF-200N1-08-L1-25 CONSTRUCTION DETAILS REFER TO DOC. 123A90-DDL-ST-DD-90076

LEGEND

- EMERGENCY LIGHTING JB
- 60W LED EMERGENCY LUMINARIES
- 60W LED EMERGENCY LUMINARIES FIXTURE POLE MOUNTED
- NORMAL LIGHTING JB
- 45W LED NORMAL LUMINARIES
- 45W LED NORMAL LUMINARIES FIXTURE POLE MOUNTED
- WELDING SOCKET WITH INTEGRATED JB
- SMALL POWER SOCKET WITH INTEGRATED JB
- TWILIGHT RELAY SENSOR

JB TAG: — JB-TAG
TAG: — TAG
ELE: — ELEVATION
STD: — STANDARD

REFERENCE DOCUMENTS

123A90-DDL-PP-DL-70070	PLOT PLAN - LOWER & UPPER DECK
123A90-DDL-EL-DL-20100	ELECTRICAL EQUIPMENT LAYOUT - TOP DECK
123A90-DDL-EL-DD-20091	ELECTRICAL TYPICAL INSTALLATION DETAILS - LIGHTING SYSTEM
123A90-DDL-EL-DD-20092	ELECTRICAL TYPICAL INSTALLATION DETAILS - POWER SYSTEM & CABLE INSTALLATION
123A90-DDL-EL-RE-20153	LIGHTING CALCULATION STUDY REPORT
123A90-DDL-ST-DD-90076	IDENTIFICATION PANELS ASSEMBLY AND DETAILS

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	02/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	28/05/24	ASR	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DL-20118**

REV.:	DATE:	SIGNATURE:
1_F	26/11/24	G.Randi

ROSETTI MARINO SpA

CROSSWIND

ROSETTI MARINO

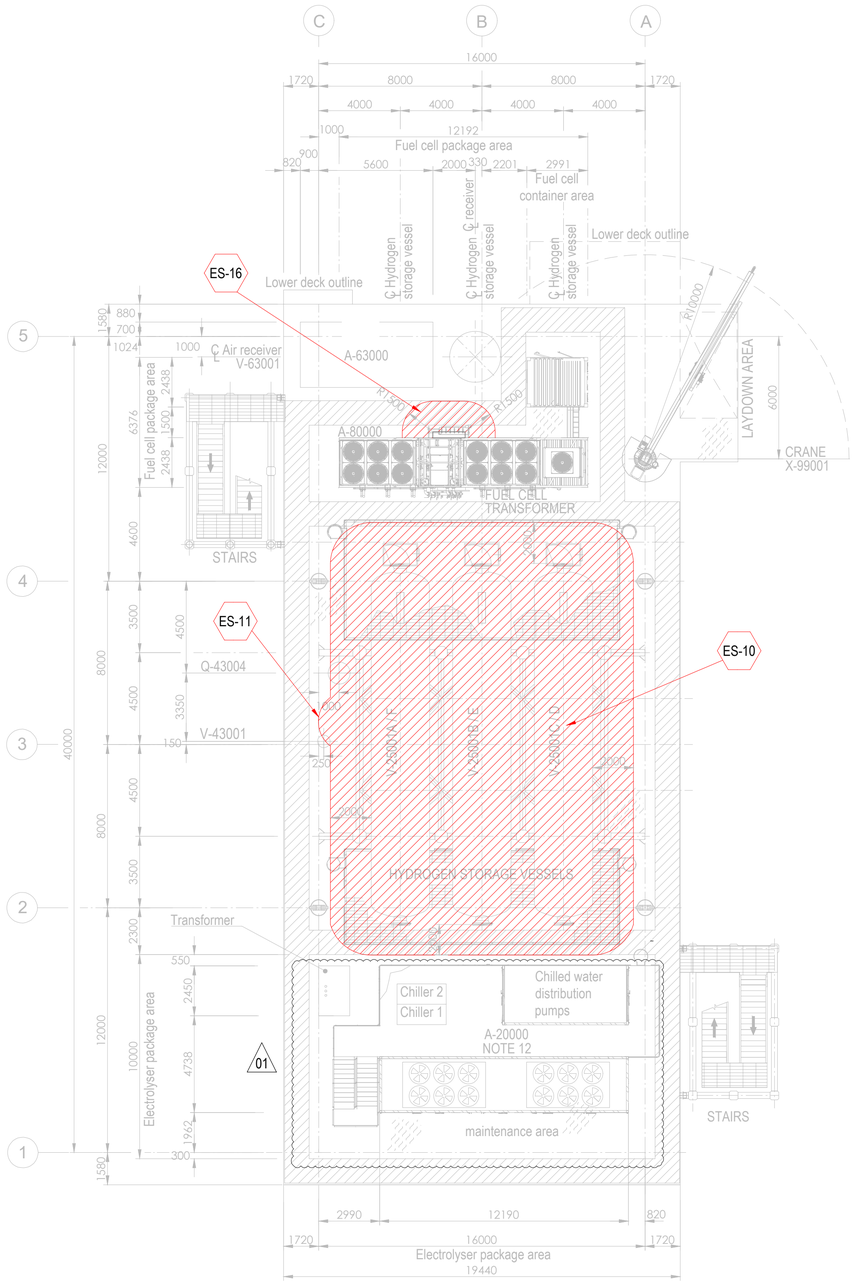
TITLE : BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET LAYOUT – TOP DECK

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK			SCALE 1:150
DRAWN ASR	CHECKED FMA/AMA	APPROVED FPA/DLO	DATE 01/08/24
A1	DRAWING NO. 123A90-DDL-EL-DL-20118	SHEET 1of2	REV. 01

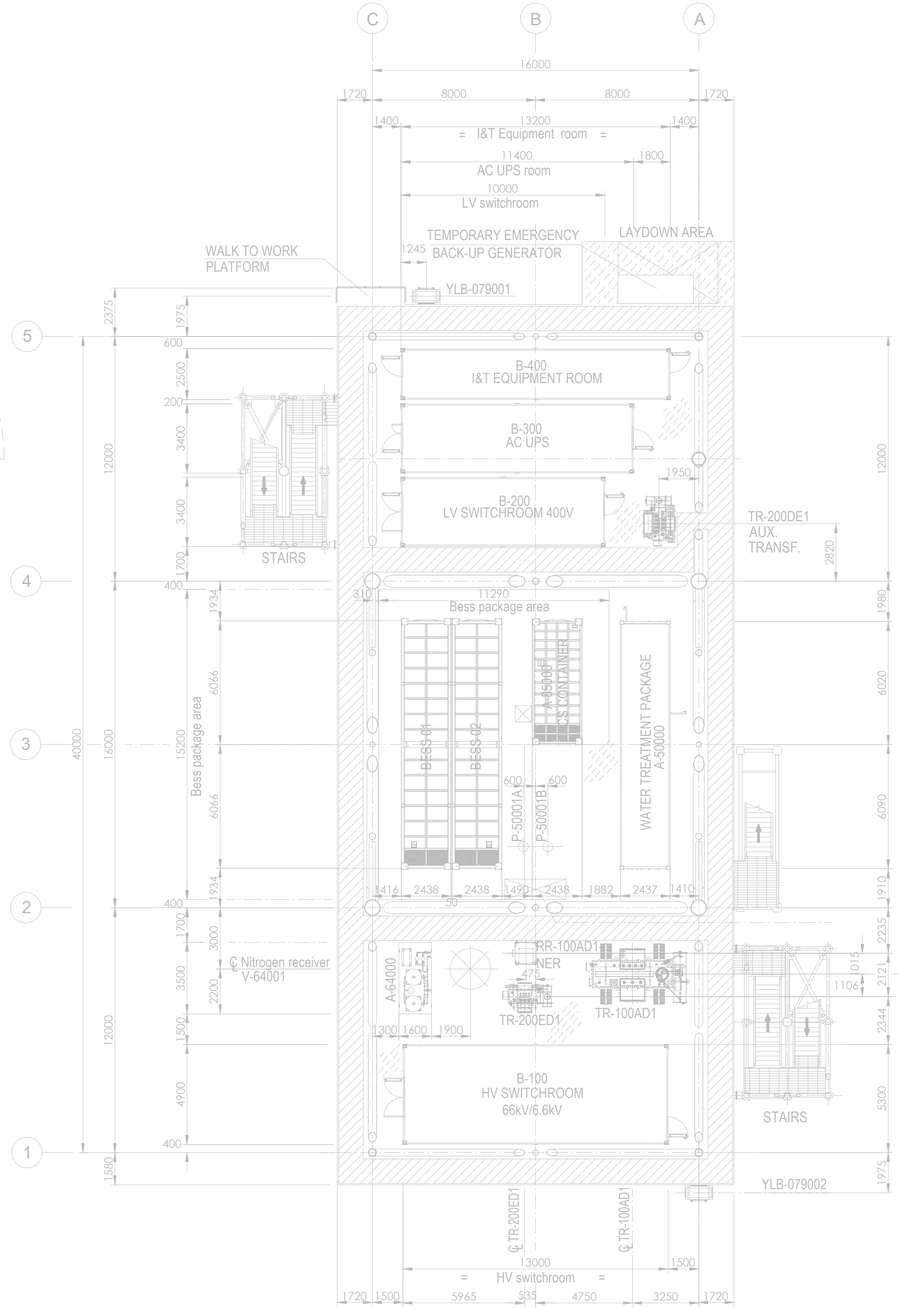
File Name : 123A90-DDL-EL-DL-20118

DRAWING NO. 123A90-DDL-SAF-DL-30022

REV. 01



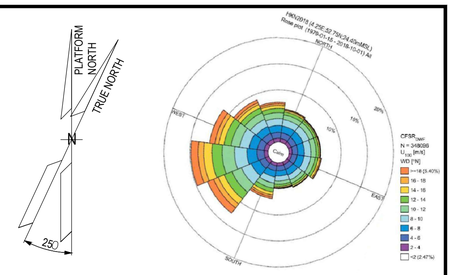
PLAN ON UPPER DECK
EL+30.310 T.O.S.



PLAN ON LOWER DECK
EL+23.310 T.O.S.

Tag No.	Equipment Tag	Description	Material	Ventilation Type
01	P-50001 A/B	SEA WATER LIFT PUMPS	SEA WATER	NATURAL (OPEN AREA)
02	Q-43004	HYDROGEN VENT	HYDROGEN	NATURAL (OPEN AREA)
03	V-43001	HYDROGEN VENT KO DRUM	HYDROGEN	NATURAL (OPEN AREA)
04	V-25001 (A/B/C/D/E/F)	HYDROGEN STORAGE VESSELS	HYDROGEN	NATURAL (OPEN AREA)
05	V-63001	AIR RECEIVER	INSTRUMENT AIR	NATURAL (OPEN AREA)
06	A-20000	ELECTROLYSER PACKAGE		
07	A-63000	INSTRUMENT AIR PACKAGE		
08	A-80000	FUEL CELL PACKAGE		
09	A-85000	BESS PACKAGE		
10	YLB-079001/2	LIFE RAFTS		
11	A-50000	WATER TREATMENT PACKAGE		

Tag No.	Equipment Tag	Description	Material	Ventilation Type
12	A-64000	NITROGEN SYSTEM		
13	B-100	HV SWITCHROOM 66kV/6.6kV		
14	B-200	LV SWITCHROOM 400V		
15	B-300	AC UPS EQUIPMENT ROOM		
16	B-400	I&T EQUIPMENT ROOM		
17	TR-100AD1	TRANSFORMER MAIN 66kV/6.6kV		
18	RR-100AD1-NER	NEUTRAL EARTHING RESISTOR		
19	TR-200DE1	TRANSFORMER AUX. 6.6kV/0.4kV		
20	TR-200ED1	SOLAR TRANSFORMER PV FARM EQUIPMENT		
21	X-99001	CRANE		
22	V-64001	NITROGEN RECEIVER		



1. ALL DIMENSIONS IN mm U.N.O
2. ALL ELEVATIONS IN METERS.
3. PLATFORM NORTH DIRECTION IS N 25°W.
4. VENT TOP SHALL BE REACHEABLE FOR MAINTENANCE PURPOSE.
5. THE BESS IS CONSIDERED SAFE AREA EXCEPT EXTRACTORES FROM BATTERIES , CURRENTLY NOT SHOWN IN DRAWINGS, SINCE INFORMATION FROM VENDOR IS NOT YET AVAILABLE.[ES17]
6. THE LOCATION OF EMISSION SOURCES ON THE LAYOUT ARE ONLY INDICATIVE. EMISSION SOURCES CONSIDERED ARE PRESENT WITHIN THE EXTENSION OF HAZARDOUS CLASSIFIED AREAS SHOWN ON THE LAYOUT. THIS IS BECAUSE VALVES AND FLANGES,WHICH ARE CONSIDERED POTENTIAL SOURCES OF RELEASE POINTS FOR FLAMMABLE GAS ARE NOT SHOWN ON CURRENT LAYOUT PROVIDED. THE SAME APPLIES TO THE EMISSION SOURCES FOR CPI'S ITEM.
7. IDENTIFIED EMISSION SOURCES DETAIL

EMISSION SOURCE No.	IDENTIFIED AREAS
ES10	HYDROGEN STORAGE VESSLES
ES11	HYDROGEN VENT KO DRUM
ES16	FUEL CELL

01

ZONE 0 | ZONE 1 | ZONE 2 | ES EMISSION SOURCES

01

01

123A90-DDL-PP-DS-70071	PLOT PLAN - BELOW LOWER DECK
123A90-DDL-PP-DS-70072	PLOT PLAN - ELEVATION LOOKING NORTH & EAST

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	27/08/24	MMA	CCA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	08/02/24	MMA	CCA	DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND

ROSETTI MARINO

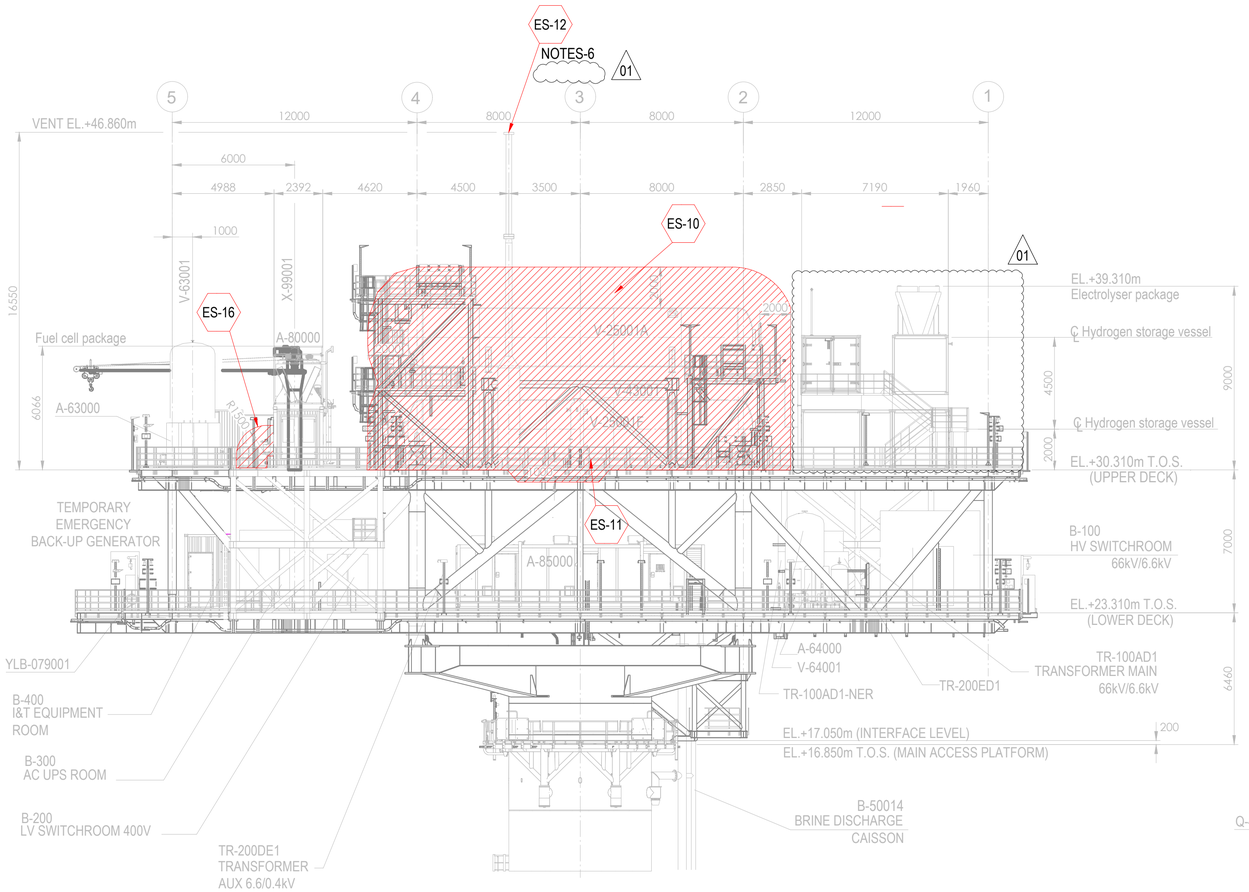
TITLE : BASE LOAD POWER HUB (BLPH)
HAZARDOUS AREA CLASSIFICATION
LOWER & UPPER DECK

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK		SCALE 1:150
DRAWN M. MAGNI	CHECKED C. CARACCIOLO	APPROVED D. LO STERZO	DATE 03/07/24
A1	DRAWING NO. 123A90-DDL-SAF-DL-30022	SHEET 001	REV. 01

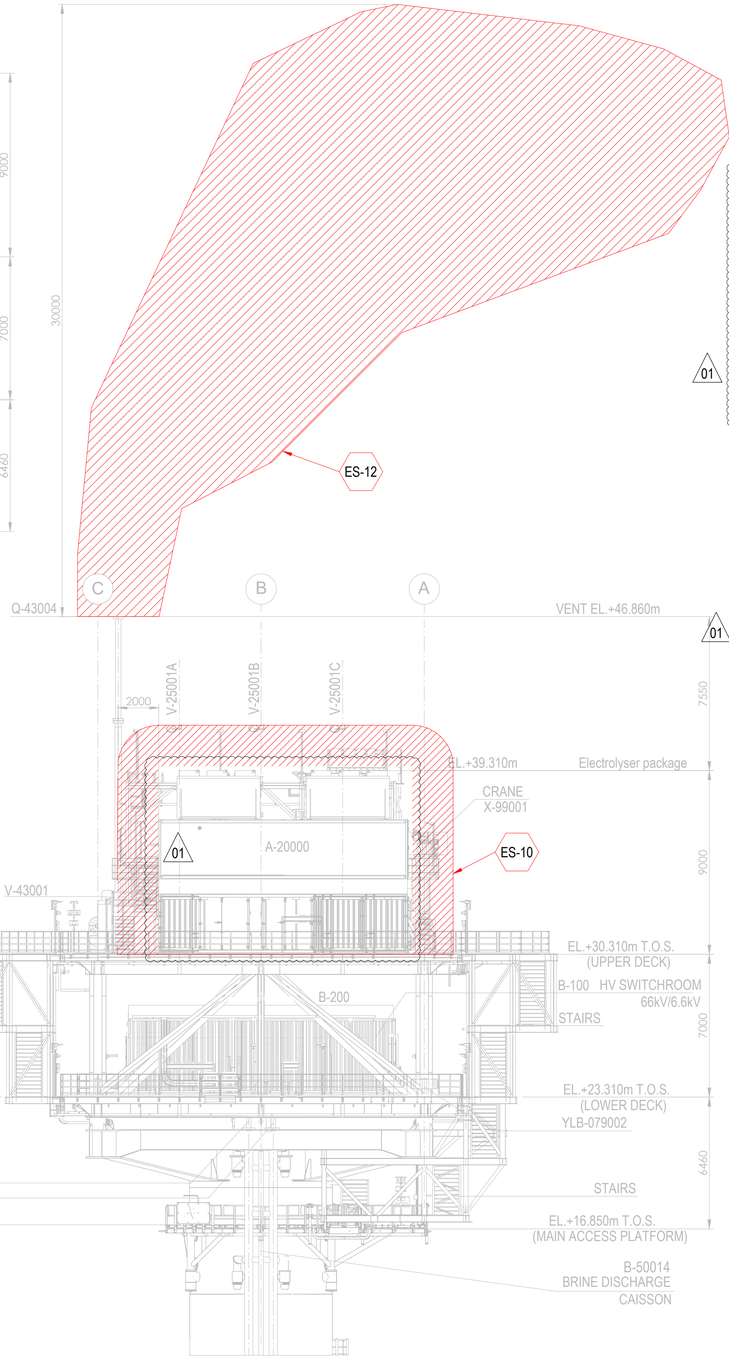
File Name : 123A90-DDL-SAF-DL-30022 Rev.01

DRAWING NO. 123A90-DDL-SAF-DL-30024

REV. 01



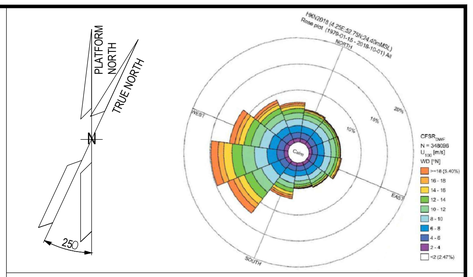
ELEVATION LOOKING EAST



ELEVATION LOOKING NORTH

01

Tag No.	Equipment Tag	Description	Material	Ventilation Type
01	P-50001 A/B	SEA WATER LIFT PUMPS	SEA WATER	NATURAL (OPEN AREA)
02	Q-43004	HYDROGEN VENT	HYDROGEN	NATURAL (OPEN AREA)
03	V-43001	HYDROGEN VENT KO DRUM	HYDROGEN	NATURAL (OPEN AREA)
04	V-25001 (A/B/C/D/E/F)	HYDROGEN STORAGE VESSELS	HYDROGEN	NATURAL (OPEN AREA)
05	V-63001	INSTRUMENT AIR RECEIVER	INSTRUMENT AIR	NATURAL (OPEN AREA)
06	A-20000	ELECTROLYSER PACKAGE		
07	A-63000	INSTRUMENT AIR PACKAGE		
08	A-80000	FUEL CELL PACKAGE		
09	A-85000	BESS PACKAGE		
10	YLB-079001/2	LIFE RAFTS		
11	B-100	HV SWITCHROOM 66kV/6.6kV		
12	B-200	LV SWITCHROOM 400V		
13	B-300	AC UPS EQUIPMENT ROOM		
14	B-400	I&T EQUIPMENT ROOM		
15	TR-100AD1	TRANSFORMER MAIN 66kV/6.6kV		
16	TR-100AD1-NER	NEUTRAL EARTHING RESISTOR		
17	TR-200DE1	TRANSFORMER AUX. 6.6kV/0.4kV		
18	TR-200ED1	SOLAR TRANSFORMER PV FARM EQUIPMENT		
19	X-99001	CRANE		
20	V-64001	NITROGEN RECEIVER		



NOTES

1. ALL DIMENSIONS IN mm U.N.O
2. ALL ELEVATIONS IN METERS.
3. PLATFORM NORTH DIRECTION IS N 25°W.
4. VENT TOP SHALL BE REACHEABLE FOR MAINTENANCE PURPOSE.
5. THE BESS IS CONSIDERED SAFE AREA EXCEPT EXTRACTORES FROM BATTERIES , CURRENTLY NOT SHOWN IN DRAWINGS, SINCE INFORMATION FROM VENDOR IS NOT YET AVAILABLE.[ES17]
6. (ES12) IS SHOWN ONLY ON ELEVATION LOOKING NORTH ON THIS LAYOUT
7. THE LOCATION OF EMISSION SOURCES ON THE LAYOUT ARE ONLY INDICATIVE. EMISSION SOURCES CONSIDERED ARE PRESENT WITHIN THE EXTENSION OF HAZARDOUS CLASSIFIED AREAS SHOWN ON THE LAYOUT. THIS IS BECAUSE VALVES AND FLANGES,WHICH ARE CONSIDERED POTENTIAL SOURCES OF RELEASE POINTS FOR FLAMMABLE GAS ARE NOT SHOWN ON CURRENT LAYOUT PROVIDED. THE SAME APPLIES TO THE EMISSION SOURCES FOR CPI'S ITEM.
8. IDENTIFIED EMISSION SOURCES DETAIL

EMISSION SOURCE No.	IDENTIFIED AREAS
ES10	HYDROGEN STORAGE VESSLES
ES11	HYDROGEN VENT KO DRUM
ES12	HYDROGEN VENT
ES16	FUEL CELL

01

LEGEND

ZONE 0 | ZONE 1 | ZONE 2 | ES EMISSION SOURCES

01

REFERENCE DOCUMENTS

123A90-DDL-PP-DS-70070	PLOT PLAN - LOWER & UPPER DECK
123A90-DDL-PP-DS-70071	PLOT PLAN - BELOW LOWER DECK

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	27/08/24	MMA	CCA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	08/02/24	MMA	CCA	DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND | ROSETTI MARINO

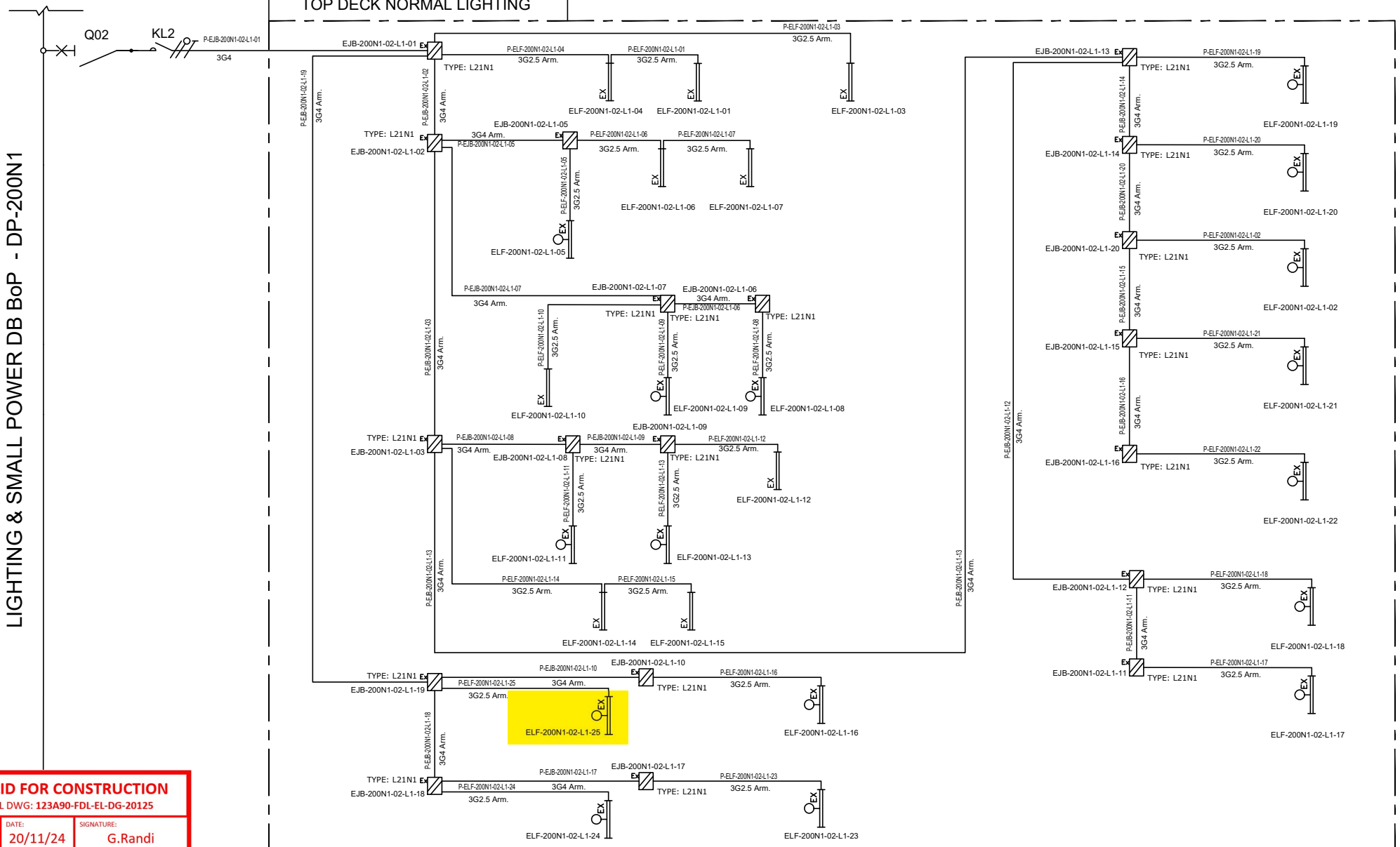
TITLE :
BASE LOAD POWER HUB (BLPH)
HAZARDOUS AREA CLASSIFICATION
ELEVATION LOOKING NORTH & EAST

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK			SCALE 1:150
DRAWN M. MAGNI	CHECKED C. CARACCIOLO	APPROVED D. LO STERZO	DATE 03/07/24

A1	DRAWING NO. 123A90-DDL-SAF-DL-30024	SHEET 001	REV. 01

File Name : 123A90-DDL-SAF-DL-30024 Rev.01

LIGHTING & SMALL POWER DB BoP - DP-200N1



VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DG-20125**

REV.:	DATE:	SIGNATURE:
2_B	20/11/24	G.Randi

ROSETTI MARINO SpA

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	08/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	01/07/24	ASR	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

TITLE : BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET CIRCUIT DIAGRAM
TOP DECK–NORMAL LIGHTING

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE : NTS

A3

DRAWING NO. 123A90–DDL–EL–DG–20125

SHEET 010

REV. 01

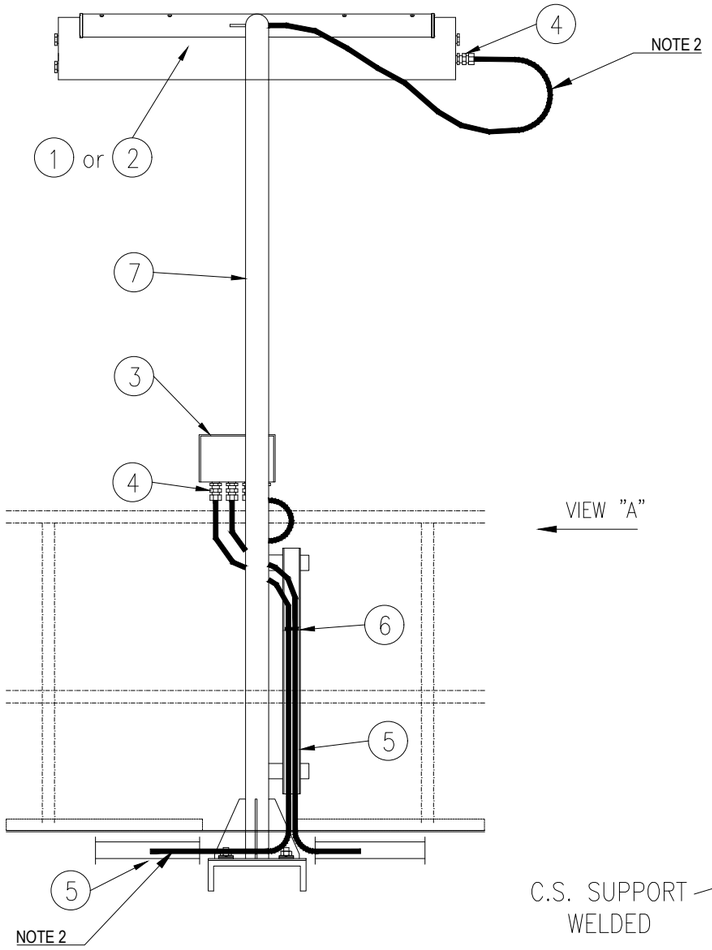
CROSSWIND

ROSETTI MARINO

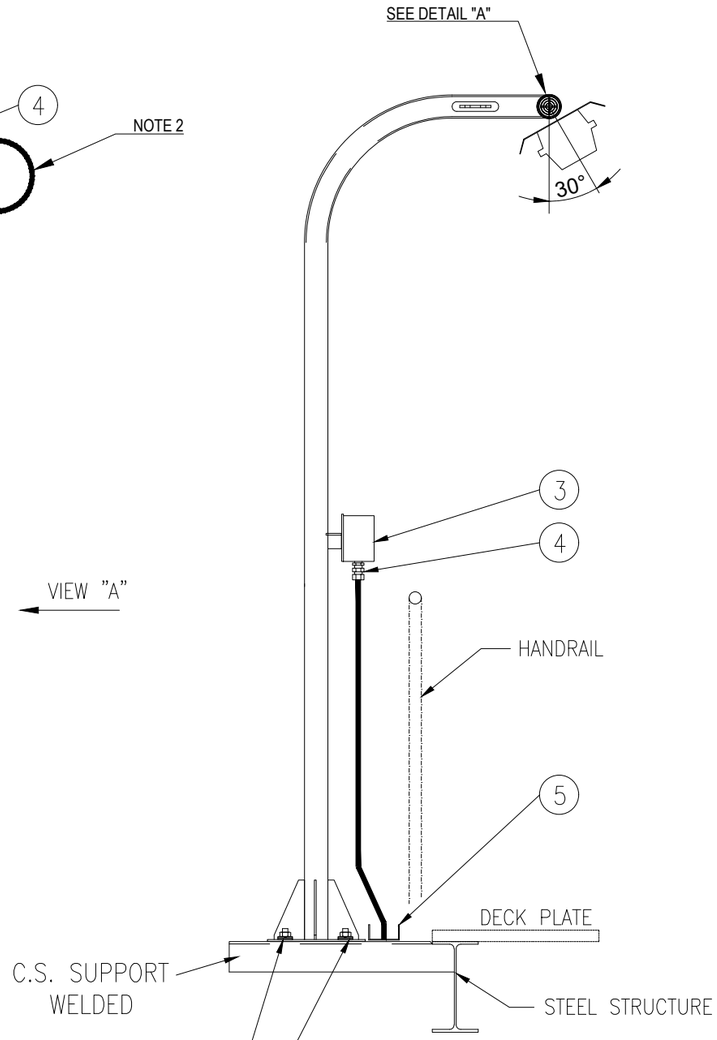
F.to UNI A3: 420mmx297mm

File Name : 123A90–DDL–EL–DG–20125

L11A

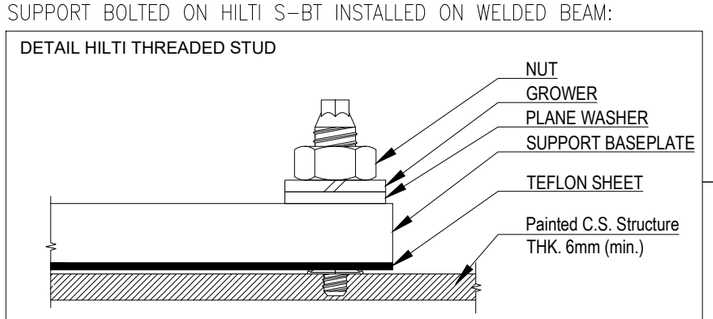


VIEW "A"

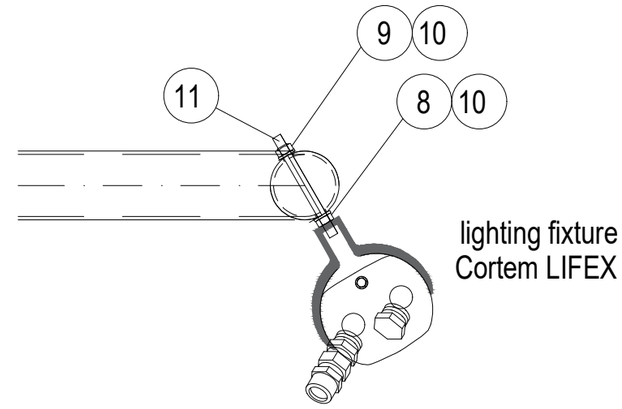


VIEW "A"

SUPPORT BOLTED ON HILTI S-BT INSTALLED ON WELDED BEAM:



POS.	DESCRIPTION	MATERIAL	SIZE	Q.TY	NOTE
1	42W LED LUMINARIES	ALUMINIUM ALLOY		1	
2	45W LED LUMINARIES C/W BATTERY	ALUMINIUM ALLOY		1	
3	JUNCTION BOX (Ex)	GRP		1	NOTE 1
4	CABLE GLAND C/W EARTH TAG, WASHERS, LOCKNUT AND WEATHERPROOF WASHERS	BRASS NICKEL PLATED		AS REQ.	
5	CABLE TRAY	AISI 316L			
6	STAINLESS STEEL NYLON COATED CABLE TIE	SS NYLON COATED			
7	POLE SUPPORT FOR LAMP	AISI 316L	2"		
8	NUT	AISI 316L	M8		
9	SELF.LOCKING NUT	AISI 316L	M8		
10	LARGE PLANE WASHER (24mm DIAM.)	AISI 316L	M8		
11	THREADED ROD M8x100	AISI 316L	M8		



DETAIL "A"

NOTES:

1) FOR LAMPS IN HAZARDOUS AREA, USE ARMOURED CABLE, DOUBLE SEAL CABLE GLAND AND EX JUNCTION BOX.

2) ALWAYS ENSURE CABLE LENGTH IS >3m

VALID FOR CONSTRUCTION
FDL DWG: 123A90-FDL-EL-DD-20091
REV.: 2_A | DATE: 30/09/24 | SIGNATURE: G.Randi
ROSETTI MARINO SpA

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	30/09/24	GRA	AMA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	04/07/24	NLK	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	21/11/23	SPS	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

02

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL TYPICAL INSTALLATION DETAILS-LIGHTING SYSTEM
LIGHTING FIXTURE MOUNTED ON POLE

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK | SCALE : NTS

A3 | DRAWING NO. 123A90-DDL-EL-DD-20091 | SHEET 014 | REV. 02

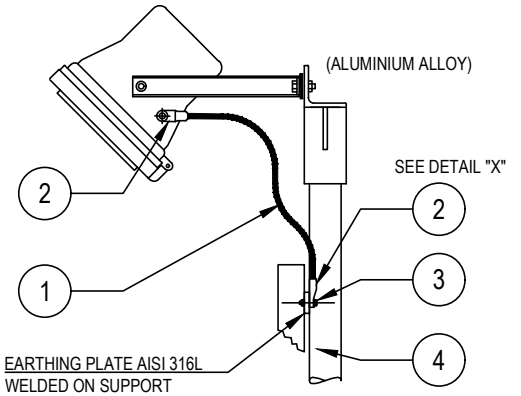
F.to UNI A3: 420mmx297mm

File Name : 123A90-DDL-EL-DD-20091 REV.02.DWG

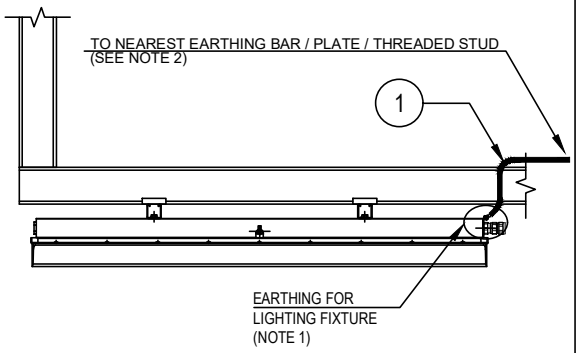
E05

POS.	DESCRIPTION	MATERIAL	SIZE	Q.TY	NOTE
1	Y/G INSULATING COPPER CONDUCTOR	COPPER	$6mm^2$		
2	COMPRESSION TYPE LUG FOR INSULATION COPPER CONDUCTOR	TINNED COPPER	$6mm^2$	2	
3	HEXAG. BOLTS, PLANE WASHERS, SPRING WASHER AND NUT	AISI 316L	M8X30	1	

LIGHTING FIXTURE/GENERAL ITEM ON POLE

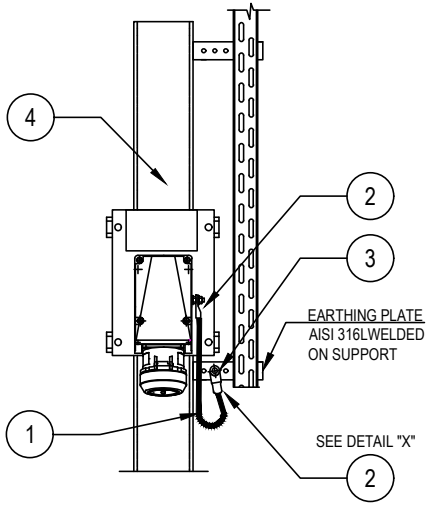


LIGHTING FIXTURES

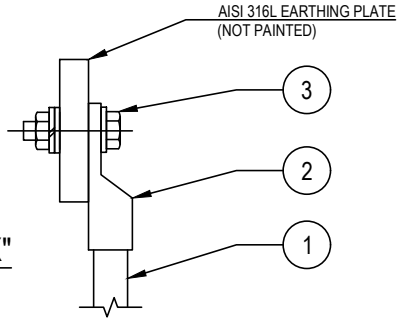


Refer also to TYP. "E32" (SEE SHEET 23)

POWER SOCKET OUTLET



DETAIL "X"



TYPICAL VALID ALSO FOR NAVAID LIGHTS

NOTES:

1) ALL LIGHTING FIXTURES AND RELEVANT ARMOUR OF THE CABLE, ARE CONNECTED TO EARTH CONNECTION THROUGH THE EARTHING TAG OF THE CABLE GLAND

2) FOR EARTHING POINT USE ONE OF THE FOLLOWING METHODS:
TYP. E03A-D sh. 004 (EARTHING BAR ON STRUCT. UNISTRUT AND CABLE TRAY)
TYP. E11C sh. 003 (EARTHING PLATE)
TYP. E11D sh. 003 (THREADED STUD ON EXTERNAL STRUCTURE)

VALID FOR CONSTRUCTION
FDL DWG: 123A90-FDL-EL-DD-20090
REV.: 2_I | DATE: 07/11/24 | SIGNATURE: G.Randi
ROSETTI MARINO SpA

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	26/08/24	GRA	AMA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	10/06/24	SPS	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	21/11/23	SPS	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL TYPICAL INSTALLATION DETAILS–EARTHING SYSTEM
EARTHING FOR ELECTRICAL EQUIPMENTS

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK | SCALE : NTS

A3 | DRAWING NO. 123A90–DDL–EL–DD–20090 | SHEET 006 | REV. 02

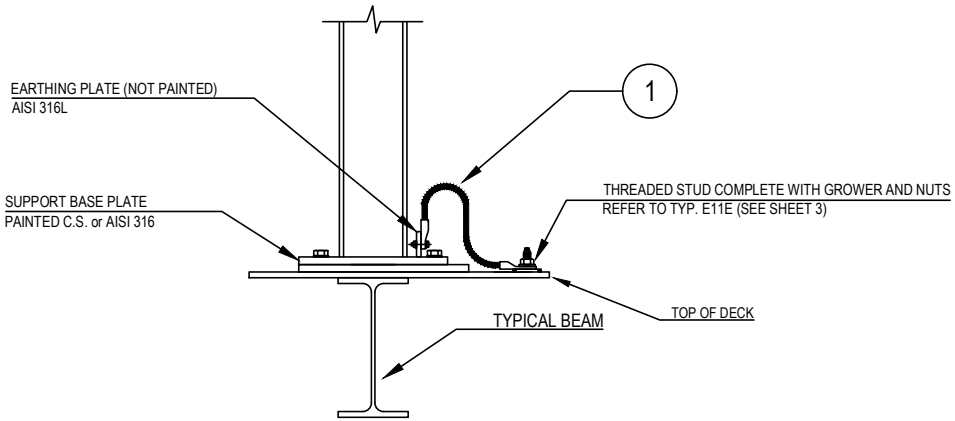
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File Name : 123A90-DDL-EL-DD-20090 REV.02.DWG

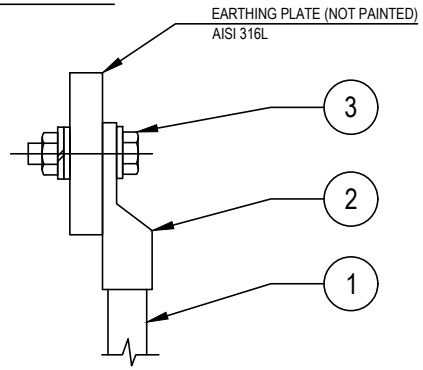
E24

POS.	DESCRIPTION	MATERIAL	SIZE	Q.TY	NOTE
1	As. R. Y/G INSULATING COPPER CONDUCTOR	COPPER	35mm^2		
2	COMPRESSION TYPE LUG FOR INSULATION COPPER CONDUCTOR	TINNED COPPER	35mm^2	2	~~NOTE 1~~
3	HEXAG. BOLT M10X30 COMPLETE WITH PLANE WASHERS, SPRING WASHER AND NUT	AISI 316L	M10X30	2	

GENERIC SUPPORT BOLTED ON STRUCTURE



DETAIL "X"



NOTES:
1) ~~CABLE LUG CRIMPING METHOD SHALL BE HEXAGONAL COMPRESSION DIES ONLY~~
2) EXTERNAL EARTHING CONNECTION ONLY SHALL BE PROTECTED AGAINST CORROSION USING OXIDE RESISTANT COMPOUND (E.G. COPPER GREASE)

VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DD-20090**
REV.: 2_I | DATE: 07/11/24 | SIGNATURE: G.Randi
ROSETTI MARINO SpA

CROSSWIND

ROSETTI MARINO

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	26/08/24	GRA	AMA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	10/06/24	SPS	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	21/11/23	SPS	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL TYPICAL INSTALLATION DETAILS–EARTHING SYSTEM
EARTHING FOR POLE/SUPPORT OF GENERIC EQUIPMENTS

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK | SCALE : NTS

A3	DRAWING NO.	SHEET	REV.
	123A90-DDL-EL-DD-20090	012	02

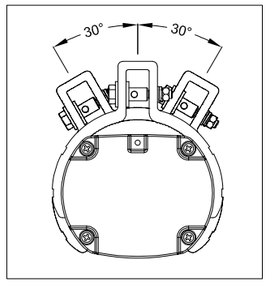
F.to UNI A3: 420mmx297mm

File Name : 123A90-DDL-EL-DD-20090 REV.02.DWG

MODEL C-225 REV.1

GENERAL NOTE:
- PO: 1724001290 DD 26/06/2024
- ITEM.: 1
- Q.TY: 57
- EXTERNAL PAINTING: RAL 7022 (END CAPS)
- INTERNAL PAINTING: NOT PAINTED
- ALL DIMENSIONS ARE IN mm

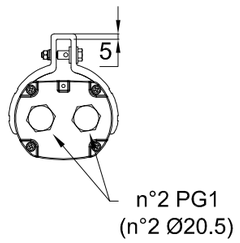
STANDARD FIXING BRACKET
FASTENING WITH 2 THREADED M8
HOLES, ADJUSTABLE FROM 0° TO ±30°



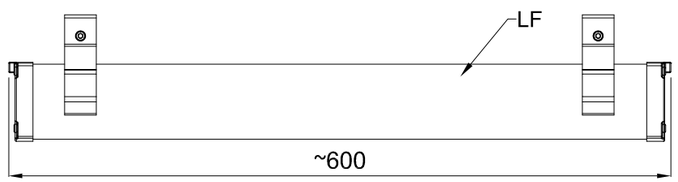
LF INFORMATION	
NOMINAL POWER	45W
CONSUMED POWER	43,5W
POWER FACTOR	>0,93
RATED CURRENT	200 mA
VIEWING ANGLE	120°
COLOUR TEMP.	5000 K
CRI	>80
INSTANT RESTRIKE	YES
LUMEN	6200 lm
LIGHT INTENSITY	2248 cd
EFFICIENCY	143 lm/W
WEIGHT	2,5 Kg
IP PROTECTION	IP66

N°	Q.TY	CODE	DESCRIPTION
LF	1	LIFEX-ME-0645-BB	110-277Vac 50-60Hz 45W LED LINEAR LIGHTING FIXTURE BODY: ALUMINUM ALLOY EXTRUSION AND ALUMINUM END CAPS TRANSPARENT PART: GLASS RESISTANT TO SHOCKS, UV RAYS AND IMPACT RESISTANCE IK09 GASKETS: ACID AND HYDROCARBON RESISTANT SILICONE ASSEMBLY: FASTENING BRACKETS FOR M8 HOLES, ADJUSTABLE 0° TO ±30° MADE IN ANODIZED ALUMINUM CONNECTION: TERMINAL BLOCK ON SIDE (IN) L, N, PE CROSS SEC. MAX. 4mmq SUITABLE FOR LOOP-IN LOOP-OUT SCREWS, BOLTS AND NUTS: STAINLESS STEEL 304
PG1	4	PLG1IB +DL1IB +RDI1IS/A4	IP66 Ex db IIC Gb - Ex eb IIC Gb NICKEL PLATED BRASS PLUG ISO M20x1,5 WITH RELEVANT LOCKNUT AND SERRATED WASHER MADE IN STAINLESS STEEL

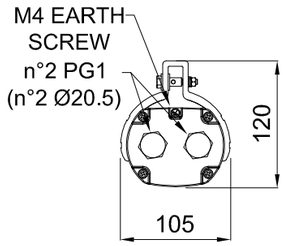
LEFT SIDE (OUT)



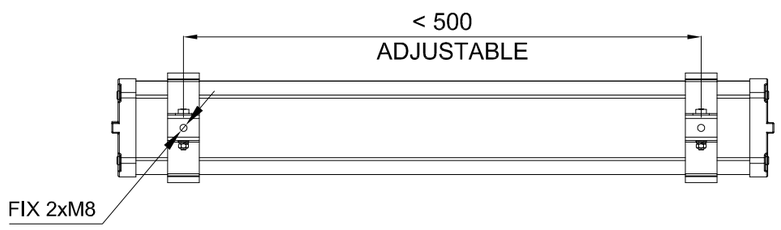
FRONT SIDE



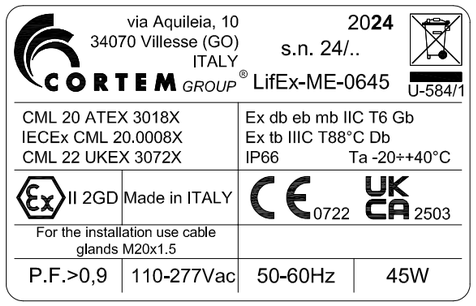
RIGHT SIDE (IN)



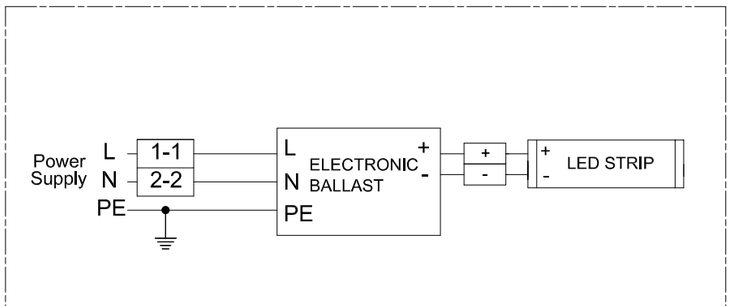
TOP SIDE



CERTIFICATE NAMEPLATE



WIRING DIAGRAM



REV.	DATE	PREP'D	CHK'D	APP'D	DESCRIPTION
2	09/07/2024	FRATTARUOLO	GIUSTI	GRATTON	REISSUED FOR APPROVAL
1	05/07/2024	FRATTARUOLO	GIUSTI	GRATTON	REISSUED FOR APPROVAL
0	28/06/2024	FRATTARUOLO	GIUSTI	GRATTON	ISSUED FOR APPROVAL

DRAWING TITLE: ROSETTI MARINO S.P.A.

CORTEM S.p.a.
GENERAL LAYOUT
001 LIFEX-ME-0645-BB/C2402693/10.

CORTEM JOB: COV2402693
DRAWING SCALE: /
DRAWING NUMBER: A3-C 27521
SHEET: 1
NEXT: 2
TOT.: 2

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AUTHORIZATION

Smart Professional R. 2012

Row	Item	Required	Manufacturer Proposal	Comments	Rev.
1	Data Sheet for Lighting Fixtures & Accessories				
2	42W LED Linear Luminaire-Normal Lighting-ATEX Area				
3	Model Number	by vendor	LIFEX-ME-0645-BB		01
4	Serial Number	by vendor			00
5	Quantity	28 Nos.		(25+3 Spare)	01
6	Location / Module	Upper deck			00
7	**LED Lamp**				
8	Nominal power	42 watts	45 watts		01
9	No. of linear	1	1		01
10	Luminous flux	5810 lm	6200 lm		01
11	Colour Temperature	5000 K	5000 K		01
12	**Protection**				
13	Hazardous Area Certification (Ex)	Zone 1 Gas Group IIC (or) IIB + H2, T1	Ex II 2GD Ex db eb mb IIC Gb Ex tb IIIC Db		01
14	Degree of Protection (IP)	IP 56	IP 66		01
15	ATEX certified	Classification EX db	ATEX CML 20 ATEX 3018X		01
16	**Material**				
17	Body	GRP/Aluminium alloy	Aluminium alloy		01
18	Reflector	GRP/Aluminium	Aluminium		01
19	Diffuser	Polycarbonate/temperate glass	Tempered glass		01
20	**Cable Entry**				
21	No. of cable entry	4 Nos.	4 Entries, 2 per side		01
22	Size	M20	Ø20.5mm		01
23	**Emergency Battery Pack**				
24	Requirement	Not required			00
25	Battery type	Not required			00
26	Autonomy	Not required			00
27	Emergency luminous flux	Not required			00
28	**Mechanical parameters**				
29	Dimension	by vendor	600x105x120(mm)		01
30	Weight	by vendor	2.5kg		01

Note:

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Tag Number	Tag Description	Location	P.O.	Vendor	Manufacturer	Serial Number	Model Type Catalogue Number	Installation Zone	ATEX Certificate Number	Reference Document	ATEX Certification Marking	Notes / Comments	Skid / Package	Electrical Equip.	Barrier Calculation Ref.	Special Conditions of Safe Use Applicable	3D Location
ELF-200N1-02-L1-17	Normal Lighting Fixture	UPPER DECK	1724001290	Cortem Spa	Cortem Spa	24/86772	LIFEX-ME-0645-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	
ELF-200N1-02-L1-18	Normal Lighting Fixture	UPPER DECK	1724001290	Cortem Spa	Cortem Spa	24/86772	LIFEX-ME-0645-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	
ELF-200N1-02-L1-19	Normal Lighting Fixture	UPPER DECK	1724001290	Cortem Spa	Cortem Spa	24/86772	LIFEX-ME-0645-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	
ELF-200N1-02-L1-20	Normal Lighting Fixture	UPPER DECK	1724001290	Cortem Spa	Cortem Spa	24/86772	LIFEX-ME-0645-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	
ELF-200N1-02-L1-21	Normal Lighting Fixture	UPPER DECK	1724001290	Cortem Spa	Cortem Spa	24/86772	LIFEX-ME-0645-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	
ELF-200N1-02-L1-22	Normal Lighting Fixture	UPPER DECK	1724001290	Cortem Spa	Cortem Spa	24/86772	LIFEX-ME-0645-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	
ELF-200N1-02-L1-23	Normal Lighting Fixture	UPPER DECK	1724001290	Cortem Spa	Cortem Spa	24/86772	LIFEX-ME-0645-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	
ELF-200N1-02-L1-24	Normal Lighting Fixture	UPPER DECK	1724001290	Cortem Spa	Cortem Spa	24/86772	LIFEX-ME-0645-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	
ELF-200N1-02-L1-25	Normal Lighting Fixture	UPPER DECK	1724001290	Cortem Spa	Cortem Spa	24/86772	LIFEX-ME-0645-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	
ELF-200N1-03-L2-01	Normal Lighting Fixture	LOWER DECK	1724001290	Cortem Spa	Cortem Spa	24/86772	LIFEX-ME-0645-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	
ELF-200N1-03-L2-02	Normal Lighting Fixture	LOWER DECK	1724001290	Cortem Spa	Cortem Spa	24/86772	LIFEX-ME-0645-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	
ELF-200N1-03-L2-03	Normal Lighting Fixture	LOWER DECK	1724001290	Cortem Spa	Cortem Spa	24/86772	LIFEX-ME-0645-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	
ELF-200N1-03-L2-04	Normal Lighting Fixture	LOWER DECK	1724001290	Cortem Spa	Cortem Spa	24/86772	LIFEX-ME-0645-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	
ELF-200N1-03-L2-05	Normal Lighting Fixture	LOWER DECK	1724001290	Cortem Spa	Cortem Spa	24/86772	LIFEX-ME-0645-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	
ELF-200N1-03-L2-06	Normal Lighting Fixture	LOWER DECK	1724001290	Cortem Spa	Cortem Spa	24/86772	LIFEX-ME-0645-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	
ELF-200N1-03-L2-07	Normal Lighting Fixture	LOWER DECK	1724001290	Cortem Spa	Cortem Spa	24/86772	LIFEX-ME-0645-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	
ELF-200N1-03-L2-08	Normal Lighting Fixture	LOWER DECK	1724001290	Cortem Spa	Cortem Spa	24/86772	LIFEX-ME-0645-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	
ELF-200N1-03-L2-09	Normal Lighting Fixture	LOWER DECK	1724001290	Cortem Spa	Cortem Spa	24/86772	LIFEX-ME-0645-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	
ELF-200N1-03-L2-10	Normal Lighting Fixture	LOWER DECK	1724001290	Cortem Spa	Cortem Spa	24/86772	LIFEX-ME-0645-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	
ELF-200N1-03-L2-11	Normal Lighting Fixture	LOWER DECK	1724001290	Cortem Spa	Cortem Spa	24/86772	LIFEX-ME-0645-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	
ELF-200N1-03-L2-12	Normal Lighting Fixture	LOWER DECK	1724001290	Cortem Spa	Cortem Spa	24/86772	LIFEX-ME-0645-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	
ELF-200N1-03-L2-13	Normal Lighting Fixture	LOWER DECK	1724001290	Cortem Spa	Cortem Spa	24/86772	LIFEX-ME-0645-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	
ELF-200N1-03-L2-14	Normal Lighting Fixture	LOWER DECK	1724001290	Cortem Spa	Cortem Spa	24/86772	LIFEX-ME-0645-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	
ELF-200N1-03-L2-15	Normal Lighting Fixture	LOWER DECK	1724001290	Cortem Spa	Cortem Spa	24/86772	LIFEX-ME-0645-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	
ELF-200N1-03-L2-16	Normal Lighting Fixture	LOWER DECK	1724001290	Cortem Spa	Cortem Spa	24/86772	LIFEX-ME-0645-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	
ELF-200N1-04-L3-01	Stair Normal Lighting Fixture	LOWER DECK	1724001290	Cortem Spa	Cortem Spa	24/86772	LIFEX-ME-0645-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	
ELF-200N1-04-L3-02	Stair Normal Lighting Fixture	LOWER DECK	1724001290	Cortem Spa	Cortem Spa	24/86772	LIFEX-ME-0645-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	
ELF-200N1-08-L1-01	Emergency Lighting Fixture	UPPER DECK	1724001290	Cortem Spa	Cortem Spa	24/86773	LIFEX-ME-1260N-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	
ELF-200N1-08-L1-02	Emergency Lighting Fixture	UPPER DECK	1724001290	Cortem Spa	Cortem Spa	24/86773	LIFEX-ME-1260N-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	
ELF-200N1-08-L1-03	Emergency Lighting Fixture	UPPER DECK	1724001290	Cortem Spa	Cortem Spa	24/86773	LIFEX-ME-1260N-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	
ELF-200N1-08-L1-04	Emergency Lighting Fixture	UPPER DECK	1724001290	Cortem Spa	Cortem Spa	24/86773	LIFEX-ME-1260N-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	
ELF-200N1-08-L1-05	Emergency Lighting Fixture	UPPER DECK	1724001290	Cortem Spa	Cortem Spa	24/86773	LIFEX-ME-1260N-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	HAZARDOUS-AREA_8
ELF-200N1-08-L1-06	Emergency Lighting Fixture	UPPER DECK	1724001290	Cortem Spa	Cortem Spa	24/86773	LIFEX-ME-1260N-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	HAZARDOUS-AREA_8 HAZARDOUS-AREA_3 HAZARDOUS-AREA_1 HAZARDOUS-AREA_2
ELF-200N1-08-L1-07	Emergency Lighting Fixture	UPPER DECK	1724001290	Cortem Spa	Cortem Spa	24/86773	LIFEX-ME-1260N-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	HAZARDOUS-AREA_8
ELF-200N1-08-L1-08	Emergency Lighting Fixture	UPPER DECK	1724001290	Cortem Spa	Cortem Spa	24/86773	LIFEX-ME-1260N-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	HAZARDOUS-AREA_3 HAZARDOUS-AREA_6
ELF-200N1-08-L1-09	Emergency Lighting Fixture	UPPER DECK	1724001290	Cortem Spa	Cortem Spa	24/86773	LIFEX-ME-1260N-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	HAZARDOUS-AREA_1 HAZARDOUS-AREA_4
ELF-200N1-08-L1-10	Emergency Lighting Fixture	UPPER DECK	1724001290	Cortem Spa	Cortem Spa	24/86773	LIFEX-ME-1260N-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	HAZARDOUS-AREA_4 HAZARDOUS-AREA_1
ELF-200N1-08-L1-11	Emergency Lighting Fixture	UPPER DECK	1724001290	Cortem Spa	Cortem Spa	24/86773	LIFEX-ME-1260N-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	HAZARDOUS-AREA_6 HAZARDOUS-AREA_3
ELF-200N1-08-L1-12	Emergency Lighting Fixture	UPPER DECK	1724001290	Cortem Spa	Cortem Spa	24/86773	LIFEX-ME-1260N-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	
ELF-200N1-08-L1-13	Emergency Lighting Fixture	UPPER DECK	1724001290	Cortem Spa	Cortem Spa	24/86773	LIFEX-ME-1260N-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	
ELF-200N1-08-L1-14	Emergency Lighting Fixture	UPPER DECK	1724001290	Cortem Spa	Cortem Spa	24/86773	LIFEX-ME-1260N-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	
ELF-200N1-08-L1-15	Emergency Lighting Fixture	UPPER DECK	1724001290	Cortem Spa	Cortem Spa	24/86773	LIFEX-ME-1260N-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	
ELF-200N1-08-L1-16	Emergency Lighting Fixture	UPPER DECK	1724001290	Cortem Spa	Cortem Spa	24/86773	LIFEX-ME-1260N-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	
ELF-200N1-08-L1-17	Emergency Lighting Fixture	UPPER DECK	1724001290	Cortem Spa	Cortem Spa	24/86773	LIFEX-ME-1260N-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	
ELF-200N1-08-L1-18	Emergency Lighting Fixture	UPPER DECK	1724001290	Cortem Spa	Cortem Spa	24/86773	LIFEX-ME-1260N-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	
ELF-200N1-08-L1-19	Emergency Lighting Fixture	UPPER DECK	1724001290	Cortem Spa	Cortem Spa	24/86773	LIFEX-ME-1260N-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	
ELF-200N1-08-L1-20	Emergency Lighting Fixture	UPPER DECK	1724001290	Cortem Spa	Cortem Spa	24/86773	LIFEX-ME-1260N-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	
ELF-200N1-08-L1-21	Emergency Lighting Fixture	UPPER DECK	1724001290	Cortem Spa	Cortem Spa	24/86773	LIFEX-ME-1260N-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	
ELF-200N1-08-L1-22	Emergency Lighting Fixture	UPPER DECK	1724001290	Cortem Spa	Cortem Spa	24/86773	LIFEX-ME-1260N-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	
ELF-200N1-08-L1-23	Emergency Lighting Fixture	UPPER DECK	1724001290	Cortem Spa	Cortem Spa	24/86773	LIFEX-ME-1260N-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	
ELF-200N1-09-L2-01	Emergency Lighting Fixture	LOWER DECK	1724001290	Cortem Spa	Cortem Spa	24/86773	LIFEX-ME-1260N-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	
ELF-200N1-09-L2-02	Emergency Lighting Fixture	LOWER DECK	1724001290	Cortem Spa	Cortem Spa	24/86773	LIFEX-ME-1260N-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	
ELF-200N1-09-L2-03	Emergency Lighting Fixture	LOWER DECK	1724001290	Cortem Spa	Cortem Spa	24/86773	LIFEX-ME-1260N-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	
ELF-200N1-09-L2-04	Emergency Lighting Fixture	LOWER DECK	1724001290	Cortem Spa	Cortem Spa	24/86773	LIFEX-ME-1260N-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	
ELF-200N1-09-L2-05	Emergency Lighting Fixture	LOWER DECK	1724001290	Cortem Spa	Cortem Spa	24/86773	LIFEX-ME-1260N-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	
ELF-200N1-09-L2-06	Emergency Lighting Fixture	LOWER DECK	1724001290	Cortem Spa	Cortem Spa	24/86773	LIFEX-ME-1260N-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	
ELF-200N1-09-L2-07	Emergency Lighting Fixture	LOWER DECK	1724001290	Cortem Spa	Cortem Spa	24/86773	LIFEX-ME-1260N-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	
ELF-200N1-09-L2-08	Emergency Lighting Fixture	LOWER DECK	1724001290	Cortem Spa	Cortem Spa	24/86773	LIFEX-ME-1260N-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	
ELF-200N1-09-L2-09	Emergency Lighting Fixture	LOWER DECK	1724001290	Cortem Spa	Cortem Spa	24/86773	LIFEX-ME-1260N-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	
ELF-200N1-09-L2-10	Emergency Lighting Fixture	LOWER DECK	1724001290	Cortem Spa	Cortem Spa	24/86773	LIFEX-ME-1260N-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	
ELF-200N1-09-L2-11	Emergency Lighting Fixture	LOWER DECK	1724001290	Cortem Spa	Cortem Spa	24/86773	LIFEX-ME-1260N-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	
ELF-200N1-09-L2-12	Emergency Lighting Fixture	LOWER DECK	1724001290	Cortem Spa	Cortem Spa	24/86773	LIFEX-ME-1260N-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	
ELF-200N1-09-L2-13	Emergency Lighting Fixture	LOWER DECK	1724001290	Cortem Spa	Cortem Spa	24/86773	LIFEX-ME-1260N-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	
ELF-200N1-09-L2-14	Emergency Lighting Fixture	LOWER DECK	1724001290	Cortem Spa	Cortem Spa	24/86773	LIFEX-ME-1260N-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	
ELF-200N1-09-L2-15	Emergency Lighting Fixture	LOWER DECK	1724001290	Cortem Spa	Cortem Spa	24/86773	LIFEX-ME-1260N-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	
ELF-200N1-09-L2-16	Emergency Lighting Fixture	LOWER DECK	1724001290	Cortem Spa	Cortem Spa	24/86773	LIFEX-ME-1260N-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	
ELF-200N1-09-L2-17	Emergency Lighting Fixture	LOWER DECK	1724001290	Cortem Spa	Cortem Spa	24/86773	LIFEX-ME-1260N-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	
ELF-200N1-09-L2-18	Emergency Lighting Fixture	LOWER DECK	1724001290	Cortem Spa	Cortem Spa	24/86773	LIFEX-ME-1260N-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	
ELF-200N1-09-L2-19	Emergency Lighting Fixture	LOWER DECK	1724001290	Cortem Spa	Cortem Spa	24/86773	LIFEX-ME-1260N-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	
ELF-200N1-09-L2-20	Emergency Lighting Fixture	LOWER DECK	1724001290	Cortem Spa	Cortem Spa	24/86773	LIFEX-ME-1260N-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	
ELF-200N1-09-L2-21	Emergency Lighting Fixture	LOWER DECK	1724001290	Cortem Spa	Cortem Spa	24/86773	LIFEX-ME-1260N-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	
ELF-200N1-09-L2-22	Emergency Lighting Fixture	LOWER DECK	1724001290	Cortem Spa	Cortem Spa	24/86773	LIFEX-ME-1260N-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	
ELF-200N1-09-L2-23	Emergency Lighting Fixture	LOWER DECK	1724001290	Cortem Spa	Cortem Spa	24/86773	LIFEX-ME-1260N-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	
ELF-200N1-09-L2-24	Emergency Lighting Fixture	BELOW LOWER DECK	1724001290	Cortem Spa	Cortem Spa	24/86773	LIFEX-ME-1260N-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	

EU Type Examination Certificate CML 20ATEX3018X Issue 1

1 Equipment intended for use in Potentially Explosive Atmospheres Directive 2014/34/EU

2 Equipment **LifEx-ME, LifEx-MN and LifEx-MT series of linear lighting fixtures**

3 Manufacturer **Cortem S.p.A.**

4 Address **Via Aquileia 10**
34070 Villesse
(GO)
Italy

5 The equipment is specified in the description of this certificate and the documents to which it refers.

6 CML B.V., Chamber of Commerce No 6738671, Koopvaardijweg 32, 4906CV Oosterhout, The Netherlands, Notified Body Number 2776, in accordance with Article 17 of Directive 2014/34/EU of the European Parliament and of the Council, dated 26 February 2014, certifies that this equipment has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of equipment intended for use in potentially explosive atmospheres given in Annex II to the Directive.

The examination and test results are recorded in the confidential reports listed in Section 12.

7 If an 'X' suffix appears after the certificate number, it indicates that the equipment is subject to conditions of safe use (affecting correct installation or safe use). These are specified in Section 14.

8 This EU Type Examination certificate relates only to the design and construction of the specified equipment or component. Further requirements of Directive 2014/34/EU Article 13 apply to the manufacture of the equipment or component and are separately certified.

9 Compliance with the Essential Health and Safety Requirements, with the exception of those listed in the confidential report, has been demonstrated through compliance with the following documents:

EN IEC 60079-0:2018	EN 60079-1:2014	EN IEC 60079-7:2015+A1:2018
EN 60079-18:2015+A1:2017	EN 60079-31:2014	

10 The equipment shall be marked with the following:

LifEx-ME	LifEx-MN and LifEx-MT
Ex db eb mb IIC T.. Gb	Ex tb IIIC T…°C Db
Ex eb mb IIC T.. Gb *(when Ex mb LED drivers are used)*	IP66
Ex tb IIIC T…°C Db	
IP66	
Ta=* see description	Ta=* see description

11 Description

The LifEx is a range of linear LED lighting fixtures that are available in three different configurations for different applications, designated as the LifEx-ME, LifEx-MT and LifEx-MN.

LifEx-ME

The LifEx-ME version has an Equipment Protection Level of EPL Gb and Db and utilises types of protection increased safety (eb) and dust protection by enclosure (tb), along with encapsulation (mb) for the light source and flameproof (db) for the driver.

It is constructed from an aluminium enclosure, with either a glass or polycarbonate lens and with optional polycarbonate diffuser.

LifEx-MN

The LifEx-MN version has an Equipment Protection Level of EPL Gc and Db and utilises types of protection increased safety (ec) and dust protection by enclosure (tb).

It is constructed from an aluminium enclosure, with polycarbonate diffuser and/or with optional glass or polycarbonate lens.

LifEx-MT

The LifEx-MT versions has an Equipment Protection Level of EPL Db and utilises types of protection dust protection by enclosure (tb).

It is constructed from an aluminium enclosure, with polycarbonate diffuser and/or with optional glass or polycarbonate lens.

Design Options

Every configuration is available in lengths ranging from 300 mm to 1500 mm, and power ratings up to a maximum of 105W of nominal power.

The LifEx can be used in only normal service, in only emergency service or in normal and emergency service.

The minimum ambient temperature for the range is:

- -60°C for versions without battery
- -60°C for versions with the battery heater
- -20°C for versions with battery

The range is available with the following maximum ambient temperatures:

	With glass lens and with/without polycarbonate diffuser	With Polycarbonate lens and with/without polycarbonate diffuser	Without lens polycarbonate diffuser only
LifEx-M...0310	+60°C	+60°C	+60°C
LifEx-M...0315	+60°C	+60°C	+60°C
LifEx-M...0330	+60°C	Configuration not available	Configuration not available
LifEx-M...0615	+60°C	+60°C	+60°C
LifEx-M...0630	+60°C	+50°C	+60°C
LifEx-M...0645	+57°C	+47°C	+60°C
LifEx-M...0660	+47°C	Configuration not available	+58°C
LifEx-M...1230	+60°C	+60°C	+60°C
LifEx-M...1260	+60°C	+50°C	+60°C
LifEx-M...1290	+60°C	+40°C	+60°C
LifEx-M...12120	+54°C	Configuration not available	+60°C
LifEx-M...1590	+60°C	+40°C	+60°C

Table 1: Maximum Ambient Temperatures

The following tables provide the Temperature Class (EPL Gb) and Maximum Surface Temperature (EPL Db) for each LifEx type, with the following notes:

- The LifEx-MN with an ambient temperature greater than 50°C is T5 or T4. T6 is not included.
- The Temperature Class (EPL Gb) and Maximum Surface Temperature (EPL Db) in the tables below are not applicable when the ambient temperature is not permitted in the above maximum ambient temperature range table.

13. (For example, the LifEx-M...0660 is not permitted with polycarbonate lens, therefore the Temperature Class (EPL Gb) and Maximum Surface Temperature (EPL Db) for this version in tables 2 and 3 are not applicable)

	Temperature Class (EPL Gb and Gc) and Maximum Surface Temperature (EPL Db) Based on ambient temperature													
	40°C		45°C		47°C		50°C		54°C		57°C		60°C	
	EPL Db	EPL Gb/Gc	EPL Db	EPL Gb/Gc	EPL Db	EPL Gb/Gc	EPL Db	EPL Gb/Gc	EPL Db	EPL Gb/Gc	EPL Db	EPL Gb/Gc	EPL Db	EPL Gb/Gc
LifEx-M...0310	T56°C	T6	T56°C	T6	T58°C	T6	T61°C	T6	T65°C	T6	T68°C	T6	T71°C	T6
LifEx-M...0315	T56°C	T6	T56°C	T6	T58°C	T6	T61°C	T6	T65°C	T6	T68°C	T6	T71°C	T6
LifEx-M...0615	T56°C	T6	T56°C	T6	T58°C	T6	T61°C	T6	T65°C	T6	T68°C	T6	T71°C	T6
LifEx-M...0630	T69°C	T6	T69°C	T5	T71°C	T5	T74°C	T5	T78°C	T5	T81°C	T4	T84°C	T4
LifEx-M...0645	T72°C	T5	T72°C	T5	T74°C	T5	T77°C	T5	T81°C	T4	T84°C	T4	T87°C	T4
LifEx-M...0660	T77°C	T5	T77°C	T4	T79°C	T4	T82°C	T4	T86°C	T4	T89°C	T4	T92°C	T4
LifEx-M...1230	T58°C	T6	T58°C	T6	T60°C	T6	T63°C	T6	T67°C	T6	T70°C	T6	T73°C	T6
LifEx-M...1260	T67°C	T6	T67°C	T5	T69°C	T5	T72°C	T5	T76°C	T5	T79°C	T4	T82°C	T4
LifEx-M...1290	T72°C	T5	T72°C	T5	T74°C	T4	T77°C	T4	T81°C	T4	T84°C	T4	T87°C	T4
LifEx-M...12120	T75°C	T5	T75°C	T4	T77°C	T4	T80°C	T4	T84°C	T4	T87°C	T4	T90°C	T4
LifEx-M...1590	T72°C	T5	T72°C	T5	T74°C	T4	T77°C	T4	T81°C	T4	T84°C	T4	T87°C	T4

Table 2: Temperature Class (EPL Gb) and Maximum Surface Temperature (EPL Db) for LifEx types with glass/polycarbonate lens and with polycarbonate diffuser

	Temperature Class (EPL Gb and Gc) and Maximum Surface Temperature (EPL Db) Based on ambient temperature					
	40°C		55°C		60°C	
	EPL Db	EPL Gc	EPL Db	EPL Gc	EPL Db	EPL Gc
LifEx-ME-0330	T58°C	T6	T73°C	T6	T78°C	T5
LifEx-MN-0330	T58°C	T6	T73°C	T5	T78°C	T4
LifEx-MT-0330	T58°C	-	T73°C	-	T78°C	-

Table 3: Temperature Class (EPL Gb and Gc) and Maximum Surface Temperature (EPL Db) for LifEx-M...-0330 types with glass/polycarbonate window and without polycarbonate diffuser

	Temperature Class (EPL Gb) and Maximum Surface Temperature (EPL Db) Based on ambient temperature													
	40°C		45°C		47°C		50°C		54°C		57°C		60°C	
	EPL Db	EPL Gb	EPL Db	EPL Gb	EPL Db	EPL Gb	EPL Db	EPL Gb	EPL Db	EPL Gb	EPL Db	EPL Gb	EPL Db	EPL Gb
LifEx-M...0310	T62°C	T6	T62°C	T6	T64°C	T6	T67°C	T6	T71°C	T6	T74°C	T6	T77°C	T6
LifEx-M...0315	T62°C	T6	T62°C	T6	T64°C	T6	T67°C	T6	T71°C	T6	T74°C	T6	T77°C	T6
LifEx-M...0615	T62°C	T6	T62°C	T6	T64°C	T6	T67°C	T6	T71°C	T6	T74°C	T6	T77°C	T6
LifEx-M...0630	T85°C	T6	T85°C	T5	T87°C	T5	T90°C	T5	T94°C	T5	T97°C	T4	T100°C	T4
LifEx-M...0645	T88°C	T6	T88°C	T5	T90°C	T5	T93°C	T5	T97°C	T4	T100°C	T4	T103°C	T4
LifEx-M...0660	T100°C	T6	T100°C	T4	T102°C	T4	T105°C	T4	T109°C	T4	T112°C	T4	T115°C	T4
LifEx-M...1230	T65°C	T6	T65°C	T6	T67°C	T6	T70°C	T6	T74°C	T6	T77°C	T6	T80°C	T6
LifEx-M...1260	T85°C	T6	T85°C	T5	T87°C	T5	T90°C	T5	T94°C	T5	T97°C	T4	T100°C	T4
LifEx-M...1290	T94°C	T6	T94°C	T5	T96°C	T4	T99°C	T4	T103°C	T4	T106°C	T4	T109°C	T4
LifEx-M...12120	T96°C	T5	T96°C	T4	T98°C	T4	T101°C	T4	T105°C	T4	T108°C	T4	T111°C	T4
LifEx-M...1590	T94°C	T6	T94°C	T5	T96°C	T4	T99°C	T4	T103°C	T4	T106°C	T4	T109°C	T4

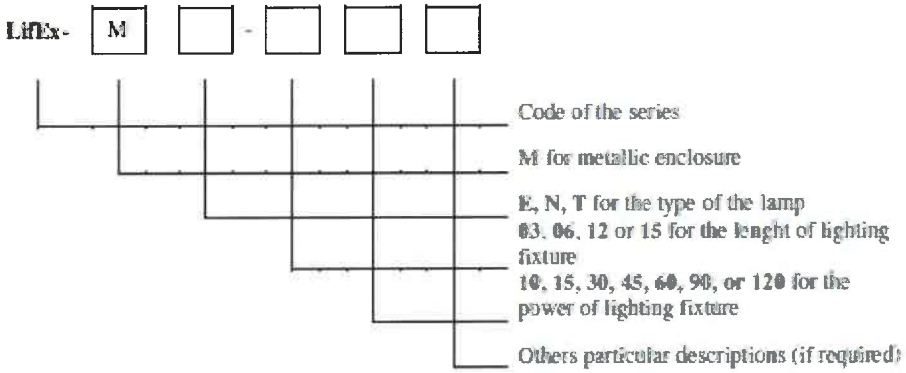
Table 4: Temperature Class (EPL Gb) and Maximum Surface Temperature (EPL Db) for LifEx types with glass/polycarbonate lens and without polycarbonate diffuser

	Maximum Surface Temperature (EPL Db) Based on ambient temperature						
	40°C	45°C	47°C	50°C	54°C	57°C	60°C
LifEx-M...0310	T56°C	T56°C	T58°C	T61°C	T65°C	T68°C	T71°C
LifEx-M...0315	T56°C	T56°C	T58°C	T61°C	T65°C	T68°C	T71°C
LifEx-M...0615	T56°C	T56°C	T58°C	T61°C	T65°C	T68°C	T71°C
LifEx-M...0630	T69°C	T69°C	T71°C	T74°C	T78°C	T81°C	T84°C
LifEx-M...0645	T72°C	T72°C	T74°C	T77°C	T81°C	T84°C	T87°C
LifEx-M...0660	T77°C	T77°C	T79°C	T82°C	T86°C	T89°C	T92°C
LifEx-M...1230	T58°C	T58°C	T60°C	T63°C	T67°C	T70°C	T73°C
LifEx-M...1260	T67°C	T67°C	T69°C	T72°C	T76°C	T79°C	T82°C
LifEx-M...1290	T72°C	T72°C	T74°C	T77°C	T81°C	T84°C	T87°C
LifEx-M...12120	T75°C	T75°C	T77°C	T80°C	T84°C	T87°C	T90°C
LifEx-M...1590	T72°C	T72°C	T74°C	T77°C	T81°C	T84°C	T87°C

Table 5: (Applicable to EPL Db only) Maximum Surface Temperature for LifEx types without glass/polycarbonate lens and with polycarbonate diffuser

The equipment has been separately tested against the requirements of IEC 60529 and it meets IP66. The gaskets on the caps provide the degree of protection.

The equipment uses the following nomenclature:



Variation 1:

This variation has assed the following changes:

i. Addition of an optional new removable cover for "easy installation" (which use the new aluminium extrusion);
ii. Addition of an optional external battery box;
iii. minimum ambient temperature extended to -60°C when Ex mb heater is used;
iv. Additional optional Ex mb EBM LED driver as an alternative to EBL3040 / EBL4040 Ex db series LED drivers;
v. added 30W model for size 300mm (LifEx-M..-0330).

12 Certificate history and evaluation reports

Issue	Date	Associated report	Notes
0	06 May 2020	R13027A/00	Prime Issue
1	01 Jul 2022	R14875A/00	Introduction of Variation 1

Note: Drawings that describe the equipment or component are listed in the Annex.

13 Conditions of Manufacture

The following conditions are required of the manufacturing process for compliance with the certification.

i. Where the product incorporates certified parts or safety critical components the manufacturer shall ensure that any changes to those parts or components do not affect the compliance of the certified product that is the subject of this certificate.
ii. The LifEx series lighting fixtures are to be designed in accordance with general electrical safety standards.
iii. The routine dielectric strength test on the LifEx-ME and LifEx-MN luminaries with applied voltage shall be performed at 2U + 1000V with a minimum value of 1560V (U = maximum rated voltage of the lamp)

iv. A routine visual inspection of the encapsulated parts is required, as per Clause 9.1 of IEC 60079-18. There shall be no visible damage or deformation to the encapsulant.

v. Where the removable battery pack is used with phoenix contacts, if used with a T6 version of the equipment, the maximum ambient shall be limited to +40°C.

14 Specific Conditions of Use (Special Conditions)

The following conditions relate to safe installation and/or use of the equipment.

i. Cable entries are provided which have less than 5 threads engaged. Care must be taken to ensure the correct gaskets and washers are sued with the cable gland to maintain IP66.

ii. The equipment uses an external part that is constructed from non-metallic materials, and as such care is to be taken to prevent an electro-static charging hazard. See instruction manual for details.

iii. For versions with glass window of 4mm thickness without cover, the luminaire must be installed in a location with a low risk of mechanical danger

iv. The temperature at the entry point may reach up to 75°C. Suitably rated cable glands must be used.

Certificate Annex

Certificate Number	**CML 20ATEX3018X**
Equipment	**LifEx-ME, LifEx-MN and LifEx-MT series of linear lighting fixtures**
Manufacturer	**Cortem S.p.A.**

The following documents describe the equipment or component defined in this certificate:

Issue 0

Drawing No	Sheets	Rev	Approved date	Title
A3-7466	1 to 6	0	06 May 2020	LifEx-M Luminaires
A4-7467	1 to 6	0	06 May 2020	Technical Note

Issue 1

Drawing No.	Sheets	Rev	Approved date	Title
A3-7466	1 of 6	1	01 Jul 2022	LifEx-M Luminaires Assembly and External Dimensions
A3-7466	2 of 6	1	01 Jul 2022	LifEx-M Luminaires Detail of sealing and op is protection
A3-7466	3 of 6	1	01 Jul 2022	LifEx-M Luminaires Detail of driver and inverter for LifEx-ME version
A3-7466	4 of 6	1	01 Jul 2022	LifEx-M Luminaires Circuit diagram for LifeEx-ME version
A3-7466	5 of 6	1	01 Jul 2022	LifEx-M Luminaires Circuit diagram LifEx-MN and LifEx-MT version
A3-7466	6 of 6	1	01 Jul 2022	LifEx-M Luminaires Detail of battery pack
A3-7729	1 to 3	0	01 Jul 2022	Battery heater for -60°C /-40°C applications Assembly and External Dimensions
A4-7727	1 to 8	0	01 Jul 2022	Technical Note

ITEM	Tag	ELF-200N1-02-L1-23	: EMERGENCY LIGHT	Dwg	123A90-DDL-EL-DL-20118
	S/Sys	83-40	: Normal Lighting Upper Deck	Module	UD
TASK	code	C10001697	Location: Onshore Activities	User	Rosetti Marino Quality Control
FORM	Process	MC	Activity: CCK	Discipline: ATEX	Form: CJX01 — Hazardous Area Equipment Detailed Inspection

Schedule Ref. #				**Area Code**					
Area Class Drawing	123A90-DDL-SAF-DL-30022			**Serial No.**	24/86772				
Manufacturer	Cortem Spa			**Model**	LIFEX-ME-0645-BB				
Cert No.	CML 20 ATEX 3018X			**Equipment Ambient Temp.**	-60°C to +50°C				
Area Classification	hazardous	**Zone**	2	**Gas group**	IIC	**Temp class**	T1		
Equipment Protection Type	Ex db	**EPL**	Gb	**Gas group**	IIC	**Temp class**	T5	**IP Rating**	IP66

Detailed Note:

1) Inspection shall only be performed by competent personnel

2) All fields are to be completed. Any non-applicable field shall state “NA”. Comments are required for ‘Failure’ column ONLY.

3) An Inspection Sheet should be completed for EACH individual item of Equipment.

	General Equipment	Detailed	OK/NA/PL	Comments
1	Equipment is appropriate to the EPL / Zone requirements of the area	x	OK	
2	Equipment group is correct	x	OK	
3	Equipment temperature class is correct	x	OK	
4	Degree of IP protection of equipment is appropriate for the level of protection	x	OK	
5	Equipment circuit identification is correct	x	PL	
6	Equipment circuit identification is available	x	NA	
7	Enclosure glass parts and glass-to-metal sealing gaskets and / or compounds are satisfactory	x	OK	
8	There is no damage or unauthorized modifications	x	OK	
9	There is no evidence of unauthorized modifications	x	OK	
10	Bolts, cable entry devices (direct and indirect) & blanking elements are of the correct type, are complete & tight		OK	
	Physical check	x	OK	
11	Threaded covers on enclosures are of the correct type, are tight and secured		OK	
	Physical check	x	OK	
12	Joint surfaces are clean and undamaged and gaskets, if any, are satisfactory and positioned correctly	x	OK	
13	Condition of enclosure gaskets is satisfactory	x	OK	
14	There is no evidence or ingress of water or dust in the enclosure in accordance with the IP rating	x	OK	
15	Electrical connections are tight	x	OK	
16	Bridging links do not reduce creepage / clearance and are allowed	x	OK	
17	Unused terminals are tightened	x	OK	
18	Encapsulated components are undamaged	x	NA	
19	Flameproof components are undamaged	x	NA	
20	Fluorescent lamps are not indicating EOL effects (only for Ex “e” – Ex “n” – Ex “t”)	x	NA	
21	HID lamps are not indicating EOL effects	x	NA	
22	Lamp type, rating, pin configuration and position are correct	x	OK	
23	Breathing and drainage devices are satisfactory	x	NA	
24	Type of cable is appropriate	x	OK	
25	There is no obvious damage to the cables	x	OK	
26	Cable glands are the correct type and installed correctly	x	OK	
27	Sealing of trunking, ducts, pipes and or conduits is satisfactory	x	OK	
28	Stopping boxes and cable boxes are corrected filled	x	OK	

ITEM	Tag	ELF-200N1-02-L1-23	: EMERGENCY LIGHT			Dwg	123A90-DDL-EL-DL-20118
	S/Sys	83-40	: Normal Lighting Upper Deck			Module	UD
TASK	code	C10001697		Location	Onshore Activities	User	Rosetti Marino Quality Control
FORM	Process	MC	Activity CCK	Discipline	ATEX	Form	CJX01 Hazardous Area Equipment Detailed Inspection

29	Integrity of conduit system and interface with mixed system maintained	x	NA	
30	Earthing connections, including any supplementary earthing bonding connections are satisfactory (for example connections are tight and conductors are of sufficient cross-section		OK	
	Physical check	x	OK	
31	Automated electric protective devices operate within permitted limits	x	NA	
32	Special conditions (if applicable) have been complied with.	x	OK	
33	All cable cores are uniquely labeled	x	OK	
34	Cable cores not in use are correctly terminated	x	NA	
35	Equipment is adequately protected against corrosion, weather, vibration and other adverse factors	x	PL	
36	No undue accumulation of dust and dirt	x	OK	
37	All equipment housings are clean and dry	x	OK	
38	All moving parts are free and have no mechanical damage	x	NA	
	Applicable for Installation of Heating Systems			
39	Temperature sensors function according to manufacturer's documents (only applicable for Ex-d e Ex-e)	x	NA	
40	Safety cut off devices function according to manufacturer's documents (only applicable for Ex-d e Ex-e)	x	NA	
41	The setting of the safety cut off is sealed (only applicable for Ex-d e Ex-e)	x	NA	
42	Reset of a heating system safety cut off possible with tool only(only applicable for Ex-d e Ex-e)	x	NA	
43	Auto-reset is not possible (only applicable for Ex-d e Ex-e)	x	NA	
44	Reset of a safety cut off under fault conditions is prevented (only applicable for Ex-d e Ex-e)	x	NA	
45	Safety cut off independent from control system (only applicable for Ex-d e Ex-e)	x	NA	
46	Level switch is installed and correctly set, if required (only applicable for Ex-d e Ex-e)	x	NA	
47	Flow switch is installed and correctly set, if required (only applicable for Ex-d e Ex-e)	x	NA	
	Extra Ex d checks			
48	Obstructions adjacent to flame proof flanged joints are in accordance with IEC 60079-14	x	NA	
49	Ex d conduits seals are fitted to all conduits and satisfactorily sealed	x	NA	
50	Cable glands are of the correct type and installed correctly	x	OK	
51	Adaptors, reducers, stop ends, etc. are all certified Ex d	x	OK	
52	Flame path are clean and undamaged	x	OK	
53	Flange gap dimensions are within tolerances	x	NA	
54	Motor fans have sufficient clearance to the enclosure and/or covers, cooling systems are undamaged, motor foundations have no indentations or cracks	x	NA	
55	The ventilation airflow is not impeded	x	NA	
56	Insulation resistance (IR) of the motor windings is satisfactory	x	NA	
57	Fault loop impedance (TN systems) or earthing resistance (IT systems) is satisfactory	x	NA	
58	Variable voltage/frequency installation complies with documentation	x	NA	
	Extra Ex e checks			
59	All Equipment is Ex e certified (including components within enclosure)	x	NA	
60	Power conductors are not bunched together causing possible hot spots	x	NA	
61	Motor fans have sufficient clearance to the enclosure and/or covers, cooling systems are undamaged, motor foundations have no indentations or cracks	x	NA	
62	Insulation resistance (IR) of the motor windings is satisfactory	x	NA	
63	Fault loop impedance (TN systems) or earthing resistance (IT systems) is satisfactory	x	NA	
64	The ventilation airflow is not impeded	x	NA	
65	Motor protection devices operate within the permitted tE or tA time limits.	x	NA	
66	Variable voltage/frequency installation complies with documentation	x	NA	

ITEM	Tag	ELF-200N1-02-L1-23	: EMERGENCY LIGHT			Dwg	123A90-DDL-EL-DL-20118
	S/Sys	83-40	: Normal Lighting Upper Deck			Module	UD
TASK	code	C10001697		Location	Onshore Activities	User	Rosetti Marino Quality Control
FORM	Process	MC	Activity CCK	Discipline	ATEX	Form	CJX01
							Hazardous Area Equipment Detailed Inspection

Extra Ex n (nR, nL) checks				
67	All Terminals are Ex n certified (if required on certificate)	x	NA	
68	Hermetically sealed and enclosed break devices are undamaged	x	NA	
69	Restricted breathing properties satisfactory (conduct vacuum test)	x	NA	
70	Test port, if fitted, is functional (type “nR” only)	x	NA	
71	Breathing operation is satisfactory (type “nR” only)	x	NA	
72	Motor fans have sufficient clearance to the enclosure and/or covers, cooling systems are	x	NA	
73	The ventilation airflow is not impeded	x	NA	
74	Insulation resistance (IR) of the motor windings is satisfactory	x	NA	
75	Motor protection devices operate within the permitted tE or tA time limits.	x	NA	
76	Variable voltage/frequency installation complies with documentation	x	NA	
Extra Ex p checks				
77	Pressurization gas is correct type	x	NA	
78	Actual pressure is within maximum and minimum settings for equipment	x	NA	
79	Timers set as per certification documentation	x	NA	
80	Alarms and trip functions operate correctly as per certification documentation	x	NA	
81	Fault loop impedance (TN systems) or earthing resistance (IT systems) is satisfactory	x	NA	
82	Automatic electrical protective devices operate within permitted limits	x	NA	
83	Automatic electrical protective devices are set correctly	x	NA	
84	Protective gas inlet temperature is below maximum specified	x	NA	
85	Ducts, pipes and enclosures are in good condition	x	NA	
86	Protective gas is substantially free from contaminants	x	NA	
87	Protective gas pressure and/or flow is adequate	x	NA	
88	Pressure and/or flow indicators, alarms and interlocks function correctly	x	NA	
89	Conditions of spark and particle barriers of ducts for exhausting the gas in hazardous area are satisfactory	x	NA	
90	Specific conditions of use (if applicable) are complied with		NA	
Extra Ex i (Intrinsically Safe – IS) checks				
91	Equipment has adequate circuit identification for ‘IS’ Installation	x	NA	
92	Cables are installed in accordance with the documentation	x	NA	
93	Segregation is maintained between IS and non-IS Circuits	x	NA	
94	Cable screens are isolated at one end (field side)	x	NA	
95	Cable screens are earthed in accordance with the documentation	x	NA	
96	Safety barrier units, relays and other energy limiting devices are of the approved type, installed in	x	NA	
97	Equipment installed is the one specified in the documentation	x	NA	
98	Ambient temperature range of the apparatus is correct for the installation	x	NA	
99	Service temperature range of the apparatus is correct for the installation	x	NA	
100	Installation is clearly labelled	x	NA	
101	Printed circuit boards are clean and undamaged	x	NA	
102	The maximum voltage Um of the associated apparatus is not exceeded	x	NA	
103	Point-to-point connections are all correct	x	NA	
104	Earth continuity is satisfactory (e.g. connections are tight, conductors are of sufficient cross-section)	x	NA	
105	Earth connections maintain the integrity of the type of protection	x	NA	
106	Intrinsically safe circuit earthing is satisfactory	x	NA	
107	Insulation resistance is satisfactory	x	NA	
108	Short-circuit protection of the power supply is in accordance with the documentation	x	NA	

	BARRIER:	**Manufacturer:**	NA	**Model:**	NA		
		Authority:	NA	**Cert No:**	NA	**Type:**	NA

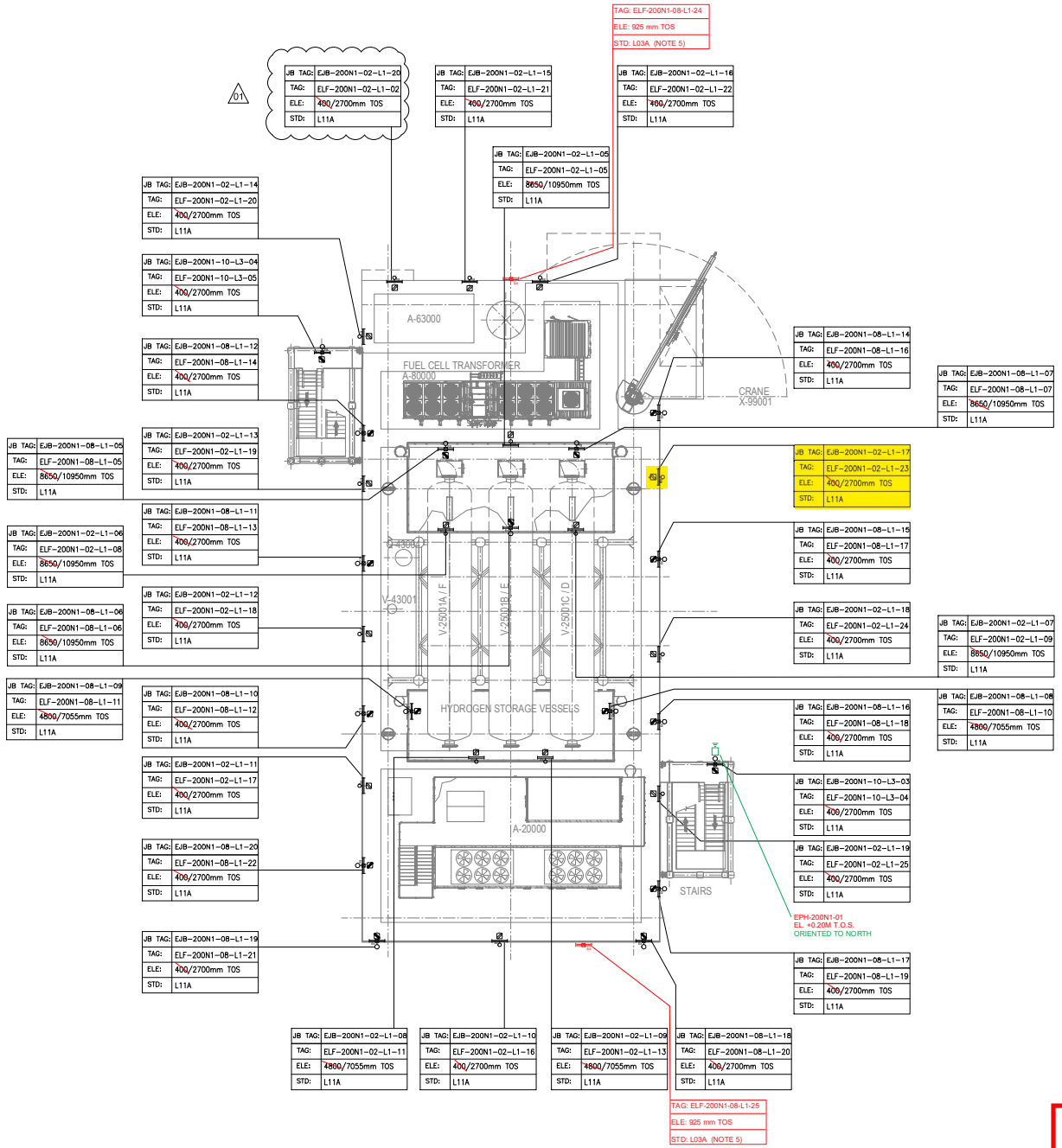
Remarks: Initial inspection should be detailed and carried out before equipment is brought into service as per IEC 60079-17

Please mark only one box as appropriate	
●	**Passed - Complete**
	Failed

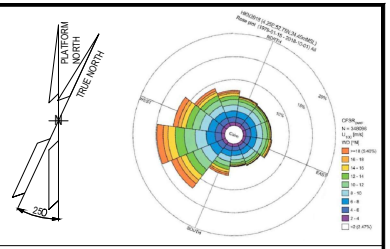
Page 3/3	Performed by	☐ WITNESS ☐ REVIEW	☐ WITNESS ☐ REVIEW
Company	ICS IMPIANTI	RM (ROSETTI MARINO)	
Name	Francesco Zucca	Andrea Andreani	
Date	2024-12-11	2024-12-12	
Signature	PROVERLIS Digitaly signed by Francesco Zucca 2024-12-11T15:30:21.383Z	PROVERLIS Digitaly signed by Andrea Andreani 2024-12-12T08:15:56.862Z	

DRAWING NO. 123A90-DDL-EL-DL-20118

REV. 01



PLAN ON UPPER DECK
EL+30.310 T.O.S.



NOTES

1. ALL DIMENSIONS AND ELEVATIONS ARE GIVEN IN mm UNLESS OTHERWISE NOTED.
2. ELEVATIONS REFER TO T.O.S.
3. ELEVATION OF THE LAMPS ARE REFFERED TO THE BOTTOM OF THE LAMP.
4. FOR THE ELEVATION OF JB, REFER TO THE TYPICAL INSTALLATION.
5. FOR ELF-200N1-08-L1-24 AND ELF-200N1-08-L1-25 CONSTRUCTION DETAILS REFER TO DOC. 123A90-DDL-ST-DD-90076

LEGEND

- EMERGENCY LIGHTING JB
- 60W LED EMERGENCY LUMINARIES
- 60W LED EMERGENCY LUMINARIES FIXTURE POLE MOUNTED
- NORMAL LIGHTING JB
- 45W LED NORMAL LUMINARIES
- 45W LED NORMAL LUMINARIES FIXTURE POLE MOUNTED
- WELDING SOCKET WITH INTEGRATED JB
- SMALL POWER SOCKET WITH INTEGRATED JB
- TWILIGHT RELAY SENSOR

JB TAG: — JB-TAG
TAG: — TAG
ELE: — ELEVATION
STD: — STANDARD

REFERENCE DOCUMENTS

123A90-DDL-PP-DL-70070	PLOT PLAN - LOWER & UPPER DECK
123A90-DDL-EL-DL-20100	ELECTRICAL EQUIPMENT LAYOUT - TOP DECK
123A90-DDL-EL-DD-20091	ELECTRICAL TYPICAL INSTALLATION DETAILS - LIGHTING SYSTEM
123A90-DDL-EL-DD-20092	ELECTRICAL TYPICAL INSTALLATION DETAILS - POWER SYSTEM & CABLE INSTALLATION
123A90-DDL-EL-RE-20153	LIGHTING CALCULATION STUDY REPORT
123A90-DDL-ST-DD-90076	IDENTIFICATION PANELS ASSEMBLY AND DETAILS

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	02/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	28/05/24	ASR	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DL-20118**

REV.:	DATE:	SIGNATURE:
1_F	26/11/24	G.Randi

ROSETTI MARINO SpA

CROSSWIND

ROSETTI MARINO

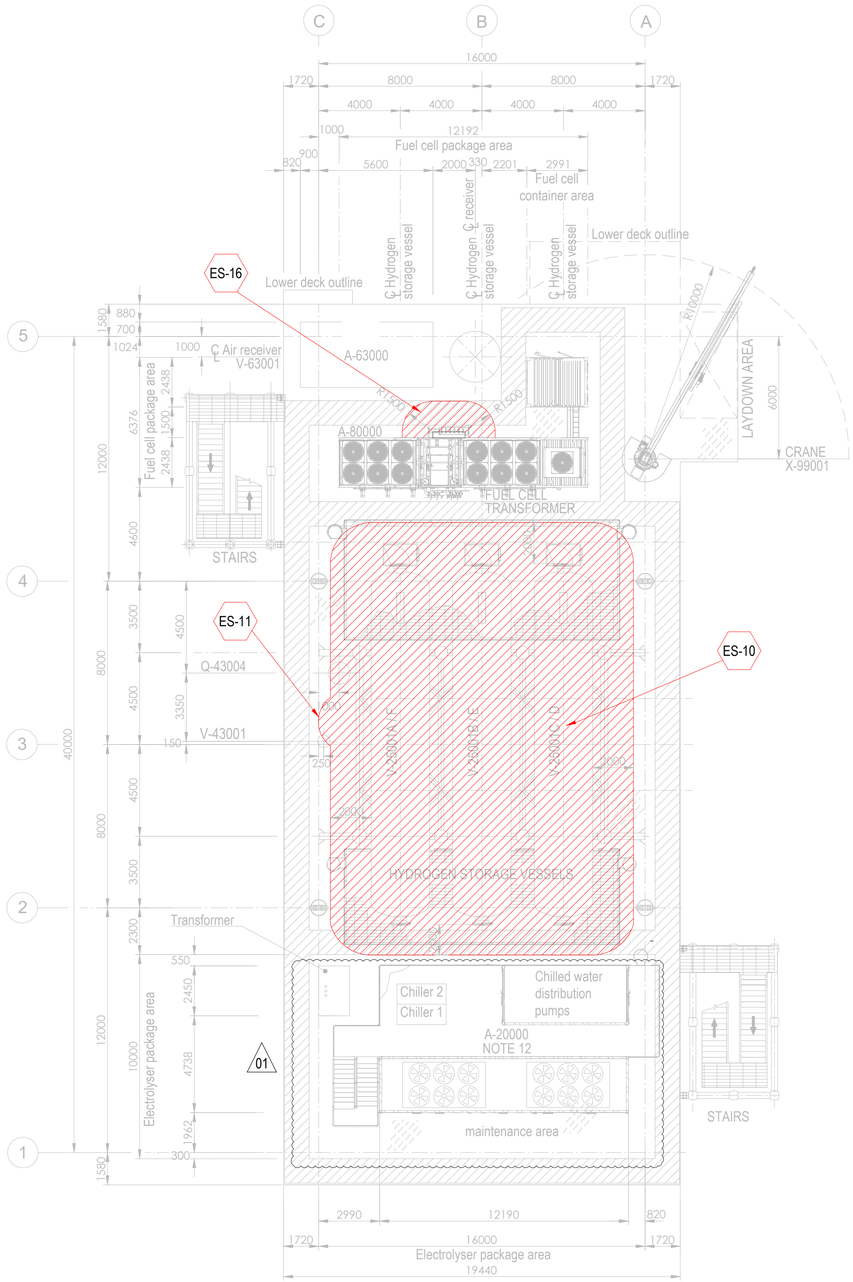
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LIGHTING & SOCKET LAYOUT – TOP DECK

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK			SCALE 1:150
DRAWN ASR	CHECKED FMA/AMA	APPROVED FPA/DLO	DATE 01/08/24
A1	DRAWING NO. 123A90-DDL-EL-DL-20118	SHEET 1of2	REV. 01

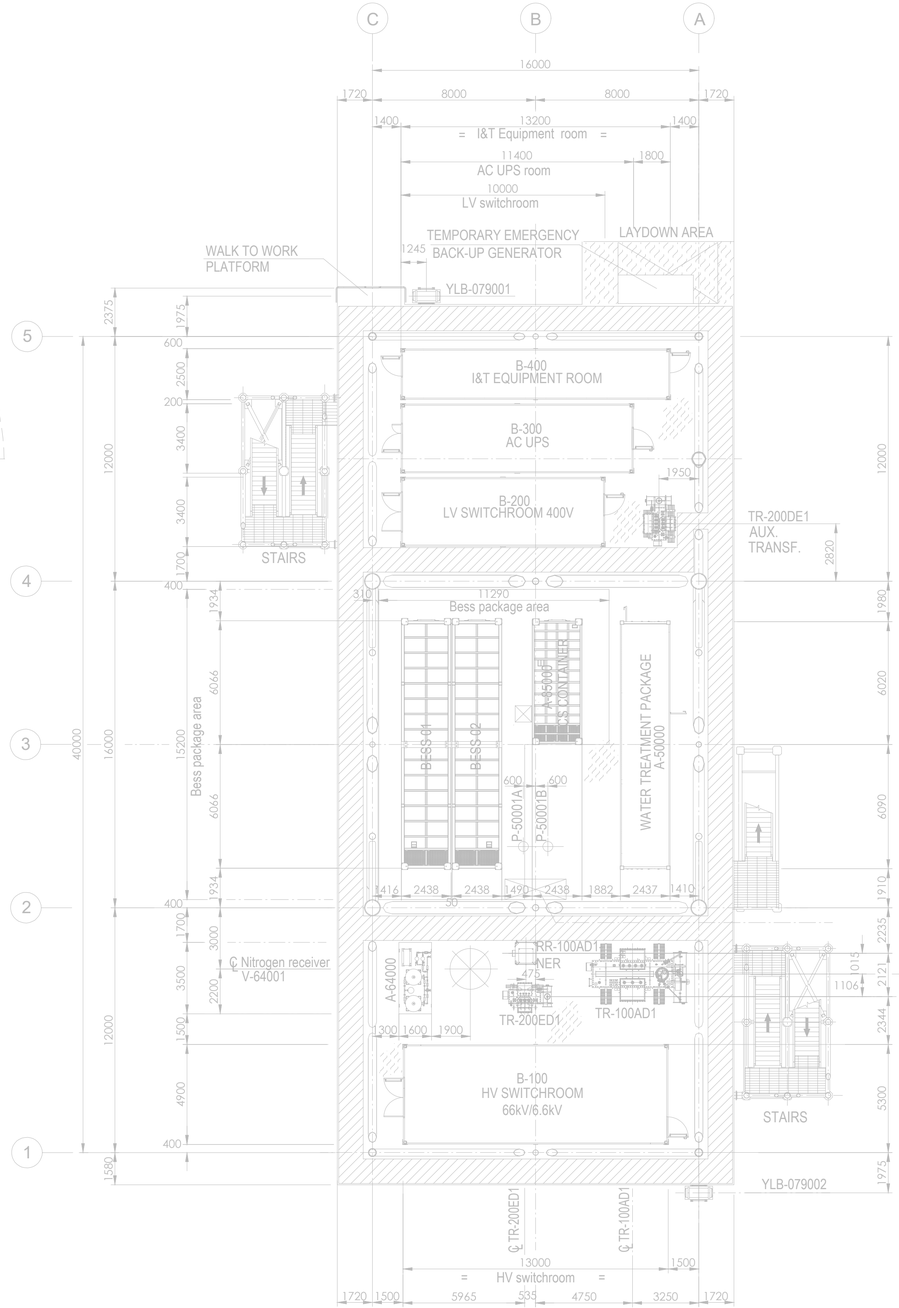
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DRAWING NO. 123A90-DDL-SAF-DL-30022

REV. 01



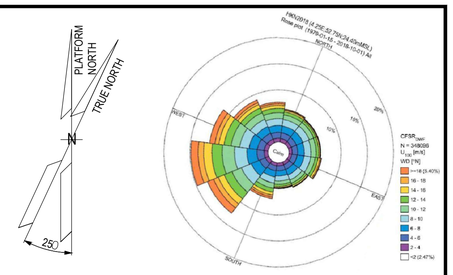
PLAN ON UPPER DECK
EL+30.310 T.O.S.



PLAN ON LOWER DECK
EL+23.310 T.O.S.

Tag No.	Equipment Tag	Description	Material	Ventilation Type
01	P-50001 A/B	SEA WATER LIFT PUMPS	SEA WATER	NATURAL (OPEN AREA)
02	Q-43004	HYDROGEN VENT	HYDROGEN	NATURAL (OPEN AREA)
03	V-43001	HYDROGEN VENT KO DRUM	HYDROGEN	NATURAL (OPEN AREA)
04	V-25001 (A/B/C/D/E/F)	HYDROGEN STORAGE VESSELS	HYDROGEN	NATURAL (OPEN AREA)
05	V-63001	AIR RECEIVER	INSTRUMENT AIR	NATURAL (OPEN AREA)
06	A-20000	ELECTROLYSER PACKAGE		
07	A-63000	INSTRUMENT AIR PACKAGE		
08	A-80000	FUEL CELL PACKAGE		
09	A-85000	BESS PACKAGE		
10	YLB-079001/2	LIFE RAFTS		
11	A-50000	WATER TREATMENT PACKAGE		

Tag No.	Equipment Tag	Description	Material	Ventilation Type
12	A-64000	NITROGEN SYSTEM		
13	B-100	HV SWITCHROOM 66kV/6.6kV		
14	B-200	LV SWITCHROOM 400V		
15	B-300	AC UPS EQUIPMENT ROOM		
16	B-400	I&T EQUIPMENT ROOM		
17	TR-100AD1	TRANSFORMER MAIN 66kV/6.6kV		
18	RR-100AD1-NER	NEUTRAL EARTHING RESISTOR		
19	TR-200DE1	TRANSFORMER AUX. 6.6kV/0.4kV		
20	TR-200ED1	SOLAR TRANSFORMER PV FARM EQUIPMENT		
21	X-99001	CRANE		
22	V-64001	NITROGEN RECEIVER		



1. ALL DIMENSIONS IN mm U.N.O
2. ALL ELEVATIONS IN METERS.
3. PLATFORM NORTH DIRECTION IS N 25°W.
4. VENT TOP SHALL BE REACHEABLE FOR MAINTENANCE PURPOSE.
5. THE BESS IS CONSIDERED SAFE AREA EXCEPT EXTRACTORES FROM BATTERIES , CURRENTLY NOT SHOWN IN DRAWINGS, SINCE INFORMATION FROM VENDOR IS NOT YET AVAILABLE.[ES17]
6. THE LOCATION OF EMISSION SOURCES ON THE LAYOUT ARE ONLY INDICATIVE. EMISSION SOURCES CONSIDERED ARE PRESENT WITHIN THE EXTENSION OF HAZARDOUS CLASSIFIED AREAS SHOWN ON THE LAYOUT. THIS IS BECAUSE VALVES AND FLANGES,WHICH ARE CONSIDERED POTENTIAL SOURCES OF RELEASE POINTS FOR FLAMMABLE GAS ARE NOT SHOWN ON CURRENT LAYOUT PROVIDED. THE SAME APPLIES TO THE EMISSION SOURCES FOR CPI'S ITEM.
7. IDENTIFIED EMISSION SOURCES DETAIL

EMISSION SOURCE No.	IDENTIFIED AREAS
ES10	HYDROGEN STORAGE VESSLES
ES11	HYDROGEN VENT KO DRUM
ES16	FUEL CELL

01

ZONE 0 | ZONE 1 | ZONE 2 | ES EMISSION SOURCES

01

01

123A90-DDL-PP-DS-70071	PLOT PLAN - BELOW LOWER DECK
123A90-DDL-PP-DS-70072	PLOT PLAN - ELEVATION LOOKING NORTH & EAST

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	27/08/24	MMA	CCA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	08/02/24	MMA	CCA	DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND

ROSETTI MARINO

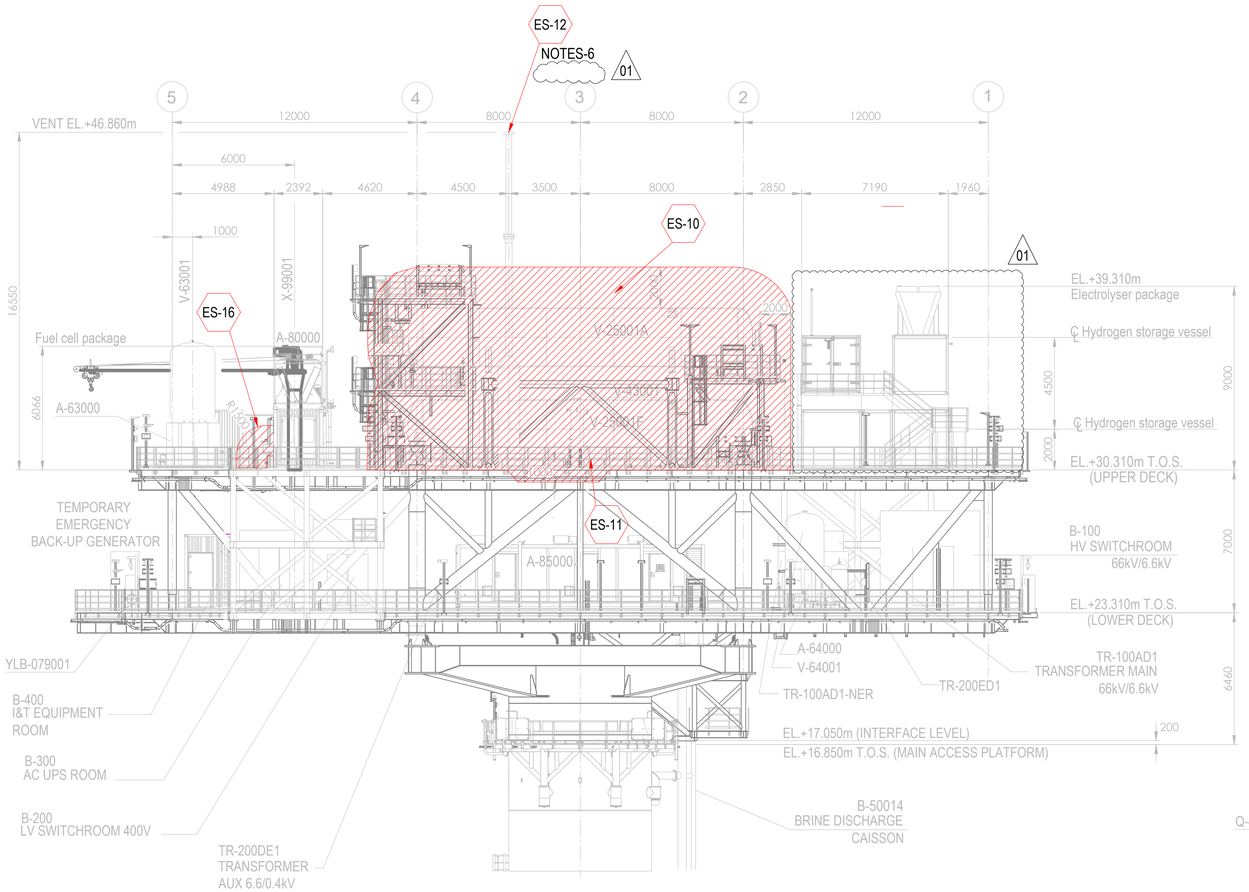
TITLE : BASE LOAD POWER HUB (BLPH)
HAZARDOUS AREA CLASSIFICATION
LOWER & UPPER DECK

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK		SCALE 1:150
DRAWN M. MAGNI	CHECKED C. CARACCIOLO	APPROVED D. LO STERZO	DATE 03/07/24
A1	DRAWING NO. 123A90-DDL-SAF-DL-30022	SHEET 001	REV. 01

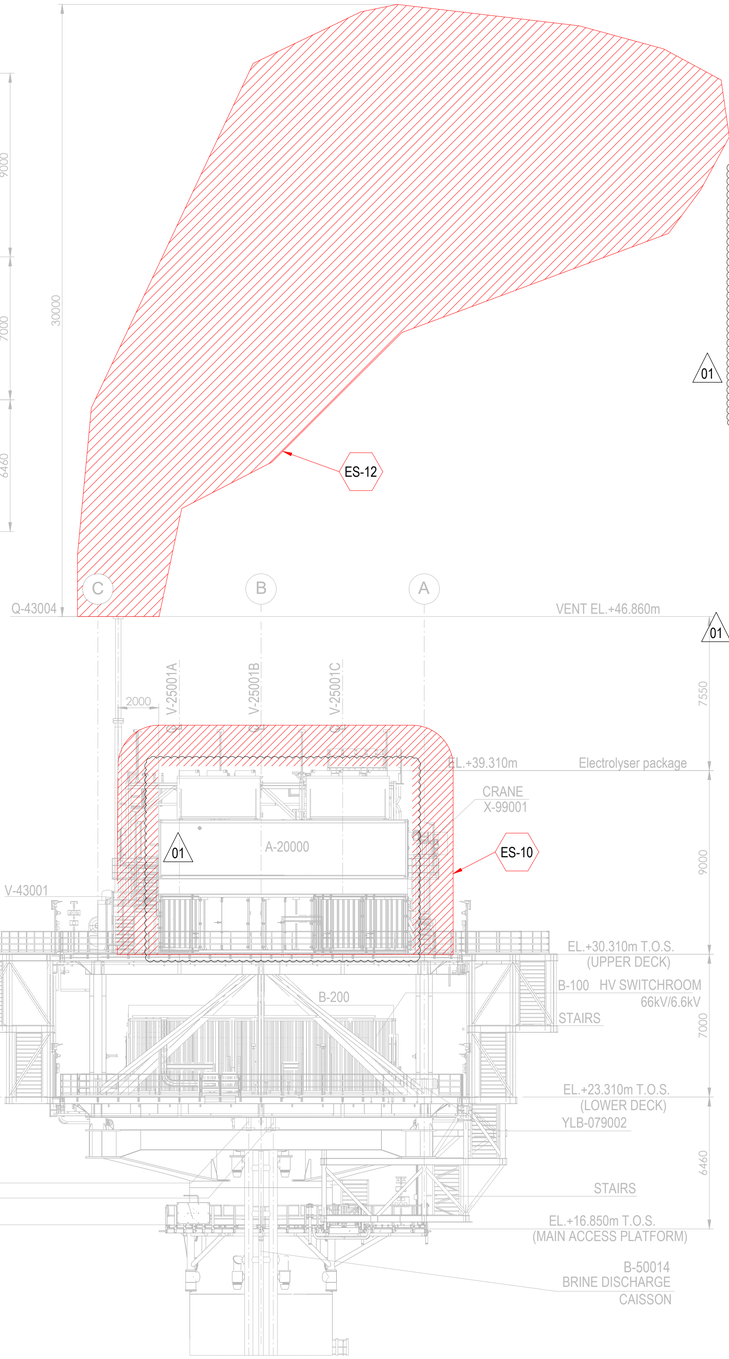
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DRAWING NO. 123A90-DDL-SAF-DL-30024

REV. 01



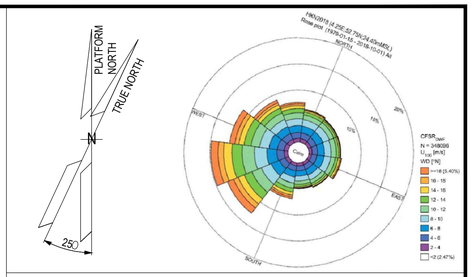
ELEVATION LOOKING EAST



ELEVATION LOOKING NORTH

01

Tag No.	Equipment Tag	Description	Material	Ventilation Type
01	P-50001 A/B	SEA WATER LIFT PUMPS	SEA WATER	NATURAL (OPEN AREA)
02	Q-43004	HYDROGEN VENT	HYDROGEN	NATURAL (OPEN AREA)
03	V-43001	HYDROGEN VENT KO DRUM	HYDROGEN	NATURAL (OPEN AREA)
04	V-25001 (A/B/C/D/E/F)	HYDROGEN STORAGE VESSELS	HYDROGEN	NATURAL (OPEN AREA)
05	V-63001	INSTRUMENT AIR RECEIVER	INSTRUMENT AIR	NATURAL (OPEN AREA)
06	A-20000	ELECTROLYSER PACKAGE		
07	A-63000	INSTRUMENT AIR PACKAGE		
08	A-80000	FUEL CELL PACKAGE		
09	A-85000	BESS PACKAGE		
10	YLB-079001/2	LIFE RAFTS		
11	B-100	HV SWITCHROOM 66kV/6.6kV		
12	B-200	LV SWITCHROOM 400V		
13	B-300	AC UPS EQUIPMENT ROOM		
14	B-400	I&T EQUIPMENT ROOM		
15	TR-100AD1	TRANSFORMER MAIN 66kV/6.6kV		
16	TR-100AD1-NER	NEUTRAL EARTHING RESISTOR		
17	TR-200DE1	TRANSFORMER AUX. 6.6kV/0.4kV		
18	TR-200ED1	SOLAR TRANSFORMER PV FARM EQUIPMENT		
19	X-99001	CRANE		
20	V-64001	NITROGEN RECEIVER		



NOTES

1. ALL DIMENSIONS IN mm U.N.O
2. ALL ELEVATIONS IN METERS.
3. PLATFORM NORTH DIRECTION IS N 25°W.
4. VENT TOP SHALL BE REACHEABLE FOR MAINTENANCE PURPOSE.
5. THE BESS IS CONSIDERED SAFE AREA EXCEPT EXTRACTORES FROM BATTERIES , CURRENTLY NOT SHOWN IN DRAWINGS, SINCE INFORMATION FROM VENDOR IS NOT YET AVAILABLE.[ES17]
6. (ES12) IS SHOWN ONLY ON ELEVATION LOOKING NORTH ON THIS LAYOUT
7. THE LOCATION OF EMISSION SOURCES ON THE LAYOUT ARE ONLY INDICATIVE. EMISSION SOURCES CONSIDERED ARE PRESENT WITHIN THE EXTENSION OF HAZARDOUS CLASSIFIED AREAS SHOWN ON THE LAYOUT. THIS IS BECAUSE VALVES AND FLANGES,WHICH ARE CONSIDERED POTENTIAL SOURCES OF RELEASE POINTS FOR FLAMMABLE GAS ARE NOT SHOWN ON CURRENT LAYOUT PROVIDED. THE SAME APPLIES TO THE EMISSION SOURCES FOR CPI'S ITEM.
8. IDENTIFIED EMISSION SOURCES DETAIL

EMISSION SOURCE No.	IDENTIFIED AREAS
ES10	HYDROGEN STORAGE VESSLES
ES11	HYDROGEN VENT KO DRUM
ES12	HYDROGEN VENT
ES16	FUEL CELL

01

LEGEND

ZONE 0 | ZONE 1 | ZONE 2 | ES EMISSION SOURCES

01

REFERENCE DOCUMENTS

123A90-DDL-PP-DS-70070	PLOT PLAN - LOWER & UPPER DECK
123A90-DDL-PP-DS-70071	PLOT PLAN - BELOW LOWER DECK

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
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00	08/02/24	MMA	CCA	DLO	ISSUE FOR REVIEW (IFR)

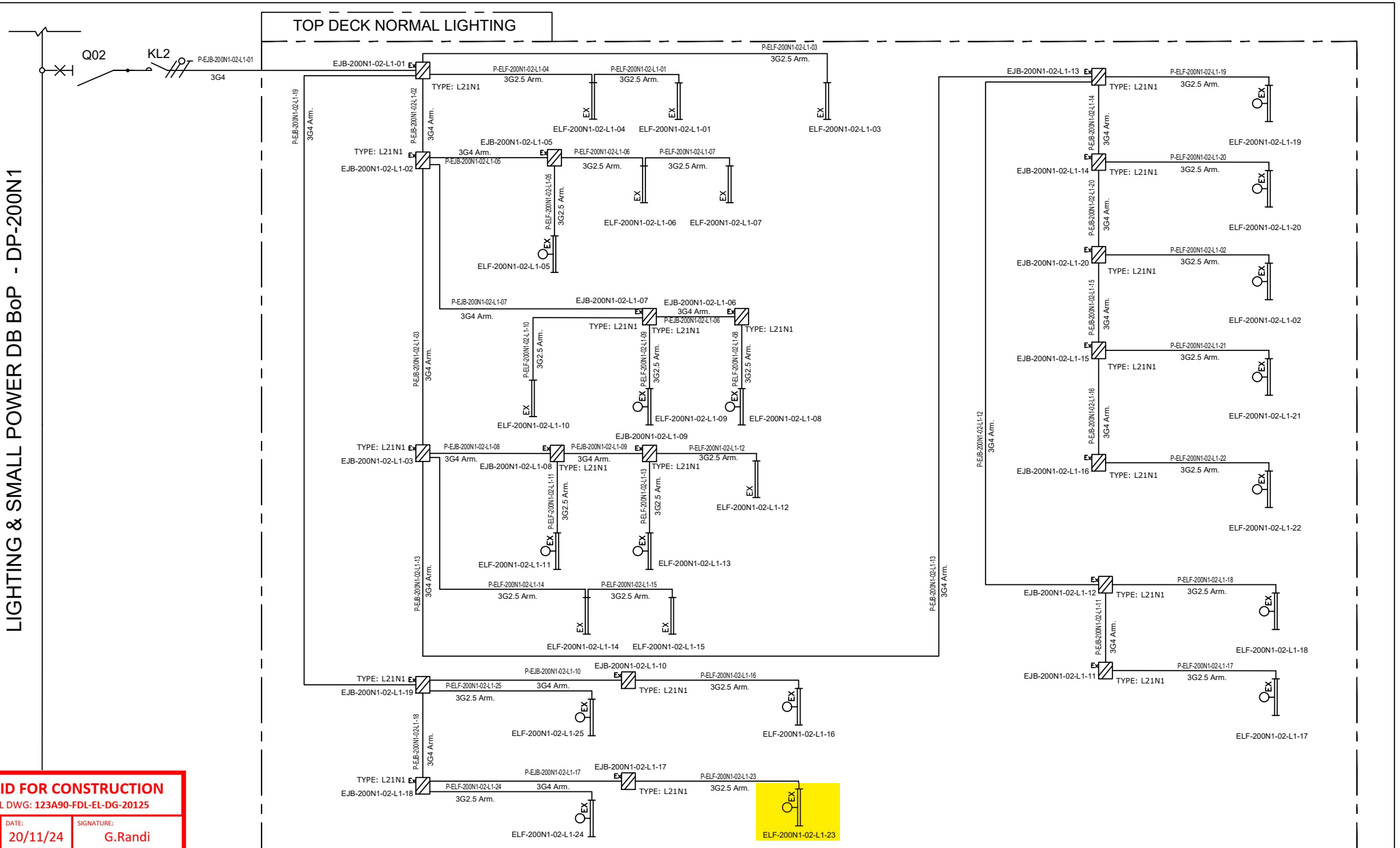
CROSSWIND | ROSETTI MARINO

TITLE :
BASE LOAD POWER HUB (BLPH)
HAZARDOUS AREA CLASSIFICATION
ELEVATION LOOKING NORTH & EAST

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK			SCALE 1:150
DRAWN M. MAGNI	CHECKED C. CARACCIOLO	APPROVED D. LO STERZO	DATE 03/07/24

A1	DRAWING NO. 123A90-DDL-SAF-DL-30024	SHEET 001	REV. 01

File Name : 123A90-DDL-SAF-DL-30024 Rev.01



VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DG-20125**

REV.:	DATE:	SIGNATURE:
2_B	20/11/24	G.Randi

ROSETTI MARINO SpA

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	08/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	01/07/24	ASR	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

TITLE : BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET CIRCUIT DIAGRAM
TOP DECK–NORMAL LIGHTING

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE : NTS

A3

DRAWING NO. 123A90–DDL–EL–DG–20125

SHEET 010

REV. 01

CROSSWIND

ROSETTI MARINO

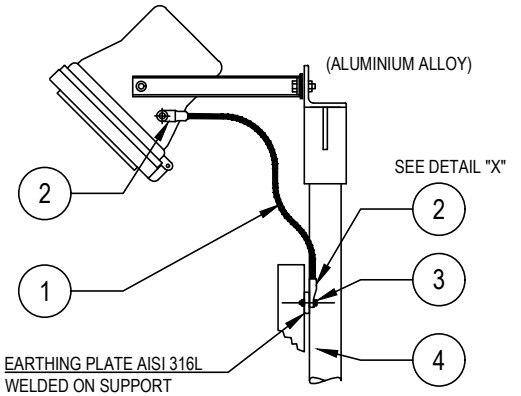
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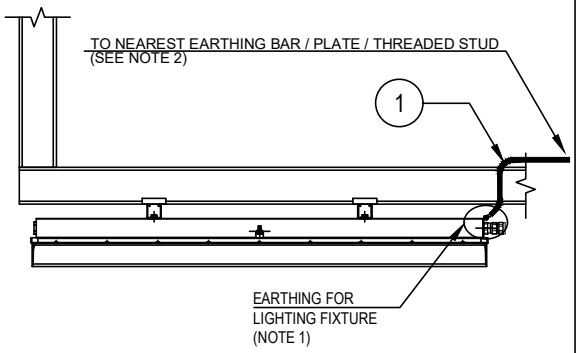
E05

POS.	DESCRIPTION	MATERIAL	SIZE	Q.TY	NOTE
1	Y/G INSULATING COPPER CONDUCTOR	COPPER	$6mm^2$		
2	COMPRESSION TYPE LUG FOR INSULATION COPPER CONDUCTOR	TINNED COPPER	$6mm^2$	2	
3	HEXAG. BOLTS, PLANE WASHERS, SPRING WASHER AND NUT	AISI 316L	M8X30	1	

LIGHTING FIXTURE/GENERAL ITEM ON POLE

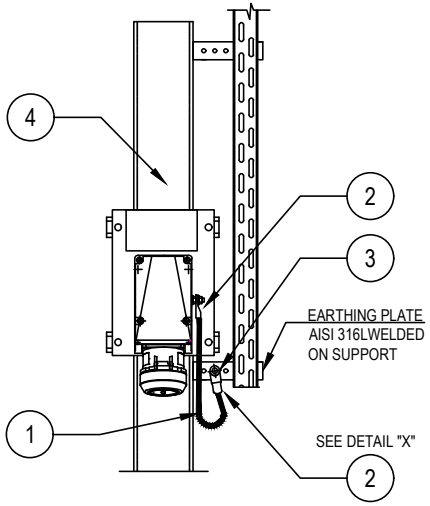


LIGHTING FIXTURES

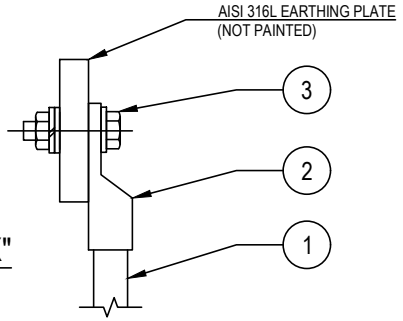


Refer also to TYP. "E32" (SEE SHEET 23)

POWER SOCKET OUTLET



DETAIL "X"



TYPICAL VALID ALSO FOR NAVAID LIGHTS

NOTES:

1) ALL LIGHTING FIXTURES AND RELEVANT ARMOUR OF THE CABLE, ARE CONNECTED TO EARTH CONNECTION THROUGH THE EARTHING TAG OF THE CABLE GLAND

2) FOR EARTHING POINT USE ONE OF THE FOLLOWING METHODS:
TYP. E03A-D sh. 004 (EARTHING BAR ON STRUCT. UNISTRUT AND CABLE TRAY)
TYP. E11C sh. 003 (EARTHING PLATE)
TYP. E11D sh. 003 (THREADED STUD ON EXTERNAL STRUCTURE)

VALID FOR CONSTRUCTION
FDL DWG: 123A90-FDL-EL-DD-20090
REV.: 2_I | DATE: 07/11/24 | SIGNATURE: G.Randi
ROSETTI MARINO SpA

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	26/08/24	GRA	AMA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	10/06/24	SPS	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	21/11/23	SPS	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL TYPICAL INSTALLATION DETAILS–EARTHING SYSTEM
EARTHING FOR ELECTRICAL EQUIPMENTS

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK | SCALE : NTS

A3 | DRAWING NO. 123A90–DDL–EL–DD–20090 | SHEET 006 | REV. 02

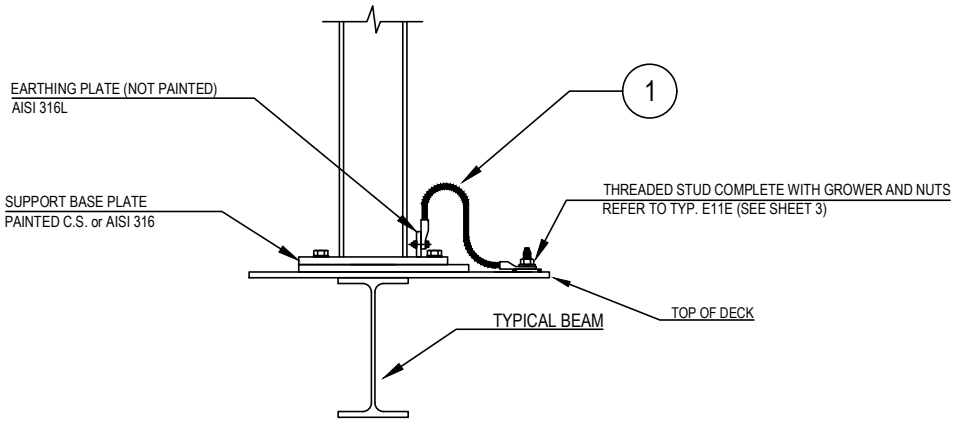
F.to UNI A3: 420mmx297mm

File Name : 123A90-DDL-EL-DD-20090 REV.02.DWG

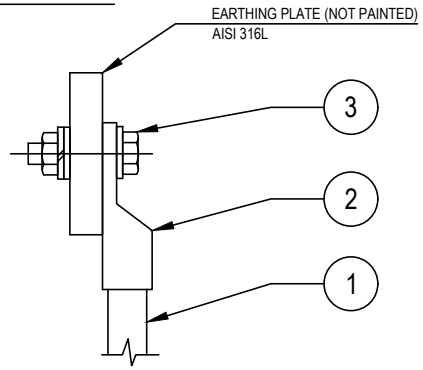
E24

POS.	DESCRIPTION	MATERIAL	SIZE	Q.TY	NOTE
1	As. R. Y/G INSULATING COPPER CONDUCTOR	COPPER	35mm^2		
2	COMPRESSION TYPE LUG FOR INSULATION COPPER CONDUCTOR	TINNED COPPER	35mm^2	2	~~NOTE 1~~
3	HEXAG. BOLT M10X30 COMPLETE WITH PLANE WASHERS, SPRING WASHER AND NUT	AISI 316L	M10X30	2	

GENERIC SUPPORT BOLTED ON STRUCTURE



DETAIL "X"



NOTES:
1) ~~CABLE LUG CRIMPING METHOD SHALL BE HEXAGONAL COMPRESSION DIES ONLY~~
2) EXTERNAL EARTHING CONNECTION ONLY SHALL BE PROTECTED AGAINST CORROSION USING OXIDE RESISTANT COMPOUND (E.G. COPPER GREASE)

VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DD-20090**
REV.: 2_I | DATE: 07/11/24 | SIGNATURE: G.Randi
ROSETTI MARINO SpA

CROSSWIND

ROSETTI MARINO

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	26/08/24	GRA	AMA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	10/06/24	SPS	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	21/11/23	SPS	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL TYPICAL INSTALLATION DETAILS–EARTHING SYSTEM
EARTHING FOR POLE/SUPPORT OF GENERIC EQUIPMENTS

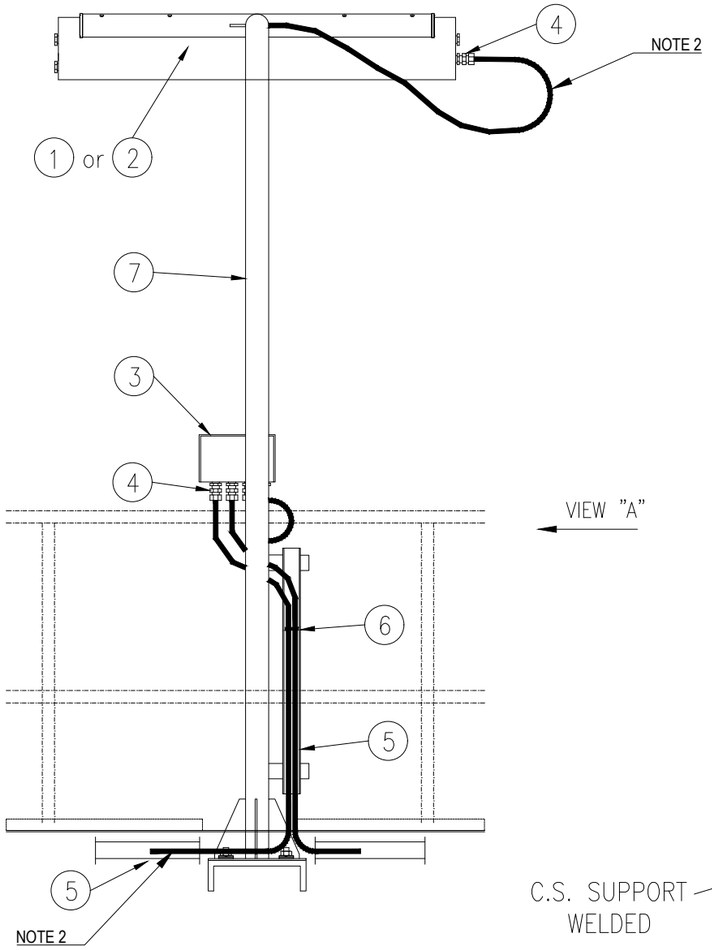
CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK | SCALE : NTS

A3	DRAWING NO.	SHEET	REV.
	123A90-DDL-EL-DD-20090	012	02

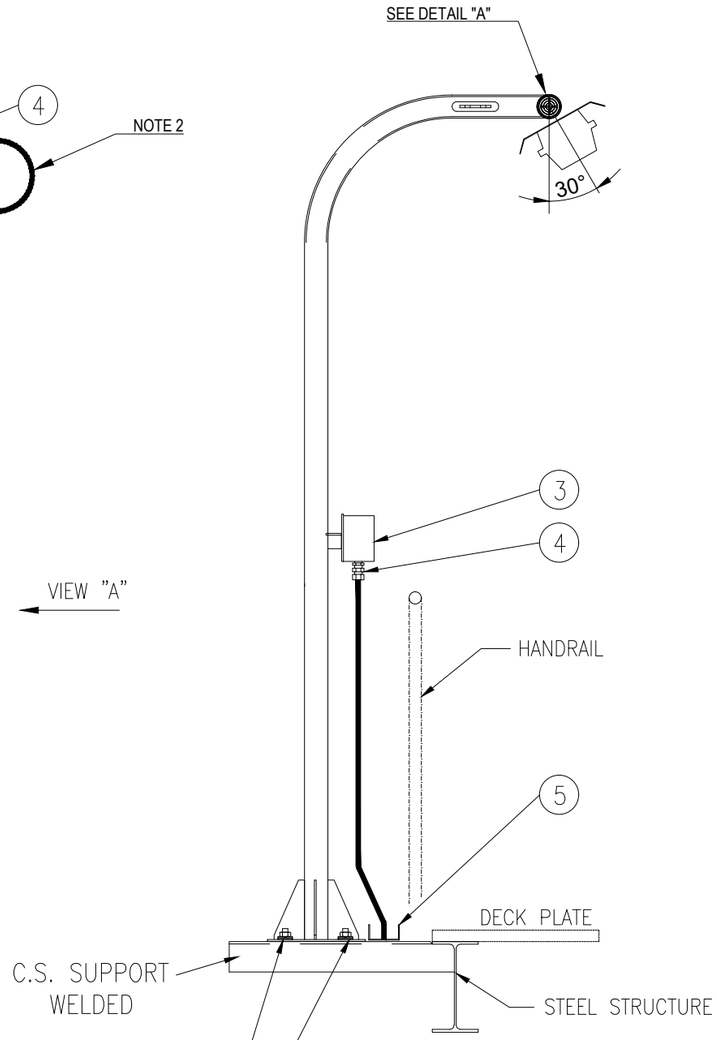
F.to UNI A3: 420mmx297mm

File Name : 123A90-DDL-EL-DD-20090 REV.02.DWG

L11A

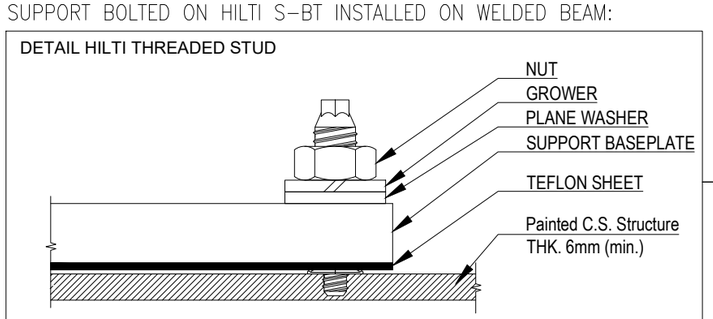


VIEW "A"

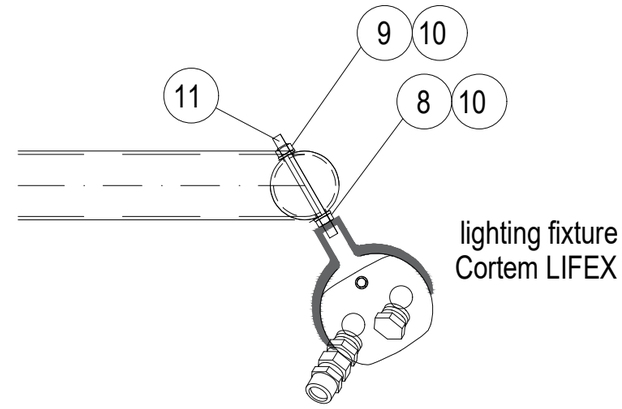


VIEW "A"

SUPPORT BOLTED ON HILTI S-BT INSTALLED ON WELDED BEAM:



POS.	DESCRIPTION	MATERIAL	SIZE	Q.TY	NOTE
1	42W LED LUMINARIES	ALUMINIUM ALLOY		1	
2	45W LED LUMINARIES C/W BATTERY	ALUMINIUM ALLOY		1	
3	JUNCTION BOX (Ex)	GRP		1	NOTE 1
4	CABLE GLAND C/W EARTH TAG, WASHERS, LOCKNUT AND WEATHERPROOF WASHERS	BRASS NICKEL PLATED		AS REQ.	
5	CABLE TRAY	AISI 316L			
6	STAINLESS STEEL NYLON COATED CABLE TIE	SS NYLON COATED			
7	POLE SUPPORT FOR LAMP	AISI 316L	2"		
8	NUT	AISI 316L	M8		
9	SELF.LOCKING NUT	AISI 316L	M8		
10	LARGE PLANE WASHER (24mm DIAM.)	AISI 316L	M8		
11	THREADED ROD M8x100	AISI 316L	M8		



DETAIL "A"

NOTES:

1) FOR LAMPS IN HAZARDOUS AREA, USE ARMOURED CABLE, DOUBLE SEAL CABLE GLAND AND EX JUNCTION BOX.

2) ALWAYS ENSURE CABLE LENGTH IS >3m

VALID FOR CONSTRUCTION
FDL DWG: 123A90-FDL-EL-DD-20091
REV.: 2_A | DATE: 30/09/24 | SIGNATURE: G.Randi
ROSETTI MARINO SpA

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	30/09/24	GRA	AMA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	04/07/24	NLK	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	21/11/23	SPS	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

02

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL TYPICAL INSTALLATION DETAILS-LIGHTING SYSTEM
LIGHTING FIXTURE MOUNTED ON POLE

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK | SCALE : NTS

A3 | DRAWING NO. 123A90-DDL-EL-DD-20091 | SHEET 014 | REV. 02

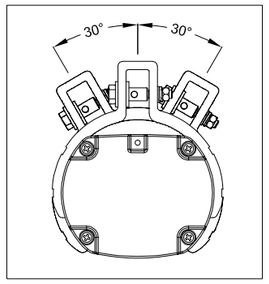
F.to UNI A3: 420mmx297mm

File Name : 123A90-DDL-EL-DD-20091 REV.02.DWG

MODEL C-225 REV.1

GENERAL NOTE:
- PO: 1724001290 DD 26/06/2024
- ITEM.: 1
- Q.TY: 57
- EXTERNAL PAINTING: RAL 7022 (END CAPS)
- INTERNAL PAINTING: NOT PAINTED
- ALL DIMENSIONS ARE IN mm

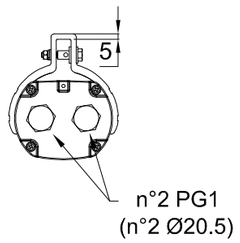
STANDARD FIXING BRACKET
FASTENING WITH 2 THREADED M8
HOLES, ADJUSTABLE FROM 0° TO ±30°



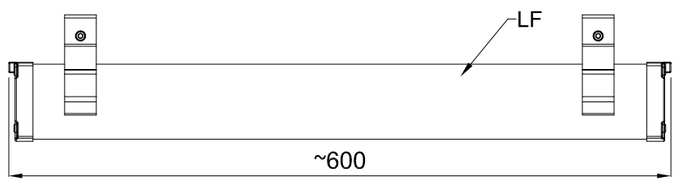
LF INFORMATION	
NOMINAL POWER	45W
CONSUMED POWER	43,5W
POWER FACTOR	>0,93
RATED CURRENT	200 mA
VIEWING ANGLE	120°
COLOUR TEMP.	5000 K
CRI	>80
INSTANT RESTRIKE	YES
LUMEN	6200 lm
LIGHT INTENSITY	2248 cd
EFFICIENCY	143 lm/W
WEIGHT	2,5 Kg
IP PROTECTION	IP66

N°	Q.TY	CODE	DESCRIPTION
LF	1	LIFEX-ME-0645-BB	110-277Vac 50-60Hz 45W LED LINEAR LIGHTING FIXTURE BODY: ALUMINUM ALLOY EXTRUSION AND ALUMINUM END CAPS TRANSPARENT PART: GLASS RESISTANT TO SHOCKS, UV RAYS AND IMPACT RESISTANCE IK09 GASKETS: ACID AND HYDROCARBON RESISTANT SILICONE ASSEMBLY: FASTENING BRACKETS FOR M8 HOLES, ADJUSTABLE 0° TO ±30° MADE IN ANODIZED ALUMINUM CONNECTION: TERMINAL BLOCK ON SIDE (IN) L, N, PE CROSS SEC. MAX. 4mmq SUITABLE FOR LOOP-IN LOOP-OUT SCREWS, BOLTS AND NUTS: STAINLESS STEEL 304
PG1	4	PLG1IB +DL1IB +RDI1IS/A4	IP66 Ex db IIC Gb - Ex eb IIC Gb NICKEL PLATED BRASS PLUG ISO M20x1,5 WITH RELEVANT LOCKNUT AND SERRATED WASHER MADE IN STAINLESS STEEL

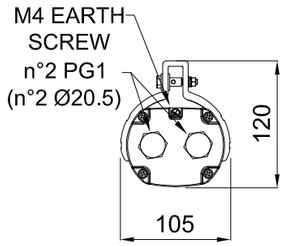
LEFT SIDE (OUT)



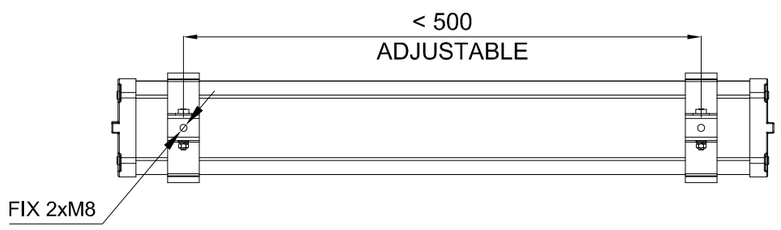
FRONT SIDE



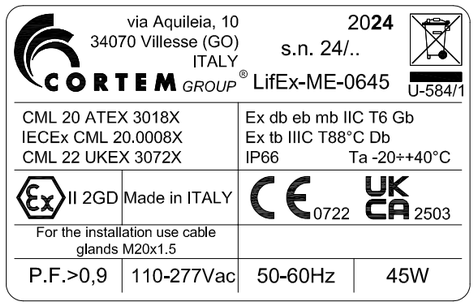
RIGHT SIDE (IN)



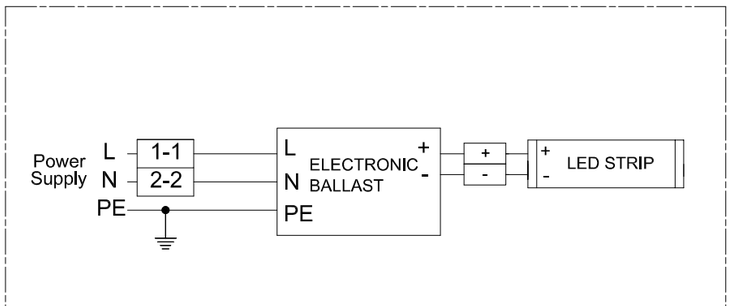
TOP SIDE



CERTIFICATE NAMEPLATE



WIRING DIAGRAM



REV.	DATE	PREP'D	CHK'D	APP'D	DESCRIPTION
2	09/07/2024	FRATTARUOLO	GIUSTI	GRATTON	REISSUED FOR APPROVAL
1	05/07/2024	FRATTARUOLO	GIUSTI	GRATTON	REISSUED FOR APPROVAL
0	28/06/2024	FRATTARUOLO	GIUSTI	GRATTON	ISSUED FOR APPROVAL

DRAWING TITLE: ROSETTI MARINO S.P.A.

CORTEM S.p.a.
GENERAL LAYOUT
001 LIFEX-ME-0645-BB/C2402693/10.

CORTEM JOB: COV2402693
DRAWING SCALE: /
DRAWING NUMBER: A3-C 27521
SHEET: 1
NEXT: 2
TOT.: 2

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AND IT CANNOT BE REPRODUCED WITHOUT CORTEM'S
AUTHORIZATION

Smart Professional R. 2012

Row	Item	Required	Manufacturer Proposal	Comments	Rev.
1	Data Sheet for Lighting Fixtures & Accessories				
2	42W LED Linear Luminaire-Normal Lighting-ATEX Area				
3	Model Number	by vendor	LIFEX-ME-0645-BB		01
4	Serial Number	by vendor			00
5	Quantity	28 Nos.		(25+3 Spare)	01
6	Location / Module	Upper deck			00
7	**LED Lamp**				
8	Nominal power	42 watts	45 watts		01
9	No. of linear	1	1		01
10	Luminous flux	5810 lm	6200 lm		01
11	Colour Temperature	5000 K	5000 K		01
12	**Protection**				
13	Hazardous Area Certification (Ex)	Zone 1 Gas Group IIC (or) IIB + H2, T1	Ex II 2GD Ex db eb mb IIC Gb Ex tb IIIC Db		01
14	Degree of Protection (IP)	IP 56	IP 66		01
15	ATEX certified	Classification EX db	ATEX CML 20 ATEX 3018X		01
16	**Material**				
17	Body	GRP/Aluminium alloy	Aluminium alloy		01
18	Reflector	GRP/Aluminium	Aluminium		01
19	Diffuser	Polycarbonate/temperate glass	Tempered glass		01
20	**Cable Entry**				
21	No. of cable entry	4 Nos.	4 Entries, 2 per side		01
22	Size	M20	Ø20.5mm		01
23	**Emergency Battery Pack**				
24	Requirement	Not required			00
25	Battery type	Not required			00
26	Autonomy	Not required			00
27	Emergency luminous flux	Not required			00
28	**Mechanical parameters**				
29	Dimension	by vendor	600x105x120(mm)		01
30	Weight	by vendor	2.5kg		01

Note:

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Tag Number	Tag Description	Location	P.O.	Vendor	Manufacturer	Serial Number	Model Type Catalogue Number	Installation Zone	ATEX Certificate Number	Reference Document	ATEX Certification Marking	Notes / Comments	Skid / Package	Electrical Equip.	Barrier Calculation Ref.	Special Conditions of Safe Use Applicable	3D Location
ELF-200N1-02-L1-17	Normal Lighting Fixture	UPPER DECK	1724001290	Cortem Spa	Cortem Spa	24/86772	LIFEX-ME-0645-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	
ELF-200N1-02-L1-18	Normal Lighting Fixture	UPPER DECK	1724001290	Cortem Spa	Cortem Spa	24/86772	LIFEX-ME-0645-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	
ELF-200N1-02-L1-19	Normal Lighting Fixture	UPPER DECK	1724001290	Cortem Spa	Cortem Spa	24/86772	LIFEX-ME-0645-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	
ELF-200N1-02-L1-20	Normal Lighting Fixture	UPPER DECK	1724001290	Cortem Spa	Cortem Spa	24/86772	LIFEX-ME-0645-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	
ELF-200N1-02-L1-21	Normal Lighting Fixture	UPPER DECK	1724001290	Cortem Spa	Cortem Spa	24/86772	LIFEX-ME-0645-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	
ELF-200N1-02-L1-22	Normal Lighting Fixture	UPPER DECK	1724001290	Cortem Spa	Cortem Spa	24/86772	LIFEX-ME-0645-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	
ELF-200N1-02-L1-23	Normal Lighting Fixture	UPPER DECK	1724001290	Cortem Spa	Cortem Spa	24/86772	LIFEX-ME-0645-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	
ELF-200N1-02-L1-24	Normal Lighting Fixture	UPPER DECK	1724001290	Cortem Spa	Cortem Spa	24/86772	LIFEX-ME-0645-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	
ELF-200N1-02-L1-25	Normal Lighting Fixture	UPPER DECK	1724001290	Cortem Spa	Cortem Spa	24/86772	LIFEX-ME-0645-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	
ELF-200N1-03-L2-01	Normal Lighting Fixture	LOWER DECK	1724001290	Cortem Spa	Cortem Spa	24/86772	LIFEX-ME-0645-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	
ELF-200N1-03-L2-02	Normal Lighting Fixture	LOWER DECK	1724001290	Cortem Spa	Cortem Spa	24/86772	LIFEX-ME-0645-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	
ELF-200N1-03-L2-03	Normal Lighting Fixture	LOWER DECK	1724001290	Cortem Spa	Cortem Spa	24/86772	LIFEX-ME-0645-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	
ELF-200N1-03-L2-04	Normal Lighting Fixture	LOWER DECK	1724001290	Cortem Spa	Cortem Spa	24/86772	LIFEX-ME-0645-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	
ELF-200N1-03-L2-05	Normal Lighting Fixture	LOWER DECK	1724001290	Cortem Spa	Cortem Spa	24/86772	LIFEX-ME-0645-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	
ELF-200N1-03-L2-06	Normal Lighting Fixture	LOWER DECK	1724001290	Cortem Spa	Cortem Spa	24/86772	LIFEX-ME-0645-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	
ELF-200N1-03-L2-07	Normal Lighting Fixture	LOWER DECK	1724001290	Cortem Spa	Cortem Spa	24/86772	LIFEX-ME-0645-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	
ELF-200N1-03-L2-08	Normal Lighting Fixture	LOWER DECK	1724001290	Cortem Spa	Cortem Spa	24/86772	LIFEX-ME-0645-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	
ELF-200N1-03-L2-09	Normal Lighting Fixture	LOWER DECK	1724001290	Cortem Spa	Cortem Spa	24/86772	LIFEX-ME-0645-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	
ELF-200N1-03-L2-10	Normal Lighting Fixture	LOWER DECK	1724001290	Cortem Spa	Cortem Spa	24/86772	LIFEX-ME-0645-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	
ELF-200N1-03-L2-11	Normal Lighting Fixture	LOWER DECK	1724001290	Cortem Spa	Cortem Spa	24/86772	LIFEX-ME-0645-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	
ELF-200N1-03-L2-12	Normal Lighting Fixture	LOWER DECK	1724001290	Cortem Spa	Cortem Spa	24/86772	LIFEX-ME-0645-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	
ELF-200N1-03-L2-13	Normal Lighting Fixture	LOWER DECK	1724001290	Cortem Spa	Cortem Spa	24/86772	LIFEX-ME-0645-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	
ELF-200N1-03-L2-14	Normal Lighting Fixture	LOWER DECK	1724001290	Cortem Spa	Cortem Spa	24/86772	LIFEX-ME-0645-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	
ELF-200N1-03-L2-15	Normal Lighting Fixture	LOWER DECK	1724001290	Cortem Spa	Cortem Spa	24/86772	LIFEX-ME-0645-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	
ELF-200N1-03-L2-16	Normal Lighting Fixture	LOWER DECK	1724001290	Cortem Spa	Cortem Spa	24/86772	LIFEX-ME-0645-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	
ELF-200N1-04-L3-01	Stair Normal Lighting Fixture	LOWER DECK	1724001290	Cortem Spa	Cortem Spa	24/86772	LIFEX-ME-0645-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	
ELF-200N1-04-L3-02	Stair Normal Lighting Fixture	LOWER DECK	1724001290	Cortem Spa	Cortem Spa	24/86772	LIFEX-ME-0645-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	
ELF-200N1-08-L1-01	Emergency Lighting Fixture	UPPER DECK	1724001290	Cortem Spa	Cortem Spa	24/86773	LIFEX-ME-1260N-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	
ELF-200N1-08-L1-02	Emergency Lighting Fixture	UPPER DECK	1724001290	Cortem Spa	Cortem Spa	24/86773	LIFEX-ME-1260N-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	
ELF-200N1-08-L1-03	Emergency Lighting Fixture	UPPER DECK	1724001290	Cortem Spa	Cortem Spa	24/86773	LIFEX-ME-1260N-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	
ELF-200N1-08-L1-04	Emergency Lighting Fixture	UPPER DECK	1724001290	Cortem Spa	Cortem Spa	24/86773	LIFEX-ME-1260N-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	
ELF-200N1-08-L1-05	Emergency Lighting Fixture	UPPER DECK	1724001290	Cortem Spa	Cortem Spa	24/86773	LIFEX-ME-1260N-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	HAZARDOUS-AREA_8
ELF-200N1-08-L1-06	Emergency Lighting Fixture	UPPER DECK	1724001290	Cortem Spa	Cortem Spa	24/86773	LIFEX-ME-1260N-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	HAZARDOUS-AREA_8 HAZARDOUS-AREA_3 HAZARDOUS-AREA_1 HAZARDOUS-AREA_2
ELF-200N1-08-L1-07	Emergency Lighting Fixture	UPPER DECK	1724001290	Cortem Spa	Cortem Spa	24/86773	LIFEX-ME-1260N-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	HAZARDOUS-AREA_8
ELF-200N1-08-L1-08	Emergency Lighting Fixture	UPPER DECK	1724001290	Cortem Spa	Cortem Spa	24/86773	LIFEX-ME-1260N-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	HAZARDOUS-AREA_3 HAZARDOUS-AREA_6
ELF-200N1-08-L1-09	Emergency Lighting Fixture	UPPER DECK	1724001290	Cortem Spa	Cortem Spa	24/86773	LIFEX-ME-1260N-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	HAZARDOUS-AREA_1 HAZARDOUS-AREA_4
ELF-200N1-08-L1-10	Emergency Lighting Fixture	UPPER DECK	1724001290	Cortem Spa	Cortem Spa	24/86773	LIFEX-ME-1260N-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	HAZARDOUS-AREA_4 HAZARDOUS-AREA_1
ELF-200N1-08-L1-11	Emergency Lighting Fixture	UPPER DECK	1724001290	Cortem Spa	Cortem Spa	24/86773	LIFEX-ME-1260N-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	HAZARDOUS-AREA_6 HAZARDOUS-AREA_3
ELF-200N1-08-L1-12	Emergency Lighting Fixture	UPPER DECK	1724001290	Cortem Spa	Cortem Spa	24/86773	LIFEX-ME-1260N-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	
ELF-200N1-08-L1-13	Emergency Lighting Fixture	UPPER DECK	1724001290	Cortem Spa	Cortem Spa	24/86773	LIFEX-ME-1260N-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	
ELF-200N1-08-L1-14	Emergency Lighting Fixture	UPPER DECK	1724001290	Cortem Spa	Cortem Spa	24/86773	LIFEX-ME-1260N-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	
ELF-200N1-08-L1-15	Emergency Lighting Fixture	UPPER DECK	1724001290	Cortem Spa	Cortem Spa	24/86773	LIFEX-ME-1260N-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	
ELF-200N1-08-L1-16	Emergency Lighting Fixture	UPPER DECK	1724001290	Cortem Spa	Cortem Spa	24/86773	LIFEX-ME-1260N-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	
ELF-200N1-08-L1-17	Emergency Lighting Fixture	UPPER DECK	1724001290	Cortem Spa	Cortem Spa	24/86773	LIFEX-ME-1260N-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	
ELF-200N1-08-L1-18	Emergency Lighting Fixture	UPPER DECK	1724001290	Cortem Spa	Cortem Spa	24/86773	LIFEX-ME-1260N-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	
ELF-200N1-08-L1-19	Emergency Lighting Fixture	UPPER DECK	1724001290	Cortem Spa	Cortem Spa	24/86773	LIFEX-ME-1260N-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	
ELF-200N1-08-L1-20	Emergency Lighting Fixture	UPPER DECK	1724001290	Cortem Spa	Cortem Spa	24/86773	LIFEX-ME-1260N-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	
ELF-200N1-08-L1-21	Emergency Lighting Fixture	UPPER DECK	1724001290	Cortem Spa	Cortem Spa	24/86773	LIFEX-ME-1260N-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	
ELF-200N1-08-L1-22	Emergency Lighting Fixture	UPPER DECK	1724001290	Cortem Spa	Cortem Spa	24/86773	LIFEX-ME-1260N-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	
ELF-200N1-08-L1-23	Emergency Lighting Fixture	UPPER DECK	1724001290	Cortem Spa	Cortem Spa	24/86773	LIFEX-ME-1260N-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	
ELF-200N1-09-L2-01	Emergency Lighting Fixture	LOWER DECK	1724001290	Cortem Spa	Cortem Spa	24/86773	LIFEX-ME-1260N-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	
ELF-200N1-09-L2-02	Emergency Lighting Fixture	LOWER DECK	1724001290	Cortem Spa	Cortem Spa	24/86773	LIFEX-ME-1260N-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	
ELF-200N1-09-L2-03	Emergency Lighting Fixture	LOWER DECK	1724001290	Cortem Spa	Cortem Spa	24/86773	LIFEX-ME-1260N-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	
ELF-200N1-09-L2-04	Emergency Lighting Fixture	LOWER DECK	1724001290	Cortem Spa	Cortem Spa	24/86773	LIFEX-ME-1260N-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	
ELF-200N1-09-L2-05	Emergency Lighting Fixture	LOWER DECK	1724001290	Cortem Spa	Cortem Spa	24/86773	LIFEX-ME-1260N-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	
ELF-200N1-09-L2-06	Emergency Lighting Fixture	LOWER DECK	1724001290	Cortem Spa	Cortem Spa	24/86773	LIFEX-ME-1260N-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	
ELF-200N1-09-L2-07	Emergency Lighting Fixture	LOWER DECK	1724001290	Cortem Spa	Cortem Spa	24/86773	LIFEX-ME-1260N-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	
ELF-200N1-09-L2-08	Emergency Lighting Fixture	LOWER DECK	1724001290	Cortem Spa	Cortem Spa	24/86773	LIFEX-ME-1260N-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	
ELF-200N1-09-L2-09	Emergency Lighting Fixture	LOWER DECK	1724001290	Cortem Spa	Cortem Spa	24/86773	LIFEX-ME-1260N-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	
ELF-200N1-09-L2-10	Emergency Lighting Fixture	LOWER DECK	1724001290	Cortem Spa	Cortem Spa	24/86773	LIFEX-ME-1260N-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	
ELF-200N1-09-L2-11	Emergency Lighting Fixture	LOWER DECK	1724001290	Cortem Spa	Cortem Spa	24/86773	LIFEX-ME-1260N-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	
ELF-200N1-09-L2-12	Emergency Lighting Fixture	LOWER DECK	1724001290	Cortem Spa	Cortem Spa	24/86773	LIFEX-ME-1260N-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	
ELF-200N1-09-L2-13	Emergency Lighting Fixture	LOWER DECK	1724001290	Cortem Spa	Cortem Spa	24/86773	LIFEX-ME-1260N-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	
ELF-200N1-09-L2-14	Emergency Lighting Fixture	LOWER DECK	1724001290	Cortem Spa	Cortem Spa	24/86773	LIFEX-ME-1260N-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	
ELF-200N1-09-L2-15	Emergency Lighting Fixture	LOWER DECK	1724001290	Cortem Spa	Cortem Spa	24/86773	LIFEX-ME-1260N-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	
ELF-200N1-09-L2-16	Emergency Lighting Fixture	LOWER DECK	1724001290	Cortem Spa	Cortem Spa	24/86773	LIFEX-ME-1260N-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	
ELF-200N1-09-L2-17	Emergency Lighting Fixture	LOWER DECK	1724001290	Cortem Spa	Cortem Spa	24/86773	LIFEX-ME-1260N-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	
ELF-200N1-09-L2-18	Emergency Lighting Fixture	LOWER DECK	1724001290	Cortem Spa	Cortem Spa	24/86773	LIFEX-ME-1260N-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	
ELF-200N1-09-L2-19	Emergency Lighting Fixture	LOWER DECK	1724001290	Cortem Spa	Cortem Spa	24/86773	LIFEX-ME-1260N-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	
ELF-200N1-09-L2-20	Emergency Lighting Fixture	LOWER DECK	1724001290	Cortem Spa	Cortem Spa	24/86773	LIFEX-ME-1260N-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	
ELF-200N1-09-L2-21	Emergency Lighting Fixture	LOWER DECK	1724001290	Cortem Spa	Cortem Spa	24/86773	LIFEX-ME-1260N-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	
ELF-200N1-09-L2-22	Emergency Lighting Fixture	LOWER DECK	1724001290	Cortem Spa	Cortem Spa	24/86773	LIFEX-ME-1260N-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	
ELF-200N1-09-L2-23	Emergency Lighting Fixture	LOWER DECK	1724001290	Cortem Spa	Cortem Spa	24/86773	LIFEX-ME-1260N-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	
ELF-200N1-09-L2-24	Emergency Lighting Fixture	BELOW LOWER DECK	1724001290	Cortem Spa	Cortem Spa	24/86773	LIFEX-ME-1260N-BB	Zone 1	CML 20 ATEX 3018X	1724001290-EL-LIS-00005	Ex db eb mb IIC T6 Gb	N/A	N/A	True	N/A	True	

EU Type Examination Certificate CML 20ATEX3018X Issue 1

1 Equipment intended for use in Potentially Explosive Atmospheres Directive 2014/34/EU

2 Equipment **LifEx-ME, LifEx-MN and LifEx-MT series of linear lighting fixtures**

3 Manufacturer **Cortem S.p.A.**

4 Address **Via Aquileia 10**
34070 Villesse
(GO)
Italy

5 The equipment is specified in the description of this certificate and the documents to which it refers.

6 CML B.V., Chamber of Commerce No 6738671, Koopvaardijweg 32, 4906CV Oosterhout, The Netherlands, Notified Body Number 2776, in accordance with Article 17 of Directive 2014/34/EU of the European Parliament and of the Council, dated 26 February 2014, certifies that this equipment has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of equipment intended for use in potentially explosive atmospheres given in Annex II to the Directive.

The examination and test results are recorded in the confidential reports listed in Section 12.

7 If an 'X' suffix appears after the certificate number, it indicates that the equipment is subject to conditions of safe use (affecting correct installation or safe use). These are specified in Section 14.

8 This EU Type Examination certificate relates only to the design and construction of the specified equipment or component. Further requirements of Directive 2014/34/EU Article 13 apply to the manufacture of the equipment or component and are separately certified.

9 Compliance with the Essential Health and Safety Requirements, with the exception of those listed in the confidential report, has been demonstrated through compliance with the following documents:

EN IEC 60079-0:2018	EN 60079-1:2014	EN IEC 60079-7:2015+A1:2018
EN 60079-18:2015+A1:2017	EN 60079-31:2014	

10 The equipment shall be marked with the following:

LifEx-ME	LifEx-MN and LifEx-MT
Ex db eb mb IIC T.. Gb	Ex tb IIIC T…°C Db
Ex eb mb IIC T.. Gb *(when Ex mb LED drivers are used)*	IP66
Ex tb IIIC T…°C Db	
IP66	
Ta=* see description	Ta=* see description

11 Description

The LifEx is a range of linear LED lighting fixtures that are available in three different configurations for different applications, designated as the LifEx-ME, LifEx-MT and LifEx-MN.

LifEx-ME

The LifEx-ME version has an Equipment Protection Level of EPL Gb and Db and utilises types of protection increased safety (eb) and dust protection by enclosure (tb), along with encapsulation (mb) for the light source and flameproof (db) for the driver.

It is constructed from an aluminium enclosure, with either a glass or polycarbonate lens and with optional polycarbonate diffuser.

LifEx-MN

The LifEx-MN version has an Equipment Protection Level of EPL Gc and Db and utilises types of protection increased safety (ec) and dust protection by enclosure (tb).

It is constructed from an aluminium enclosure, with polycarbonate diffuser and/or with optional glass or polycarbonate lens.

LifEx-MT

The LifEx-MT versions has an Equipment Protection Level of EPL Db and utilises types of protection dust protection by enclosure (tb).

It is constructed from an aluminium enclosure, with polycarbonate diffuser and/or with optional glass or polycarbonate lens.

Design Options

Every configuration is available in lengths ranging from 300 mm to 1500 mm, and power ratings up to a maximum of 105W of nominal power.

The LifEx can be used in only normal service, in only emergency service or in normal and emergency service.

The minimum ambient temperature for the range is:

- -60°C for versions without battery
- -60°C for versions with the battery heater
- -20°C for versions with battery

The range is available with the following maximum ambient temperatures:

	With glass lens and with/without polycarbonate diffuser	With Polycarbonate lens and with/without polycarbonate diffuser	Without lens polycarbonate diffuser only
LifEx-M...0310	+60°C	+60°C	+60°C
LifEx-M...0315	+60°C	+60°C	+60°C
LifEx-M...0330	+60°C	Configuration not available	Configuration not available
LifEx-M...0615	+60°C	+60°C	+60°C
LifEx-M...0630	+60°C	+50°C	+60°C
LifEx-M...0645	+57°C	+47°C	+60°C
LifEx-M...0660	+47°C	Configuration not available	+58°C
LifEx-M...1230	+60°C	+60°C	+60°C
LifEx-M...1260	+60°C	+50°C	+60°C
LifEx-M...1290	+60°C	+40°C	+60°C
LifEx-M...12120	+54°C	Configuration not available	+60°C
LifEx-M...1590	+60°C	+40°C	+60°C

Table 1: Maximum Ambient Temperatures

The following tables provide the Temperature Class (EPL Gb) and Maximum Surface Temperature (EPL Db) for each LifEx type, with the following notes:

- The LifEx-MN with an ambient temperature greater than 50°C is T5 or T4. T6 is not included.
- The Temperature Class (EPL Gb) and Maximum Surface Temperature (EPL Db) in the tables below are not applicable when the ambient temperature is not permitted in the above maximum ambient temperature range table.

13. (For example, the LifEx-M...0660 is not permitted with polycarbonate lens, therefore the Temperature Class (EPL Gb) and Maximum Surface Temperature (EPL Db) for this version in tables 2 and 3 are not applicable)

	Temperature Class (EPL Gb and Gc) and Maximum Surface Temperature (EPL Db) Based on ambient temperature													
	40°C		45°C		47°C		50°C		54°C		57°C		60°C	
	EPL Db	EPL Gb/Gc	EPL Db	EPL Gb/Gc	EPL Db	EPL Gb/Gc	EPL Db	EPL Gb/Gc	EPL Db	EPL Gb/Gc	EPL Db	EPL Gb/Gc	EPL Db	EPL Gb/Gc
LifEx-M...0310	T56°C	T6	T56°C	T6	T58°C	T6	T61°C	T6	T65°C	T6	T68°C	T6	T71°C	T6
LifEx-M...0315	T56°C	T6	T56°C	T6	T58°C	T6	T61°C	T6	T65°C	T6	T68°C	T6	T71°C	T6
LifEx-M...0615	T56°C	T6	T56°C	T6	T58°C	T6	T61°C	T6	T65°C	T6	T68°C	T6	T71°C	T6
LifEx-M...0630	T69°C	T6	T69°C	T5	T71°C	T5	T74°C	T5	T78°C	T5	T81°C	T4	T84°C	T4
LifEx-M...0645	T72°C	T5	T72°C	T5	T74°C	T5	T77°C	T5	T81°C	T4	T84°C	T4	T87°C	T4
LifEx-M...0660	T77°C	T5	T77°C	T4	T79°C	T4	T82°C	T4	T86°C	T4	T89°C	T4	T92°C	T4
LifEx-M...1230	T58°C	T6	T58°C	T6	T60°C	T6	T63°C	T6	T67°C	T6	T70°C	T6	T73°C	T6
LifEx-M...1260	T67°C	T6	T67°C	T5	T69°C	T5	T72°C	T5	T76°C	T5	T79°C	T4	T82°C	T4
LifEx-M...1290	T72°C	T5	T72°C	T5	T74°C	T4	T77°C	T4	T81°C	T4	T84°C	T4	T87°C	T4
LifEx-M...12120	T75°C	T5	T75°C	T4	T77°C	T4	T80°C	T4	T84°C	T4	T87°C	T4	T90°C	T4
LifEx-M...1590	T72°C	T5	T72°C	T5	T74°C	T4	T77°C	T4	T81°C	T4	T84°C	T4	T87°C	T4

Table 2: Temperature Class (EPL Gb) and Maximum Surface Temperature (EPL Db) for LifEx types with glass/polycarbonate lens and with polycarbonate diffuser

	Temperature Class (EPL Gb and Gc) and Maximum Surface Temperature (EPL Db) Based on ambient temperature					
	40°C		55°C		60°C	
	EPL Db	EPL Gc	EPL Db	EPL Gc	EPL Db	EPL Gc
LifEx-ME-0330	T58°C	T6	T73°C	T6	T78°C	T5
LifEx-MN-0330	T58°C	T6	T73°C	T5	T78°C	T4
LifEx-MT-0330	T58°C	-	T73°C	-	T78°C	-

Table 3: Temperature Class (EPL Gb and Gc) and Maximum Surface Temperature (EPL Db) for LifEx-M...-0330 types with glass/polycarbonate window and without polycarbonate diffuser

	Temperature Class (EPL Gb) and Maximum Surface Temperature (EPL Db) Based on ambient temperature													
	40°C		45°C		47°C		50°C		54°C		57°C		60°C	
	EPL Db	EPL Gb	EPL Db	EPL Gb	EPL Db	EPL Gb	EPL Db	EPL Gb	EPL Db	EPL Gb	EPL Db	EPL Gb	EPL Db	EPL Gb
LifEx-M...0310	T62°C	T6	T62°C	T6	T64°C	T6	T67°C	T6	T71°C	T6	T74°C	T6	T77°C	T6
LifEx-M...0315	T62°C	T6	T62°C	T6	T64°C	T6	T67°C	T6	T71°C	T6	T74°C	T6	T77°C	T6
LifEx-M...0615	T62°C	T6	T62°C	T6	T64°C	T6	T67°C	T6	T71°C	T6	T74°C	T6	T77°C	T6
LifEx-M...0630	T85°C	T6	T85°C	T5	T87°C	T5	T90°C	T5	T94°C	T5	T97°C	T4	T100°C	T4
LifEx-M...0645	T88°C	T6	T88°C	T5	T90°C	T5	T93°C	T5	T97°C	T4	T100°C	T4	T103°C	T4
LifEx-M...0660	T100°C	T6	T100°C	T4	T102°C	T4	T105°C	T4	T109°C	T4	T112°C	T4	T115°C	T4
LifEx-M...1230	T65°C	T6	T65°C	T6	T67°C	T6	T70°C	T6	T74°C	T6	T77°C	T6	T80°C	T6
LifEx-M...1260	T85°C	T6	T85°C	T5	T87°C	T5	T90°C	T5	T94°C	T5	T97°C	T4	T100°C	T4
LifEx-M...1290	T94°C	T6	T94°C	T5	T96°C	T4	T99°C	T4	T103°C	T4	T106°C	T4	T109°C	T4
LifEx-M...12120	T96°C	T5	T96°C	T4	T98°C	T4	T101°C	T4	T105°C	T4	T108°C	T4	T111°C	T4
LifEx-M...1590	T94°C	T6	T94°C	T5	T96°C	T4	T99°C	T4	T103°C	T4	T106°C	T4	T109°C	T4

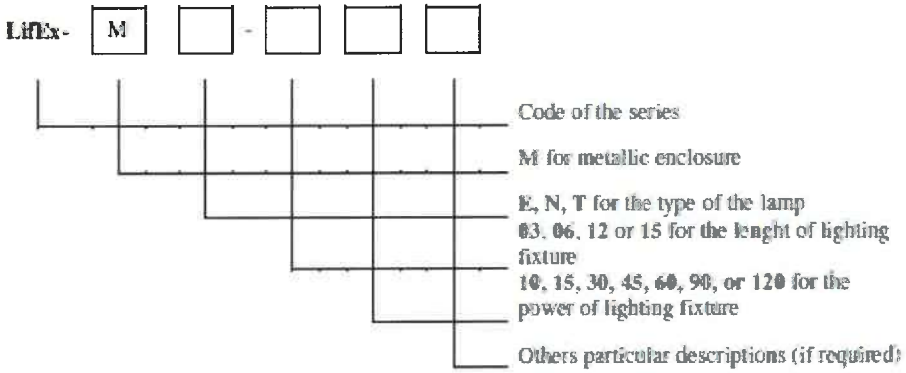
Table 4: Temperature Class (EPL Gb) and Maximum Surface Temperature (EPL Db) for LifEx types with glass/polycarbonate lens and without polycarbonate diffuser

	Maximum Surface Temperature (EPL Db) Based on ambient temperature						
	40°C	45°C	47°C	50°C	54°C	57°C	60°C
LifEx-M...0310	T56°C	T56°C	T58°C	T61°C	T65°C	T68°C	T71°C
LifEx-M...0315	T56°C	T56°C	T58°C	T61°C	T65°C	T68°C	T71°C
LifEx-M...0615	T56°C	T56°C	T58°C	T61°C	T65°C	T68°C	T71°C
LifEx-M...0630	T69°C	T69°C	T71°C	T74°C	T78°C	T81°C	T84°C
LifEx-M...0645	T72°C	T72°C	T74°C	T77°C	T81°C	T84°C	T87°C
LifEx-M...0660	T77°C	T77°C	T79°C	T82°C	T86°C	T89°C	T92°C
LifEx-M...1230	T58°C	T58°C	T60°C	T63°C	T67°C	T70°C	T73°C
LifEx-M...1260	T67°C	T67°C	T69°C	T72°C	T76°C	T79°C	T82°C
LifEx-M...1290	T72°C	T72°C	T74°C	T77°C	T81°C	T84°C	T87°C
LifEx-M...12120	T75°C	T75°C	T77°C	T80°C	T84°C	T87°C	T90°C
LifEx-M...1590	T72°C	T72°C	T74°C	T77°C	T81°C	T84°C	T87°C

Table 5: (Applicable to EPL Db only) Maximum Surface Temperature for LifEx types without glass/polycarbonate lens and with polycarbonate diffuser

The equipment has been separately tested against the requirements of IEC 60529 and it meets IP66. The gaskets on the caps provide the degree of protection.

The equipment uses the following nomenclature:



Variation 1:

This variation has assed the following changes:

i. Addition of an optional new removable cover for "easy installation" (which use the new aluminium extrusion);
ii. Addition of an optional external battery box;
iii. minimum ambient temperature extended to -60°C when Ex mb heater is used;
iv. Additional optional Ex mb EBM LED driver as an alternative to EBL3040 / EBL4040 Ex db series LED drivers;
v. added 30W model for size 300mm (LifEx-M..-0330).

12 Certificate history and evaluation reports

Issue	Date	Associated report	Notes
0	06 May 2020	R13027A/00	Prime Issue
1	01 Jul 2022	R14875A/00	Introduction of Variation 1

Note: Drawings that describe the equipment or component are listed in the Annex.

13 Conditions of Manufacture

The following conditions are required of the manufacturing process for compliance with the certification.

i. Where the product incorporates certified parts or safety critical components the manufacturer shall ensure that any changes to those parts or components do not affect the compliance of the certified product that is the subject of this certificate.
ii. The LifEx series lighting fixtures are to be designed in accordance with general electrical safety standards.
iii. The routine dielectric strength test on the LifEx-ME and LifEx-MN luminaries with applied voltage shall be performed at 2U + 1000V with a minimum value of 1560V (U = maximum rated voltage of the lamp)

iv. A routine visual inspection of the encapsulated parts is required, as per Clause 9.1 of IEC 60079-18. There shall be no visible damage or deformation to the encapsulant.

v. Where the removable battery pack is used with phoenix contacts, if used with a T6 version of the equipment, the maximum ambient shall be limited to +40°C.

14 Specific Conditions of Use (Special Conditions)

The following conditions relate to safe installation and/or use of the equipment.

i. Cable entries are provided which have less than 5 threads engaged. Care must be taken to ensure the correct gaskets and washers are sued with the cable gland to maintain IP66.

ii. The equipment uses an external part that is constructed from non-metallic materials, and as such care is to be taken to prevent an electro-static charging hazard. See instruction manual for details.

iii. For versions with glass window of 4mm thickness without cover, the luminaire must be installed in a location with a low risk of mechanical danger

iv. The temperature at the entry point may reach up to 75°C. Suitably rated cable glands must be used.

Certificate Annex

Certificate Number	**CML 20ATEX3018X**
Equipment	**LifEx-ME, LifEx-MN and LifEx-MT series of linear lighting fixtures**
Manufacturer	**Cortem S.p.A.**

The following documents describe the equipment or component defined in this certificate:

Issue 0

Drawing No	Sheets	Rev	Approved date	Title
A3-7466	1 to 6	0	06 May 2020	LifEx-M Luminaires
A4-7467	1 to 6	0	06 May 2020	Technical Note

Issue 1

Drawing No.	Sheets	Rev	Approved date	Title
A3-7466	1 of 6	1	01 Jul 2022	LifEx-M Luminaires Assembly and External Dimensions
A3-7466	2 of 6	1	01 Jul 2022	LifEx-M Luminaires Detail of sealing and op is protection
A3-7466	3 of 6	1	01 Jul 2022	LifEx-M Luminaires Detail of driver and inverter for LifEx-ME version
A3-7466	4 of 6	1	01 Jul 2022	LifEx-M Luminaires Circuit diagram for LifeEx-ME version
A3-7466	5 of 6	1	01 Jul 2022	LifEx-M Luminaires Circuit diagram LifEx-MN and LifEx-MT version
A3-7466	6 of 6	1	01 Jul 2022	LifEx-M Luminaires Detail of battery pack
A3-7729	1 to 3	0	01 Jul 2022	Battery heater for -60°C /-40°C applications Assembly and External Dimensions
A4-7727	1 to 8	0	01 Jul 2022	Technical Note

Section 6 MECHANICAL COMPLETION STATUS INDEX - INSTRUMENTAL DISCIPLINE

NOT APPLICABLE

Section 7 MECHANICAL COMPLETION STATUS INDEX - MECHANICAL DISCIPLINE

NOT APPLICABLE

Section 8 MECHANICAL COMPLETION STATUS INDEX - TELECOMMUNICATION DISCIPLINE

NOT APPLICABLE

Section 9 MECHANICAL COMPLETION STATUS INDEX - HVAC DISCIPLINE

NOT APPLICABLE

Section 10 MECHANICAL COMPLETION STATUS INDEX - PIPING DISCIPLINE

NOT APPLICABLE

Section 11 MECHANICAL COMPLETION INDEX - SAFETY DISCIPLINE

NOT APPLICABLE

Section 12 FAT / VENDOR REPORTS

NOT APPLICABLE

Section 13 MECHANICAL COMPLETION CHANGES / MARK-UPS

NOT APPLICABLE