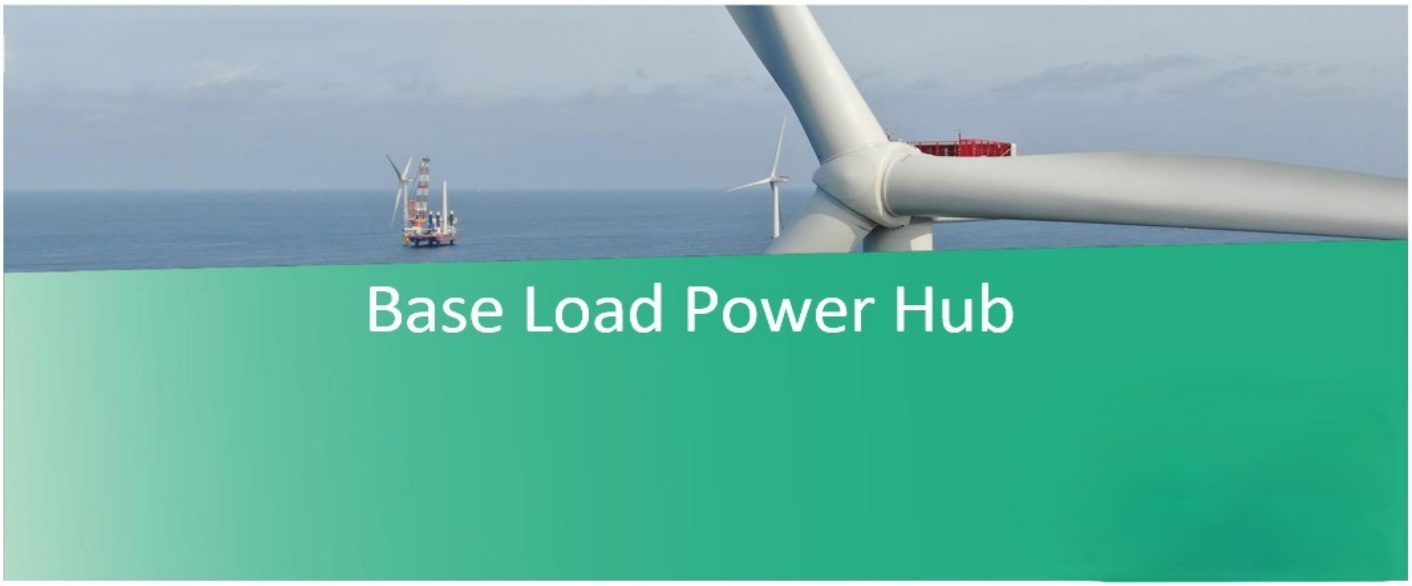
CROSSWIND

ROSETTI MARINO

PROVERLIS

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



MECHANICAL COMPLETION DOSSIER (ONSHORE)

SYSTEM	83 Main Power Distribution Low Voltage 440 V
SUBSYSTEM	83-50 Welding Sockets

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

Sub System N°:	83-50	Tick as appropriate	ONSHORE	O
Description:	Welding Sockets		OFFSHORE	NA

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

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

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

ROSETTI MARINO

123A90 - HOLLANDSE KUST NOORD WIND PARK
BLPH Project

CROSSWIND

Ready For Commissioning (RFC) Certificate

COMPLETE	●	PARTIAL	

Revision:	1		Issued on:	2025-01-23	
System:	83	/	Main Power Distribution Low Voltage 440 V		
SubSystem:	83-50	/	Welding Sockets		

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

PUNCH LIST	PENDING POINTS	
Note: All Category "A" Items must be cleared prior to issue a Ready For Commissioning (RFC) Certificate	A '0	B 15

REMARKS:

	CONTRACTOR Construction Manager	**CONTRACTOR** Commissioning Manager	**COMPANY** Construction Lead (if required)	**COMPANY** Commissioning Lead (if required)
Name	Wolmer Borghi	Anthony Iveson	CPY NOT PRESENT	CPY NOT PRESENT
Date	2025-01-24	2025-02-08	2025-02-10	2025-02-10
Signature	PROVERLIS Digitaly signed by Wolmer Borghi 2025-01-24T12:00:31.231Z	PROVERLIS Digitaly signed by Anthony Iveson 2025-02-08T16:51:54.465Z	PROVERLIS Digitaly signed by CPY NOT PRESEN 2025-02-10T16:00:13.894Z	PROVERLIS Digitaly signed by CPY NOT PRESEN 2025-02-10T16:00:22.464Z

CROSSWIND

ROSETTI MARINO

Project CROSSWIND

STATUS INDEX DETAIL

Filtered on subsystem: 83-50 & process: MC

Electrical	83-50 Welding Sockets						
ITEM		TASK					
Code	Description	Location	Code	Form	Progress	Date	Certificate
83021-CEL-01	Welding Sockets (Top Deck) JB's / Welding Socket (Top Deck)	ONSHORE	C10000543	CPX09	100	2024-12-04	RFC 1
83021-CEL-02	Welding Sockets (Top Deck) JB's / Welding Socket (Top Deck)	ONSHORE	C10000544	CPX09	100	2024-12-31	RFC 1
83022-CEL-01	Welding Sockets (Lower Deck) JB's / Welding Socket (Lower Deck)	ONSHORE	C10000546	CPX09	100	2024-12-04	RFC 1
83022-CEL-02	Welding Sockets (Lower Deck) JB's / Welding Socket (Lower Deck)	ONSHORE	C10000547	CPX09	100	2024-12-17	RFC 1
ESW-200N1-01	WELDING SOCKET	ONSHORE	C10001848	CPX00	100	2024-12-17	RFC 1
ESW-200N1-02	WELDING SOCKET	ONSHORE	C10001849	CPX00	100	2024-12-30	RFC 1
ESW-200N2-01	Welding Socket (Lower Deck)	ONSHORE	C10001850	CPX00	100	2024-12-12	RFC 1
ESW-200N2-02	Welding Socket (Lower Deck)	ONSHORE	C10001851	CPX00	100	2024-12-12	RFC 1

CROSSWIND

ROSETTI MARINO

Project CROSSWIND

PUNCH LIST REPORT

SYSTEM	83	Main Power Distribution Low Voltage 440 V
SUBSYSTEM	83-50	Welding Sockets

Electrical

CODE	CAT	ITEM	DEFECT DESCRIPTION	CORRECTIVE ACTION	PERFORMED ACTION	ISSUED	CARRIED	CHECKED	APPROVED
C30001965	A	ESW-200N1-01 C10001848	Not enought threads are thightened between the lock nut and the cable gland body.	.		Lmussi 2024-12-17	2025-01-23	AAndreani 2025-01-23	2025-01-23
C30002230	A	ESW-200N1-02 C10001849	Earthing cable is passing through the unistrut.	.		Lmussi 2024-12-30	2025-01-21	Lmussi 2025-01-21	2025-01-21
C30001305	B	83022-CEL-01 C10000546	Missing cable tags on all internal and external routing (83022-CEL-01).	.		Gtangianu 2024-12-04			
C30001306	B	83021-CEL-01 C10000543	Missing cable tags on all internal and external routing (83021-CEL-01).	.		Gtangianu 2024-12-04			
C30001307	B	83022-CEL-01 C10000546	Identification tag wires missing both side the (83022-CEL-01).	.		Gtangianu 2024-12-04			
C30001308	B	83021-CEL-01 C10000543	Identification tag wires missing both side the (83021-CEL-01).	.		Gtangianu 2024-12-04			
C30001949	B	83022-CEL-02 C10000547	On both JBs side core identification tags are missing for all wires.	.		Lmussi 2024-12-17			
C30001950	B	83022-CEL-02 C10000547	Not enought threads are thightened between the lock nut and the cable gland body.	.		Lmussi 2024-12-17			
C30001951	B	83022-CEL-02 C10000547	On both JBs side, identification tags are missing on the terminal block.	.		Lmussi 2024-12-17			

CROSSWIND

ROSETTI MARINO

Project CROSSWIND

PUNCH LIST REPORT

SYSTEM 83 Main Power Distribution Low Voltage 440 V

SUBSYSTEM 83-50 Welding Sockets

Electrical

CODE	CAT	ITEM	DEFECT DESCRIPTION	CORRECTIVE ACTION	PERFORMED ACTION	ISSUED	CARRIED	CHECKED	APPROVED
C30001962	B	ESW-200N1-01 C10001848	Some core identification are missing on the terminal block	.		Lmussi 2024-12-17			
C30001963	B	ESW-200N1-01 C10001848	Serrated washer is missing on the plug.	.		Lmussi 2024-12-17			
C30002227	B	ESW-200N1-02 C10001849	Drain valve (as per 123A90-DDL-EL-DS-20067) is missing.	.		Lmussi 2024-12-30	2025-01-14	Ecarotenuto 2025-01-14	2025-01-14
C30002228	B	ESW-200N1-02 C10001849	Serrated washers are missing for plugs.	.		Lmussi 2024-12-30			
C30002229	B	ESW-200N1-02 C10001849	Some identification are missing on Terminal Block	.		Lmussi 2024-12-30			
C30002261	B	83021-CEL-02 C10000544	On ESW-200N1-02 side SS cable tag is missing.	.		Lmussi 2024-12-31			
C30002264	B	83021-CEL-02 C10000544	on both sockets sides (ESW-200N1-01 & ESW-200N1-02) core identification tags are missing for all wires.	.		Lmussi 2024-12-31			
C30002265	B	83021-CEL-02 C10000544	MCTs are missing.	.		Lmussi 2024-12-31			
C30002267	B	83021-CEL-02 C10000544	On ESW-200N1-01 side, bending radius of the cable to be corrected.	.		Lmussi 2024-12-31			

Section 2 CONSOLIDATED PUNCH LISTS

CROSSWIND

ROSETTI MARINO

Project CROSSWIND

PUNCH LIST REPORT

SYSTEM	83	Main Power Distribution Low Voltage 440 V
SUBSYSTEM	83-50	Welding Sockets

Electrical

CODE	CAT	ITEM	DEFECT DESCRIPTION	CORRECTIVE ACTION	PERFORMED ACTION	ISSUED	CARRIED	CHECKED	APPROVED
C30001965	A	ESW-200N1-01 C10001848	Not enought threads are thightened between the lock nut and the cable gland body.	.		Lmussi 2024-12-17	2025-01-23	AAndreani 2025-01-23	2025-01-23
C30002230	A	ESW-200N1-02 C10001849	Earthing cable is passing through the unistrut.	.		Lmussi 2024-12-30	2025-01-21	Lmussi 2025-01-21	2025-01-21
C30001305	B	83022-CEL-01 C10000546	Missing cable tags on all internal and external routing (83022-CEL-01).	.		Gtangianu 2024-12-04	2025-02-21	Ecarotenuto 2025-02-21	2025-02-21
C30001306	B	83021-CEL-01 C10000543	Missing cable tags on all internal and external routing (83021-CEL-01).	.		Gtangianu 2024-12-04	2025-02-04	Gtangianu 2025-02-04	2025-02-04
C30001307	B	83022-CEL-01 C10000546	Identification tag wires missing both side the (83022-CEL-01).	.		Gtangianu 2024-12-04	2025-02-21	Ecarotenuto 2025-02-21	2025-02-21
C30001308	B	83021-CEL-01 C10000543	Identification tag wires missing both side the (83021-CEL-01).	.		Gtangianu 2024-12-04	2025-02-04	Gtangianu 2025-02-04	2025-02-04
C30001949	B	83022-CEL-02 C10000547	On both JBs side core identification tags are missing for all wires.	.		Lmussi 2024-12-17	2025-03-26	Gtangianu 2025-03-26	2025-03-26
C30001950	B	83022-CEL-02 C10000547	Not enought threads are thightened between the lock nut and the cable gland body.	.		Lmussi 2024-12-17	2025-02-26	AAndreani 2025-02-26	2025-02-26
C30001951	B	83022-CEL-02 C10000547	On both JBs side, identification tags are missing on the terminal block.	.		Lmussi 2024-12-17	2025-02-25	APolo 2025-02-25	2025-02-25

CROSSWIND

ROSETTI MARINO

Project CROSSWIND

PUNCH LIST REPORT

SYSTEM	83	Main Power Distribution Low Voltage 440 V
SUBSYSTEM	83-50	Welding Sockets

Electrical

CODE	CAT	ITEM	DEFECT DESCRIPTION	CORRECTIVE ACTION	PERFORMED ACTION	ISSUED	CARRIED	CHECKED	APPROVED
C30001962	B	ESW-200N1-01 C10001848	Some core identification are missing on the terminal block	.		Lmussi 2024-12-17	2025-04-08	Gtangianu 2025-04-08	2025-04-08
C30001963	B	ESW-200N1-01 C10001848	Serrated washer is missing on the plug.	.		Lmussi 2024-12-17	2025-01-30	GBertuccelli 2025-01-30	2025-01-30
C30002227	B	ESW-200N1-02 C10001849	Drain valve (as per 123A90-DDL-EL-DS-20067) is missing.	.		Lmussi 2024-12-30	2025-01-14	Ecarotenuto 2025-01-14	2025-01-14
C30002228	B	ESW-200N1-02 C10001849	Serrated washers are missing for plugs.	.		Lmussi 2024-12-30	2025-01-30	GBertuccelli 2025-01-30	2025-01-30
C30002229	B	ESW-200N1-02 C10001849	Some identification are missing on Terminal Block	.		Lmussi 2024-12-30	2025-04-08	Gtangianu 2025-04-08	2025-04-08
C30002261	B	83021-CEL-02 C10000544	On ESW-200N1-02 side SS cable tag is missing.	.		Lmussi 2024-12-31	2025-02-28	AAndreani 2025-02-28	2025-02-28
C30002264	B	83021-CEL-02 C10000544	on both sockets sides (ESW-200N1-01 & ESW-200N1-02) core identification tags are missing for all wires.	.		Lmussi 2024-12-31	2025-03-26	Gtangianu 2025-03-26	2025-03-26
C30002265	B	83021-CEL-02 C10000544	MCTs are missing.	.		Lmussi 2024-12-31	2025-01-30	GBertuccelli 2025-01-30	2025-01-30
C30002267	B	83021-CEL-02 C10000544	On ESW-200N1-01 side, bending radius of the cable to be corrected.	.		Lmussi 2024-12-31	2025-03-26	Gtangianu 2025-03-26	2025-03-26

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30002229

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10001849	1.4 Discipline	Electrical
1.2 Item	ESW-200N1-02	WELDING SOCKET	
1.3 Subsystem	83-50	Welding Sockets	

2 - OBSERVATION

Some identification are missing on Terminal Block

Name: Luca Mussi

Date: 2024-12-30

Signature:

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

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

4 - PERFORMED ACTION

Name:

Date:

Signature:

5 - CLEARANCE CHECK

Installed.

Name: Giovanni Tangianu

Date: 2025-04-08

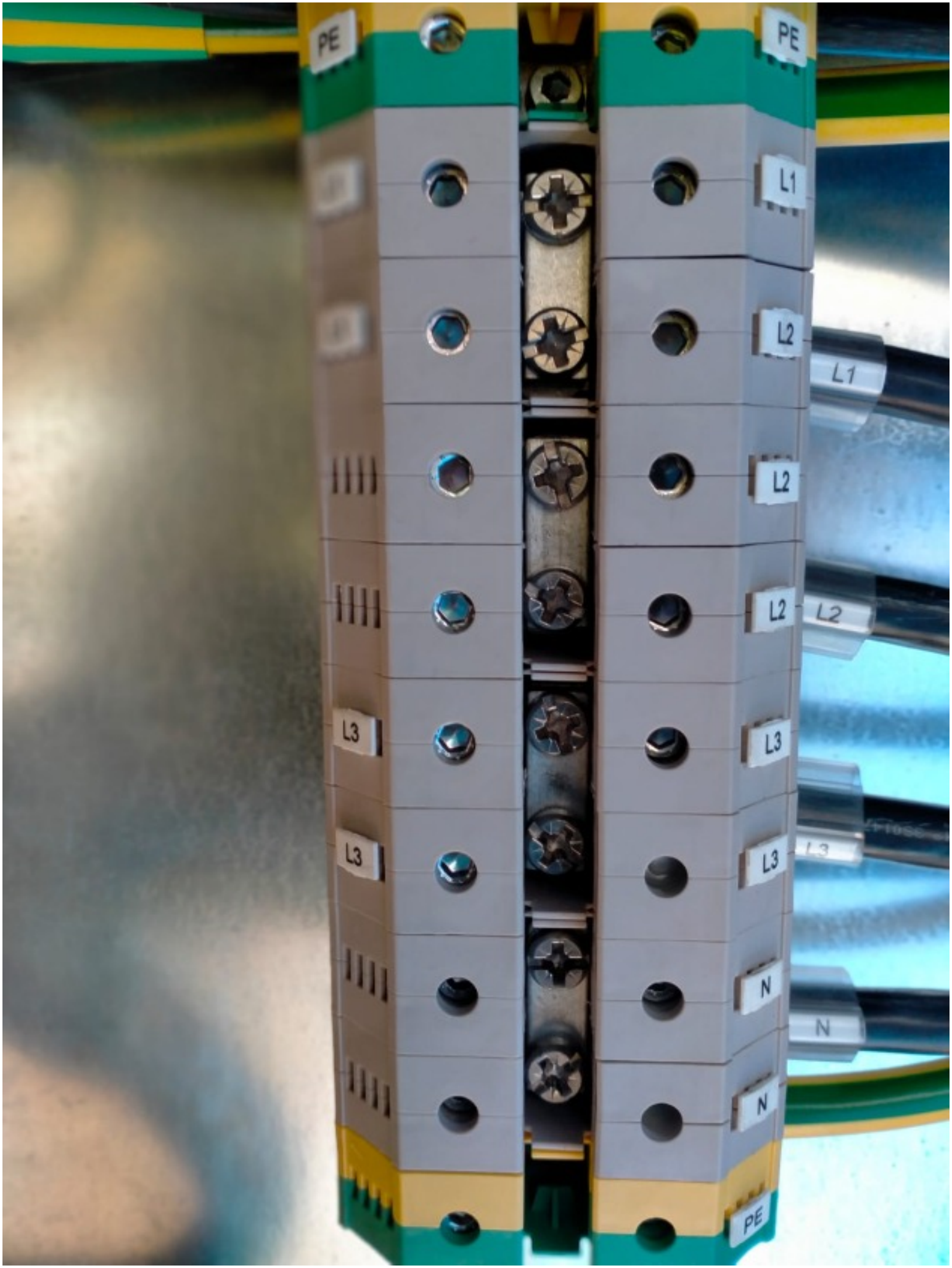
Signature:

6- CLEARANCE APPROVAL

Name:

Date:

Signature:


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PE

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30002230

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10001849	1.4 Discipline	Electrical
1.2 Item	ESW-200N1-02	WELDING SOCKET	
1.3 Subsystem	83-50	Welding Sockets	

2 - OBSERVATION

Earthing cable is passing through the unistrut.

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

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

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

4 - PERFORMED ACTION

Name:
Date:
Signature:

5 - CLEARANCE CHECK

Done

Name: Luca Mussi
Date: 2025-01-21
Signature:

6- CLEARANCE APPROVAL

Name:
Date:
Signature:



ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30002261

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10000544	1.4 Discipline	Electrical
1.2 Item	83021-CEL-02		Welding Sockets (Top Deck) JB's / Welding Socket (Top Deck)
1.3 Subsystem	83-50		Welding Sockets

2 - OBSERVATION

On ESW-200N1-02 side SS cable tag is missing.

Name: Luca Mussi

Date: 2024-12-31

Signature:

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

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

4 - PERFORMED ACTION

Name:

Date:

Signature:

5 - CLEARANCE CHECK

DONE

Name: Andrea Andreani

Date: 2025-02-28

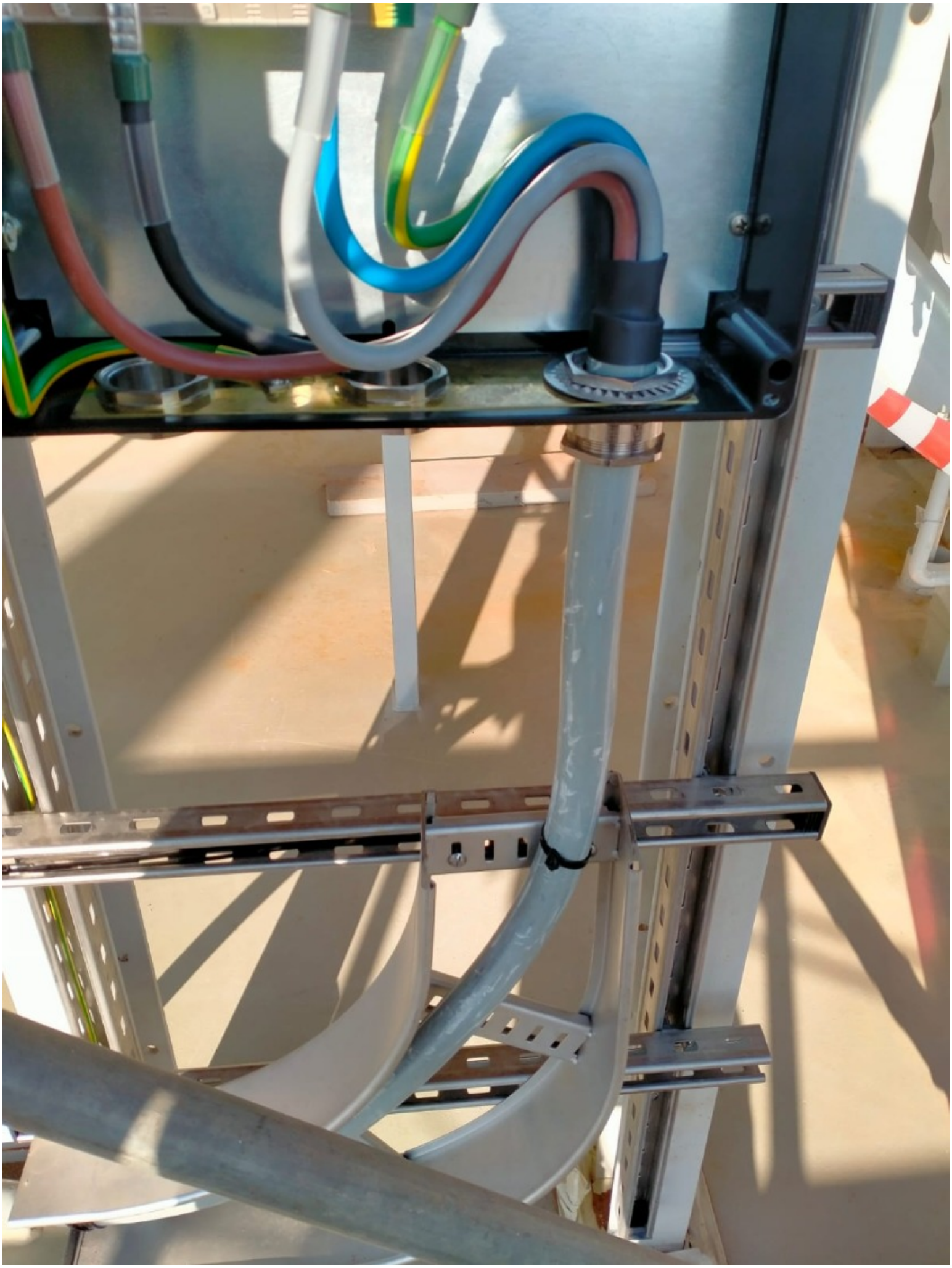
Signature:

6- CLEARANCE APPROVAL

Name:

Date:

Signature:



ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30002264

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10000544	1.4 Discipline	Electrical
1.2 Item	83021-CEL-02		Welding Sockets (Top Deck) JB's / Welding Socket (Top Deck)
1.3 Subsystem	83-50		Welding Sockets

2 - OBSERVATION

on both sockets sides (ESW-200N1-01 & ESW-200N1-02) core identification tags are missing for all wires.

Name: Luca Mussi
Date: 2024-12-31
Signature:

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

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

4 - PERFORMED ACTION

Name:
Date:
Signature:

5 - CLEARANCE CHECK

Installed

Name: Giovanni Tangianu
Date: 2025-03-26
Signature:

6- CLEARANCE APPROVAL

Name:
Date:
Signature:

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30002265

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10000544	1.4 Discipline	Electrical
1.2 Item	83021-CEL-02		Welding Sockets (Top Deck) JB's / Welding Socket (Top Deck)
1.3 Subsystem	83-50		Welding Sockets

2 - OBSERVATION

MCTs are missing.

Name: Luca Mussi

Date: 2024-12-31

Signature:

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

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

4 - PERFORMED ACTION

Name:

Date:

Signature:

5 - CLEARANCE CHECK

Done

Name: Gabriele Bertuccelli

Date: 2025-01-30

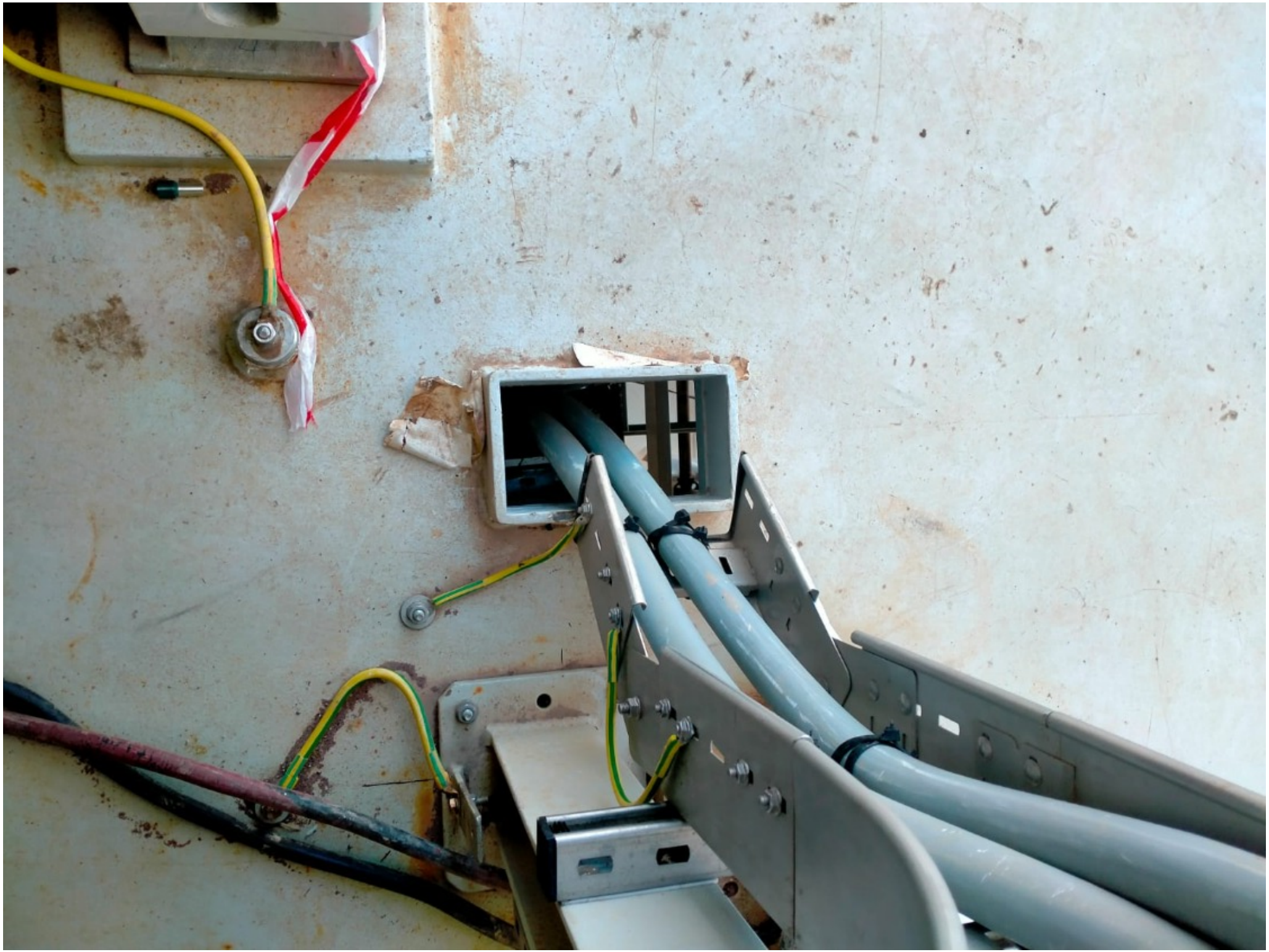
Signature:

6- CLEARANCE APPROVAL

Name:

Date:

Signature:



ROSETTI MARINO CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30002267

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10000544	1.4 Discipline	Electrical
1.2 Item	83021-CEL-02	Welding Sockets (Top Deck) JB's / Welding Socket (Top Deck)	
1.3 Subsystem	83-50	Welding Sockets	

2 - OBSERVATION

On ESW-200N1-01 side, bending radius of the cable to be corrected.

Name: Luca Mussi

Date: 2024-12-31

Signature:

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

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

4 - PERFORMED ACTION

Name:

Date:

Signature:

5 - CLEARANCE CHECK

Done.

Name: Giovanni Tangianu

Date: 2025-03-26

Signature:

6- CLEARANCE APPROVAL

Name:

Date:

Signature:

4


2027


83021-CEL-01

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30001305

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10000546	1.4 Discipline	Electrical
1.2 Item	83022-CEL-01		Welding Sockets (Lower Deck) JB's / Welding Socket (Lower Deck)
1.3 Subsystem	83-50		Welding Sockets

2 - OBSERVATION

Missing cable tags on all internal and external routing (83022-CEL-01).

Name: Giovanni Tangianu

Date: 2024-12-04

Signature:

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Giovanni Tangianu
3.4 Activity code	MC Mechanical Completion	Date	2024-12-04
3.5 Action by	RM_CONSTR RM	Signature	

4 - PERFORMED ACTION

Name:

Date:

Signature:

5 - CLEARANCE CHECK

DONE

Name: Eleonora Carotenuto

Date: 2025-02-21

Signature:

6- CLEARANCE APPROVAL

Name:

Date:

Signature:

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30001306

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10000543	1.4 Discipline	Electrical
1.2 Item	83021-CEL-01	Welding Sockets (Top Deck) JB's / Welding Socket (Top Deck)	
1.3 Subsystem	83-50	Welding Sockets	

2 - OBSERVATION

Missing cable tags on all internal and external routing (83021-CEL-01).

Name: Giovanni Tangianu

Date: 2024-12-04

Signature:

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Giovanni Tangianu
3.4 Activity code	MC Mechanical Completion	Date	2024-12-04
3.5 Action by	RM_CONSTR RM	Signature	

4 - PERFORMED ACTION

Name:

Date:

Signature:

5 - CLEARANCE CHECK

Installed.

Name: Giovanni Tangianu

Date: 2025-02-04

Signature:

6- CLEARANCE APPROVAL

Name:

Date:

Signature:

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30001307

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10000546	1.4 Discipline	Electrical
1.2 Item	83022-CEL-01	Welding Sockets (Lower Deck) JB's / Welding Socket (Lower Deck)	
1.3 Subsystem	83-50	Welding Sockets	

2 - OBSERVATION

Identification tag wires missing both side the (83022-CEL-01).

Name: Giovanni Tangianu

Date: 2024-12-04

Signature:

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Giovanni Tangianu
3.4 Activity code	MC Mechanical Completion	Date	2024-12-04
3.5 Action by	RM_CONSTR RM	Signature	

4 - PERFORMED ACTION

Name:

Date:

Signature:

5 - CLEARANCE CHECK

DONE

Name: Eleonora Carotenuto

Date: 2025-02-21

Signature:

6- CLEARANCE APPROVAL

Name:

Date:

Signature:

ROSETTI MARINO CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30001308

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10000543	1.4 Discipline	Electrical
1.2 Item	83021-CEL-01	Welding Sockets (Top Deck) JB's / Welding Socket (Top Deck)	
1.3 Subsystem	83-50	Welding Sockets	

2 - OBSERVATION

Identification tag wires missing both side the (83021-CEL-01).

Name: Giovanni Tangianu

Date: 2024-12-04

Signature:

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Giovanni Tangianu
3.4 Activity code	MC Mechanical Completion	Date	2024-12-04
3.5 Action by	RM_CONSTR RM	Signature	

4 - PERFORMED ACTION

Name:

Date:

Signature:

5 - CLEARANCE CHECK

Installed.

Name: Giovanni Tangianu

Date: 2025-02-04

Signature:

6- CLEARANCE APPROVAL

Name:

Date:

Signature:

ROSETTI MARINO CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30001949

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10000547	1.4 Discipline	Electrical
1.2 Item	83022-CEL-02		Welding Sockets (Lower Deck) JB's / Welding Socket (Lower Deck)
1.3 Subsystem	83-50		Welding Sockets

2 - OBSERVATION

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

Name: Luca Mussi

Date: 2024-12-17

Signature:

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Luca Mussi
3.4 Activity code	MC Mechanical Completion	Date	2024-12-17
3.5 Action by	RM_CONSTR RM	Signature	

4 - PERFORMED ACTION

Name:

Date:

Signature:

5 - CLEARANCE CHECK

Installed

Name: Giovanni Tangianu

Date: 2025-03-26

Signature:

6- CLEARANCE APPROVAL

Name:

Date:

Signature:


PE
L1
L1
L2
L2
L3
L3
N
PE

ROSETTI MARINO CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30001950

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10000547	1.4 Discipline	Electrical
1.2 Item	83022-CEL-02		Welding Sockets (Lower Deck) JB's / Welding Socket (Lower Deck)
1.3 Subsystem	83-50		Welding Sockets

2 - OBSERVATION

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

Name: Luca Mussi

Date: 2024-12-17

Signature:

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Luca Mussi
3.4 Activity code	MC Mechanical Completion	Date	2024-12-17
3.5 Action by	RM_CONSTR RM	Signature	

4 - PERFORMED ACTION

Name:

Date:

Signature:

5 - CLEARANCE CHECK

DONE

Name: Andrea Andreani

Date: 2025-02-26

Signature:

6- CLEARANCE APPROVAL

Name:

Date:

Signature:



ROSETTI MARINO CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30001951

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10000547	1.4 Discipline	Electrical
1.2 Item	83022-CEL-02		Welding Sockets (Lower Deck) JB's / Welding Socket (Lower Deck)
1.3 Subsystem	83-50		Welding Sockets

2 - OBSERVATION

On both JBs side, identification tags are missing on the terminal block.

Name: Luca Mussi

Date: 2024-12-17

Signature:

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Luca Mussi
3.4 Activity code	MC Mechanical Completion	Date	2024-12-17
3.5 Action by	RM_CONSTR RM	Signature	

4 - PERFORMED ACTION

Name:

Date:

Signature:

5 - CLEARANCE CHECK

DONE

Name: Alessio Polo

Date: 2025-02-25

Signature:

6- CLEARANCE APPROVAL

Name:

Date:

Signature:


PE
L1
L1
L2
L2
L3
L3
N
PE

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30001962

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10001848	1.4 Discipline	Electrical
1.2 Item	ESW-200N1-01	WELDING SOCKET	
1.3 Subsystem	83-50	Welding Sockets	

2 - OBSERVATION

Some core identification are missing on the terminal block

Name: Luca Mussi

Date: 2024-12-17

Signature:

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Luca Mussi
3.4 Activity code	MC Mechanical Completion	Date	2024-12-17
3.5 Action by	PRE-COMM	Signature	

4 - PERFORMED ACTION

Name:

Date:

Signature:

5 - CLEARANCE CHECK

Installed.

Name: Giovanni Tangianu

Date: 2025-04-08

Signature:

6- CLEARANCE APPROVAL

Name:

Date:

Signature:

N
N
L2
L1

ROSETTI MARINO CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30001963

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10001848	1.4 Discipline	Electrical
1.2 Item	ESW-200N1-01	WELDING SOCKET	
1.3 Subsystem	83-50	Welding Sockets	

2 - OBSERVATION

Serrated washer is missing on the plug.

Name: Luca Mussi

Date: 2024-12-17

Signature:

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Luca Mussi
3.4 Activity code	MC Mechanical Completion	Date	2024-12-17
3.5 Action by	RM_CONSTR RM	Signature	

4 - PERFORMED ACTION

Name:

Date:

Signature:

5 - CLEARANCE CHECK

Done

Name: Gabriele Bertuccelli

Date: 2025-01-30

Signature:

6- CLEARANCE APPROVAL

Name:

Date:

Signature:



ROSETTI MARINO CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30001965

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10001848	1.4 Discipline	Electrical
1.2 Item	ESW-200N1-01	WELDING SOCKET	
1.3 Subsystem	83-50	Welding Sockets	

2 - OBSERVATION

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

Name: Luca Mussi

Date: 2024-12-17

Signature:

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	A PL A	Name	Luca Mussi
3.4 Activity code	MC Mechanical Completion	Date	2024-12-17
3.5 Action by	RM_CONSTR RM	Signature	

4 - PERFORMED ACTION

Name:

Date:

Signature:

5 - CLEARANCE CHECK

DONE

Name: Andrea Andreani

Date: 2025-01-23

Signature:

6- CLEARANCE APPROVAL

Name:

Date:

Signature:



ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30002227

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10001849	1.4 Discipline	Electrical
1.2 Item	ESW-200N1-02	WELDING SOCKET	
1.3 Subsystem	83-50	Welding Sockets	

2 - OBSERVATION

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

Name: Luca Mussi

Date: 2024-12-30

Signature:

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

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

4 - PERFORMED ACTION

Name:

Date:

Signature:

5 - CLEARANCE CHECK

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

Name: Eleonora Carotenuto

Date: 2025-01-14

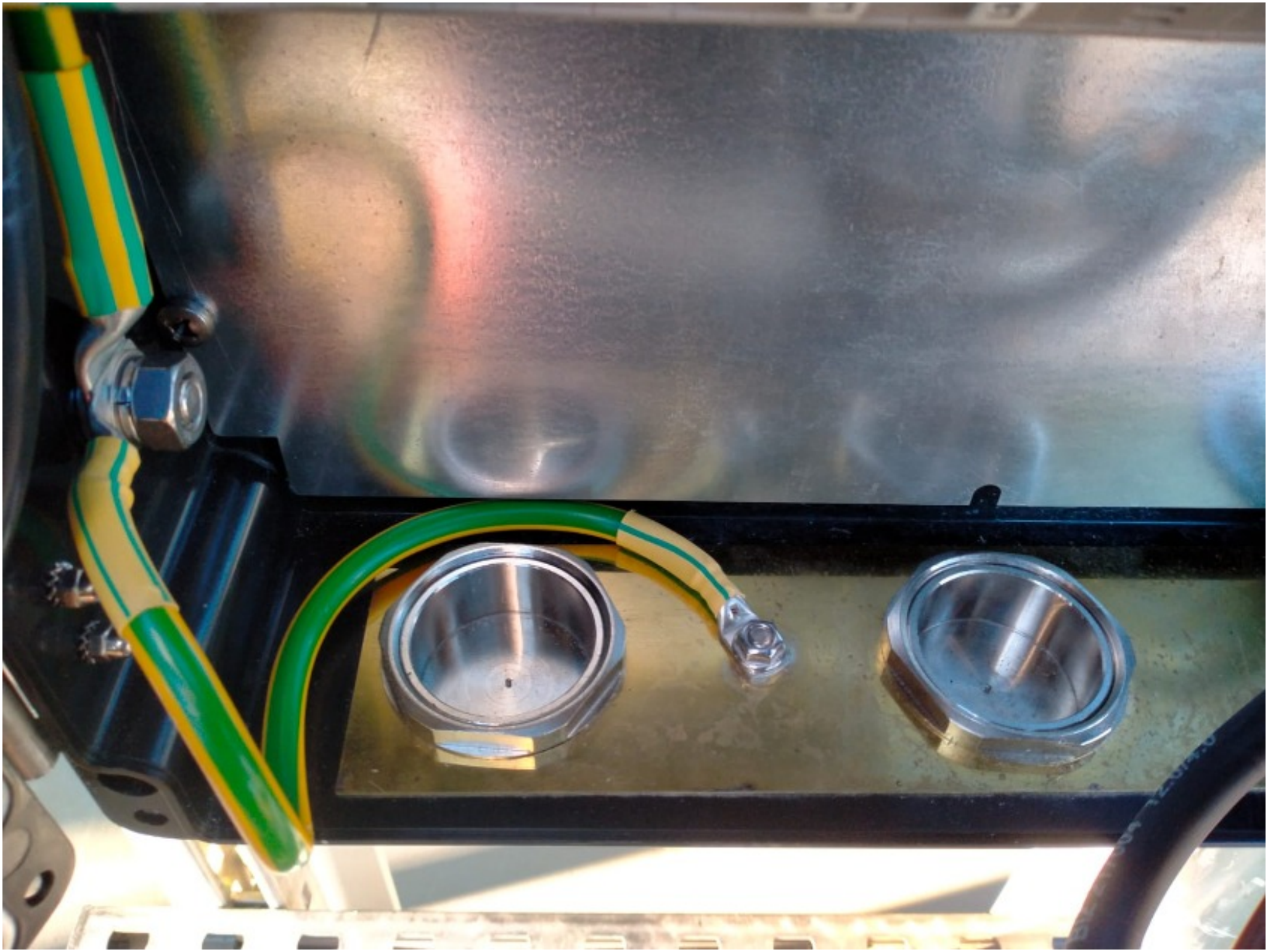
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6- CLEARANCE APPROVAL

Name:

Date:

Signature:



ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30002228

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10001849	1.4 Discipline	Electrical
1.2 Item	ESW-200N1-02	WELDING SOCKET	
1.3 Subsystem	83-50	Welding Sockets	

2 - OBSERVATION

Serrated washers are missing for plugs.

Name: Luca Mussi

Date: 2024-12-30

Signature:

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

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

4 - PERFORMED ACTION

Name:

Date:

Signature:

5 - CLEARANCE CHECK

Done

Name: Gabriele Bertuccelli

Date: 2025-01-30

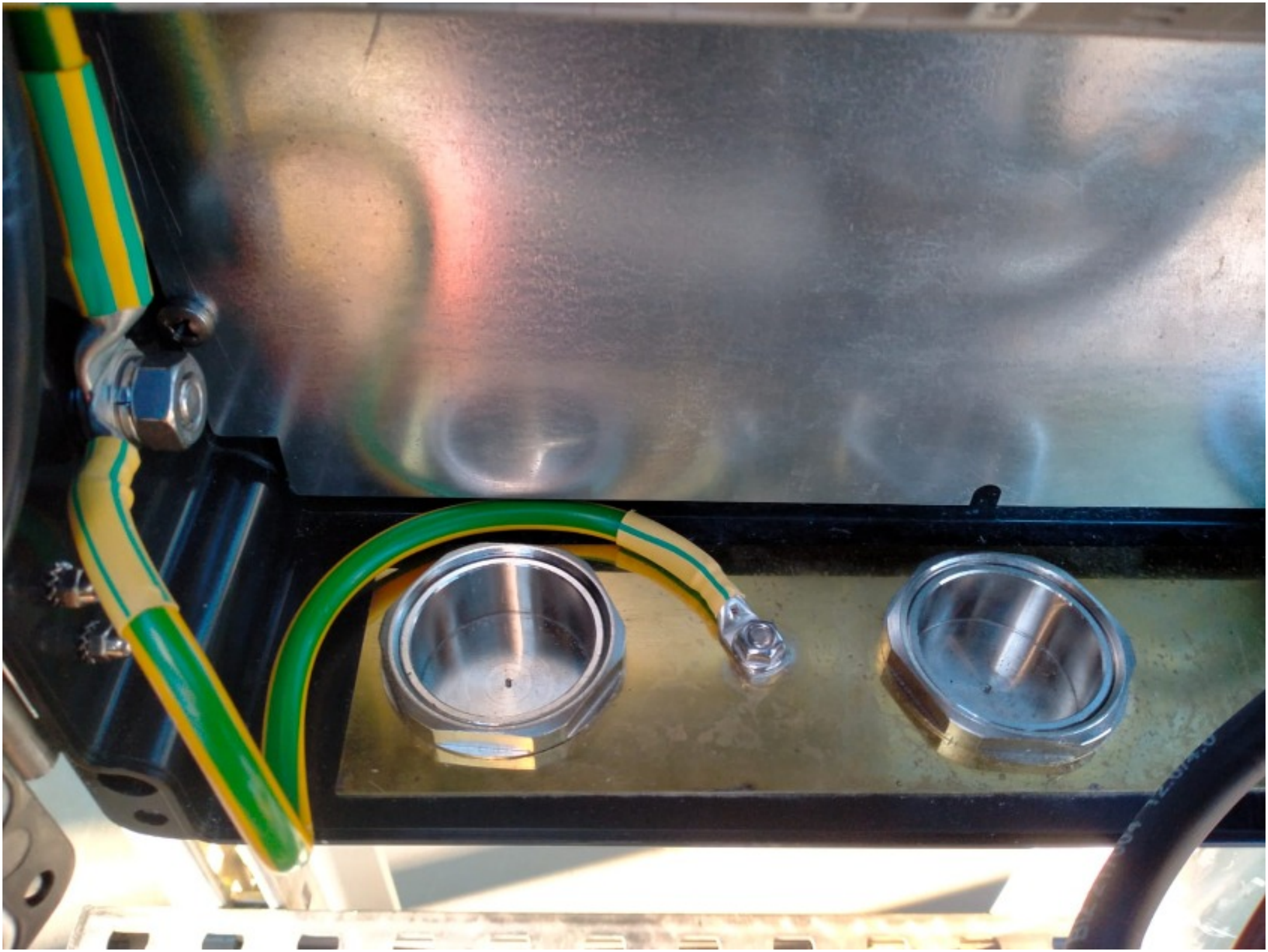
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6- CLEARANCE APPROVAL

Name:

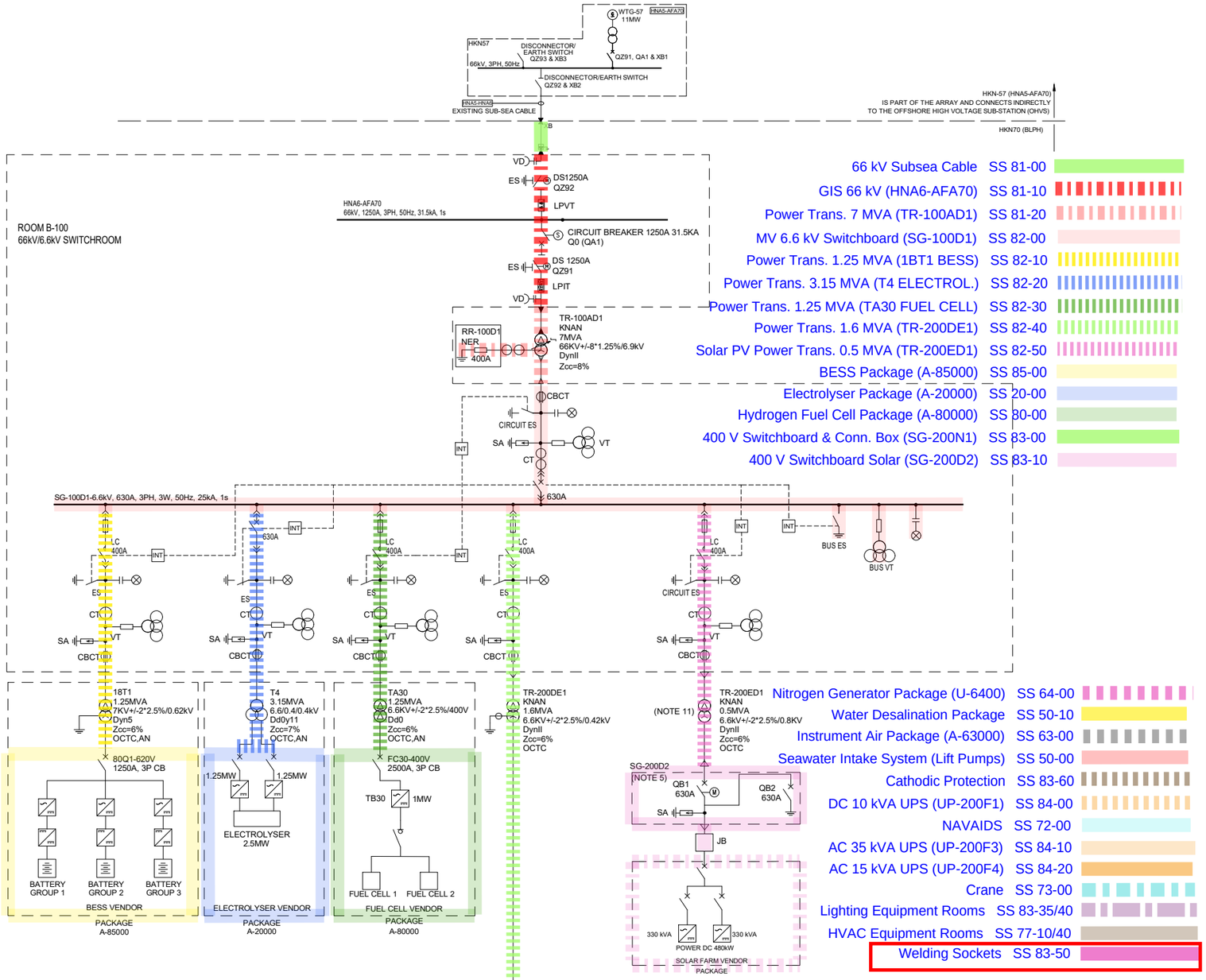
Date:

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Section 3 SYSTEM,SUB-SYSTEM LIMIT DRAWINGS

DRAWING NO. 123A90-DDL-EL-DG-20158 REV. 01



SYMBOL LEGEND:

- VOLTAGE DETECTOR
- EARTHING SWITCH DISCONNECTOR
- MOTORIZED EARTHING SWITCH
- CIRCUIT BREAKER
- FUSE
- CONTACTOR
- THREE-PHASE TRANSFORMER WITH TAP CHANGER
- THREE-PHASE TRANSFORMER
- CURRENT TRANSFORMER
- THREE-PHASE TRANSFORMER, WITH THREE WINDINGS
- NEUTRAL EARTHING RESISTOR
- SURGE ARRESTER
- CORE BALANCE CURRENT TRANSFORMER
- SURGE ARRESTOR FOR T-CONNECTOR (N.1 FOR EACH PHASE)
- VOLTAGE & CURRENT TRANSFORMER (3Ø X 2) (LPIT TYPE)
- VOLTAGE TRANSFORMER (3Ø X 2) (LPVT TYPE)
- VOLTAGE TRANSFORMER
- CABLE BOX
- T-CONNECTOR CABLE TERMINATION
- CABLE AIR TERMINATION

OLTC	= ON LOAD TAP CHANGER
OCTC	= OPEN CIRCUIT TAP CHANGER
KNAN	= NON-MINERAL OIL NATURAL AIR COOLED
AN	= AIR NATURAL
XB	= CABLE BOX
QZ	= DISCONNECT SWITCH & EARTH SWITCH
QA	= CIRCUIT BREAKER
LC	= LATCHED FUSED CONTACTOR (400A)
INT	= INTERLOCK SYSTEM
SA	= SURGE ARRESTER
CBCT	= CORE BALANCE CURRENT TRANSFORMER
ES	=EARTHING SWITCH
VD	=VOLTAGE DETECTOR
LCP	=LOCAL CONTROL PANEL
LPVT	=LOW POWER VOLTAGE TRANSFORMER
LPCT	=LOW POWER CURRENT TRANSFORMER
LPIT	=LOW POWER INSTRUMENT TRANSFORMER
JB	=JUNCTION BOX

NOTES:

1. TEMPORARY POWER SUPPLY CONNECTION BOX LOCATED ON OUTSIDE WALL OF LV SWITCHROOM / CONTAINER.
2. LOAD DEFINITION 'ESSENTIAL' / 'NON-ESSENTIAL' IS SHOWN IN THE LOAD LIST. THE CCS, EMCS AND 'SMART' SWITCHGEAR WILL OPEN / CLOSE CIRCUIT BREAKERS AS REQUIRED.
3. A COMBINED CCS/EMCS SYSTEM COMPRISES A MICROPROCESSOR BASED SYSTEM, ASSOCIATED SOFTWARE AND REQUIRED PERIPHERALS FOR MONITORING AND CONTROLLING OF ELECTRICAL POWER NETWORK. ALL ELECTRICAL EQUIPMENT AND PACKAGE UNITS SHALL BE CONNECTED TO THE CENTRAL CONTROL SYSTEM .
4. IMPRESSED CURRENT CATHODIC PROTECTION SYSTEM SUPPLIED BY COMPANY.
5. THE SOLAR FARM IN-FEED POWER CIRCUIT BREAKERS PANEL IS LOCATED INSIDE THE LV SWITCHGEAR ROOM B-200.
6. DELETED.
7. DELETED.
8. DELETED.
9. CROSSWIND SHALL BE ABLE TO CONTROL THE BLPH 66KV MOTORISED CIRCUIT BREAKER Q0 (QA1) & MOTORISED ELECTRICAL DISCONNECTOR / EARTH SWITCH (QZ92, TYPE B) USING THEIR 'HV-SCADA' SYSTEM. THIS BACK-UP / REDUNDANT CONTROL SHALL BE ADDITIONAL TO THAT PROVIDED BY THE CCS AND BE OF HIGHER PRIORITY OVER A SEPARATE FIBRE OPTIC CABLE (FOC). THE CCS OPERATOR AND 'HV-SCADA' SHALL BOTH BE KEPT FULLY AWARE OF EQUIPMENT STATUS AT ALL TIMES. INTERTRIPPING, INHIBITS & INTERLOCKING FOR BLPH 66KV EQUIPMENT SHALL BE AS PER THE WIND FARM.
10. THE LOADS IN THE LOW VOLTAGE SWITCHGEAR AND THE CURRENT VALUES OF THE CIRCUIT BREAKERS ARE ONLY INDICATIVE.
11. NEUTRAL POINT OF TR-200ED1 SHALL NOT BE GROUNDED AS REQUIRED BY SOLAR FARM SUPPLIER IN 123A90-PML-PM-TQ-00040.

REFERENCES:

1. 123A90-DDL-EL-DG-20014 ELECTRICAL CONTROL, PROTECTION AND METERING DIAGRAMS
2. 123A90-DDL-EL-DG-20015 ELECTRICAL SINGLE LINE DIAGRAM 6.6kV SYSTEMS
3. 123A90-DDL-EL-DG-20159 ELECTRICAL SINGLE LINE DIAGRAMS LV SYSTEM
4. 123A90-DDL-EL-DG-20160 ELECTRICAL SINGLE LINE DIAGRAMS AC UPS SYSTEMS
5. 123A90-DDL-EL-DG-20161 ELECTRICAL SINGLE LINE DIAGRAMS DC UPS SYSTEMS
6. 123A90-DDL-EL-DG-20185 ELECTRICAL SINGLE LINE DIAGRAM HV SYSTEMS
7. 123A90-DDL-EL-DL-20104 ELECTRICAL EQUIPMENT LAYOUT - HV SWITCHROOM
8. 123A90-DDL-EL-DL-20105 ELECTRICAL EQUIPMENT LAYOUT - LV SWITCHROOM
9. 123A90-DDL-EL-LIS-20016 ELECTRICAL LOAD LIST and BALANCE -CCS MODE CHARGING-
10. 123A90-DDL-EL-RE-20152 ELECTRICAL EQUIPMENT SIZING CCALCULATION REPORT
11. 123A90-DDL-EL-RE-20170 ELECTRICAL SYSTEM STUDY REPORT - LOAD FLOW
12. 123A90-DDL-EL-RE-20171 ELECTRICAL SYSTEM STUDY REPORT - SHORT CIRCUIT
13. 123A90-DDL-EL-RE-20172 ELECTRICAL SYSTEM STUDY REPORT - ARC FLASH ENERGY CALCULATION
14. 123A90-DDL-EL-RE-20173 ELECTRICAL SYSTEM STUDY REPORT - HARMONICS

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	26/03/2024	GPA	LMA/AMA	LMA/MDO	ISSUE FOR REVIEW (IFR)
00	02/11/2023	DSF	CB/AMA	OYFO/MDO	ISSUE FOR REVIEW (IFR)

CROSSWIND

ROSETTI MARINO

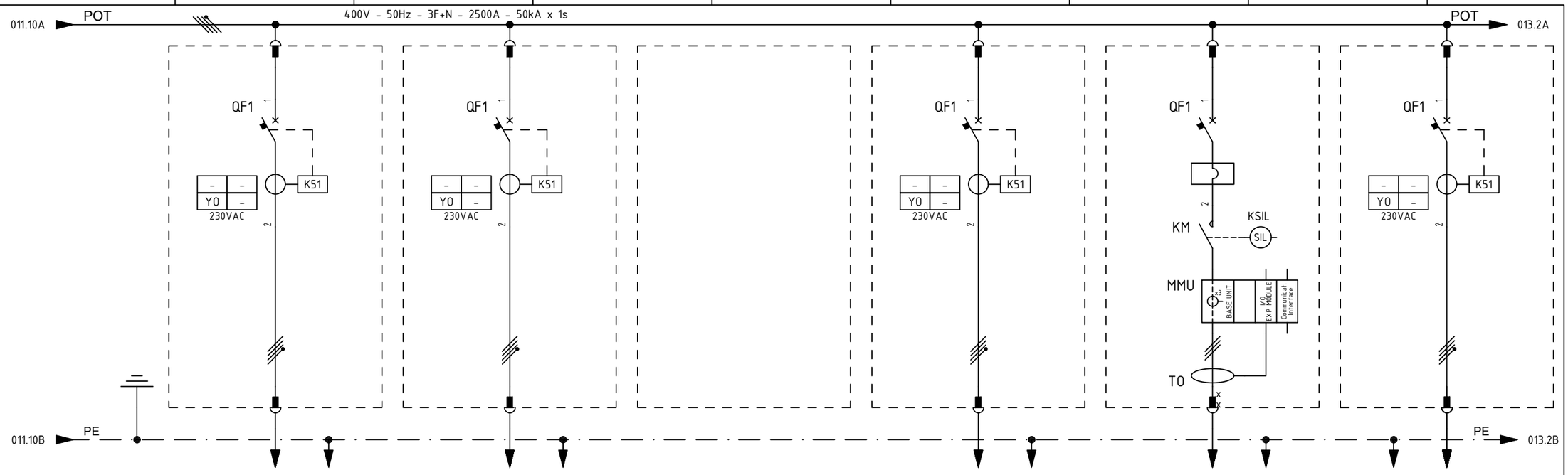
TITLE :

OVERALL/KEY SINGLE LINE DIAGRAM

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK			SCALE N/A
DRAWN GPA	CHECKED LMA/AMA	APPROVED LMA/MDO	DATE 26/03/2023
A1	DRAWING NO. 123A90-DDL-EL-DG-20158	SHEET 001	REV. 01

01

File Name : 123A90-DDL-EL-DG-20158_REV01.dwg



ITEM			1	UP-200F4	UP-200F4		ESW-200N1	PM-50001 A	UP-200F3
UTILITY			2	AC UPS F&G - 8 H UP-200F4 - LINE A	AC UPS F&G - 8h UP-200F4 - LINE B		WELDING SOCKETS (TOP DECK)	SEA WATER PUMP A	AC UPS PAS - 30 min. UP-200F3 - BYPASS
COLUMN/CUBICLE			3	A6 / +05	A6 / +06		A6 / +08	A7 / +01	A7 / +02
RATED POWER | RATED CURRENT			4/5	18 kW | 28.9 A	18 kW | 28.9 A		69.84 kW | 126.15 A	6.1 kW | 11.0 A	36 kW | 57.8 A
TYPICAL FUNCTIONAL			6	L1-63	L1-63		L2-160	M1-6	L1-100
CIRCUIT BREAKER (ABB)	TYPE		7	XT2S - 160	XT2S - 160		XT4S - 250	XT2S - 160	XT2S - 160
	VERSION		8	4P - FIXED	4P - FIXED		4P - FIXED	3P - FIXED	4P - FIXED
	TRIP UNITS		9	EKIP DIP LSIG (In = 63A)	EKIP DIP LSIG (In = 63A)		EKIP DIP LSIG (In = 160A)	MA (In = 20A)	EKIP DIP LSIG (In = 100A)
	Icu	KA	10	50 kA	50kA		50kA	-	50 kA
OVERLOAD	L	Range A	11	(0.4 - 1) x In	(0.4 - 1) x In		(0.4 - 1) x In	-	(0.4 - 1) x In
		Range t	12	k/I^2	k/I^2		k/I^2	-	k/I^2
SEL. SHORT-CIRCUIT	S	Range A	13	(1 - 10) x In	(1 - 10) x In		(1 - 10) x In	-	(1 - 10) x In
		Range t	14	0.05 - 0.4 sec / k/I^2	0.05 - 0.4 sec / k/I^2		0.05 - 0.4 sec / k/I^2	-	0.05 - 0.4 sec / k/I^2
INST. SHORT-CIRCUIT	I	Range A	15	(1 - 10) x In	(1 - 10) x In		(1 - 10) x In	(6 - 14) x I	(1 - 10) x In
		Range t	16	<= 0.02 sec	<= 0.02 sec		<= 0.02 sec	<= 0.02 sec	<= 0.02 sec
EARTH FAULT PROTECTION	G	Range A	17	(0.2 - 1) x In	(0.2 - 1) x In		(0.2 - 1) x In	-	(0.2 - 1) x In
		Range t	18	0.1 - 0.8 sec	0.1 - 0.8 sec		0.1 - 0.8 sec	-	0.1 - 0.8 sec
CONTACTOR (ABB)			19	-	-		-	AF38-30-00-13 (18.5 kW - AC3) - 100-250Vac/dc	-
THERMAL OVERLOAD RELAY (ABB)			20	-	-		-	UMC100.3 UC (0.24 - 63A)	-
SURGE ARRESTER (DEHN)			21	-	-		-	-	-
TOROIDAL CURRENT TRANSFORMER (FRER)			22	-	-		-	-	-
FUSE HOLDER (ITALWEBER)			23	SUBSISTEM 84.20	SUBSISTEM 84.20		SUBSISTEM 83.50	SUBSISTEM 50.00	SUBSISTEM 84.10
INDIRECT PROTECTION (ABB)			24						
VOLTMETER			25						
CURRENT TRANSFORMER FOR MEASURE (FRER)	TYPE		26	-	-		-	-	-
	PERFORMANCE/CLASS		27	-	-		-	-	-
VOLTAGE TRANSFORMER FOR MEASURE (FRER)	TYPE		28	-	-		-	-	-
	PERFORMANCE/CLASS		29	-	-		-	-	-
LOCK-OUT RELAY (-)			30	-	-		-	-	-
POWER CONDUCTOR		mmq	31	4G35	4G35		5G50	4G4	4G35

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+

DWG n° : 231298/SD/11
Item n° : PF1002983/26

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
3	08/07/2024	Santinelli	Flamminio	Sigismondi	Accepted for Construction (AFC)
2	03/05/2024	Santinelli	Flamminio	Sigismondi	Issued for review (IFR)
1	28/03/2024	Santinelli	Flamminio	Sigismondi	Issued for review (IFR)
0	15/02/2024	Santinelli	Flamminio	Sigismondi	Issued for review (IFR)

IMESA ELECTRICAL ENGINEERING

CROSSWIND

ROSETTI MARINO

TITLE : "SG-200N1"

SINGLE LINE DIAGRAM

Single Line Drawing

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE : NTS

A3

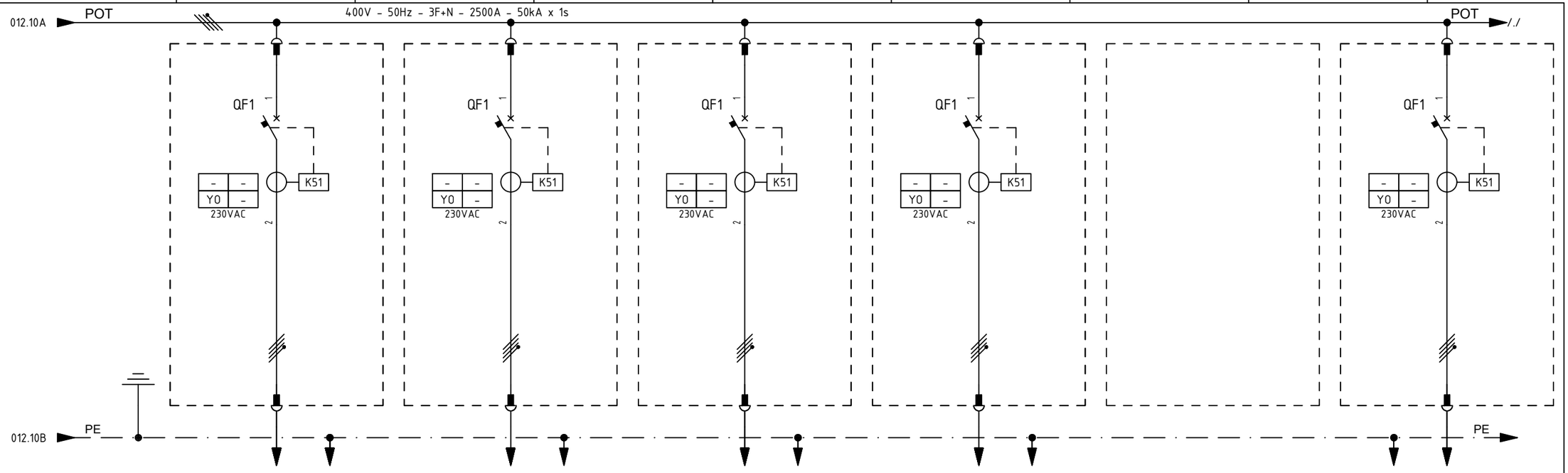
DRAWING NO. 1723002197-EL-DG-00011

SHEET 012

REV. 03

F.to UNI A3: 420mmx297mm

File Name : 1723002197-EL-DG-00011 Rev. 03



ITEM			1	UP-200F1	UP-200F1	UP-200F2	UP-200F2		ESW-200N2
UTILITY			2	DC BATTERY SYSTEM SWTG CONTROL - FEEDER A	DC BATTERY SYSTEM SWTG CONTROL - FEEDER B	NAVAID SYSTEM FEEDER A	NAVAID SYSTEM FEEDER B		WELDING SOCKETS (LOWER DECK)
COLUMN/CUBICLE			3	A7 / +03	A7 / +04	A7 / +05	A7 / +06		A7 / +08
RATED POWER | RATED CURRENT			4/5	10 kW | 16 A	10 kW | 16 A	1.6 kVA | 7 A	1.6 kVA | 7 A		69.84 kW | 126.15 A
TYPICAL FUNCTIONAL			6	L1-63	L1-63	L1-10	L1-10		L2-160
CIRCUIT BREAKER (ABB)	TYPE		7	XT2S - 160	XT2S - 160	XT2S - 160	XT2S - 160		XT4S - 250
	VERSION		8	4P - FIXED	4P - FIXED	4P - FIXED	4P - FIXED		4P - FIXED
	TRIP UNITS		9	EKIP DIP LSIG (In = 63A)	EKIP DIP LSIG (In = 63A)	EKIP DIP LSIG (In = 63A)	EKIP DIP LSIG (In = 63A)		EKIP DIP LSIG (In = 160A)
	Icu KA		10	50kA	50kA	50kA	50kA		50kA
OVERLOAD	L	Range A	11	(0.4 - 1) x In	(0.4 - 1) x In	(0.4 - 1) x In	(0.4 - 1) x In		(0.4 - 1) x In
		Range t	12	k/I^2	k/I^2	k/I^2	k/I^2		k/I^2
SEL. SHORT-CIRCUIT	S	Range A	13	(1 - 10) x In	(1 - 10) x In	(1 - 10) x In	(1 - 10) x In		(1 - 10) x In
		Range t	14	0.05 - 0.4 sec / k/I^2	0.05 - 0.4 sec / k/I^2	0.05 - 0.4 sec / k/I^2	0.05 - 0.4 sec / k/I^2		0.05 - 0.4 sec / k/I^2
INST. SHORT-CIRCUIT	I	Range A	15	(1 - 10) x In	(1 - 10) x In	(1 - 10) x In	(1 - 10) x In		(1 - 10) x In
		Range t	16	<= 0.02 sec	<= 0.02 sec	<= 0.02 sec	<= 0.02 sec		<= 0.02 sec
EARTH FAULT PROTECTION	G	Range A	17	(0.2 - 1) x In	(0.2 - 1) x In	(0.2 - 1) x In	(0.2 - 1) x In		(0.2 - 1) x In
		Range t	18	0.1 - 0.8 sec	0.1 - 0.8 sec	0.1 - 0.8 sec	0.1 - 0.8 sec		0.1 - 0.8 sec
CONTACTOR (ABB)			19	-	-	-	-		-
THERMAL OVERLOAD RELAY (ABB)			20	-	-	-	-		-
SURGE ARRESTER (DEHN)			21	-	-	-	-		-
TOROIDAL CURRENT TRANSFORMER (FRER)			22	-	-	-	-		-
FUSE HOLDER (ITALWEBER)			23	SUBSISTEM 84.00	SUBSISTEM 84.00	SUBSISTEM 72.00	SUBSISTEM 72.00		SUBSISTEM 83.50
INDIRECT PROTECTION (ABB)			24						
VOLTMETER			25						
CURRENT TRANSFORMER FOR MEASURE (FRER)	TYPE		26	-	-	-	-		-
	PERFORMANCE/CLASS		27	-	-	-	-		-
VOLTAGE TRANSFORMER FOR MEASURE (FRER)	TYPE		28	-	-	-	-		-
	PERFORMANCE/CLASS		29	-	-	-	-		-
LOCK-OUT RELAY (-)			30	-	-	-	-		-
POWER CONDUCTOR mmq			31	4G16	4G16	3G16	3G16		5G50

=

+

DWG n° : 231298/SD/11

Item n° : PF1002983/26

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
3	08/07/2024	Santinelli	Flamminio	Sigismondi	Accepted for Construction (AFC)
2	03/05/2024	Santinelli	Flamminio	Sigismondi	Issued for review (IFR)
1	28/03/2024	Santinelli	Flamminio	Sigismondi	Issued for review (IFR)
0	15/02/2024	Santinelli	Flamminio	Sigismondi	Issued for review (IFR)

IMESA ELECTRICAL ENGINEERING

CROSSWIND

ROSETTI MARINO

TITLE : "SG-200N1"

SINGLE LINE DIAGRAM

Single Line Drawing

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE : NTS

A3

DRAWING NO. 1723002197-EL-DG-00011

SHEET 013

REV. 03

F.to UNI A3: 420mmx297mm

File Name : 1723002197-EL-DG-00011 Rev. 03

Section 4 MECHANICAL COMPLETION STATUS INDEX - BUILDING DISCIPLINE

NOT APPLICABLE

Section 5 MECHANICAL COMPLETION STATUS INDEX - ELECTRICAL DISCIPLINE

CROSSWIND

ROSETTI MARINO

Project CROSSWIND

STATUS INDEX DETAIL

Filtered on subsystem: 83-50 & process: MC & discipline : E

Electrical	83-50 Welding Sockets						
ITEM		TASK					
Code	Description	Location	Code	Form	Progress	Date	Certificate
83021-CEL-01	Welding Sockets (Top Deck) JB's / Welding Socket (Top Deck)	ONSHORE	C10000543	CPX09	100	2024-12-04	RFC 1
83021-CEL-02	Welding Sockets (Top Deck) JB's / Welding Socket (Top Deck)	ONSHORE	C10000544	CPX09	100	2024-12-31	RFC 1
83022-CEL-01	Welding Sockets (Lower Deck) JB's / Welding Socket (Lower Deck)	ONSHORE	C10000546	CPX09	100	2024-12-04	RFC 1
83022-CEL-02	Welding Sockets (Lower Deck) JB's / Welding Socket (Lower Deck)	ONSHORE	C10000547	CPX09	100	2024-12-17	RFC 1
ESW-200N1-01	WELDING SOCKET	ONSHORE	C10001848	CPX00	100	2024-12-17	RFC 1
ESW-200N1-02	WELDING SOCKET	ONSHORE	C10001849	CPX00	100	2024-12-30	RFC 1
ESW-200N2-01	Welding Socket (Lower Deck)	ONSHORE	C10001850	CPX00	100	2024-12-12	RFC 1
ESW-200N2-02	Welding Socket (Lower Deck)	ONSHORE	C10001851	CPX00	100	2024-12-12	RFC 1

ITEM	Tag	83021-CEL-01	: Welding Sockets (Top Deck) JB's / Welding Socket (Top Deck)		Dwg	123A90-DDL-EL-LIS-20148	
	S/Sys	83-50	: Welding Sockets		Module	LD_B-200/LD	
TASK	code	C10000543	Location	Onshore Activities	User	Rosetti Marino Quality Control	
FORM	Process	MC	Activity CCK	Discipline Electrical	Form CPX09	LV Power Cable	

CABLE DATA

Type Cu Cl.2/EPR/LSZH Cores/Size mm² 5G50 mm2 Color GREY

From SG-200N1 To ESW-200N1-01

1	Confirm cable is as specified in project cable schedule	OK
2	Visual Check cable physical integrity.	OK
3	Check is installed in accordance with layout drawing (segregation, distance…).	OK
4	Check cable is supported and fixed to rack according to project specification.	Note
5	Check bending radius is within the specified limits.	OK
6	Confirm cable glands suit for cable type, correctly mounted and tightened.	OK
7	Check gland plate for single core cables is non ferrous (non -magnetic).	NA
8	Confirm cable labelling is in accordance with specifications.	PL
9	Check cable is correctly loomed and segregated in accordance with specification.	OK
10	Check cable earthing against lastest drawings.	OK
11	Check cores marking are in accordance with termination diagram	PL
12	Check terminations are in accordance with latest termination diagram	OK
13	If required produce Red Line Mark Up for "AS BUILT"	

ROSETTI MARINO | PROVERLIS | CROSSWIND

ITEM	Tag	83021-CEL-01	: Welding Sockets (Top Deck) JB's / Welding Socket (Top Deck)			Dwg	123A90-DDL-EL-LIS-20148
	S/Sys	83-50	: Welding Sockets			Module	LD_B-200/LD
TASK	code	C10000543		Location	Onshore Activities	User	Rosetti Marino Quality Control
FORM	Process	MC	Activity CCK	Discipline	Electrical	Form	CPX09 LV Power Cable

	CONTINUITY			
5	CORE CONTINUITY Ω	PH 1	0,5	
6		PH 2	0,5	
7		PH 3	0,5	
8	ARMOUR CONTINUITY Ω		NA	
9	PROTECTIVE CONDUCTOR CONTINUITY Ω		0,5	
	INSULATION			
10	CORES / ARMOUR+EARTH MΩ	PH1 / PH2-PH3-A-E	>999	
11		PH2 / PH1-PH3-A-E	>999	
12		PH3 / PH1-PH2-A-E	>999	
13	CABLE IS CORRECTLY RE-CONNECTED.		Yes	

TESTING INSTRUMENTS USED			
TYPE / SERIAL N° :	MEGGER : KEW3125A SERIAL: W8330207	TYPE / SERIAL N° :	MULTIMETER: FLUKE 175 SERIAL:AW1/018(17140769)
Calibration certificate N° and date:	N°7722/24 _ 10/07/2024	Calibration certificate N° and date:	N°7715/24 _ 10/07/2024

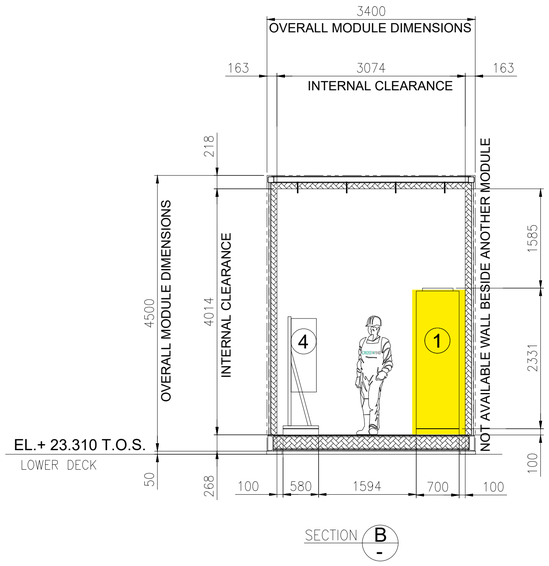
Comments: CORE CONTINUITY PH 4= 0.5

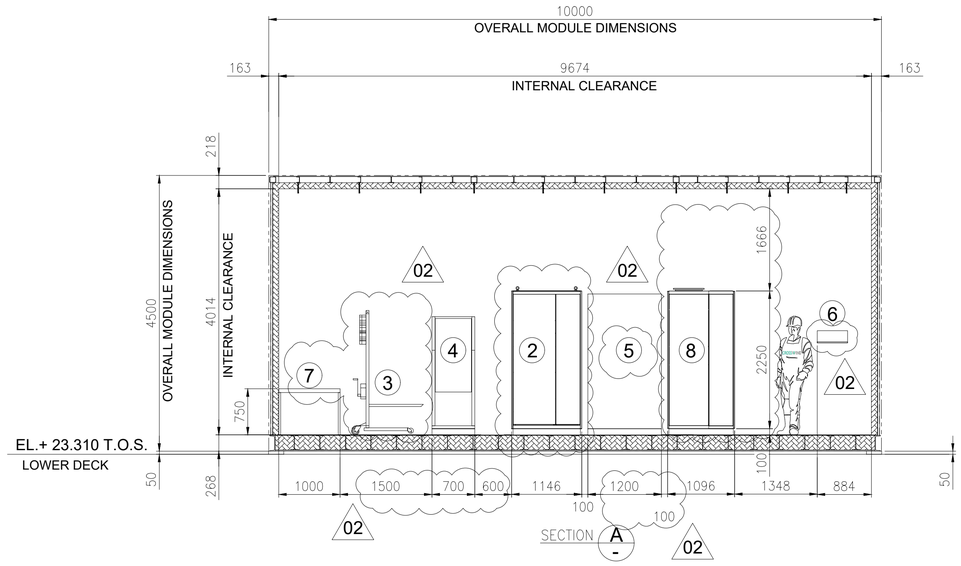
CORES / ARMOUR+EARTH INS. PH 4 = >999 M

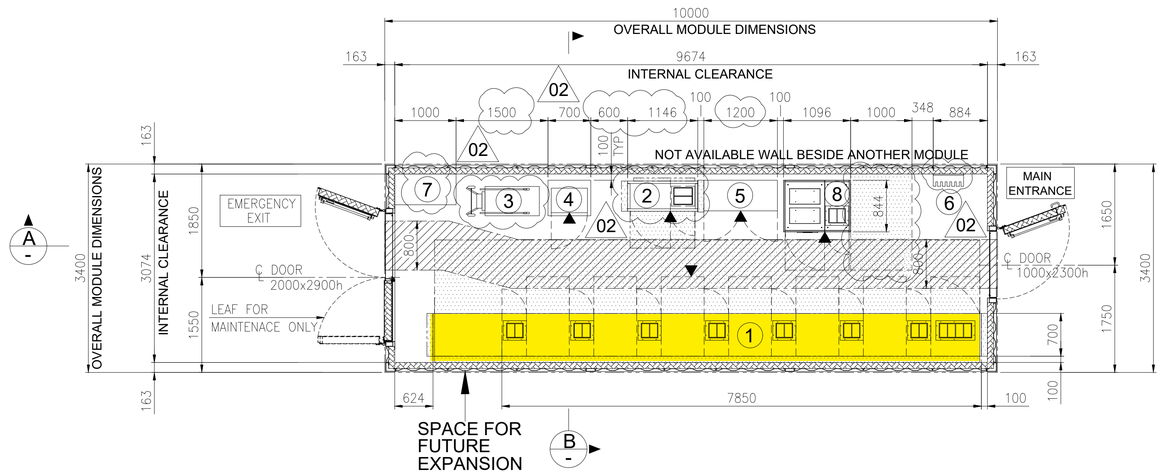
Nota 4: refer to PL C30000679

	Performed by	● WITNESS ☐ REVIEW	☐ WITNESS ☐ REVIEW
Company	ICS IMPIANTI	RM(ROSETTI MARINO)	
Name	Francesco Zucca	Giovanni Tangianu	
Date	2024-11-29	2024-12-04	
Signature	PROVERLIS Digitaly signed by Francesco Zucca 2024-11-29T10:30:54.313Z	PROVERLIS Digitaly signed by Giovanni Tangianu 2024-12-04T17:10:26.857Z	

DRAWING NO. 123A90-DDL-EL-DL-20105 REV. 02





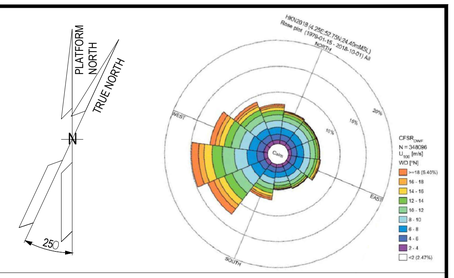


EQUIPMENT LAYOUT
"B-200" LV (400V) SWITCHGEAR ROOM
BOTTOM PLAN

1

EQUIPMENT LIST

REF.	TAG No.	DESCRIPTION	LENGTH (mm)	WIDTH (mm)	HEIGHT (mm)	NOTE
1	SG-200N1	400V SWITCHGEAR	7850	700	2331	
2	DP-200N1	DISTRIBUTION BOARD FOR LIGHTING AND SMALL POWER B.O.P.	1146	520	2250	
3	-	SERVICE TROLLEY FOR 400V SWITCHGEAR	1034	490	2030	
4	CN-200N1	ICCP PANEL	700	580	1830	
5	B200-HSB-001	DISTRIBUTION & HVAC PANEL - LV ROOM	1200	600	1900	02
6	-	TOOL BOX	495	200	200	
7	-	TABLE	1000	500	750	
8	SG-200D2	ACB PANEL FOR SOLAR PACKAGE	1096	844	2294	



NOTES

1. U.N.O. ALL DIMENSIONS ARE IN MILLIMETERS.
2. DELETED.
3. DOCUMENT VALID ONLY FOR ELECTRICAL COMPONENT, FOR OTHER SCOPE LOCATION AND INFORMATION, PLEASE REFER TO VENDORS AND PROJECT DOCUMENTS.
4. FOR OTHER ITEMS, CORRECT LOCATION AND INFORMATION, PLEASE REFER TO VENDORS AND DEDICATED PROJECT DOCUMENTATION.
5. HEIGHT OF ALL PANELS IN THE EQUIPMENT LIST TABLE IS WITHOUT THE BASE FRAME (100mm)

02

LEGEND

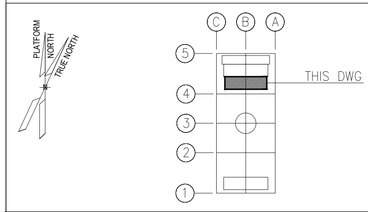
U.N.O. _____ UNLESS NOTED OTHERWISE
T.O.S. _____ TOP OF STEEL
_____ ESCAPE CORRIDOR - WIDTH 800mm.
_____ MAINTENANCE AREA - VENDOR REQUIREMENT
_____ SWITCHGEAR ROOM ENCLOUSURE
_____ FRONT OF EQUIPMENT

REFERENCES

DOCUMENT TITLE	DOCUMENT NUMBER
SG-200N1 GENERAL ARRANGEMENT DRAWING	1723002197-EL-DA-00007
SG-200D2 GENERAL ARRANGEMENT DRAWING	1723002197-EL-DA-00008
DP-200N1 GENERAL ARRANGEMENT DRAWING	1723002197-EL-DA-00009
AC UPS – GENERAL ARRANGEMENT AND DIMENSIONAL DRAWINGS	1724000372-EL-DA-00004
AC UPS – BATTERY LAYOUT INTERCONNECTING DIAGRAM	1724000372-EL-DG-00011
B-200 -GENERAL ARRANGEMENT DRAWINGS - E&I SHELTER	1724000049-AR-DA-00015
ICCC PANEL GENERAL ARRANGEMENT DRAWING	144671-CORR-TF-FAB-DWG-0003

02

KEY PLAN



REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	27/05/2024	FMO	LMA/AMA	LMA/MDO	ACCEPTED FOR CONSTRUCTION (AFC)
01	26/03/2024	GPA	LMA/AMA	LMA/MDO	ISSUE FOR REVIEW (IFR)
00	08/11/2023	DSF	CB/AMA	DYFO/MDO	ISSUE FOR REVIEW (IFR)

CROSSWIND

ROSETTI MARINO

VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DL-20105**

REV.:	DATE:	SIGNATURE:
2_A	08/08/24	G.Randi

ROSETTI MARINO SpA

TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL EQUIPMENT LAYOUT
LV SWITCHROOM

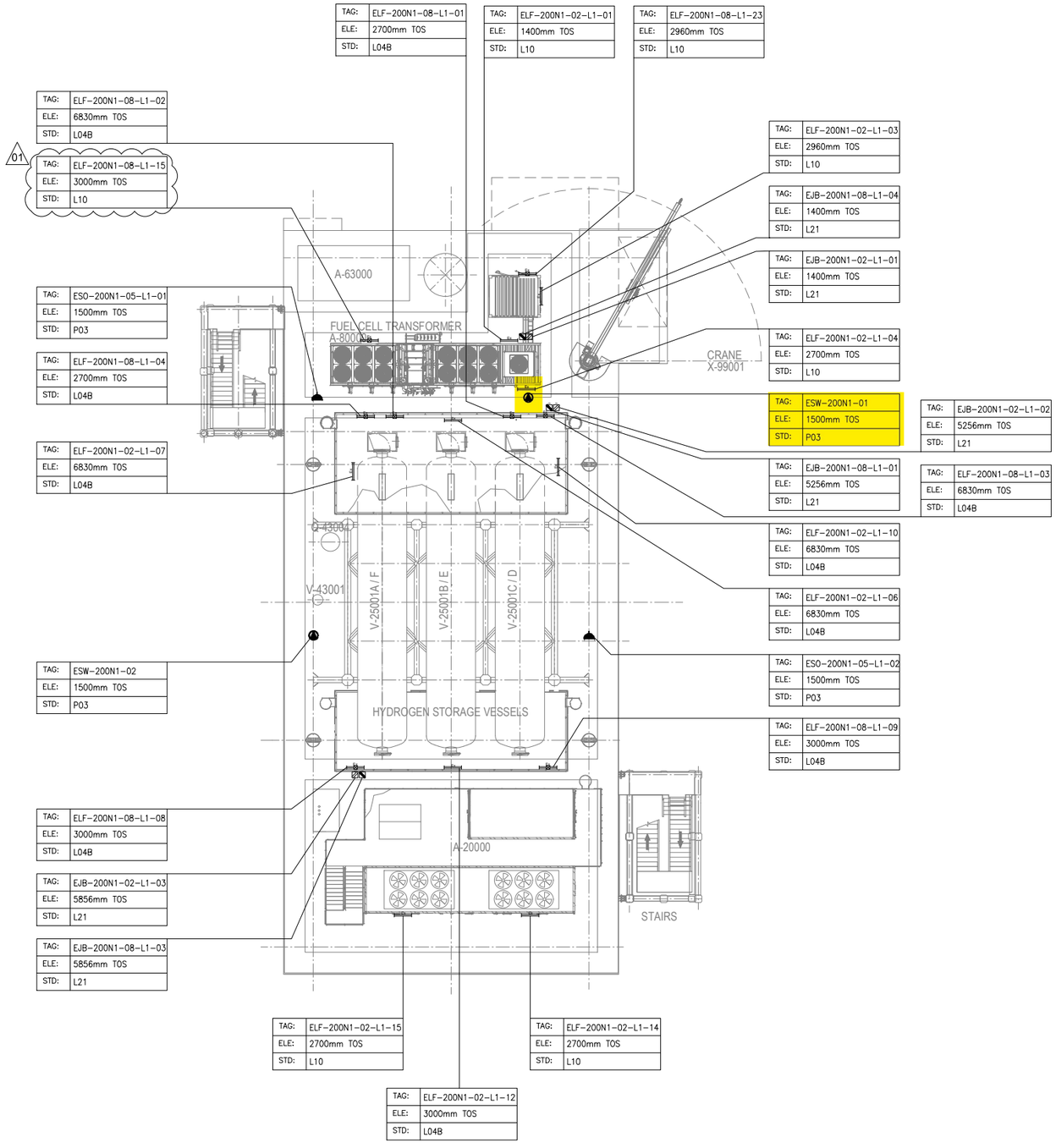
CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK			SCALE 1:50
DRAWN FMO	CHECKED LMA/AMA	APPROVED LMA/MDO	DATE 27/05/2024

A1	DRAWING NO. 123A90-DDL-EL-DL-20105	SHEET 001	REV. 02

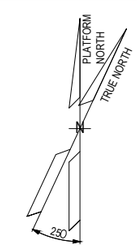
File Name : 123A90-DDL-EL-DL-20105_REV02.dwg

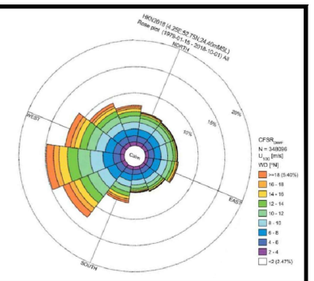
DRAWING NO. 123A90-DDL-EL-DL-20118

REV. 01



PLAN ON UPPER DECK
EL+30.310 T.O.S.





NOTES

1. ALL DIMENSIONS AND ELEVATIONS ARE GIVEN IN mm UNLESS OTHERWISE NOTED.
2. ELEVATIONS REFER TO T.O.S.
3. ELEVATION OF THE LAMPS ARE REFFERED TO THE BOTTOM OF THE LAMP.
4. FOR THE ELEVATION OF JB, REFER TO THE TYPICAL INSTALLATION.

LEGEND

- EMERGENCY LIGHTING JB
- 60W LED EMERGENCY LUMINARIES
- 60W LED EMERGENCY LUMINARIES FIXTURE POLE MOUNTED
- NORMAL LIGHTING JB
- 45W LED NORMAL LUMINARIES
- 45W LED NORMAL LUMINARIES FIXTURE POLE MOUNTED
- WELDING SOCKET WITH INTEGRATED JB
- SMALL POWER SOCKET WITH INTEGRATED JB

JB TAG:	JB-TAG
TAG:	TAG
ELE:	ELEVATION
STD:	STANDARD

VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DL-20118**

REV.:	DATE:	SIGNATURE:
1_B	22/10/24	G.Randi

ROSETTI MARINO SpA

REFERENCE DOCUMENTS

123A90-DDL-PP-DL-70070	PLOT PLAN - LOWER & UPPER DECK
123A90-DDL-EL-DL-20100	ELECTRICAL EQUIPMENT LAYOUT - TOP DECK
123A90-DDL-EL-DD-20091	ELECTRICAL TYPICAL INSTALLATION DETAILS - LIGHTING SYSTEM
123A90-DDL-EL-DD-20092	ELECTRICAL TYPICAL INSTALLATION DETAILS - POWER SYSTEM & CABLE INSTALLATION
123A90-DDL-EL-RE-20153	LIGHTING CALCULATION STUDY REPORT

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	02/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	28/05/24	ASR	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND

ROSETTI MARINO

TITLE :
BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET LAYOUT – TOP DECK

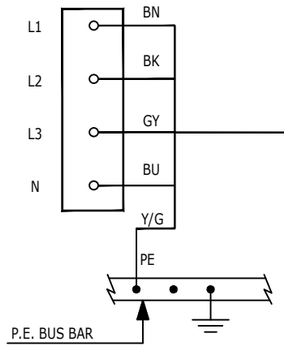
CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK			SCALE 1:150
DRAWN ASR	CHECKED FMA/AMA	APPROVED FPA/DLO	DATE 01/08/24
A1	DRAWING NO. 123A90-DDL-EL-DL-20118	SHEET 2of2	REV. 01

File Name : 123A90-DDL-EL-DL-20118

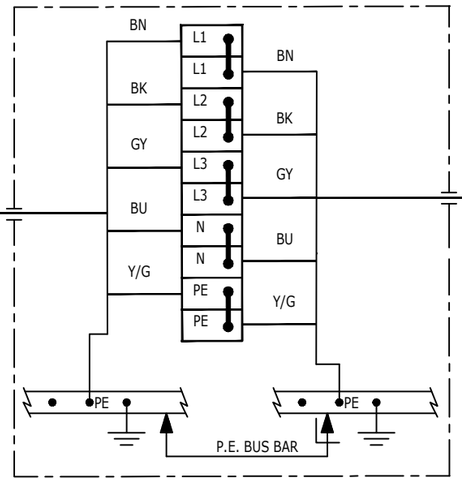
FROM	TO

DESCRIPTION: LV Switchgear
TAG NUMBER: SG-200N1

COLUMN/CUBIC.: A6/+08



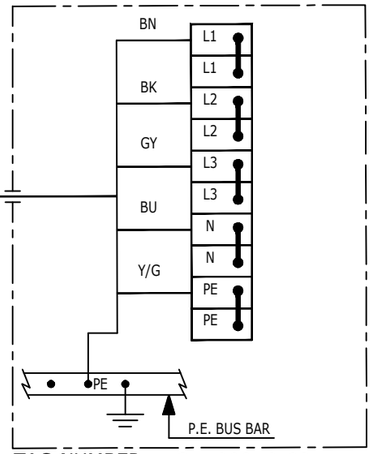
83021-CEL-01
5G50 mm²



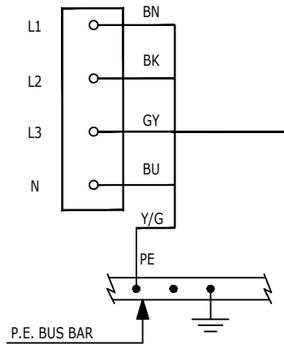
DESCRIPTION: WELDING SOCKETS (TOP DECK)
TAG NUMBER: ESW-200N1-01

83021-CEL-02
5G50 mm²

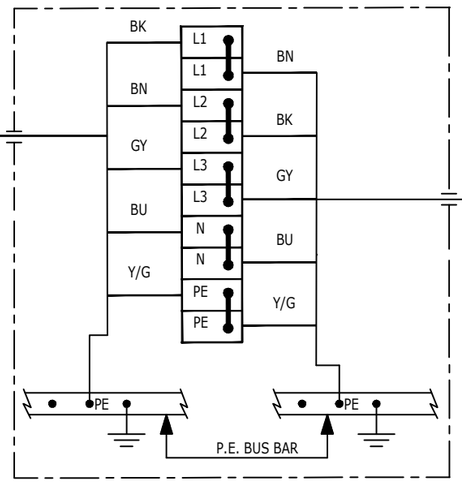
TAG NUMBER: ESW-200N1-02



COLUMN/CUBIC.: A7/+08



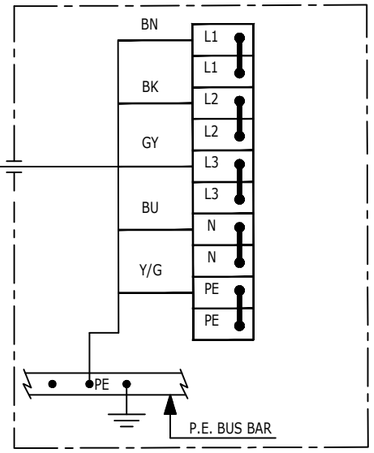
83022-CEL-01
5G50 mm²



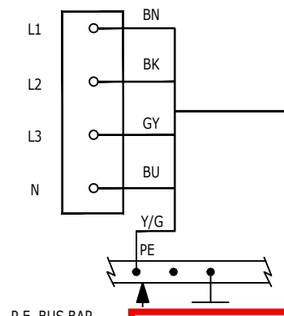
DESCRIPTION: WELDING SOCKET (LOWER DECK)
TAG NUMBER: ESW-200N2-01

83022-CEL-02
5G50 mm²

TAG NUMBER: ESW-200N2-02

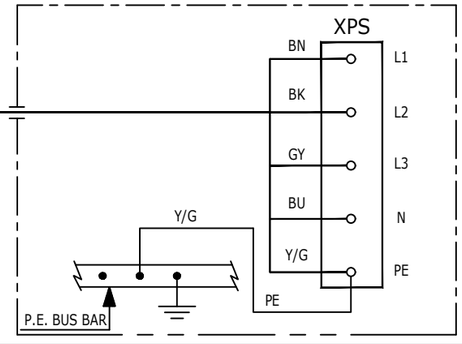


COLUMN/CUBIC.: A4/+02



83023-CEL
5G16 mm²

DESCRIPTION: HVAC PANELS - HV ROOM
TAG NUMBER: B100-HSB-001



VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DG-20149**

REV.:	DATE:	SIGNATURE:
2_C	02/12/24	G.Randi

ROSETTI MARINO SpA

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	19/11/24	SAI	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	16/10/24	SAI	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	08/07/24	SAI	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL INTERCONNECTING WIRING DIAGRAM
LV SWITCHGEAR SG-200N1

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE : 1:X

A3

DRAWING NO. 123A90-DDL-EL-DG-20149

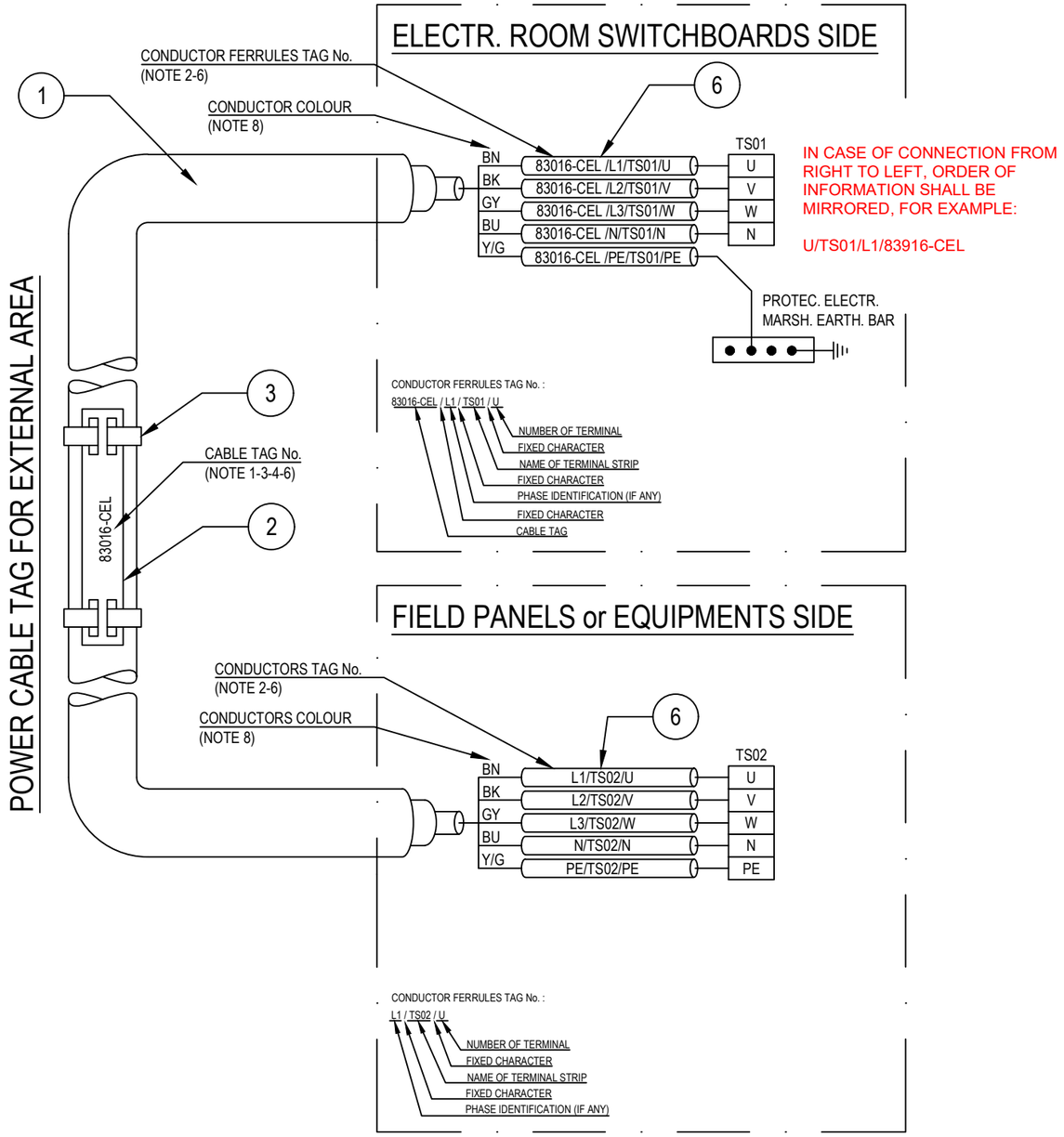
SHEET 025

REV. 02

F.to UNI A3: 420mmx297mm

File Name : 123A90-DDL-EL-DG-20149 Rev. 02

C02



POS.	DESCRIPTION	MATERIAL	SIZE	Q.TY	NOTE
1	UNARMOURED CABLE				
2	CABLE TAG FOR EXTERNAL AREA	HDG/SS			NOTE 1 NOTE 4
3	TIE FOR CABLE TAG IN EXTERNAL AREA	HDG/SS			
4	CABLE TAG FOR INTERNAL AREA	PVC			NOTE 1 NOTE 5
5	TIE FOR CABLE TAG IN INTERNAL AREA	NYLON 6.6			
6	CORE FERRULES	PVC			

NOTES:

1) ALL CABLES SHALL BE IDENTIFIED AT EACH TERMINATION AND EACH SIDE OF ANY OBSTACLE (E.G. CABLE TRANSIT ON WALLS INSIDE SHELTER AND FLOOR DECK CROSSING, BY THEIR RESPECTIVE TAGS/NUMBERS, AS INDICATED ON THE CABLE SCHEDULE.
CABLE IDENTIFICATION SHALL BE ALSO DONE BELOW AND IN THE SWITCHBOARD CABLE COMPARTMENT.

2) CABLE CORE FERRULES SHALL BE FITTED AT EVERY TERMINATION. THESE FERRULES SHALL BE OF ENGRAVED PLASTIC SLIP ON, INTERLOCKED AND SELF GRIP TYPE.

3) ON CABLE TRAYS OR LADDERS, CABLES SHALL BE IDENTIFIED AT EACH END, AND EVERY 25 METERS.

4) THE CABLE TAG FOR EXTERNAL AREA SHALL DONE BY 316L STAINLESS STEEL LABELS, TAG (H=5mm) SHALL BE LASER PRINTED PREFERABLY OR EMBOSSED, LABEL HELD BY TWO 316L STAINLESS STEEL TIES.

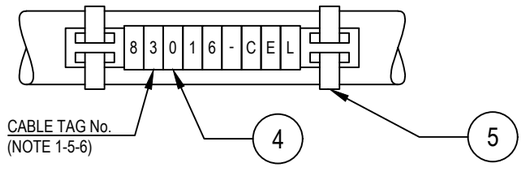
5) THE CABLE TAG FOR INTERNAL AREA SHALL BE DONE BY ENGRAVED PLASTIC SLIP ON CHARACTERS ONTO PLASTIC TIE, BLACK LETTER (H=5mm) ON WHITE.

6) CABLE AND CONDUCTOR TAG ARE INDICATIVE ONLY.

7) WITHIN TECHNICAL BUILDING, PROTECTIVE CONDUCTOR SHALL BE TAGGED BETWEEN FOLLOWING ITEMS:
- PANEL (SWITCHBOARD, SWITCHGEAR, DISTRIBUTION BOARD, ETC) AND EARTH BAR
- EARTH BAR AND EARTH BOSS

8) ONLY IF NECESSARY, SHRINK TUBES OF THE APPROPRIATE COLOR WILL BE INSTALLED TO COVER THE WRONG CONDUCTOR COLOR, THIS WILL BE PERFORMED IN EACH SIDE OF THE CABLES WHERE NECESSARY.

POWER CABLE TAG FOR INTERNAL AREA



VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DD-20092**

REV.:	DATE:	SIGNATURE:
2_B	28/11/24	G.Randi

ROSETTI MARINO SpA

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	28/08/24	GRA	AMA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	04/07/24	NLK	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	21/11/23	SPS	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL TYPICAL INSTALLATION DETAILS-POWER SYSTEM & CABLE INSTALLATION
CABLES INSTALLATION SYSTEM IDENTIFICATION FOR POWER CABLES

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK | SCALE : NTS

A3	DRAWING NO.	SHEET	REV.
	123A90-DDL-EL-DD-20092	007	02

F.to UNI A3: 420mmx297mm

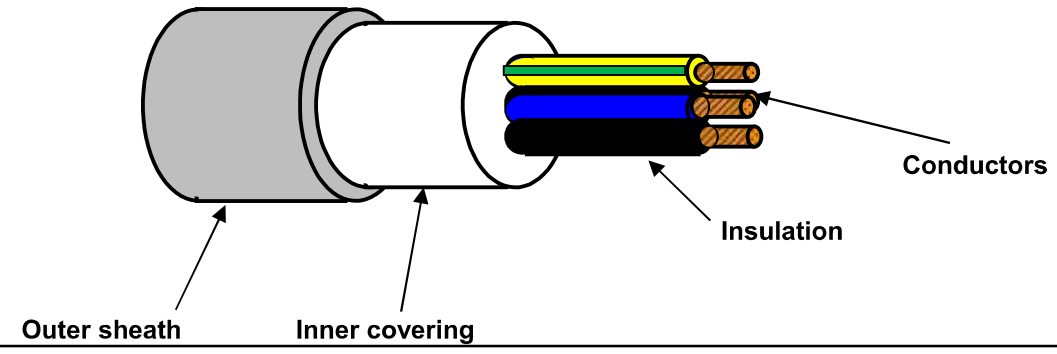
File Name : 123A90-DDL-EL-DD-20092 REV.02.DWG

Tag Number	Category	Discipline	Eng Status	NativeDoc	Layout	Parent Tag	Main Function	Secondary Function	Area	From Tag	From Main Function	From Area	To Tag	To Main Function	To Area	Material ID	Material Desc.	Gland Standard	From Gland	From Entry	From Fitting	To Gland	To Entry	To Fitting	Routing	Routing Manual
83021-CEL-01	Cable	EL	VFC	123A90-DDL-EL-LIS-20148						5G-200N1	LV 0,4 kV MCC Switchgear	Lower Deck (B-200)	ESW-200N1-01	Welding Socket 125A	Upper Deck	ELECV13-5G50	Cable Cu Cl.2/EPR/LSZH 0,6/1kV 5G50mm² - Grey	M50S	n.a.			T1_M50S_Single				L-450-101-LVT-027 / L-600-101-LVT-017 / L-600-101-LVT-019 / L-600-101-LVT-020 / E-MCT-204 / L-600-101-LVT-010 / L-150-101-LVT-103

FLEI s.r.l.

Cu Cl.2/EPR/LSZH 0,6/1 KV

5G50 - L.V. POWER CABLE - Flame Retardant



TECHNICAL FEATURES

Conductors :	**STRANDED COMPACTED** plain/bare annealed copper wires	IEC 60228 Class 2
Insulation :	EPR compound, quality to IEC 60092.360, Nominal Thickness 1,4 mm	
Cores colour code :	**Black - Brown - Grey - Blue - Yellow/Green**	
Pair Assembling :	Not required	
Pair Wrapping:	Not required	
Drain wire :	Not required	
Pair Shield :	Not required	
Shield Insulation :	Not Required	
Total Assembling :	Cores layed up with optimal lay length	
Overall Wrapping:	Not required	
Drain wire :	Not required	
Overall Shield:	Not required	
Inner covering :	Extruded LSZH compound, Average Thickness 1,2 mm	
Inner covering color code:	**Black or Natural**	
Armour :	Not required	
Outer sheath :	Extruded LSZH Thermoplastic Compound (O.I. ≥ 30%), type **SHF1** to IEC 60093.360, Average Thickness 1,7 mm	
Outer sheath color code:	**Grey**	
Outer printing (INKJET) :	**FLEI - ELECTRIC CABLE - 1000V - 5G50 SQMM - EPR/LSZH - 0,6/1 KV - IEC 60332.1.2 - IEC 60332.3.22 -**	
	Year of Manufacture - CE + Meter Marking	
Outer diameter :	(35,0 ± 10%) mm	
Bending radius :	cable outer diameter x 10	(in fixed installation)
Voltage test :	3,5 kV a.c. for 5' (Between Cores)	
Conductors DC Resistance :		IEC 60228 Class 2
Insulation Resistance :	≥ 480 MΩ x Km (@ 20°C)	
Applicable Standards		
Design Guidelines :	**IEC 60092.353**	
ON COMPLETE CABLE		
Flame Retardant test :	IEC 60332.1.2 - IEC 60332.3.22	
Acid Gas generation :	IEC 60754.1/2	
Smoke density/Light Transmittance	IEC 61034.2 (LT ≥ 60%)	
Temperature Range :		
ON INSULATION	(max +90°C)	(max continuous operation temperature of conductors)
	(max +250°C)	(max conductors temperature during short-circuit for 5 seconds)
ON COMPLETE CABLE		
During Operation :	(-20°C up to +90°C)	(in fixed installation)
During installation :	(- 5°C up to +50°C)	
Note :	**To meet the requirements of installation and use in Zone 1 & Zone 2 (IEC 60079-14) and "Gas & Vapour Tight" the cable must be provided with Penetrating Inner covering together with correct ATEX approved equipment or accessories.**	

Office	Date	Sign	Rev.	Date	Sign
Drawn by :	29/03/2024	Messa	1	30/05/2024	Messa
Checked :	29/03/2024	Spaccasassi	1	30/05/2024	Spaccasassi
Approved :	29/03/2024	Cucinotta	1	30/05/2024	Cucinotta

The data provided, lending assent for the treatment, will be used to the sense of the article 13 of of the Regulation (UE) 2016/679, also through outsiders, in order to allow the realization of the fulfilments informatives, administrative, commercial and accounting related to the contractual relationship. Integral copy of the informative could be requested at our offices.

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ITEM	Tag	83021-CEL-02	: Welding Sockets (Top Deck) JB's / Welding Socket (Top Deck)		Dwg	123A90-DDL-EL-LIS-20148	
	S/Sys	83-50	: Welding Sockets		Module	UD	
TASK	code	C10000544	Location	Onshore Activities	User	Rosetti Marino Quality Control	
FORM	Process	MC	Activity CCK	Discipline Electrical	Form	CPX09	LV Power Cable

CABLE DATA

Type: Cu Cl.2/EPR/LSZH | Cores/Size mm²: 5G50 mm2 | Color: GREY

From: ESW-200N1-01 | To: ESW-200N1-02

1	Confirm cable is as specified in project cable schedule	OK
2	Visual Check cable physical integrity.	OK
3	Check is installed in accordance with layout drawing (segregation, distance…).	OK
4	Check cable is supported and fixed to rack according to project specification.	PL
5	Check bending radius is within the specified limits.	PL
6	Confirm cable glands suit for cable type, correctly mounted and tightened.	OK
7	Check gland plate for single core cables is non ferrous (non -magnetic).	NA
8	Confirm cable labelling is in accordance with specifications.	PL
9	Check cable is correctly loomed and segregated in accordance with specification.	OK
10	Check cable earthing against lastest drawings.	OK
11	Check cores marking are in accordance with termination diagram	PL
12	Check terminations are in accordance with latest termination diagram	OK
13	If required produce Red Line Mark Up for "AS BUILT"	

ROSETTI MARINO PROVERLIS CROSSWIND

ITEM	Tag	83021-CEL-02	: Welding Sockets (Top Deck) JB's / Welding Socket (Top Deck)			Dwg	123A90-DDL-EL-LIS-20148
	S/Sys	83-50	: Welding Sockets			Module	UD
TASK	code	C10000544		Location	Onshore Activities	User	Rosetti Marino Quality Control
FORM	Process	MC	Activity CCK	Discipline	Electrical	Form	CPX09 LV Power Cable

	CONTINUITY			
5	CORE CONTINUITY Ω	PH 1	0,1	
6		PH 2	0,1	
7		PH 3	0,1	
8	ARMOUR CONTINUITY Ω		NA	
9	PROTECTIVE CONDUCTOR CONTINUITY Ω		0,1	
	INSULATION			
10	CORES / ARMOUR+EARTH MΩ	PH1 / PH2-PH3-A-E	>999	
11		PH2 / PH1-PH3-A-E	>999	
12		PH3 / PH1-PH2-A-E	>999	
13	CABLE IS CORRECTLY RE-CONNECTED.		Yes	

TESTING INSTRUMENTS USED

TYPE / SERIAL N° :	MEGGER : KEW3125A SERIAL: W8330207	TYPE / SERIAL N° :	MULTIMETER: FLUKE 175 SERIAL:AW1/018(17140769)
Calibration certificate N° and date:	N°7722/24 _ 10/07/2024	Calibration certificate N° and date:	N°7715/24 _ 10/07/2024

Comments: CORE CONTINUITY PH 4= 0.3

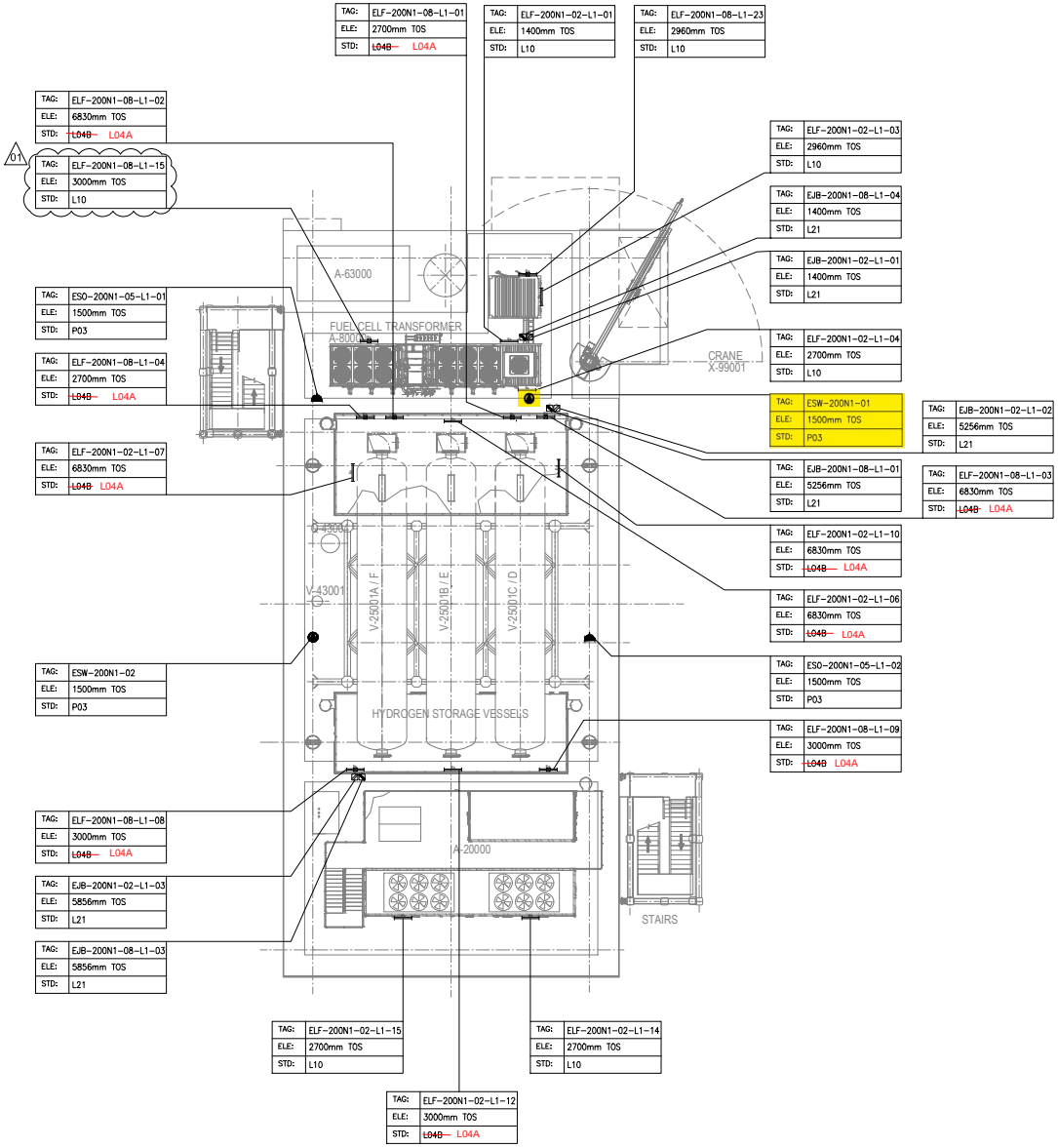
CORES / ARMOUR+EARTH INS. PH 4 = >999 M

Nota 4: refer to PL C30000679

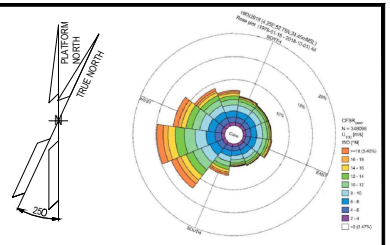
	Performed by	● WITNESS ☐ REVIEW	☐ WITNESS ☐ REVIEW
Company	ICS IMPIANTI	RM(ROSETTI MARINO)	
Name	Francesco Zucca	Luca Mussi	
Date	2024-12-07	2024-12-31	
Signature	PROVERLIS Digitaly signed by Francesco Zucca 2024-12-07T07:52:09.004Z	PROVERLIS Digitaly signed by Luca Mussi 2024-12-31T11:08:35.110Z	

DRAWING NO. 123A90-DDL-EL-DL-20118

REV. 01



PLAN ON UPPER DECK
EL+30.310 T.O.S.



NOTES

1. ALL DIMENSIONS AND ELEVATIONS ARE GIVEN IN mm UNLESS OTHERWISE NOTED.
2. ELEVATIONS REFER TO T.O.S.
3. ELEVATION OF THE LAMPS ARE REFFERED TO THE BOTTOM OF THE LAMP.
4. FOR THE ELEVATION OF JB, REFER TO THE TYPICAL INSTALLATION.

LEGEND

- EMERGENCY LIGHTING JB
- 60W LED EMERGENCY LUMINARIES
- 60W LED EMERGENCY LUMINARIES FIXTURE POLE MOUNTED
- NORMAL LIGHTING JB
- 45W LED NORMAL LUMINARIES
- 45W LED NORMAL LUMINARIES FIXTURE POLE MOUNTED
- WELDING SOCKET WITH INTEGRATED JB
- SMALL POWER SOCKET WITH INTEGRATED JB

JB TAG:	JB-TAG
TAG:	TAG
ELE:	ELEVATION
STD:	STANDARD

REFERENCE DOCUMENTS

123A90-DDL-PP-DL-70070	PLOT PLAN - LOWER & UPPER DECK
123A90-DDL-EL-DL-20100	ELECTRICAL EQUIPMENT LAYOUT - TOP DECK
123A90-DDL-EL-DD-20091	ELECTRICAL TYPICAL INSTALLATION DETAILS - LIGHTING SYSTEM
123A90-DDL-EL-DD-20092	ELECTRICAL TYPICAL INSTALLATION DETAILS - POWER SYSTEM & CABLE INSTALLATION
123A90-DDL-EL-RE-20153	LIGHTING CALCULATION STUDY REPORT
123A90-DDL-ST-DD-90076	IDENTIFICATION PANELS ASSEMBLY AND DETAILS

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	02/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	28/05/24	ASR	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

VALID FOR CONSTRUCTION
FDL DWG: 123A90-FDL-EL-DL-20118

REV.:	DATE:	SIGNATURE:
1_F	26/11/24	G.Randi

ROSETTI MARINO SpA

CROSSWIND

ROSETTI MARINO

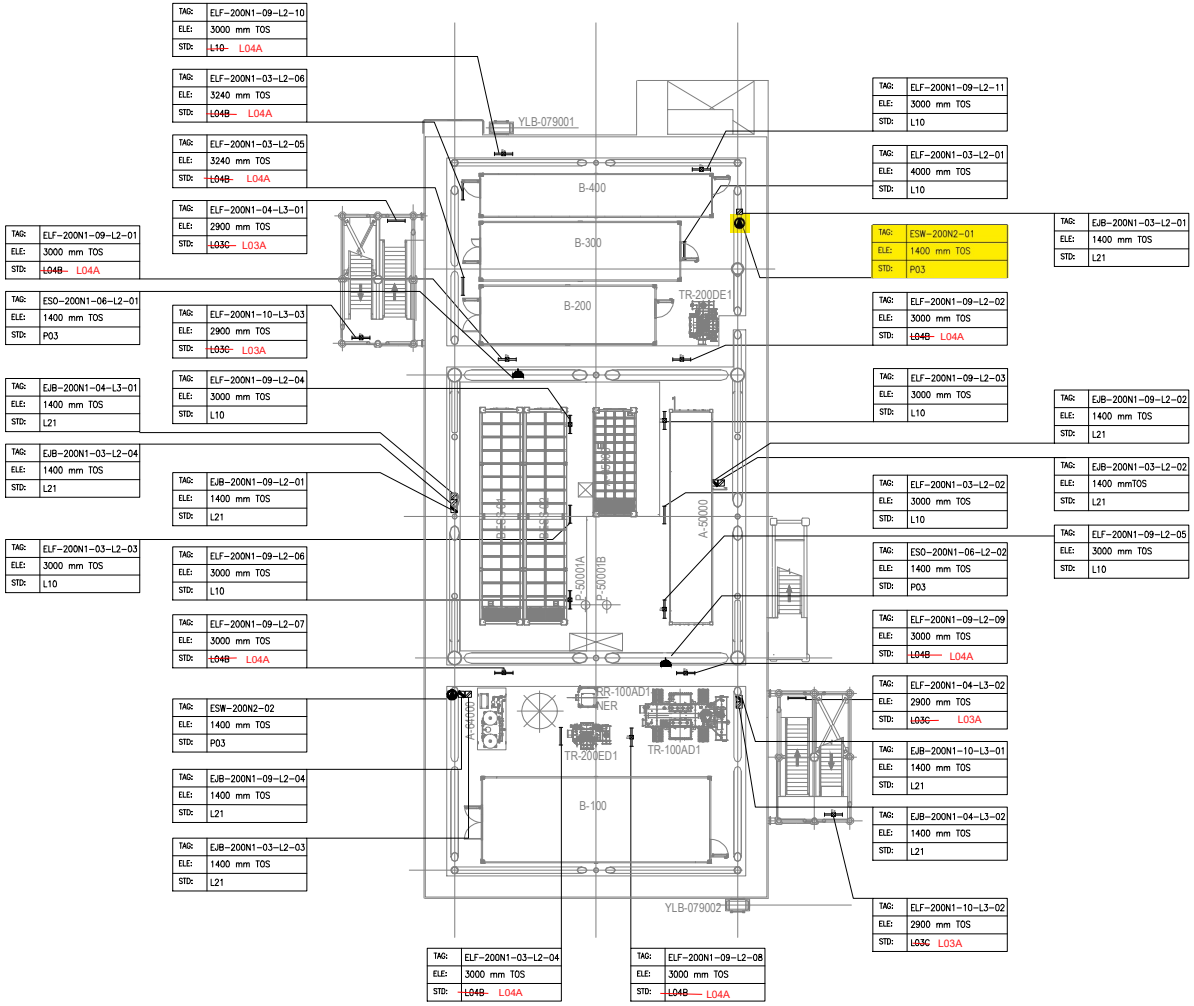
TITLE : BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET LAYOUT – TOP DECK

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK			SCALE 1:150
DRAWN ASR	CHECKED FMA/AMA	APPROVED FPA/DLO	DATE 01/08/24
A1	DRAWING NO. 123A90-DDL-EL-DL-20118	SHEET 2of2	REV. 01

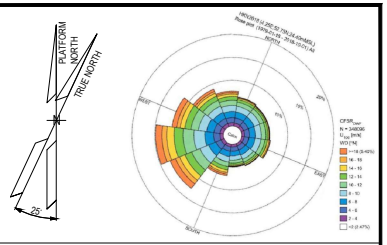
File Name : 123A90-DDL-EL-DL-20118

DRAWING NO. 123A90-DDL-EL-DL-20119

REV. 01



PLAN ON LOWER DECK
EL+23.310 T.O.S



NOTES

1. ALL DIMENSIONS AND ELEVATIONS ARE GIVEN IN mm UNLESS OTHERWISE NOTED.
2. ELEVATIONS REFER TO T.O.S.
3. ELEVATION OF THE LAMPS ARE REFFERED TO THE BOTTOM OF THE LAMP.
4. FOR THE ELEVATION OF JB, REFER TO THE TYPICAL INSTALLATION.
5. SHEET 1 OF 2 SHOWS ONLY POLE MOUNTED TYPE LIGHTING FIXTURES, SHEET 2 OF 2 SHOWS ONLY SUSPENDED TYPE LIGHTING FIXTURES.

LEGEND

- EMERGENCY LIGHTING JB
- 60W LED EMERGENCY LUMINARIES
- 60W LED EMERGENCY LUMINARIES FIXTURE POLE MOUNTED
- NORMAL LIGHTING JB
- 45W LED NORMAL LUMINARIES
- 45W LED NORMAL LUMINARIES FIXTURE POLE MOUNTED
- WELDING SOCKET WITH INTEGRATED JB
- SMALL POWER SOCKET WITH INTEGRATED JB

JB TAG:	JB-TAG
TAG:	TAG
ELE:	ELEVATION
STD:	STANDARD

VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DL-20119**

REV.:	DATE:	SIGNATURE:
1_D	20/11/24	G.Randi

ROSETTI MARINO SpA

REFERENCE DOCUMENTS

123A90-DDL-PP-DL-70070	PLOT PLAN - LOWER & UPPER DECK
123A90-DDL-EL-DL-20101	ELECTRICAL EQUIPMENT LAYOUT - LOWER DECK
123A90-DDL-EL-DD-20091	ELECTRICAL TYPICAL INSTALLATION DETAILS - LIGHTING SYSTEM
123A90-DDL-EL-DD-20092	ELECTRICAL TYPICAL INSTALLATION DETAILS - POWER SYSTEM & CABLE INSTALLATION
123A90-DDL-EL-RE-20153	LIGHTING CALCULATION STUDY REPORT

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	06/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	29/05/24	ASR	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET LAYOUT – LOWER DECK

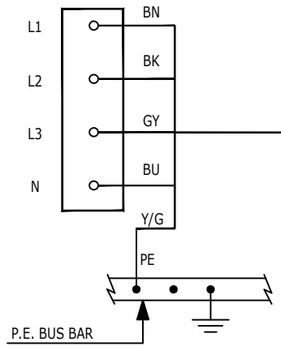
CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK			SCALE 1:150
DRAWN ASR	CHECKED FMA/AMA	APPROVED FPA/DLO	DATE 06/08/24
A1	DRAWING NO. 123A90-DDL-EL-DL-20119	SHEET 2of2	REV. 01

File Name : 123A90-DDL-EL-DL-20119

FROM	TO

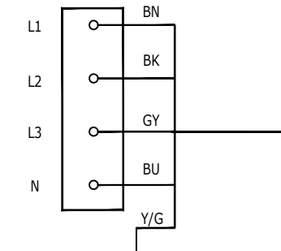
DESCRIPTION: LV Switchgear
TAG NUMBER: SG-200N1

COLUMN/CUBIC.: A6/+08



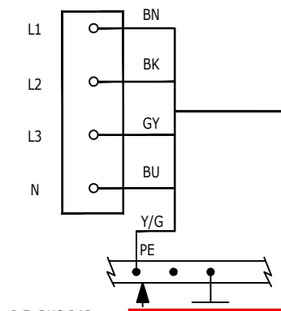
83021-CEL-01
5G50 mm²

COLUMN/CUBIC.: A7/+08



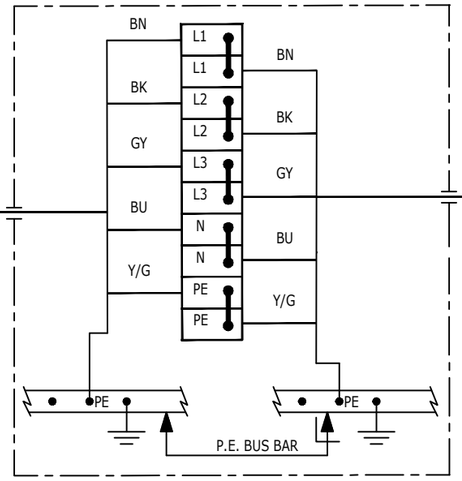
83022-CEL-01
5G50 mm²

COLUMN/CUBIC.: A4/+02



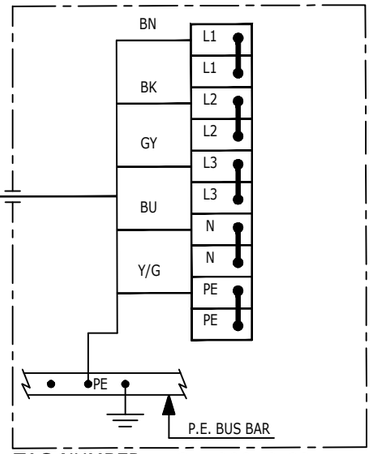
83023-CEL
5G16 mm²

DESCRIPTION: WELDING SOCKETS (TOP DECK)
TAG NUMBER: ESW-200N1-01

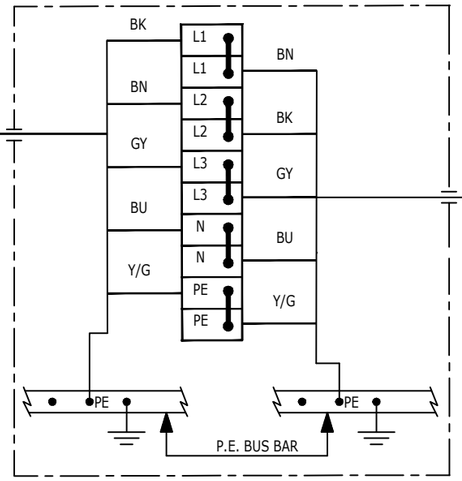


83021-CEL-02
5G50 mm²

TAG NUMBER: ESW-200N1-02

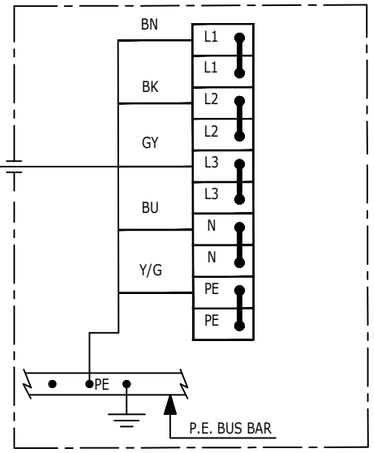


DESCRIPTION: WELDING SOCKET (LOWER DECK)
TAG NUMBER: ESW-200N2-01

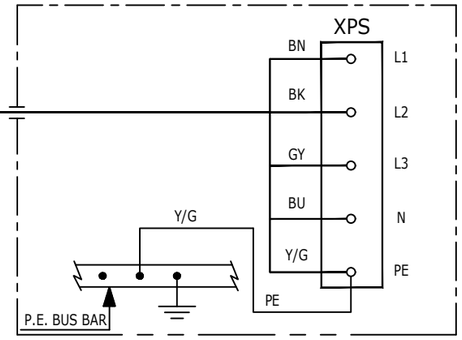


83022-CEL-02
5G50 mm²

TAG NUMBER: ESW-200N2-02



DESCRIPTION: HVAC PANELS - HV ROOM
TAG NUMBER: B100-HSB-001



VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DG-20149**

REV.:	DATE:	SIGNATURE:
2_C	02/12/24	G.Randi

ROSETTI MARINO SpA

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	19/11/24	SAI	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	16/10/24	SAI	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	08/07/24	SAI	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND

ROSETTI MARINO

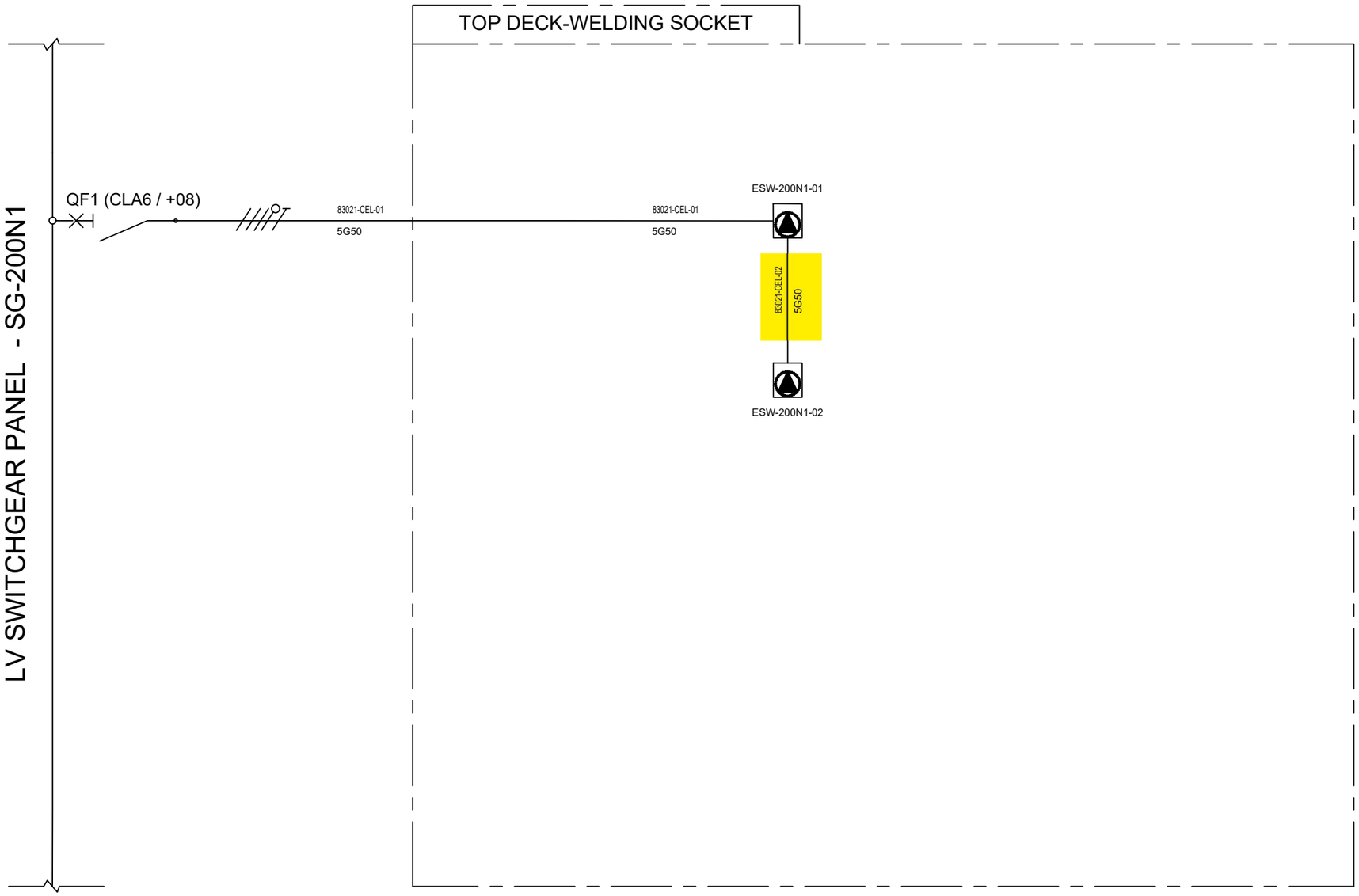
TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL INTERCONNECTING WIRING DIAGRAM
LV SWITCHGEAR SG-200N1

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK | SCALE : 1:X

A3 | DRAWING NO. 123A90-DDL-EL-DG-20149 | SHEET 025 | REV. 02

F.to UNI A3: 420mmx297mm

File Name : 123A90-DDL-EL-DG-20149 Rev. 02



VALID FOR CONSTRUCTION

REV.:	DATE:	SIGNATURE:
2_C	19/12/24	V.Ramponi

ROSETTI MARINO SpA

CROSSWIND

ROSETTI MARINO

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	08/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	01/07/24	ASR	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

TITLE : BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET CIRCUIT DIAGRAM
TOP DECK-WELDING SOCKET

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE : NTS

A3

DRAWING NO. 123A90-DDL-EL-DG-20125

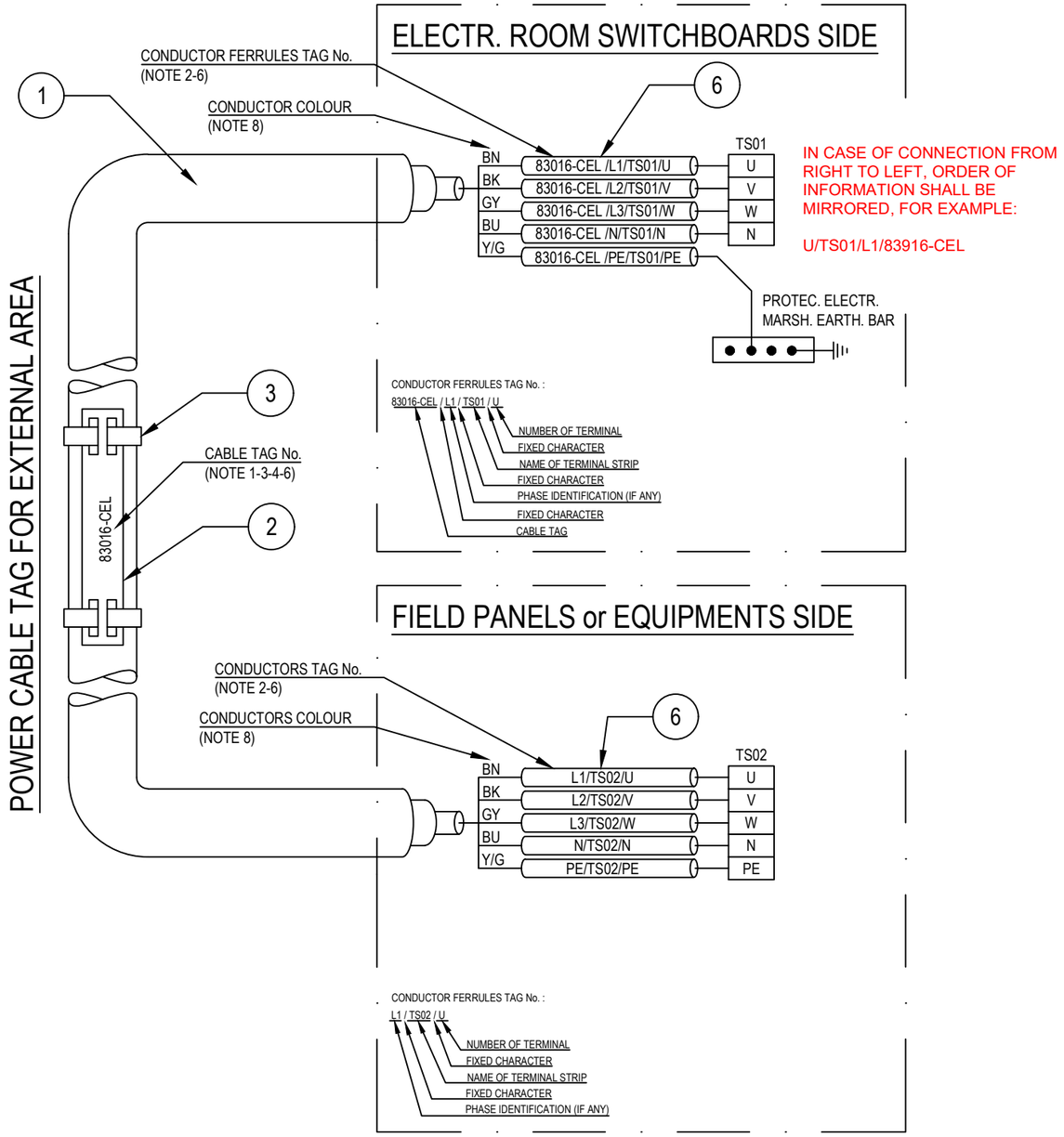
SHEET 013

REV. 01

F.to UNI A3: 420mmx297mm

File Name : 123A90-DDL-EL-DG-20125

C02



POS.	DESCRIPTION	MATERIAL	SIZE	Q.TY	NOTE
1	UNARMOURED CABLE				
2	CABLE TAG FOR EXTERNAL AREA	HDG/SS			NOTE 1 NOTE 4
3	TIE FOR CABLE TAG IN EXTERNAL AREA	HDG/SS			
4	CABLE TAG FOR INTERNAL AREA	PVC			NOTE 1 NOTE 5
5	TIE FOR CABLE TAG IN INTERNAL AREA	NYLON 6.6			
6	CORE FERRULES	PVC			

NOTES:

1) ALL CABLES SHALL BE IDENTIFIED AT EACH TERMINATION AND EACH SIDE OF ANY OBSTACLE (E.G. CABLE TRANSIT ON WALLS INSIDE SHELTER AND FLOOR DECK CROSSING, BY THEIR RESPECTIVE TAGS/NUMBERS, AS INDICATED ON THE CABLE SCHEDULE.
CABLE IDENTIFICATION SHALL BE ALSO DONE BELOW AND IN THE SWITCHBOARD CABLE COMPARTMENT.

2) CABLE CORE FERRULES SHALL BE FITTED AT EVERY TERMINATION. THESE FERRULES SHALL BE OF ENGRAVED PLASTIC SLIP ON, INTERLOCKED AND SELF GRIP TYPE.

3) ON CABLE TRAYS OR LADDERS, CABLES SHALL BE IDENTIFIED AT EACH END, AND EVERY 25 METERS.

4) THE CABLE TAG FOR EXTERNAL AREA SHALL DONE BY 316L STAINLESS STEEL LABELS, TAG (H=5mm) SHALL BE LASER PRINTED PREFERABLY OR EMBOSSED, LABEL HELD BY TWO 316L STAINLESS STEEL TIES.

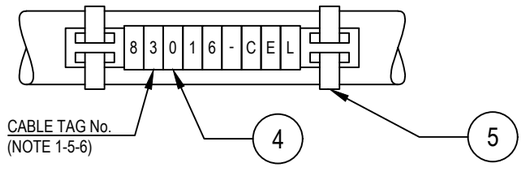
5) THE CABLE TAG FOR INTERNAL AREA SHALL BE DONE BY ENGRAVED PLASTIC SLIP ON CHARACTERS ONTO PLASTIC TIE, BLACK LETTER (H=5mm) ON WHITE.

6) CABLE AND CONDUCTOR TAG ARE INDICATIVE ONLY.

7) WITHIN TECHNICAL BUILDING, PROTECTIVE CONDUCTOR SHALL BE TAGGED BETWEEN FOLLOWING ITEMS:
- PANEL (SWITCHBOARD, SWITCHGEAR, DISTRIBUTION BOARD, ETC) AND EARTH BAR
- EARTH BAR AND EARTH BOSS

8) ONLY IF NECESSARY, SHRINK TUBES OF THE APPROPRIATE COLOR WILL BE INSTALLED TO COVER THE WRONG CONDUCTOR COLOR, THIS WILL BE PERFORMED IN EACH SIDE OF THE CABLES WHERE NECESSARY.

POWER CABLE TAG FOR INTERNAL AREA



VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DD-20092**

REV.:	DATE:	SIGNATURE:
2_B	28/11/24	G.Randi

ROSETTI MARINO SpA

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	28/08/24	GRA	AMA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	04/07/24	NLK	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	21/11/23	SPS	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL TYPICAL INSTALLATION DETAILS-POWER SYSTEM & CABLE INSTALLATION
CABLES INSTALLATION SYSTEM IDENTIFICATION FOR POWER CABLES

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK | SCALE : NTS

A3	DRAWING NO.	SHEET	REV.
	123A90-DDL-EL-DD-20092	007	02

F.to UNI A3: 420mmx297mm

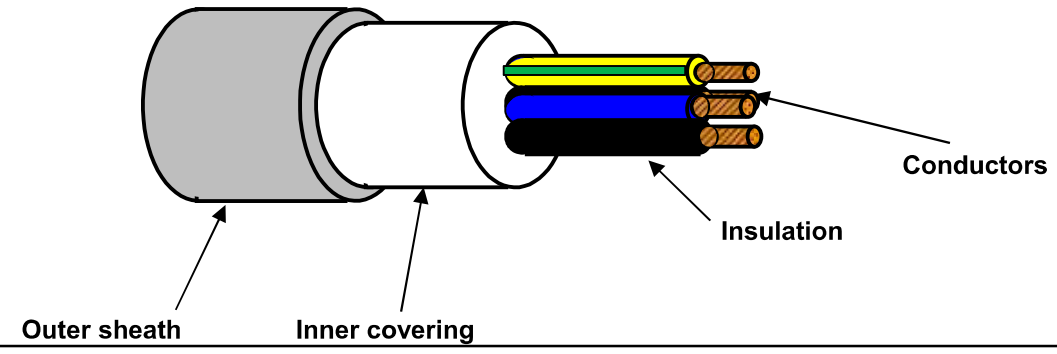
File Name : 123A90-DDL-EL-DD-20092 REV.02.DWG

Tag Number	Category	Discipline	Eng Status	NativeDoc	Layout	Parent Tag	Main Function	Secondary Function	Area	From Tag	From Main Function	From Area	To Tag	To Main Function	To Area	Material ID	Material Desc.	Gland Standard	From Gland	From Entry	From Fitting	To Gland	To Entry	To Fitting	Routing	Routing Manual
83021-CEL-02	Cable	EL	VFC	123A90-DDL-EL-LIS-20148						ESW-200N1-01	Welding Socket 125A	Upper Deck	ESW-200N1-02	Welding Socket 125A	Upper Deck	ELECV13-5G50	Cable Cu Cl.2/EPR/LSZH 0,6/1kV 5G50mm² - Grey	M50S	T1_M50S_Single			T1_M50S_Single				E-MCT-U14 / L-150-101-LVT-103 / L-750-101-LVT-015 / L-750-101-LVT-013 / L-750-101-LVT-014 / L-600-101-LVT-094 / L-600-101-LVT-012 / L-150-101-LVT-105 / E-MCT-U11 / L-50-102-LVT-071

FLEI s.r.l.

Cu Cl.2/EPR/LSZH 0,6/1 KV

5G50 - L.V. POWER CABLE - Flame Retardant



TECHNICAL FEATURES

Conductors :	**STRANDED COMPACTED** plain/bare annealed copper wires	IEC 60228 Class 2
Insulation :	EPR compound, quality to IEC 60092.360, Nominal Thickness 1,4 mm	
Cores colour code :	**Black - Brown - Grey - Blue - Yellow/Green**	
Pair Assembling :	Not required	
Pair Wrapping:	Not required	
Drain wire :	Not required	
Pair Shield :	Not required	
Shield Insulation :	Not Required	
Total Assembling :	Cores layed up with optimal lay length	
Overall Wrapping:	Not required	
Drain wire :	Not required	
Overall Shield:	Not required	
Inner covering :	Extruded LSZH compound, Average Thickness 1,2 mm	
Inner covering color code:	**Black or Natural**	
Armour :	Not required	
Outer sheath :	Extruded LSZH Thermoplastic Compound (O.I. ≥ 30%), type **SHF1** to IEC 60093.360, Average Thickness 1,7 mm	
Outer sheath color code:	**Grey**	
Outer printing (INKJET) :	**FLEI - ELECTRIC CABLE - 1000V - 5G50 SQMM - EPR/LSZH - 0,6/1 KV - IEC 60332.1.2 - IEC 60332.3.22 -**	
	Year of Manufacture - CE + Meter Marking	
Outer diameter :	(35,0 ± 10%) mm	
Bending radius :	cable outer diameter x 10	(in fixed installation)
Voltage test :	3,5 kV a.c. for 5' (Between Cores)	
Conductors DC Resistance :		IEC 60228 Class 2
Insulation Resistance :	≥ 480 MΩ x Km (@ 20°C)	
Applicable Standards		
Design Guidelines :	**IEC 60092.353**	
ON COMPLETE CABLE		
Flame Retardant test :	IEC 60332.1.2 - IEC 60332.3.22	
Acid Gas generation :	IEC 60754.1/2	
Smoke density/Light Transmittance	IEC 61034.2 (LT ≥ 60%)	
Temperature Range :		
ON INSULATION	(max +90°C)	(max continuous operation temperature of conductors)
	(max +250°C)	(max conductors temperature during short-circuit for 5 seconds)
ON COMPLETE CABLE		
During Operation :	(-20°C up to +90°C)	(in fixed installation)
During installation :	(- 5°C up to +50°C)	
Note :	**To meet the requirements of installation and use in Zone 1 & Zone 2 (IEC 60079-14) and "Gas & Vapour Tight" the cable must be provided with Penetrating Inner covering together with correct ATEX approved equipment or accessories.**	

Office	Date	Sign	Rev.	Date	Sign
Drawn by :	29/03/2024	Messa	1	30/05/2024	Messa
Checked :	29/03/2024	Spaccasassi	1	30/05/2024	Spaccasassi
Approved :	29/03/2024	Cucinotta	1	30/05/2024	Cucinotta

The data provided, lending assent for the treatment, will be used to the sense of the article 13 of of the Regulation (UE) 2016/679, also through outsiders, in order to allow the realization of the fulfilments informatives, administrative, commercial and accounting related to the contractual relationship. Integral copy of the informative could be requested at our offices.

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ITEM	Tag	83022-CEL-01	: Welding Sockets (Lower Deck) JB's / Welding Socket (Lower Deck)		Dwg	123A90-DDL-EL-LIS-20148	
	S/Sys	83-50	: Welding Sockets		Module	LD_B-200/LD	
TASK	code	C10000546	Location	Onshore Activities	User	Rosetti Marino Quality Control	
FORM	Process	MC	Activity CCK	Discipline Electrical	Form CPX09	LV Power Cable	

CABLE DATA

Type: Cu Cl.2/EPR/LSZH | Cores/Size mm²: 5G50 mm2 | Color: GREY

From: SG-200N1 | To: ESW-200N2-01

1	Confirm cable is as specified in project cable schedule	OK
2	Visual Check cable physical integrity.	OK
3	Check is installed in accordance with layout drawing (segregation, distance…).	OK
4	Check cable is supported and fixed to rack according to project specification.	Note
5	Check bending radius is within the specified limits.	OK
6	Confirm cable glands suit for cable type, correctly mounted and tightened.	OK
7	Check gland plate for single core cables is non ferrous (non -magnetic).	NA
8	Confirm cable labelling is in accordance with specifications.	PL
9	Check cable is correctly loomed and segregated in accordance with specification.	OK
10	Check cable earthing against lastest drawings.	OK
11	Check cores marking are in accordance with termination diagram	PL
12	Check terminations are in accordance with latest termination diagram	OK
13	If required produce Red Line Mark Up for "AS BUILT"	

REFER TO FINAL SHEET FOR ACCEPTANCE

ROSETTI MARINO — PROVERLIS — CROSSWIND

ITEM	Tag	83022-CEL-01	: Welding Sockets (Lower Deck) JB's / Welding Socket (Lower Deck)			Dwg	123A90-DDL-EL-LIS-20148
	S/Sys	83-50	: Welding Sockets			Module	LD_B-200/LD
TASK	code	C10000546		Location	Onshore Activities	User	Rosetti Marino Quality Control
FORM	Process	MC	Activity CCK	Discipline	Electrical	Form	CPX09 — LV Power Cable

CONTINUITY				
5	CORE CONTINUITY Ω	PH 1	0,5	
6		PH 2	0,5	
7		PH 3	0,5	
8	ARMOUR CONTINUITY Ω		NA	
9	PROTECTIVE CONDUCTOR CONTINUITY Ω		0,4	
INSULATION				
10	CORES / ARMOUR+EARTH MΩ	PH1 / PH2-PH3-A-E	>999	
11		PH2 / PH1-PH3-A-E	>999	
12		PH3 / PH1-PH2-A-E	>999	
13	CABLE IS CORRECTLY RE-CONNECTED.		Yes	

TESTING INSTRUMENTS USED

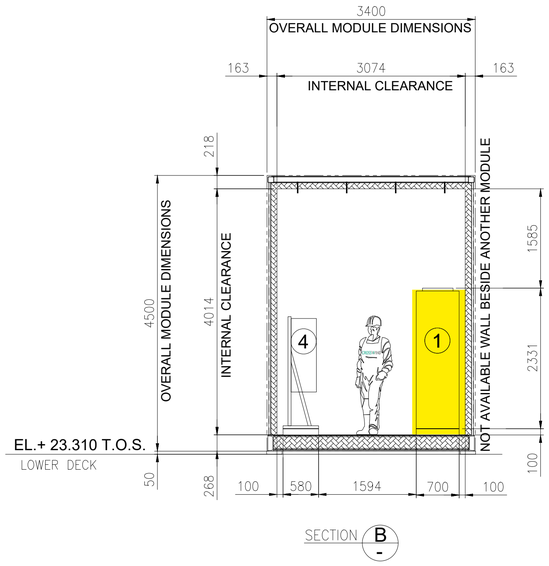
TYPE / SERIAL N° :	MEGGER : KEW3125A SERIAL: W8330207	TYPE / SERIAL N° :	MULTIMETER: FLUKE 175 SERIAL:AW1/018(17140769)
Calibration certificate N° and date:	N°7722/24 _ 10/07/2024	Calibration certificate N° and date:	N°7715/24 _ 10/07/2024

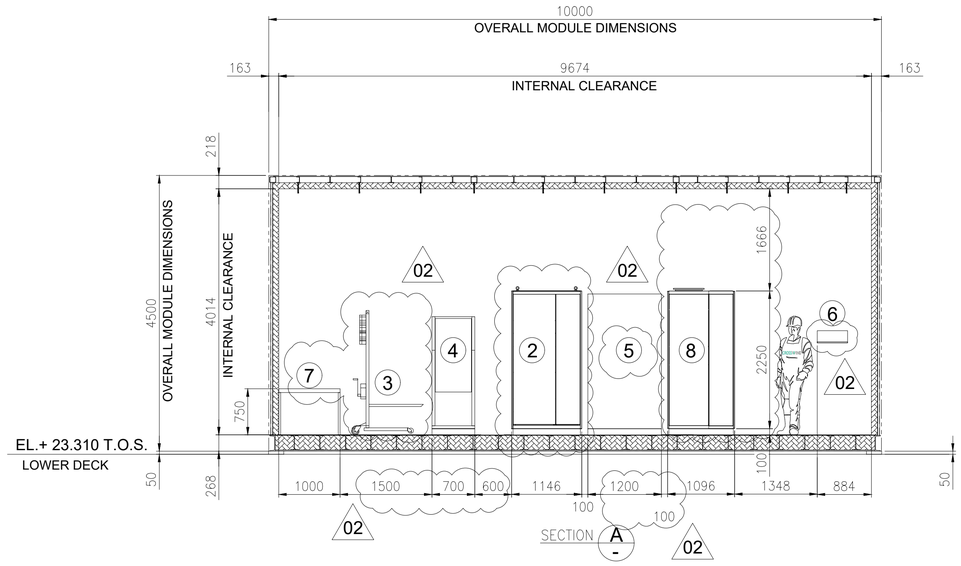
Comments:
CORE CONTINUITY PH 4= 0.5
CORES / ARMOUR+EARTH INS. PH 4 = >999 M

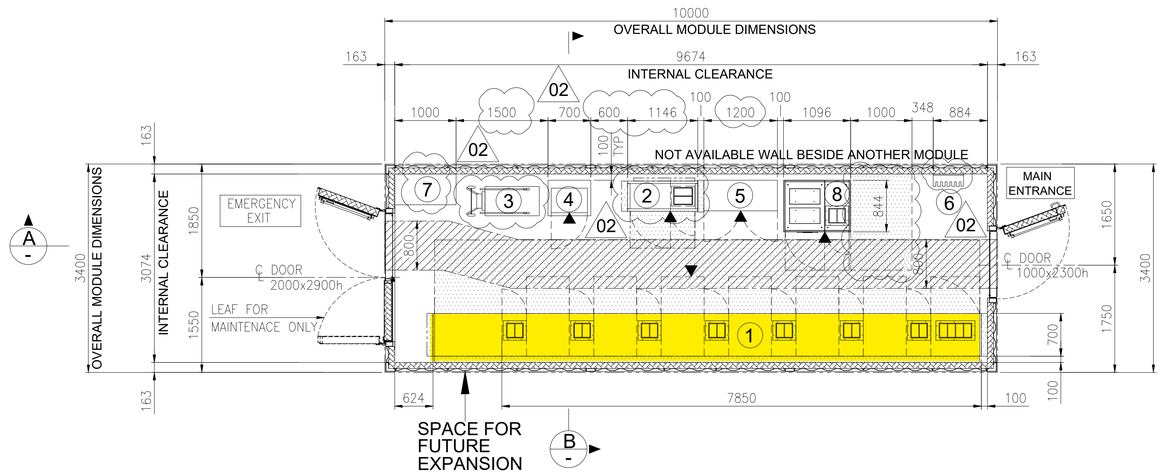
Nota 4: refer to PL C30000679

	Performed by	● WITNESS ☐ REVIEW	☐ WITNESS ☐ REVIEW
Company	ICS IMPIANTI	RM(ROSETTI MARINO)	
Name	Francesco Zucca	Giovanni Tangianu	
Date	2024-11-27	2024-12-04	
Signature	PROVERLIS Digitaly signed by Francesco Zucca 2024-11-27T14:20:17.491Z	PROVERLIS Digitaly signed by Giovanni Tangianu 2024-12-04T17:09:20.069Z	

DRAWING NO. 123A90-DDL-EL-DL-20105 REV. 02





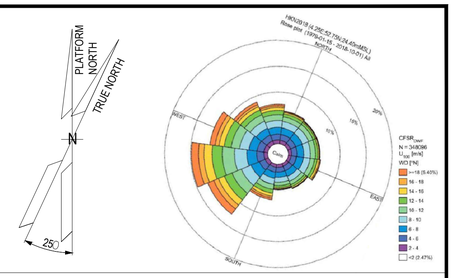


EQUIPMENT LAYOUT
"B-200" LV (400V) SWITCHGEAR ROOM
BOTTOM PLAN

1

EQUIPMENT LIST

REF.	TAG No.	DESCRIPTION	LENGTH (mm)	WIDTH (mm)	HEIGHT (mm)	NOTE
1	SG-200N1	400V SWITCHGEAR	7850	700	2331	
2	DP-200N1	DISTRIBUTION BOARD FOR LIGHTING AND SMALL POWER B.O.P.	1146	520	2250	
3	-	SERVICE TROLLEY FOR 400V SWITCHGEAR	1034	490	2030	
4	CN-200N1	ICCP PANEL	700	580	1830	
5	B200-HSB-001	DISTRIBUTION & HVAC PANEL - LV ROOM	1200	600	1900	02
6	-	TOOL BOX	495	200	200	
7	-	TABLE	1000	500	750	
8	SG-200D2	ACB PANEL FOR SOLAR PACKAGE	1096	844	2294	



NOTES

1. U.N.O. ALL DIMENSIONS ARE IN MILLIMETERS.
2. DELETED.
3. DOCUMENT VALID ONLY FOR ELECTRICAL COMPONENT, FOR OTHER SCOPE LOCATION AND INFORMATION, PLEASE REFER TO VENDORS AND PROJECT DOCUMENTS.
4. FOR OTHER ITEMS, CORRECT LOCATION AND INFORMATION, PLEASE REFER TO VENDORS AND DEDICATED PROJECT DOCUMENTATION.
5. HEIGHT OF ALL PANELS IN THE EQUIPMENT LIST TABLE IS WITHOUT THE BASE FRAME (100mm)

02

LEGEND

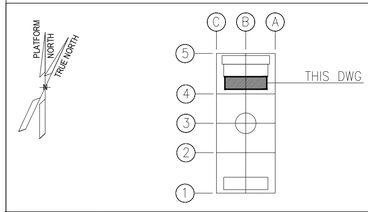
U.N.O. _____ UNLESS NOTED OTHERWISE
T.O.S. _____ TOP OF STEEL
_____ ESCAPE CORRIDOR - WIDTH 800mm.
_____ MAINTENANCE AREA - VENDOR REQUIREMENT
_____ SWITCHGEAR ROOM ENCLOUSURE
_____ FRONT OF EQUIPMENT

REFERENCES

DOCUMENT TITLE	DOCUMENT NUMBER
SG-200N1 GENERAL ARRANGEMENT DRAWING	1723002197-EL-DA-00007
SG-200D2 GENERAL ARRANGEMENT DRAWING	1723002197-EL-DA-00008
DP-200N1 GENERAL ARRANGEMENT DRAWING	1723002197-EL-DA-00009
AC UPS – GENERAL ARRANGEMENT AND DIMENSIONAL DRAWINGS	1724000372-EL-DA-00004
AC UPS – BATTERY LAYOUT INTERCONNECTING DIAGRAM	1724000372-EL-DG-00011
B-200 -GENERAL ARRANGEMENT DRAWINGS - E&I SHELTER	1724000049-AR-DA-00015
ICCC PANEL GENERAL ARRANGEMENT DRAWING	144671-CORR-TF-FAB-DWG-0003

02

KEY PLAN



REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	27/05/2024	FMO	LMA/AMA	LMA/MDO	ACCEPTED FOR CONSTRUCTION (AFC)
01	26/03/2024	GPA	LMA/AMA	LMA/MDO	ISSUE FOR REVIEW (IFR)
00	08/11/2023	DSF	CB/AMA	DYFO/MDO	ISSUE FOR REVIEW (IFR)

CROSSWIND

ROSETTI MARINO

VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DL-20105**

REV.:	DATE:	SIGNATURE:
2_A	08/08/24	G.Randi

ROSETTI MARINO SpA

TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL EQUIPMENT LAYOUT
LV SWITCHROOM

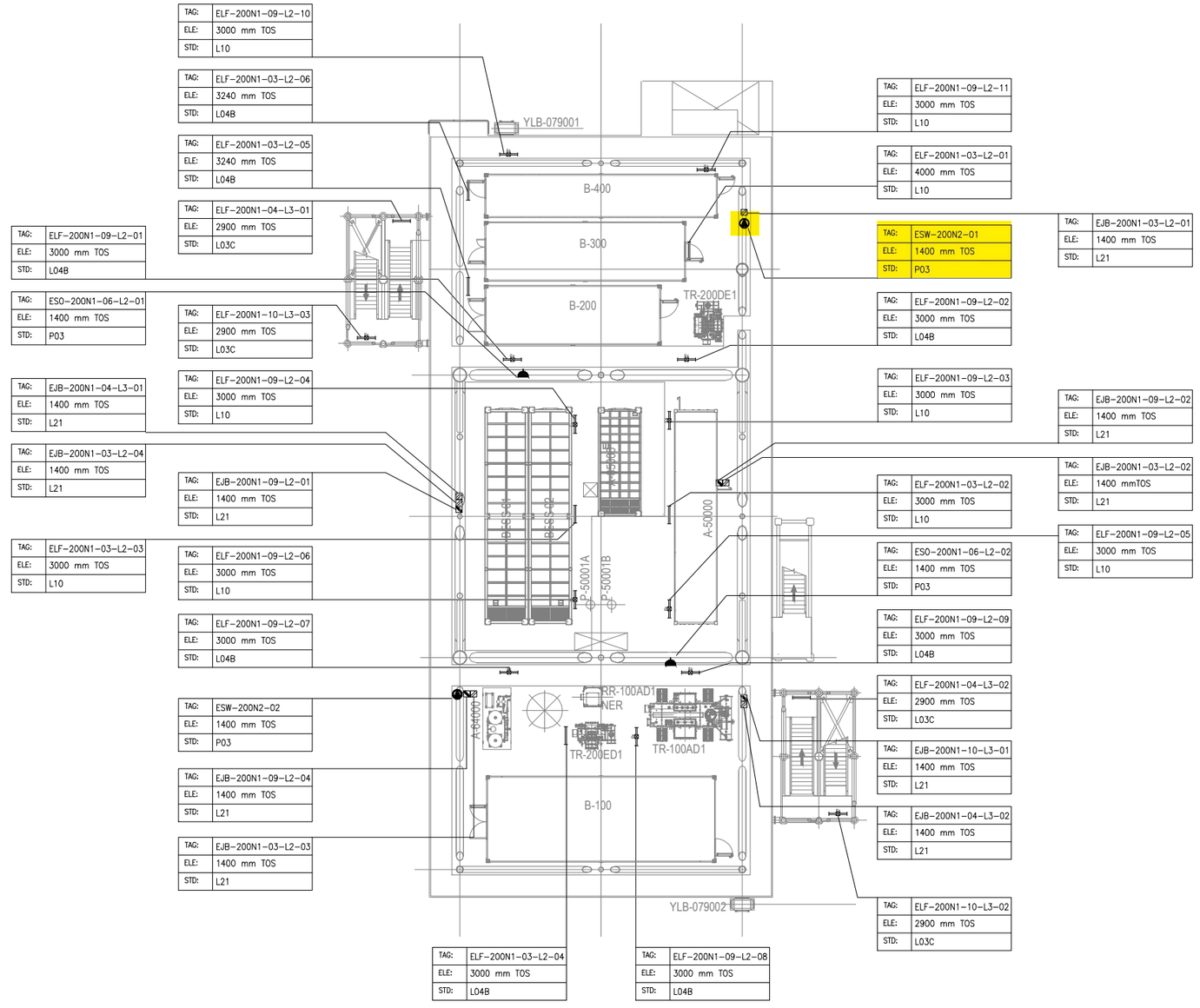
CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK			SCALE 1:50
DRAWN FMO	CHECKED LMA/AMA	APPROVED LMA/MDO	DATE 27/05/2024

A1	DRAWING NO. 123A90-DDL-EL-DL-20105	SHEET 001	REV. 02

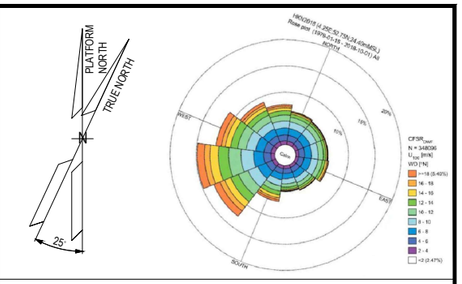
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DRAWING NO. 123A90-DDL-EL-DL-20119

REV. 01



PLAN ON LOWER DECK
EL+23.310 T.O.S



NOTES

1. ALL DIMENSIONS AND ELEVATIONS ARE GIVEN IN mm UNLESS OTHERWISE NOTED.
2. ELEVATIONS REFER TO T.O.S.
3. ELEVATION OF THE LAMPS ARE REFFERED TO THE BOTTOM OF THE LAMP.
4. FOR THE ELEVATION OF JB, REFER TO THE TYPICAL INSTALLATION.
5. SHEET 1 OF 2 SHOWS ONLY POLE MOUNTED TYPE LIGHTING FIXTURES, SHEET 2 OF 2 SHOWS ONLY SUSPENDED TYPE LIGHTING FIXTURES.

LEGEND

- EMERGENCY LIGHTING JB
- 60W LED EMERGENCY LUMINARIES
- 60W LED EMERGENCY LUMINARIES FIXTURE POLE MOUNTED
- NORMAL LIGHTING JB
- 45W LED NORMAL LUMINARIES
- 45W LED NORMAL LUMINARIES FIXTURE POLE MOUNTED
- WELDING SOCKET WITH INTEGRATED JB
- SMALL POWER SOCKET WITH INTEGRATED JB

JB TAG:	JB-TAG
TAG:	TAG
ELE:	ELEVATION
STD:	STANDARD

VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DL-20119**

REV.:	DATE:	SIGNATURE:
1_A	08/08/24	G.Randi

ROSETTI MARINO SpA

REFERENCE DOCUMENTS

123A90-DDL-PP-DL-70070	PLOT PLAN - LOWER & UPPER DECK
123A90-DDL-EL-DL-20101	ELECTRICAL EQUIPMENT LAYOUT - LOWER DECK
123A90-DDL-EL-DD-20091	ELECTRICAL TYPICAL INSTALLATION DETAILS - LIGHTING SYSTEM
123A90-DDL-EL-DD-20092	ELECTRICAL TYPICAL INSTALLATION DETAILS - POWER SYSTEM & CABLE INSTALLATION
123A90-DDL-EL-RE-20153	LIGHTING CALCULATION STUDY REPORT

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	06/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	29/05/24	ASR	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND

ROSETTI MARINO

TITLE :
BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET LAYOUT – LOWER DECK

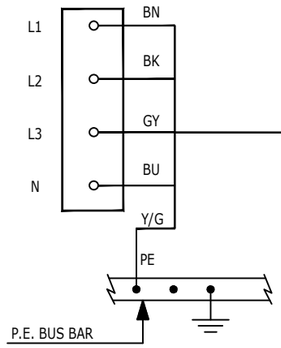
CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK			SCALE 1:150
DRAWN ASR	CHECKED FMA/AMA	APPROVED FPA/DLO	DATE 06/08/24
A1	DRAWING NO. 123A90-DDL-EL-DL-20119	SHEET 2of2	REV. 01

File Name : 123A90-DDL-EL-DL-20119

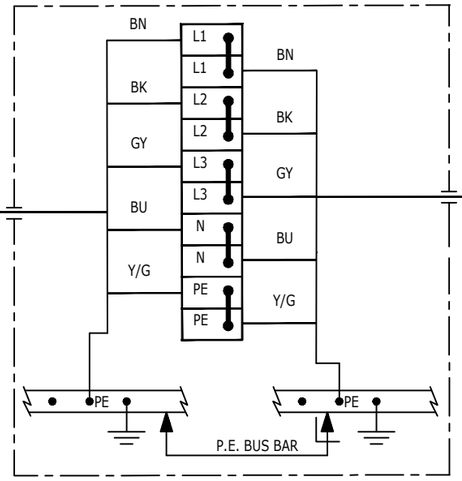
FROM	TO

DESCRIPTION: LV Switchgear
TAG NUMBER: SG-200N1

COLUMN/CUBIC.: A6/+08



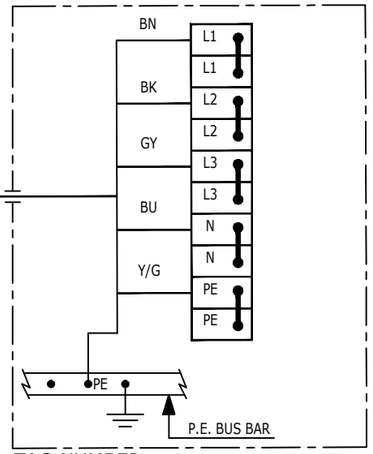
83021-CEL-01
5G50 mm²



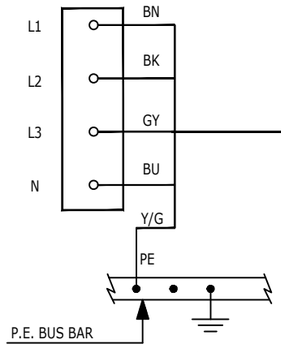
DESCRIPTION: WELDING SOCKETS (TOP DECK)
TAG NUMBER: ESW-200N1-01

83021-CEL-02
5G50 mm²

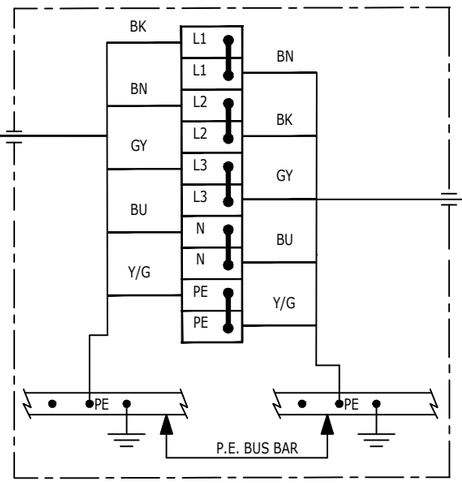
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COLUMN/CUBIC.: A7/+08



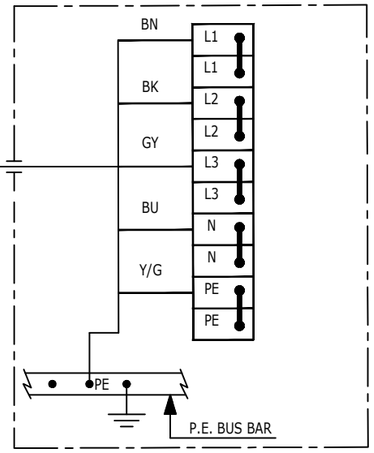
83022-CEL-01
5G50 mm²



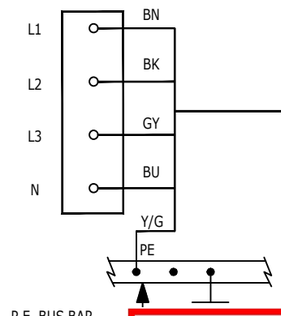
DESCRIPTION: WELDING SOCKET (LOWER DECK)
TAG NUMBER: ESW-200N2-01

83022-CEL-02
5G50 mm²

TAG NUMBER: ESW-200N2-02

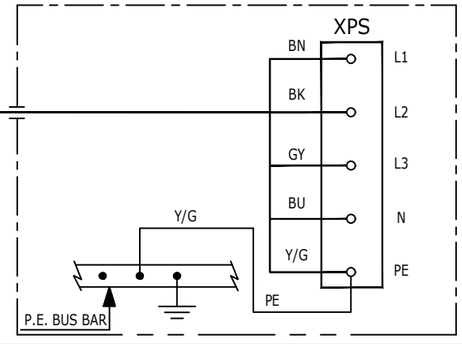


COLUMN/CUBIC.: A4/+02



83023-CEL
5G16 mm²

DESCRIPTION: HVAC PANELS - HV ROOM
TAG NUMBER: B100-HSB-001



VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DG-20149**

REV.:	DATE:	SIGNATURE:
2_C	02/12/24	G.Randi

ROSETTI MARINO SpA

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	19/11/24	SAI	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	16/10/24	SAI	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	08/07/24	SAI	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL INTERCONNECTING WIRING DIAGRAM
LV SWITCHGEAR SG-200N1

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE : 1:X

A3

DRAWING NO. 123A90-DDL-EL-DG-20149

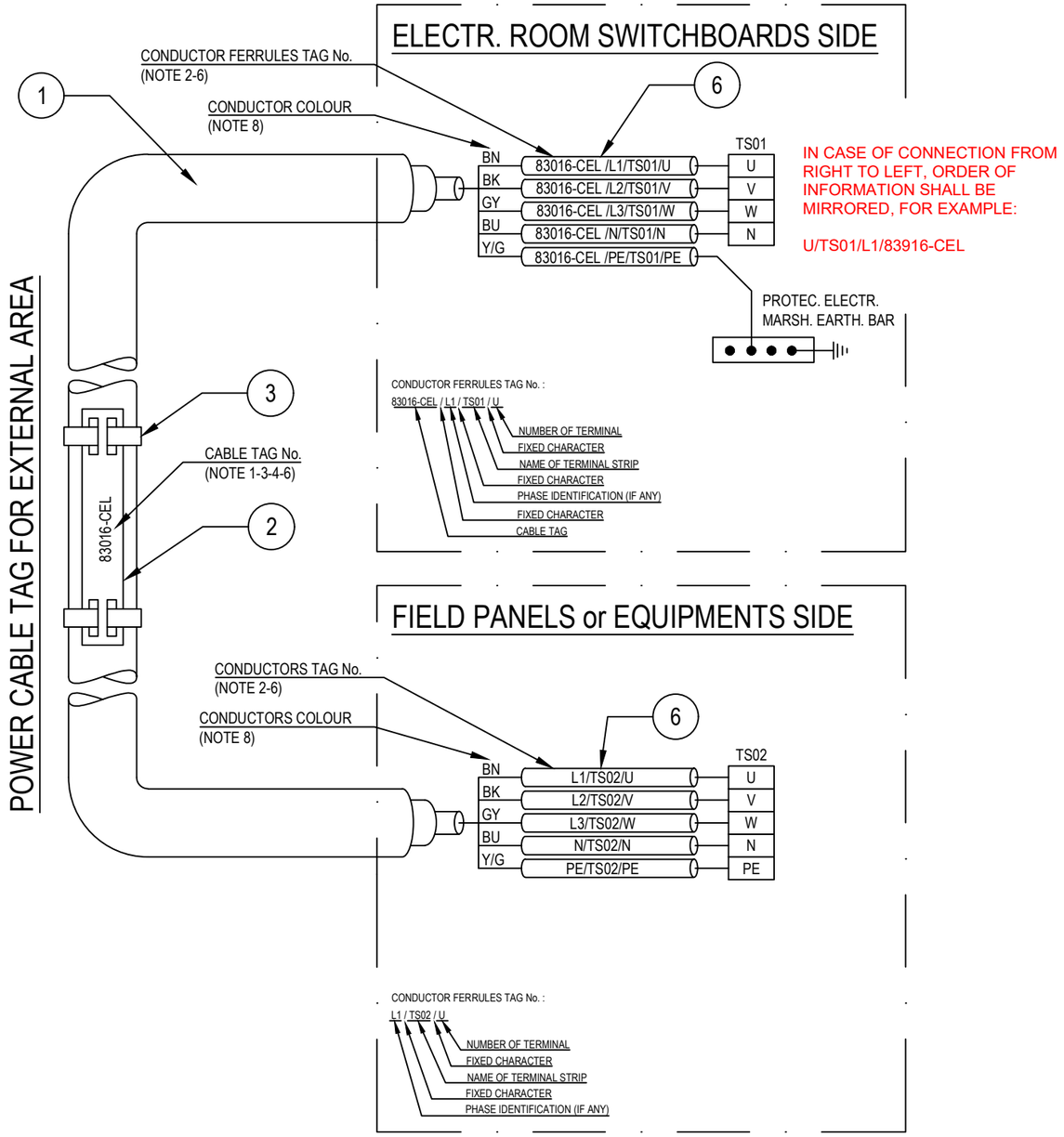
SHEET 025

REV. 02

F.to UNI A3: 420mmx297mm

File Name : 123A90-DDL-EL-DG-20149 Rev. 02

C02



POS.	DESCRIPTION	MATERIAL	SIZE	Q.TY	NOTE
1	UNARMOURED CABLE				
2	CABLE TAG FOR EXTERNAL AREA	HDG/SS			NOTE 1 NOTE 4
3	TIE FOR CABLE TAG IN EXTERNAL AREA	HDG/SS			
4	CABLE TAG FOR INTERNAL AREA	PVC			NOTE 1 NOTE 5
5	TIE FOR CABLE TAG IN INTERNAL AREA	NYLON 6.6			
6	CORE FERRULES	PVC			

NOTES:

1) ALL CABLES SHALL BE IDENTIFIED AT EACH TERMINATION AND EACH SIDE OF ANY OBSTACLE (E.G. CABLE TRANSIT ON WALLS INSIDE SHELTER AND FLOOR DECK CROSSING, BY THEIR RESPECTIVE TAGS/NUMBERS, AS INDICATED ON THE CABLE SCHEDULE.
CABLE IDENTIFICATION SHALL BE ALSO DONE BELOW AND IN THE SWITCHBOARD CABLE COMPARTMENT.

2) CABLE CORE FERRULES SHALL BE FITTED AT EVERY TERMINATION. THESE FERRULES SHALL BE OF ENGRAVED PLASTIC SLIP ON, INTERLOCKED AND SELF GRIP TYPE.

3) ON CABLE TRAYS OR LADDERS, CABLES SHALL BE IDENTIFIED AT EACH END, AND EVERY 25 METERS.

4) THE CABLE TAG FOR EXTERNAL AREA SHALL DONE BY 316L STAINLESS STEEL LABELS, TAG (H=5mm) SHALL BE LASER PRINTED PREFERABLY OR EMBOSSED, LABEL HELD BY TWO 316L STAINLESS STEEL TIES.

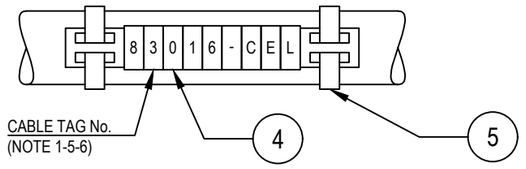
5) THE CABLE TAG FOR INTERNAL AREA SHALL BE DONE BY ENGRAVED PLASTIC SLIP ON CHARACTERS ONTO PLASTIC TIE, BLACK LETTER (H=5mm) ON WHITE.

6) CABLE AND CONDUCTOR TAG ARE INDICATIVE ONLY.

7) WITHIN TECHNICAL BUILDING, PROTECTIVE CONDUCTOR SHALL BE TAGGED BETWEEN FOLLOWING ITEMS:
- PANEL (SWITCHBOARD, SWITCHGEAR, DISTRIBUTION BOARD, ETC) AND EARTH BAR
- EARTH BAR AND EARTH BOSS

8) ONLY IF NECESSARY, SHRINK TUBES OF THE APPROPRIATE COLOR WILL BE INSTALLED TO COVER THE WRONG CONDUCTOR COLOR, THIS WILL BE PERFORMED IN EACH SIDE OF THE CABLES WHERE NECESSARY.

POWER CABLE TAG FOR INTERNAL AREA



VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DD-20092**

REV.:	DATE:	SIGNATURE:
2_B	28/11/24	G.Randi

ROSETTI MARINO SpA

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	28/08/24	GRA	AMA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	04/07/24	NLK	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	21/11/23	SPS	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL TYPICAL INSTALLATION DETAILS-POWER SYSTEM & CABLE INSTALLATION
CABLES INSTALLATION SYSTEM IDENTIFICATION FOR POWER CABLES

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK | SCALE : NTS

A3	DRAWING NO.	SHEET	REV.
	123A90-DDL-EL-DD-20092	007	02

F.to UNI A3: 420mmx297mm

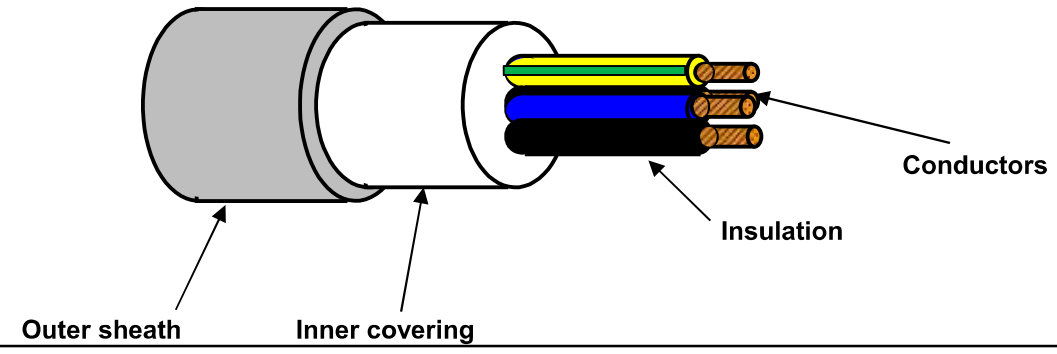
File Name : 123A90-DDL-EL-DD-20092 REV.02.DWG

Tag Number	Category	Discipline	Eng Status	NativeDoc	Layout	Parent Tag	Main Function	Secondary Function	Area	From Tag	From Main Function	From Area	To Tag	To Main Function	To Area	Material ID	Material Desc.	Gland Standard	From Gland	From Entry	From Fitting	To Gland	To Entry	To Fitting	Routing	Routing Manual
83022-CEL-01	Cable	EL	VFC	123A90-DDL-EL-LIS-20148						5G-200N1	LV 0,4 kV MCC Switchgear	Lower Deck (B-200)	ESW-200N2-01	Welding Socket 125A	Lower Deck	ELECV13-5G50	Cable Cu Cl.2/EPR/LSZH 0,6/1kV 5G50mm² - Grey	M50S	n.a.			T1_M50S_Single				L-450-101-LVT-028 / L-600-101-LVT-016 / E-MCT-202 / L-750-101-LVT-013 / L-750-101-LVT-015 / L-300-101-LVT-096

FLEI s.r.l.

Cu Cl.2/EPR/LSZH 0,6/1 KV

5G50 - L.V. POWER CABLE - Flame Retardant



TECHNICAL FEATURES

Conductors :	**STRANDED COMPACTED** plain/bare annealed copper wires	IEC 60228 Class 2
Insulation :	EPR compound, quality to IEC 60092.360, Nominal Thickness 1,4 mm	
Cores colour code :	**Black - Brown - Grey - Blue - Yellow/Green**	
Pair Assembling :	Not required	
Pair Wrapping:	Not required	
Drain wire :	Not required	
Pair Shield :	Not required	
Shield Insulation :	Not Required	
Total Assembling :	Cores layed up with optimal lay length	
Overall Wrapping:	Not required	
Drain wire :	Not required	
Overall Shield:	Not required	
Inner covering :	Extruded LSZH compound, Average Thickness 1,2 mm	
Inner covering color code:	**Black or Natural**	
Armour :	Not required	
Outer sheath :	Extruded LSZH Thermoplastic Compound (O.I. ≥ 30%), type **SHF1** to IEC 60093.360, Average Thickness 1,7 mm	
Outer sheath color code:	**Grey**	
Outer printing (INKJET) :	**FLEI - ELECTRIC CABLE - 1000V - 5G50 SQMM - EPR/LSZH - 0,6/1 KV - IEC 60332.1.2 - IEC 60332.3.22 -**	
	Year of Manufacture - CE + Meter Marking	
Outer diameter :	(35,0 ± 10%) mm	
Bending radius :	cable outer diameter x 10	(in fixed installation)
Voltage test :	3,5 kV a.c. for 5' (Between Cores)	
Conductors DC Resistance :		IEC 60228 Class 2
Insulation Resistance :	≥ 480 MΩ x Km (@ 20°C)	
Applicable Standards		
Design Guidelines :	**IEC 60092.353**	
ON COMPLETE CABLE		
Flame Retardant test :	IEC 60332.1.2 - IEC 60332.3.22	
Acid Gas generation :	IEC 60754.1/2	
Smoke density/Light Transmittance	IEC 61034.2 (LT ≥ 60%)	
Temperature Range :		
ON INSULATION	(max +90°C)	(max continuous operation temperature of conductors)
	(max +250°C)	(max conductors temperature during short-circuit for 5 seconds)
ON COMPLETE CABLE		
During Operation :	(-20°C up to +90°C)	(in fixed installation)
During installation :	(- 5°C up to +50°C)	
Note :	**To meet the requirements of installation and use in Zone 1 & Zone 2 (IEC 60079-14) and "Gas & Vapour Tight" the cable must be provided with Penetrating Inner covering together with correct ATEX approved equipment or accessories.**	

Office	Date	Sign	Rev.	Date	Sign
Drawn by :	29/03/2024	Messa	1	30/05/2024	Messa
Checked :	29/03/2024	Spaccasassi	1	30/05/2024	Spaccasassi
Approved :	29/03/2024	Cucinotta	1	30/05/2024	Cucinotta

The data provided, lending assent for the treatment, will be used to the sense of the article 13 of of the Regulation (UE) 2016/679, also through outsiders, in order to allow the realization of the fulfilments informatives, administrative, commercial and accounting related to the contractual relationship. Integral copy of the informative could be requested at our offices.

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ITEM	Tag	83022-CEL-02	: Welding Sockets (Lower Deck) JB's / Welding Socket (Lower Deck)		Dwg	123A90-DDL-EL-LIS-20148	
	S/Sys	83-50	: Welding Sockets		Module	LD	
TASK	code	C10000547	Location	Onshore Activities	User	Rosetti Marino Quality Control	
FORM	Process	MC	Activity CCK	Discipline Electrical	Form	CPX09	LV Power Cable

CABLE DATA

Type: Cu Cl.2/EPR/LSZH | Cores/Size mm²: 5G50 mm2 | Color: GREY

From: ESW-200N2-01 | To: ESW-200N2-02

1	Confirm cable is as specified in project cable schedule	OK
2	Visual Check cable physical integrity.	OK
3	Check is installed in accordance with layout drawing (segregation, distance…).	OK
4	Check cable is supported and fixed to rack according to project specification.	Note
5	Check bending radius is within the specified limits.	OK
6	Confirm cable glands suit for cable type, correctly mounted and tightened.	PL
7	Check gland plate for single core cables is non ferrous (non -magnetic).	NA
8	Confirm cable labelling is in accordance with specifications.	OK
9	Check cable is correctly loomed and segregated in accordance with specification.	OK
10	Check cable earthing against lastest drawings.	OK
11	Check cores marking are in accordance with termination diagram	PL
12	Check terminations are in accordance with latest termination diagram	PL
13	If required produce Red Line Mark Up for "AS BUILT"	

ROSETTI MARINO PROVERLIS CROSSWIND

ITEM	Tag	83022-CEL-02	: Welding Sockets (Lower Deck) JB's / Welding Socket (Lower Deck)			Dwg	123A90-DDL-EL-LIS-20148
	S/Sys	83-50	: Welding Sockets			Module	LD
TASK	code	C10000547	Location	Onshore Activities		User	Rosetti Marino Quality Control
FORM	Process	MC	Activity CCK	Discipline	Electrical	Form	CPX09 LV Power Cable

CONTINUITY				
5	CORE CONTINUITY Ω	PH 1	0,17	
6		PH 2	0,17	
7		PH 3	0,17	
8	ARMOUR CONTINUITY Ω		N/A	
9	PROTECTIVE CONDUCTOR CONTINUITY Ω		0,17	
INSULATION				
10	CORES / ARMOUR+EARTH MΩ	PH1 / PH2-PH3-A-E	>999	
11		PH2 / PH1-PH3-A-E	>999	
12		PH3 / PH1-PH2-A-E	>999	
13	CABLE IS CORRECTLY RE-CONNECTED.		Yes	

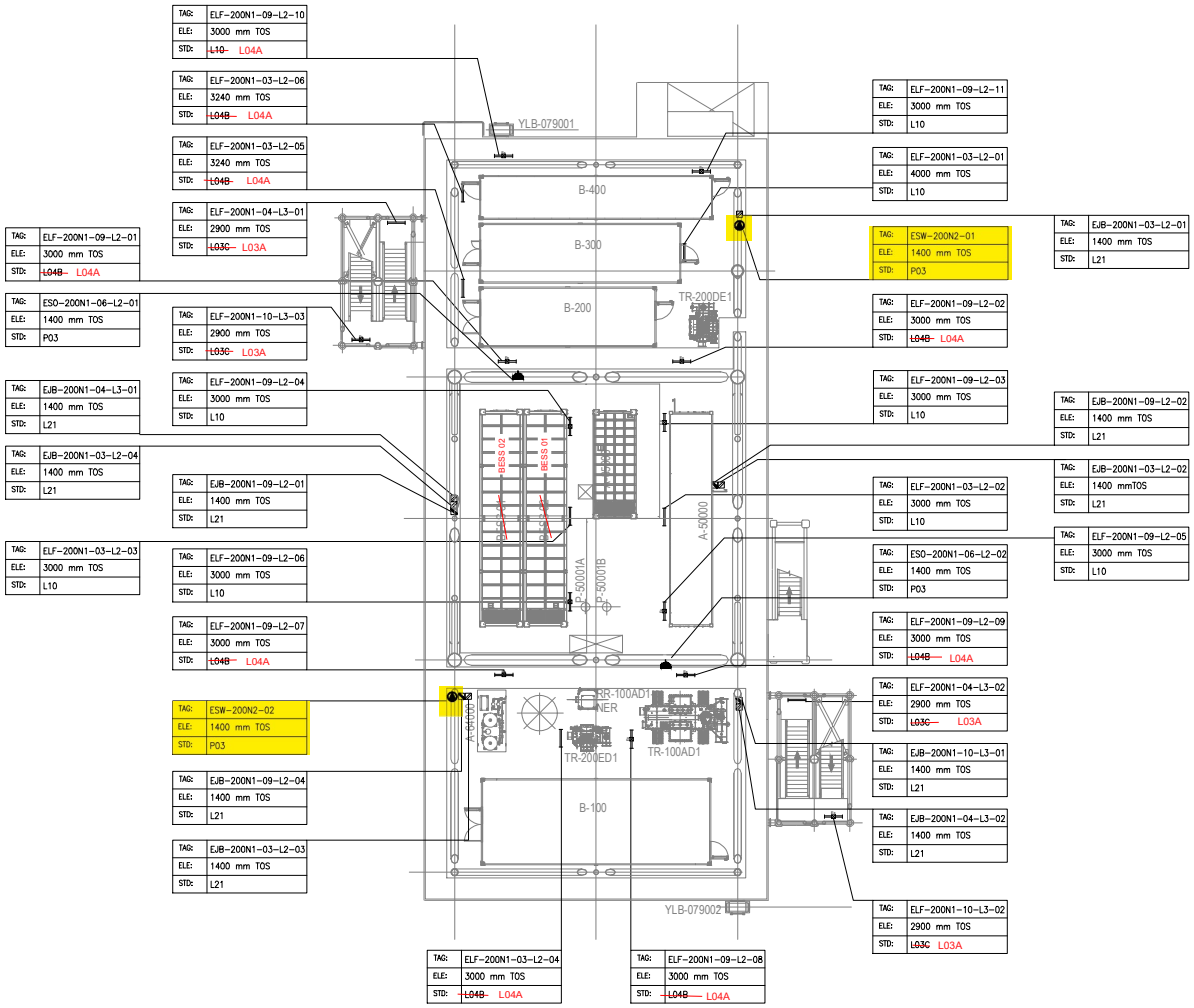
TESTING INSTRUMENTS USED			
TYPE / SERIAL N° :	MEGGER : KEW3125A SERIAL: W8330207	TYPE / SERIAL N° :	MULTIMETER: FLUKE 175 SERIAL:AW1/018(17140769)
Calibration certificate N° and date:	N°7722/24 _ 10/07/2024	Calibration certificate N° and date:	N°7715/24 _ 10/07/2024

Comments: Nota 4: refer to PL C30000679

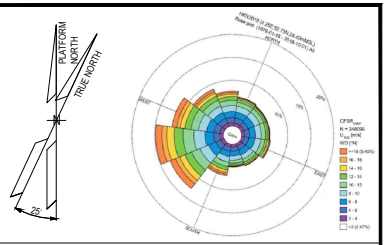
	Performed by	● WITNESS ☐ REVIEW	☐ WITNESS ☐ REVIEW
Company	ICS IMPIANTI	RM (ROSETTI MARINO)	
Name	Francesco Zucca	Luca Mussi	
Date	2024-12-10	2024-12-17	
Signature	PROVERLIS Digitaly signed by Francesco Zucca 2024-12-10T06:36:40.227Z	PROVERLIS Digitaly signed by Luca Mussi 2024-12-17T12:59:02.966Z	

DRAWING NO. 123A90-DDL-EL-DL-20119

REV. 01



PLAN ON LOWER DECK
EL+23.310 T.O.S



NOTES

1. ALL DIMENSIONS AND ELEVATIONS ARE GIVEN IN mm UNLESS OTHERWISE NOTED.
2. ELEVATIONS REFER TO T.O.S.
3. ELEVATION OF THE LAMPS ARE REFFERED TO THE BOTTOM OF THE LAMP.
4. FOR THE ELEVATION OF JB, REFER TO THE TYPICAL INSTALLATION.
5. SHEET 1 OF 2 SHOWS ONLY POLE MOUNTED TYPE LIGHTING FIXTURES, SHEET 2 OF 2 SHOWS ONLY SUSPENDED TYPE LIGHTING FIXTURES.

LEGEND

- EMERGENCY LIGHTING JB
- 60W LED EMERGENCY LUMINARIES
- 60W LED EMERGENCY LUMINARIES FIXTURE POLE MOUNTED
- NORMAL LIGHTING JB
- 45W LED NORMAL LUMINARIES
- 45W LED NORMAL LUMINARIES FIXTURE POLE MOUNTED
- WELDING SOCKET WITH INTEGRATED JB
- SMALL POWER SOCKET WITH INTEGRATED JB

JB TAG:	JB-TAG
TAG:	TAG
ELE:	ELEVATION
STD:	STANDARD

REFERENCE DOCUMENTS

123A90-DDL-PP-DL-70070	PLOT PLAN - LOWER & UPPER DECK
123A90-DDL-EL-DL-20101	ELECTRICAL EQUIPMENT LAYOUT - LOWER DECK
123A90-DDL-EL-DD-20091	ELECTRICAL TYPICAL INSTALLATION DETAILS - LIGHTING SYSTEM
123A90-DDL-EL-DD-20092	ELECTRICAL TYPICAL INSTALLATION DETAILS - POWER SYSTEM & CABLE INSTALLATION
123A90-DDL-EL-RE-20153	LIGHTING CALCULATION STUDY REPORT

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	06/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	29/05/24	ASR	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

VALID FOR CONSTRUCTION

REV.:	DATE:	SIGNATURE:
1_E	12/12/24	C.Pilato

ROSETTI MARINO SpA

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET LAYOUT – LOWER DECK

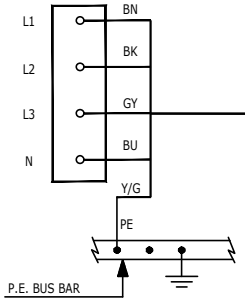
CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK			SCALE 1:150
DRAWN ASR	CHECKED FMA/AMA	APPROVED FPA/DLO	DATE 06/08/24
A1	DRAWING NO. 123A90-DDL-EL-DL-20119	SHEET 2of2	REV. 01

File Name : 123A90-DDL-EL-DL-20119

FROM

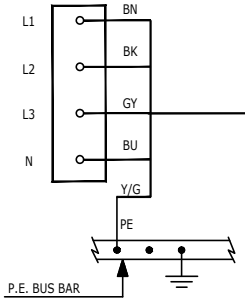
DESCRIPTION: LV Switchgear
TAG NUMBER: SG-200N1

COLUMN/CUBIC.: A6/+08



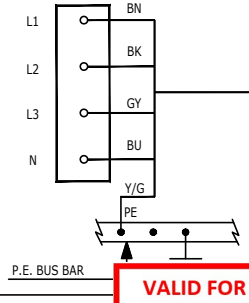
83021-CEL-01
5G50 mm²

COLUMN/CUBIC.: A7/+08



83022-CEL-01
5G50 mm²

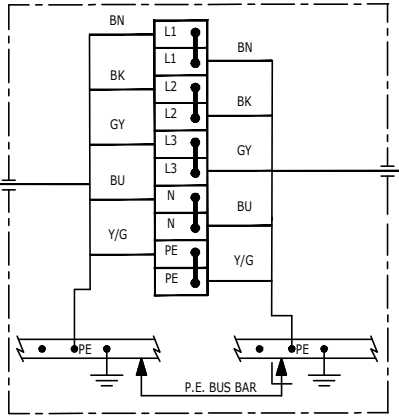
COLUMN/CUBIC.: A4/+02



83023-CEL
5G16 mm²

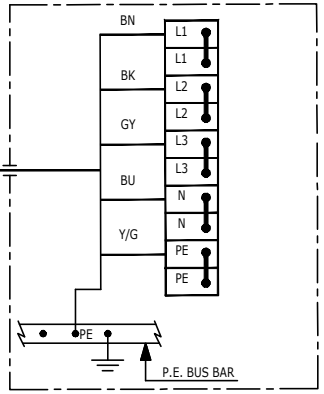
TO

DESCRIPTION: WELDING SOCKETS (TOP DECK)
TAG NUMBER: ESW-200N1-01

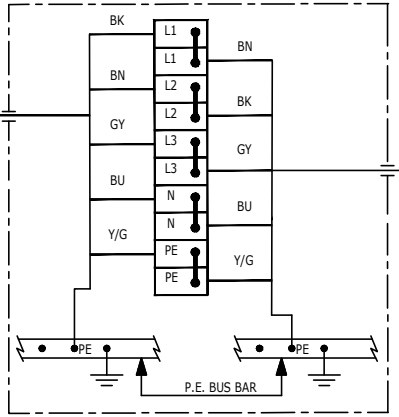


83021-CEL-02
5G50 mm²

TAG NUMBER: ESW-200N1-02

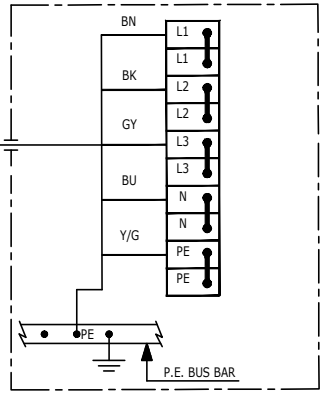


DESCRIPTION: WELDING SOCKET (LOWER DECK)
TAG NUMBER: ESW-200N2-01

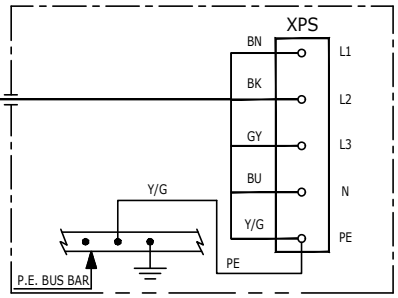


83022-CEL-02
5G50 mm²

TAG NUMBER: ESW-200N2-02



DESCRIPTION: HVAC PANELS - HV ROOM
TAG NUMBER: B100-HSB-001



VALID FOR CONSTRUCTION
FDL DWG: 123A90-FDL-EL-DG-20149
REV.: 2_C | DATE: 02/12/24 | SIGNATURE: G.Randi
ROSETTI MARINO SpA

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	19/11/24	SAI	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	16/10/24	SAI	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	08/07/24	SAI	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL INTERCONNECTING WIRING DIAGRAM
LV SWITCHGEAR SG-200N1

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE : 1:X

A3

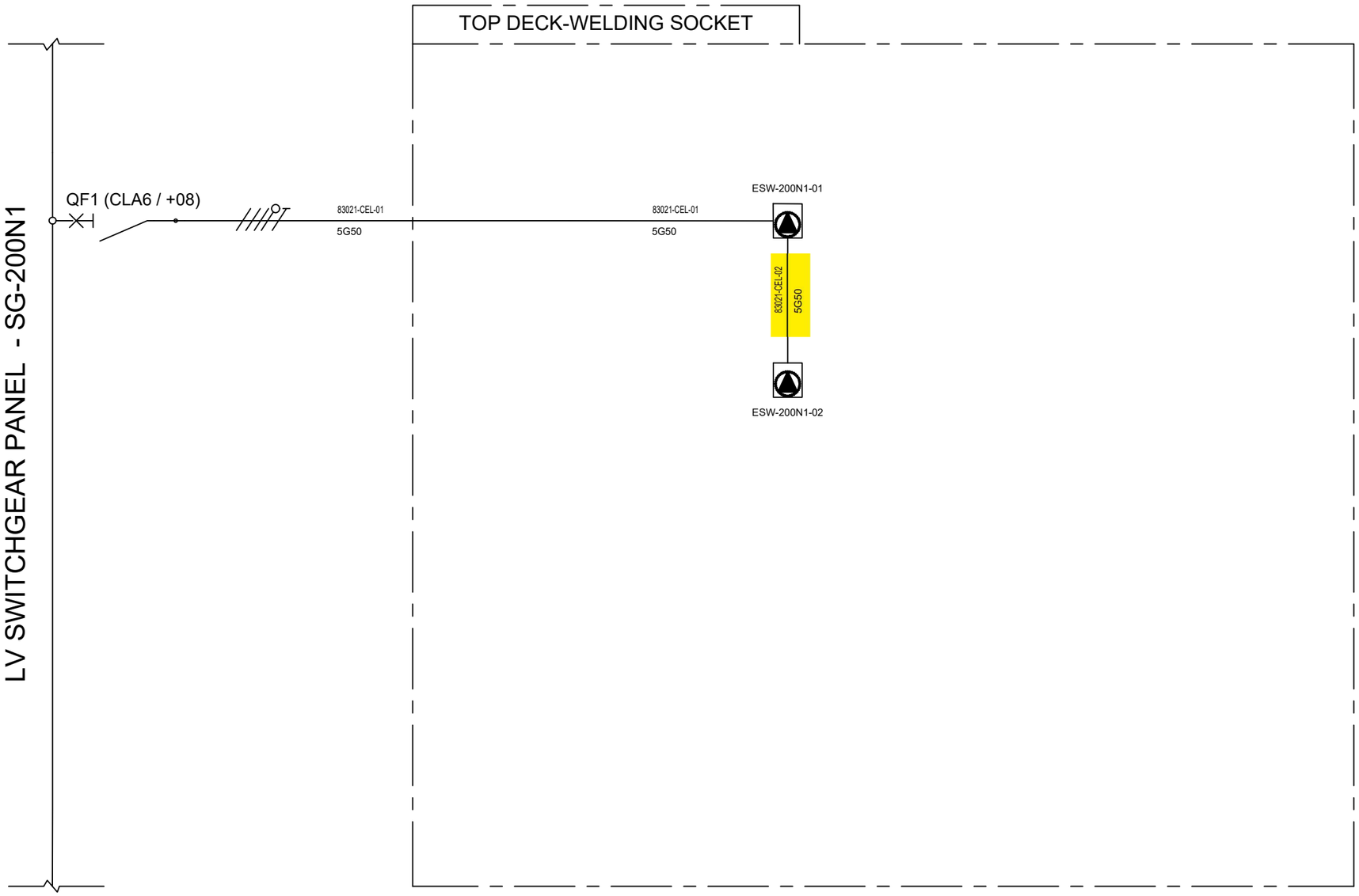
DRAWING NO. 123A90-DDL-EL-DG-20149

SHEET 025

REV. 02

F.to UNI A3: 420mmx297mm

File Name : 123A90-DDL-EL-DG-20149 Rev. 02



VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DG-20125**

REV.:	DATE:	SIGNATURE:
2_C	20/12/24	V.Ramponi

ROSETTI MARINO SpA

CROSSWIND

ROSETTI MARINO

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	08/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	01/07/24	ASR	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

TITLE : BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET CIRCUIT DIAGRAM
TOP DECK-WELDING SOCKET

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE : NTS

A3

DRAWING NO. 123A90-DDL-EL-DG-20125

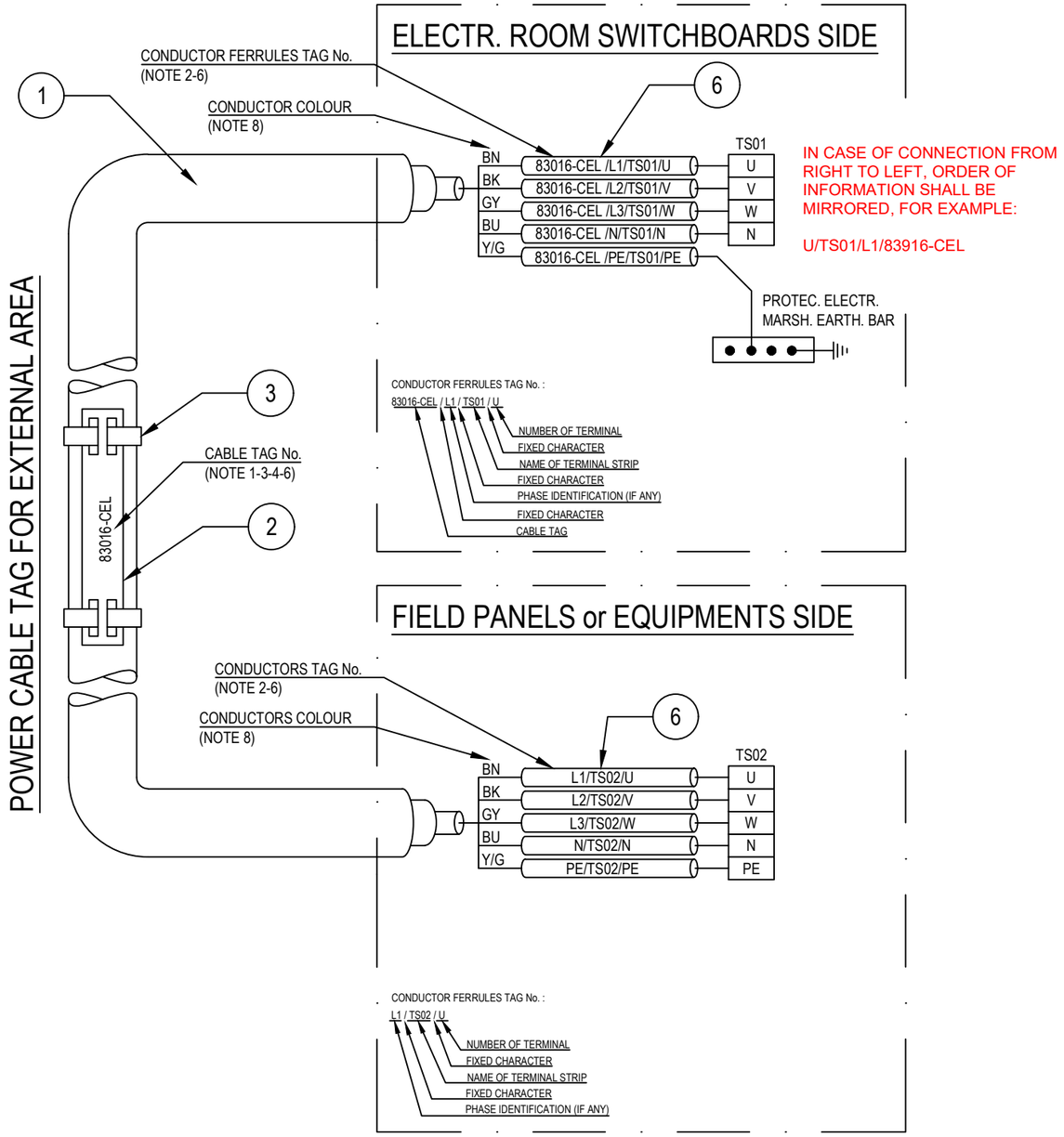
SHEET 013

REV. 01

F.to UNI A3: 420mmx297mm

File Name : 123A90-DDL-EL-DG-20125

C02



POS.	DESCRIPTION	MATERIAL	SIZE	Q.TY	NOTE
1	UNARMOURED CABLE				
2	CABLE TAG FOR EXTERNAL AREA	HDG/SS			NOTE 1 NOTE 4
3	TIE FOR CABLE TAG IN EXTERNAL AREA	HDG/SS			
4	CABLE TAG FOR INTERNAL AREA	PVC			NOTE 1 NOTE 5
5	TIE FOR CABLE TAG IN INTERNAL AREA	NYLON 6.6			
6	CORE FERRULES	PVC			

NOTES:

1) ALL CABLES SHALL BE IDENTIFIED AT EACH TERMINATION AND EACH SIDE OF ANY OBSTACLE (E.G. CABLE TRANSIT ON WALLS INSIDE SHELTER AND FLOOR DECK CROSSING, BY THEIR RESPECTIVE TAGS/NUMBERS, AS INDICATED ON THE CABLE SCHEDULE.
CABLE IDENTIFICATION SHALL BE ALSO DONE BELOW AND IN THE SWITCHBOARD CABLE COMPARTMENT.

2) CABLE CORE FERRULES SHALL BE FITTED AT EVERY TERMINATION. THESE FERRULES SHALL BE OF ENGRAVED PLASTIC SLIP ON, INTERLOCKED AND SELF GRIP TYPE.

3) ON CABLE TRAYS OR LADDERS, CABLES SHALL BE IDENTIFIED AT EACH END, AND EVERY 25 METERS.

4) THE CABLE TAG FOR EXTERNAL AREA SHALL DONE BY 316L STAINLESS STEEL LABELS, TAG (H=5mm) SHALL BE LASER PRINTED PREFERABLY OR EMBOSSED, LABEL HELD BY TWO 316L STAINLESS STEEL TIES.

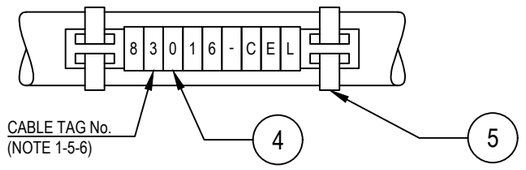
5) THE CABLE TAG FOR INTERNAL AREA SHALL BE DONE BY ENGRAVED PLASTIC SLIP ON CHARACTERS ONTO PLASTIC TIE, BLACK LETTER (H=5mm) ON WHITE.

6) CABLE AND CONDUCTOR TAG ARE INDICATIVE ONLY.

7) WITHIN TECHNICAL BUILDING, PROTECTIVE CONDUCTOR SHALL BE TAGGED BETWEEN FOLLOWING ITEMS:
- PANEL (SWITCHBOARD, SWITCHGEAR, DISTRIBUTION BOARD, ETC) AND EARTH BAR
- EARTH BAR AND EARTH BOSS

8) ONLY IF NECESSARY, SHRINK TUBES OF THE APPROPRIATE COLOR WILL BE INSTALLED TO COVER THE WRONG CONDUCTOR COLOR, THIS WILL BE PERFORMED IN EACH SIDE OF THE CABLES WHERE NECESSARY.

POWER CABLE TAG FOR INTERNAL AREA



VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DD-20092**

REV.:	DATE:	SIGNATURE:
2_B	28/11/24	G.Randi

ROSETTI MARINO SpA

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	28/08/24	GRA	AMA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	04/07/24	NLK	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	21/11/23	SPS	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL TYPICAL INSTALLATION DETAILS-POWER SYSTEM & CABLE INSTALLATION
CABLES INSTALLATION SYSTEM IDENTIFICATION FOR POWER CABLES

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK | SCALE : NTS

A3 | DRAWING NO. 123A90-DDL-EL-DD-20092 | SHEET 007 | REV. 02

F.to UNI A3: 420mmx297mm

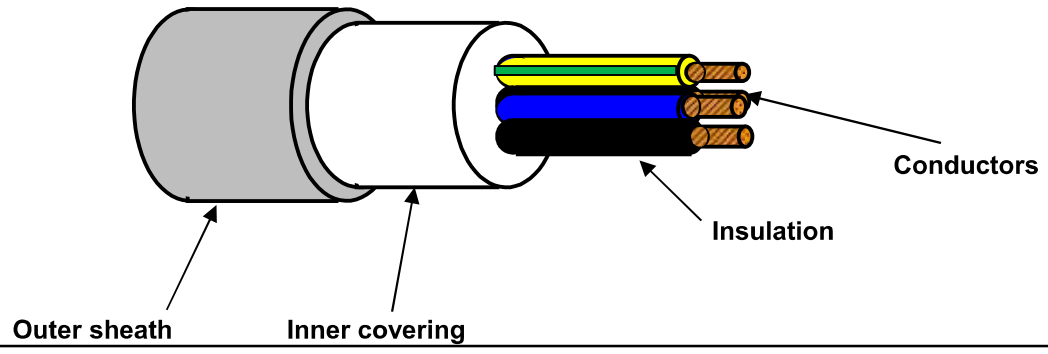
File Name : 123A90-DDL-EL-DD-20092 REV.02.DWG

Tag Number	Category	Discipline	Eng Status	NativeDoc	Layout	Parent Tag	Main Function	Secondary Function	Area	From Tag	From Main Function	From Area	To Tag	To Main Function	To Area	Material ID	Material Desc.	Gland Standard	From Gland	From Entry	From Fitting	To Gland	To Entry	To Fitting	Routing	Routing Manual
83022-CEL-02	Cable	EL	VFC	123A90-DDL-EL-LIS-20148						ESW-200N2-01	Welding Socket 125A	Lower Deck	ESW-200N2-02	Welding Socket 125A	Lower Deck	ELECV13-5G50	Cable Cu Cl.2/EPR/LSZH 0,6/1kV 5G50mm² - Grey	M50S	T1_M50S_Single			T1_M50S_Single				L-300-101-LVT-096 / L-750-101-LVT-015 / L-750-101-LVT-013 / L-750-101-LVT-014 / L-600-101-LVT-094 / L-600-101-LVT-012 / L-300-101-LVT-098

FLEI s.r.l.

Cu Cl.2/EPR/LSZH 0,6/1 KV

5G50 - L.V. POWER CABLE - Flame Retardant



TECHNICAL FEATURES

Conductors :	**STRANDED COMPACTED** plain/bare annealed copper wires	IEC 60228 Class 2
Insulation :	EPR compound, quality to IEC 60092.360, Nominal Thickness 1,4 mm	
Cores colour code :	**Black - Brown - Grey - Blue - Yellow/Green**	
Pair Assembling :	Not required	
Pair Wrapping:	Not required	
Drain wire :	Not required	
Pair Shield :	Not required	
Shield Insulation :	Not Required	
Total Assembling :	Cores layed up with optimal lay length	
Overall Wrapping:	Not required	
Drain wire :	Not required	
Overall Shield:	Not required	
Inner covering :	Extruded LSZH compound, Average Thickness 1,2 mm	
Inner covering color code:	**Black or Natural**	
Armour :	Not required	
Outer sheath :	Extruded LSZH Thermoplastic Compound (O.I. ≥ 30%), type **SHF1** to IEC 60093.360, Average Thickness 1,7 mm	
Outer sheath color code:	**Grey**	
Outer printing (INKJET) :	**FLEI - ELECTRIC CABLE - 1000V - 5G50 SQMM - EPR/LSZH - 0,6/1 KV - IEC 60332.1.2 - IEC 60332.3.22 -**	
	Year of Manufacture - CE + Meter Marking	
Outer diameter :	(35,0 ± 10%) mm	
Bending radius :	cable outer diameter x 10	(in fixed installation)
Voltage test :	3,5 kV a.c. for 5' (Between Cores)	
Conductors DC Resistance :		IEC 60228 Class 2
Insulation Resistance :	≥ 480 MΩ x Km (@ 20°C)	
Applicable Standards		
Design Guidelines :	**IEC 60092.353**	
ON COMPLETE CABLE		
Flame Retardant test :	IEC 60332.1.2 - IEC 60332.3.22	
Acid Gas generation :	IEC 60754.1/2	
Smoke density/Light Transmittance	IEC 61034.2 (LT ≥ 60%)	
Temperature Range :		
ON INSULATION	(max +90°C)	(max continuous operation temperature of conductors)
	(max +250°C)	(max conductors temperature during short-circuit for 5 seconds)
ON COMPLETE CABLE		
During Operation :	(-20°C up to +90°C)	(in fixed installation)
During installation :	(- 5°C up to +50°C)	
Note :	**To meet the requirements of installation and use in Zone 1 & Zone 2 (IEC 60079-14) and "Gas & Vapour Tight" the cable must be provided with Penetrating Inner covering together with correct ATEX approved equipment or accessories.**	

Office	Date	Sign	Rev.	Date	Sign
Drawn by :	29/03/2024	Messa	1	30/05/2024	Messa
Checked :	29/03/2024	Spaccasassi	1	30/05/2024	Spaccasassi
Approved :	29/03/2024	Cucinotta	1	30/05/2024	Cucinotta

The data provided, lending assent for the treatment, will be used to the sense of the article 13 of of the Regulation (UE) 2016/679, also through outsiders, in order to allow the realization of the fulfilments informatives, administrative, commercial and accounting related to the contractual relationship. Integral copy of the informative could be requested at our offices.

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ITEM	Tag	ESW-200N1-01	: WELDING SOCKET			Dwg	123A90-DDL-EL-DL-20118
	S/Sys	83-50	: Welding Sockets			Module	UD
TASK	code	C10001848		Location	Onshore Activities	User	Rosetti Marino Quality Control
FORM	Process	MC	Activity CCK	Discipline	Electrical	Form	CPX00 Miscellaneous Electrical Equipment

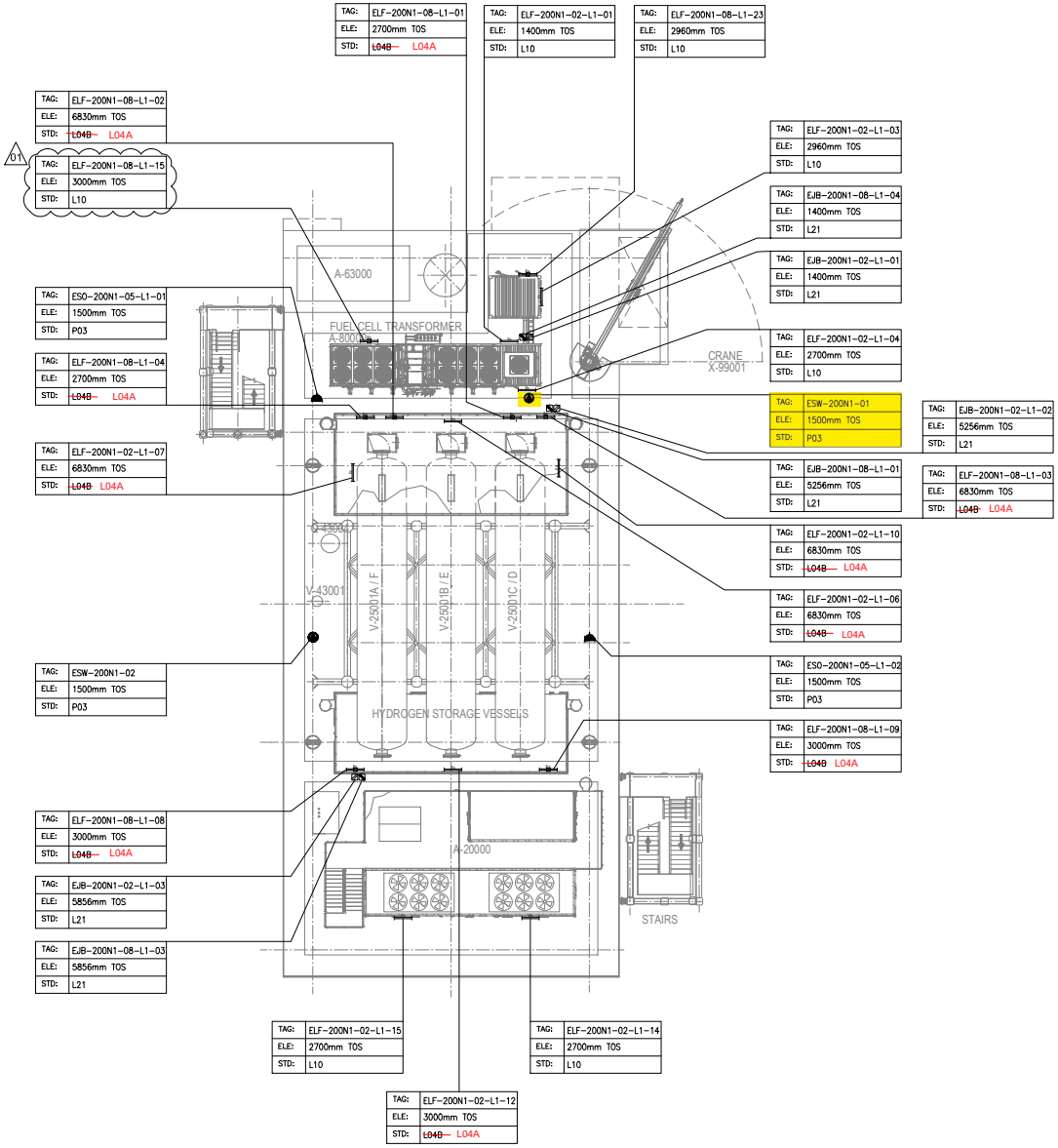
1	Check circuit is de-energized and safe.	OK
2	Check equipment is installed in accordance with layout drawing.	OK
3	Check equipment is undamaged and correcly tagged.	OK
4	Check nameplate data is correct.	OK
5	Check all bolts are fitted and all unused entries are suitably plugged.	PL
6	Check terminals for proper size and installation crimps	OK
7	Check earthing and bonding against drawings.	OK
8	Check items are properly fixed on support.	OK
9	If required produce Red Line Mark Up for "AS BUILT"	

Comments:

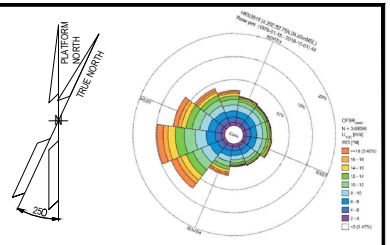
	Performed by	● WITNESS ☐ REVIEW	☐ WITNESS ☐ REVIEW
Company	ICS IMPIANTI	RM(ROSETTI MARINO)	
Name	Francesco Zucca	Luca Mussi	
Date	2024-12-16	2024-12-17	
Signature	PROVERLIS Digitaly signed by Francesco Zucca 2024-12-16T12:11:03.438Z	PROVERLIS Digitaly signed by Luca Mussi 2024-12-17T16:36:00.677Z	

DRAWING NO. 123A90-DDL-EL-DL-20118

REV. 01



PLAN ON UPPER DECK
EL+30.310 T.O.S.



NOTES

1. ALL DIMENSIONS AND ELEVATIONS ARE GIVEN IN mm UNLESS OTHERWISE NOTED.
2. ELEVATIONS REFER TO T.O.S.
3. ELEVATION OF THE LAMPS ARE REFFERED TO THE BOTTOM OF THE LAMP.
4. FOR THE ELEVATION OF JB, REFER TO THE TYPICAL INSTALLATION.

LEGEND

- EMERGENCY LIGHTING JB
- 60W LED EMERGENCY LUMINARIES
- 60W LED EMERGENCY LUMINARIES FIXTURE POLE MOUNTED
- NORMAL LIGHTING JB
- 45W LED NORMAL LUMINARIES
- 45W LED NORMAL LUMINARIES FIXTURE POLE MOUNTED
- WELDING SOCKET WITH INTEGRATED JB
- SMALL POWER SOCKET WITH INTEGRATED JB

JB TAG:	JB-TAG
TAG:	TAG
ELE:	ELEVATION
STD:	STANDARD

REFERENCE DOCUMENTS

123A90-DDL-PP-DL-70070	PLOT PLAN - LOWER & UPPER DECK
123A90-DDL-EL-DL-20100	ELECTRICAL EQUIPMENT LAYOUT - TOP DECK
123A90-DDL-EL-DD-20091	ELECTRICAL TYPICAL INSTALLATION DETAILS - LIGHTING SYSTEM
123A90-DDL-EL-DD-20092	ELECTRICAL TYPICAL INSTALLATION DETAILS - POWER SYSTEM & CABLE INSTALLATION
123A90-DDL-EL-RE-20153	LIGHTING CALCULATION STUDY REPORT
123A90-DDL-ST-DD-90076	IDENTIFICATION PANELS ASSEMBLY AND DETAILS

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	02/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	28/05/24	ASR	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DL-20118**

REV.:	DATE:	SIGNATURE:
1_F	26/11/24	G.Randi

ROSETTI MARINO SpA

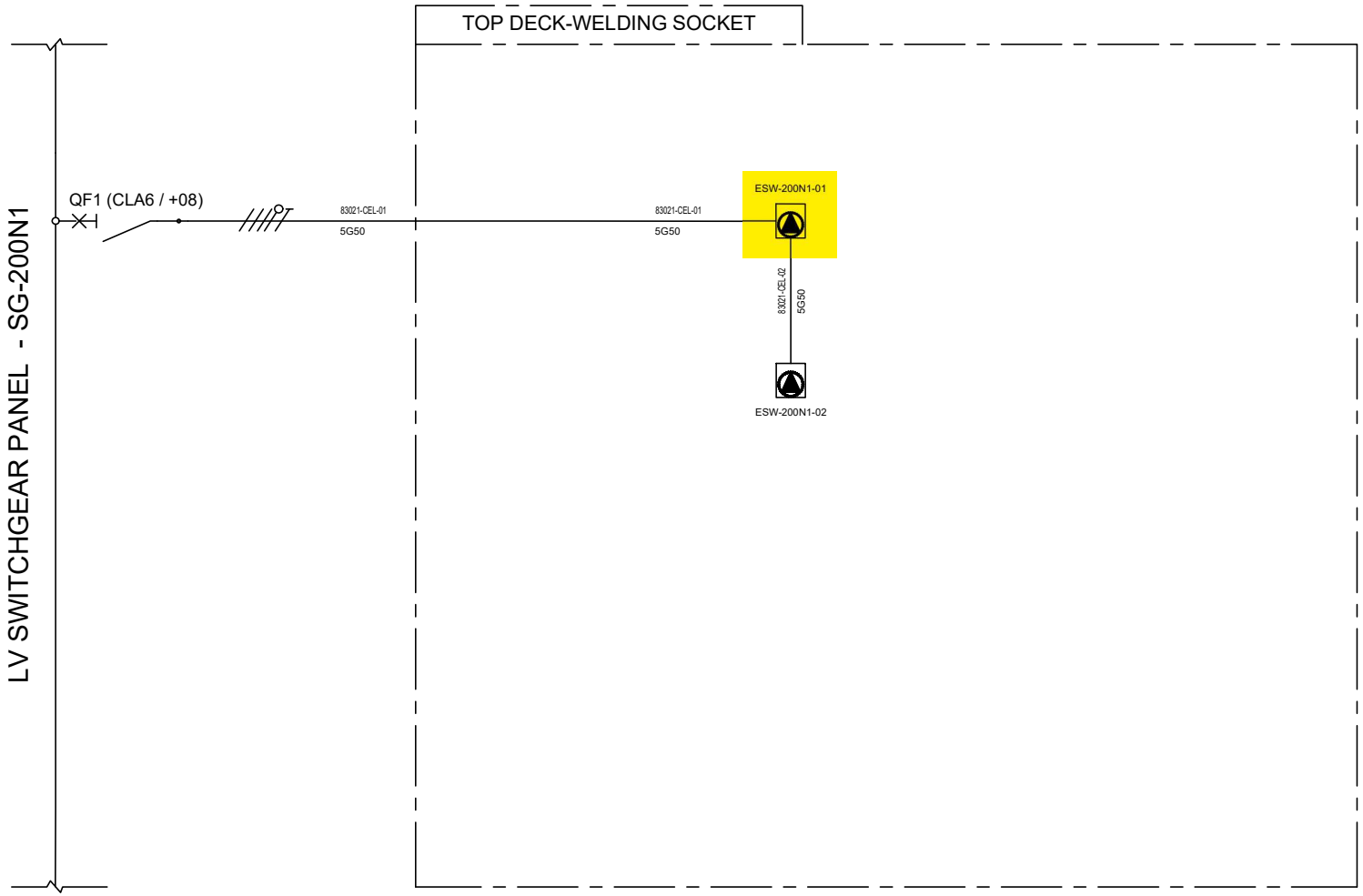
CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET LAYOUT – TOP DECK

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK			SCALE 1:150
DRAWN ASR	CHECKED FMA/AMA	APPROVED FPA/DLO	DATE 01/08/24
A1	DRAWING NO. 123A90-DDL-EL-DL-20118	SHEET 2of2	REV. 01

File Name : 123A90-DDL-EL-DL-20118



VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DG-20125**

REV.:	DATE:	SIGNATURE:
2_B	20/11/24	G.Randi

ROSETTI MARINO SpA

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	08/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	01/07/24	ASR	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

TITLE : BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET CIRCUIT DIAGRAM
TOP DECK-WELDING SOCKET

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK | SCALE : NTS

A3	DRAWING NO.	SHEET	REV.
	123A90-DDL-EL-DG-20125	013	01

CROSSWIND

ROSETTI MARINO

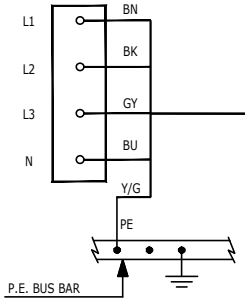
F.to UNI A3: 420mmx297mm

File Name : 123A90-DDL-EL-DG-20125

FROM

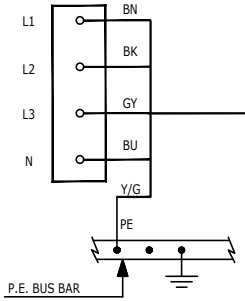
DESCRIPTION: LV Switchgear
TAG NUMBER: SG-200N1

COLUMN/CUBIC.: A6/+08



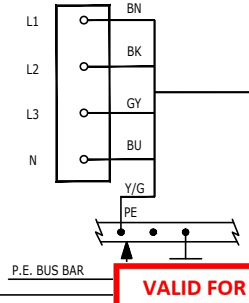
83021-CEL-01
5G50 mm²

COLUMN/CUBIC.: A7/+08



83022-CEL-01
5G50 mm²

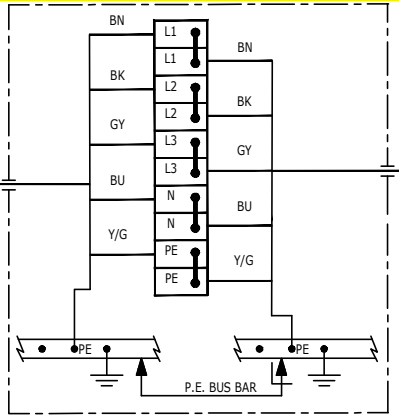
COLUMN/CUBIC.: A4/+02



83023-CEL
5G16 mm²

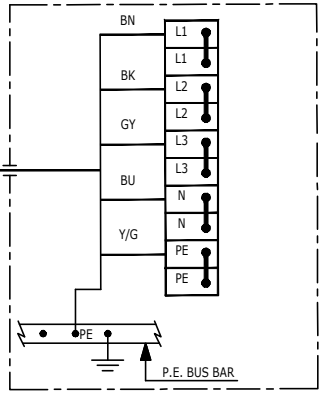
TO

DESCRIPTION: WELDING SOCKETS (TOP DECK)
TAG NUMBER: ESW-200N1-01

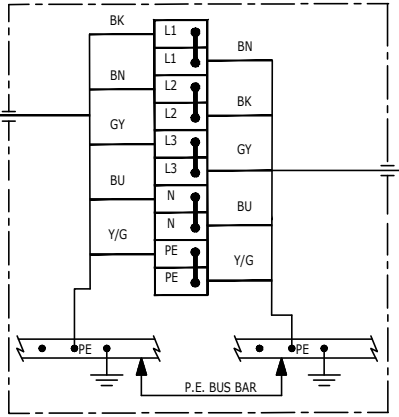


83021-CEL-02
5G50 mm²

TAG NUMBER: ESW-200N1-02

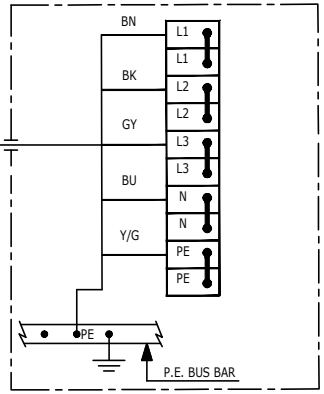


DESCRIPTION: WELDING SOCKET (LOWER DECK)
TAG NUMBER: ESW-200N2-01

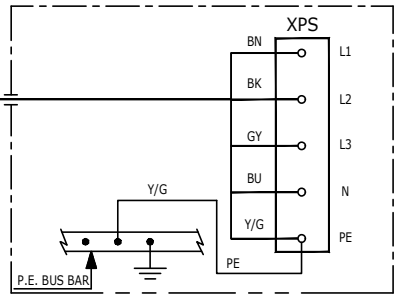


83022-CEL-02
5G50 mm²

TAG NUMBER: ESW-200N2-02



DESCRIPTION: HVAC PANELS - HV ROOM
TAG NUMBER: B100-HSB-001



VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DG-20149**

REV.:	DATE:	SIGNATURE:
2_C	02/12/24	G.Randi

ROSETTI MARINO SpA

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	19/11/24	SAI	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	16/10/24	SAI	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	08/07/24	SAI	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL INTERCONNECTING WIRING DIAGRAM
LV SWITCHGEAR SG-200N1

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE : 1:X

A3

DRAWING NO. 123A90-DDL-EL-DG-20149

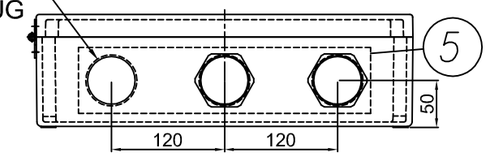
SHEET 025

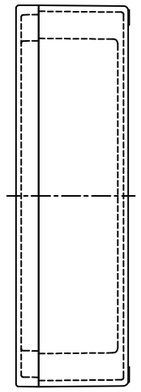
REV. 02

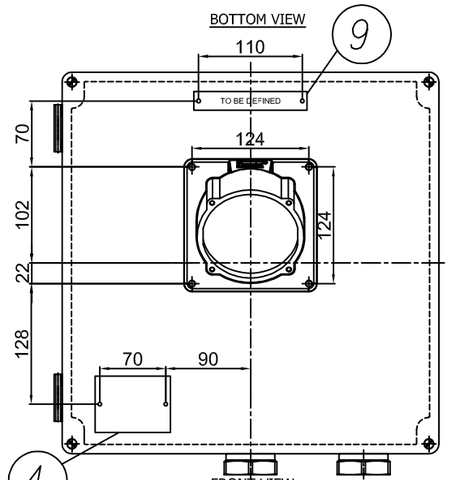
F.to UNI A3: 420mmx297mm

File Name : 123A90-DDL-EL-DG-20149 Rev. 02

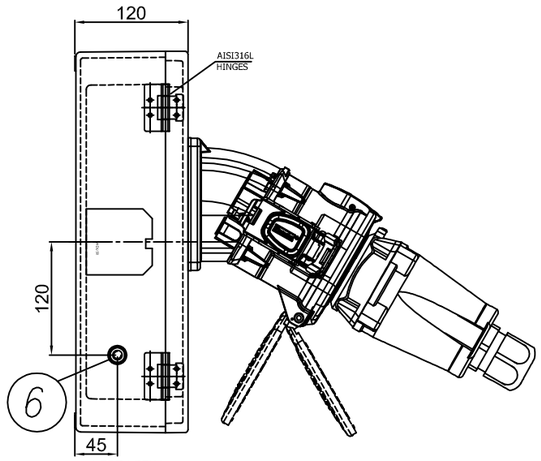
(8)(3) N°3 PASSING HOLES Ø50.2
C/W N°2 BNK PLUG M50 +
N°1 DUSTPROOF PVC PLUG




RIGHT VIEW



FRONT VIEW



LEFT VIEW

(4) I2400722-B040I00029802

TECHNOR ITALSMEA
A COMPANY OF MARECHAL ELECTRIC
Via Italia 33 - 20060 Gessate (MI) ITALY

CE

MADE IN ITALY

Serial Nr.:
Year of construction:

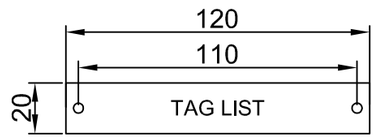
Type: MXBS-414012P

400VAC 50Hz 125A

T.amb -20/+50°C

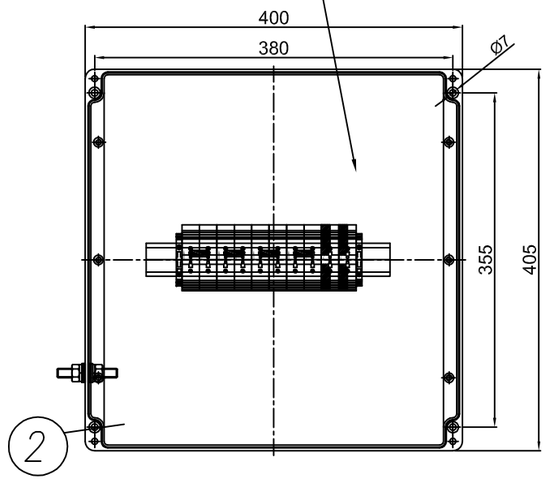
IP66

(9) PLATE DETAIL

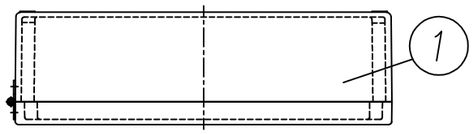


MATERIAL: LAMINATED PLASTIC
BACKGROUND: WHITE
LETTERS: BLACK

(7) TERMINALS NUMBERED
L1-L1,L2-L2,L3-L3,N-N,PE,PE
BRIDGED



INTERNAL VIEW



TOP VIEW

(10)

ENCLOSURE N°	TAG LIST
1	ESW-200N2-01
2	ESW-200N2-02
3	ESW-200N1-01
4	ESW-200N1-02

ITEM	DESCRIPTION	Pcs Q.TY	NOTE/MAT.	CODE	MANUFACTURER
10	DS9 SOCKET 3P+N+E 400VAC 125A	1	515M3+3194017 3198017+555P0D49	.	MARECHAL
9	LAMINATED PLASTIC TAG 120X20	1	–	.	TECHNOR ITALSMEA
8	DUSTPROOF PVC PLUG Ø50	1	–	.	TECHNOR ITALSMEA
7	BEIGE TERMINAL BLOCK SIZE 50 SQMM COMPACT EARTH TERMINAL BLOCK SIZE 50 SQMM COMPACT	8 2	WDU–50N WPE–50N	.	WEIDMULLER
6	AISI316L INT/EXT EARTH BOLT M10	1	BTP–10	.	TECHNOR ITALSMEA
5	BRASS CONTINUITY PLATE THK. 0.8 MM	1	–	.	TECHNOR ITALSMEA
4	AISI316L CERTIFICATE PLATE 80X60	1	–	.	TECHNOR ITALSMEA
3	NICKEL PLATED BRASS PLUG M50	2	T50	.	TECHNOR ITALSMEA
2	INTERNAL MOUNTING PLATE	1	PS–4140	.	TECHNOR ITALSMEA
1	GRP ENCLOSURE	1	AQ–414012P	.	TECHNOR ITALSMEA

-UNPAINTED (BLACK NATURAL)
Q.TY 4, ITEM 60: 1EQP155,
ELEJB-SOCK02

Explosion Proof
Electrical Equipment
Materiali Elettrici Antideflagranti

TECHNOR ITALSMEA
A COMPANY OF MARECHAL ELECTRIC

CROSSWIND

ROSETTI MARINO

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	12/09/24	FB	OB	OB	ACCEPTED FOR CONSTRUCTION (AFC)
01	03/09/24	FB	OB	OB	ACCEPTED FOR CONSTRUCTION (AFC)
00	30/07/24	FB	OB	OB	ISSUE FOR REVIEW (IFR)

TITLE : BASE LOAD POWER HUB (BLPH)

Junction Box with 125A Welding Socket

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE : NTS

A3

DRAWING NO. 1724001481-EL-DA-00003

SHEET 010

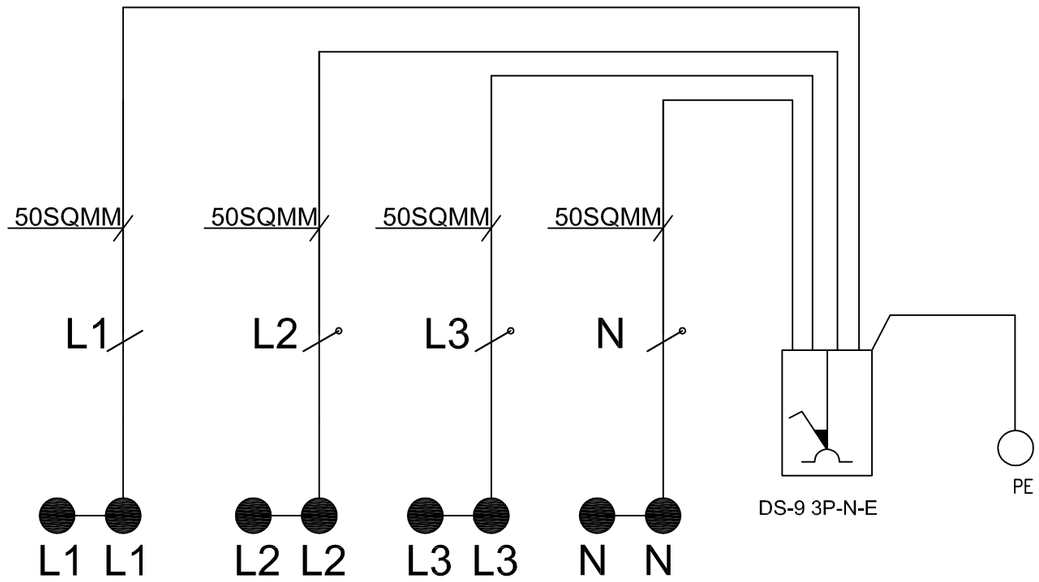
REV. 02

F.to UNI A3: 420mmx297mm

File Name : 1724001481-EL-DA-00003 Rev. 01

CABLES TRI-RATED 0,6/1kV
COLOR CODE:
-L1=BLACK
-L2=GREY
-L3=BROWN
-N=BLUE

400Vac 3Ph+N+PE



LEGEND

- TERMINAL
- BRIDGED TERMINALS
- SOCKET
- CABLE

			01	02	03	04	05	06	07	08	09
DESCRIPTION			.			. .	DS9 SOCKET 3P+N+E 125A	. .	. .	. .	. .
CIRCUIT N°			.	.	.	.	.	.	.	.	.
FEEDER	TYPE					.	.	.	.	.	.
	CODE		.	.	.	.	.	.	.	.	.
TOTAL POWER		kW	.	.	.	.	.	.	.	.	.
CONTEMPORANEITY FACTOR			.	.	.	.	.	.	.	.	.
ABSORBED POWER		kW	.	.	.	.	.	.	.	.	.
ABSORBED CURRENT		A	.	.	.	.	.	.	.	.	.
CIRCUIT BREAKER or ON–LOAD SWITCH	TYPE					.	.	.	.	.	.
	POLES NUMBER x CURRENT					.	.	.	.	.	.
FUSES	TYPE		.	.	.	.	.	.	.	.	.
	RATING	A	.	.	.	.	.	.	.	.	.
CONTACTOR	MANUFACTURER		.	.	.	.	.	.	.	.	.
	MODEL		.	.	.	.	.	.	.	.	.
	POLES NUMBER x CURRENT		.	.	.	.	.	.	.	.	.
	NOMINAL POWER	kW	.	.	.	.	.	.	.	.	.
EARTH LEAKAGE	TYPE			.	.	.	.	.	.	.	.
	NOMINAL RANGE	mA		.	.	.	.	.	.	.	.
POWER LINE DATA	CABLE TYPE		.	.	.	.	.	.	.	.	.
	FORMATION / SIZE		.	.	.	.	.	.	.	.	.
	LENGHT	m	.	.	.	.	.	.	.	.	.
	VOLTAGE DROP	%	.	.	.	.	.	.	.	.	.
TERMINALS	SECTION	sqmm	2XWDU–50N	2XWDU–50N	2XWDU–50N	2XWDU–50N	.	2XWPE–50N	.	.	.
	MARKING	–X	L1–L1	L2–L2	L3–L3	N–N	.	PE–PE	.	.	.

Explosion Proof
Electrical Equipment
Materiali Elettrici Antideflagranti

TECHNOR ITALSMEA
A COMPANY OF MARECHAL ELECTRIC

CROSSWIND

ROSETTI MARINO

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	12/09/24	FB	OB	OB	ACCEPTED FOR CONSTRUCTION (AFC)
01	03/09/24	FB	OB	OB	ACCEPTED FOR CONSTRUCTION (AFC)
00	30/07/24	FB	OB	OB	ISSUE FOR REVIEW (IFR)

TITLE : BASE LOAD POWER HUB (BLPH)

Junction Box with 125A Welding Socket–Wiring Diagram

CONTRACT NO./TITLE CW–I–WP4–2023–05/HOLLANDSE KUST NOORD WIND PARK

SCALE : NTS

A3

DRAWING NO. 1724001481–EL–DA–00003

SHEET 011

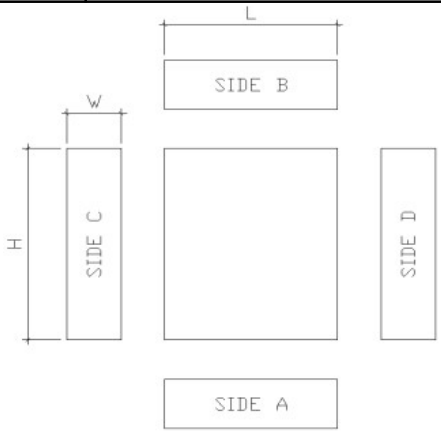
REV. 02

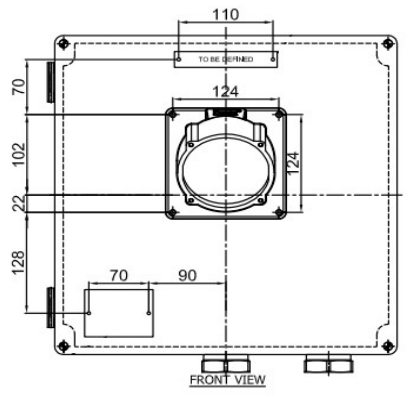
F.to UNI A3: 420mmx297mm

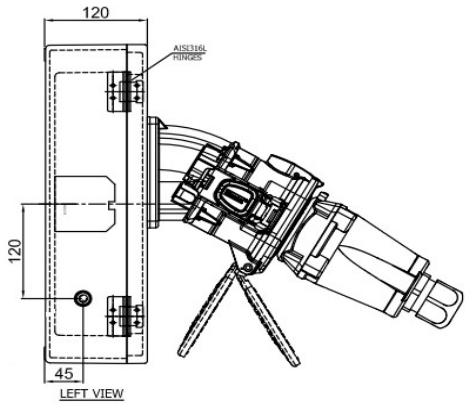
File Name : 1724001481–EL–DA–00003 Rev. 01

Row	Data Sheet for Control Stations, Junction Boxes and Sockets				Rev.
1	125A Welding Socket and Plug with Integrated JB				01
2	Item	Required	Manufacturer Proposal	Comments	
3	Model Number	by Vendor	MXSB-414012P		01
4	Serial Number	by Vendor			00
5	Quantity	4		(4+0 Spare)	01
6	Application	Welding Socket			00
7	Safe Area/Hazardous Area	Safe Area			00
8	**Rating**				
9	Current Rating [A]	125A	125A		01
10	Poles	3ph+N+PE	3ph+N+PE		01
11	Voltage [V]	400	400 V ac		01
12	**Material**				
13	Body	GRP	GRP		01
14	Execution	Normal			00
15	Protection Degree	IP56	IP 66		01
16	Temperature Class	Normal			00
17	**Cable Entry**				
18	Thread	Metric			00
19	Cable Gland Size/Qty.	M50/3	M50/3		01
17	**Interlocked Switching Device**				
18	Interlocked Switching device	Required			00
19	Padlocakable Position	Required			00
20	Plug	Required			00
21	**Accessories**				
22	Hinged Cover	Required	AISI316L Hinges		01
23	Gasket	Required			00
24	Removable Gland Plates	Required	Brass Continuity plate 0.8mm thick		01
25	Internal Mounting Plate	Thickness 3mm threaded		connected to Internal ground bar	00
26	Internal Ground Bar	Required		connected to earth stud	00
27	Earth Stud	Required			00
28	Drainage Valve	Required			00
29	Pad lockable Cover	Required			00
30	Identification Label	Trafolite/ Stainless Steel	Laminated Plastic	for all label	01
31	**Side 'A'**				
32	Hubs Qty.	3	3		01
33	Size	M50	Ø 50.2 mm		01
34	Thread	ISO-M			00
35	Plug	No.2 M50	No.2 M50	nickel-plated brass	01
36	**Side 'B'**				
37	Hubs Qty.	Not Required			00
38	Size	NA			00
39	Thread	NA			00
40	**Side 'C'**				
41	Hubs Qty.	Not Required			00
42	Size	NA			00
43	Thread	NA			00
44	**Side 'D'**				
45	Hubs Qty.	Not Required			00
46	Size	NA			00
47	Thread	NA			00
48	**Terminals**				
49	Size [mm^2]	Suitable for 50 Sq.mm Cable	M50	suitable with wire-end ferrules DIN 46228	01
50	Qty.	n°4 for each Ph // n°4 for N // n°4 for PE	n°2 for Ph // n°2 for N // n°2 for PE	jumpered	01
51	**Bonding Cable (yellow/Green)**				
52	Size [mm^2]	by vendor		6 mm^2	01
53	Qty.	Min. 0.15m			00
54	**Dimension**				
55	Height 'H' [mm]	by vendor	120 mm		01
56	Width 'W' [mm]	by vendor	405 mm		01
57	Length 'L' [mm]	by vendor	400 mm		01
58	Weight [Kg]	by vendor			00
59	**Code**	**Remarks**			
60					
61					

NOTES:

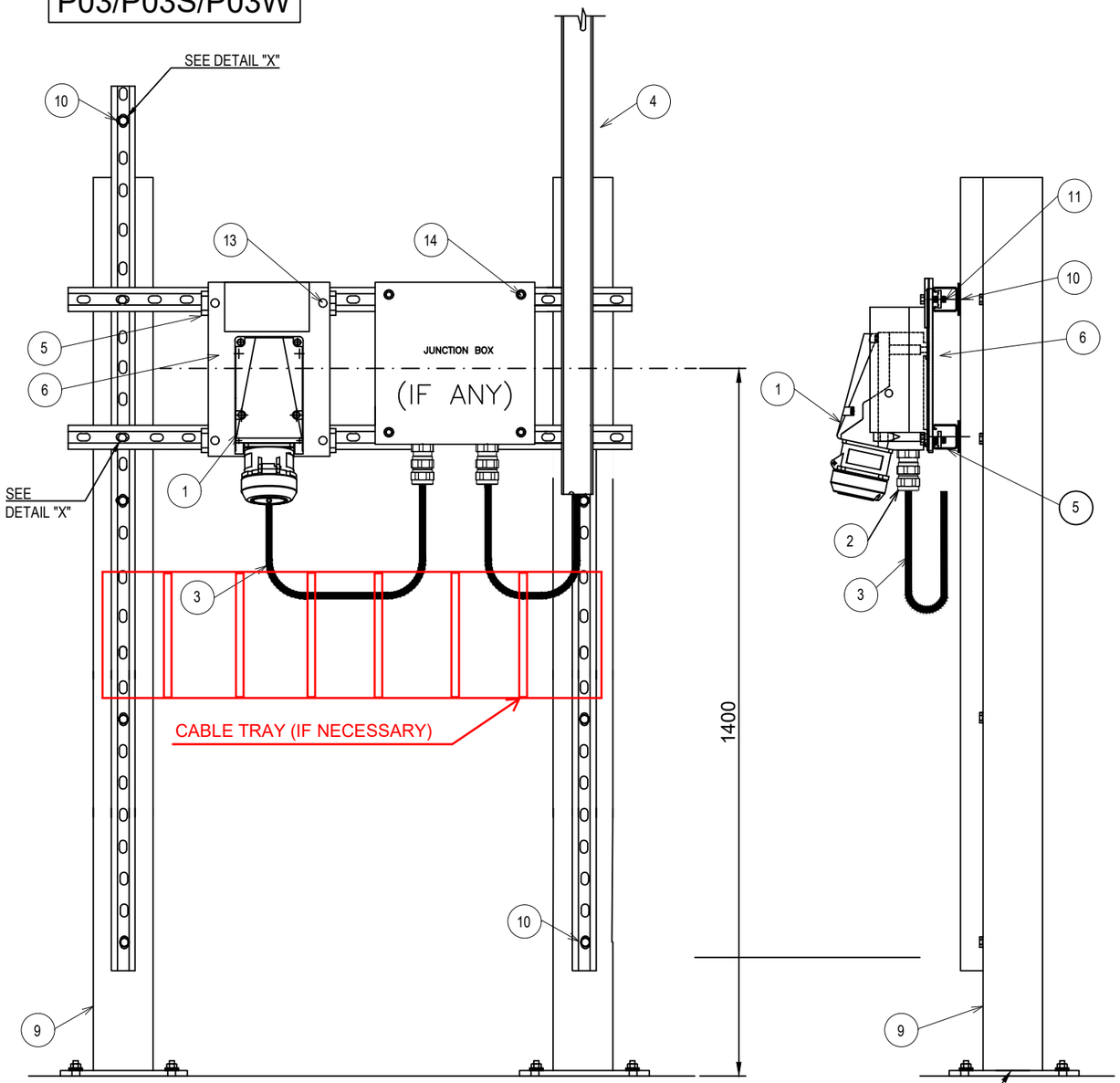






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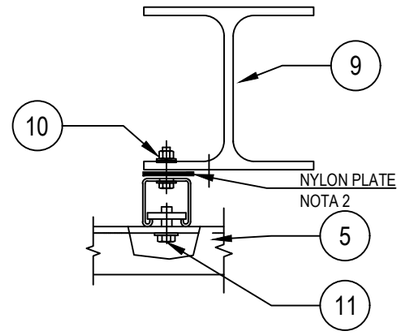
P03/P03S/P03W



POS.	DESCRIPTION	MATERIAL	SIZE	Q.TY	NOTE
1	POWER SOCKET			1	
2	SINGLE SEAL CABLE GLAND FOR UNARMOURED CABLE	NICK.PL.BRASS		3	NOTE 3
3	UNARMOURED CABLE				
4	CABLE LADDER WITH COVER	AISI 316L			
5	SINGLE U-CHANNEL PERFORATED ON NO.3 SIDE	AISI 316L	41x41x2	AS R.	NOTE 1
6	PLATE SUPPORT FOR POWER SOCKET	AISI 316L		1	
9	PROFILE SUPPORT	PAINTED C.S.		2	
10	HEXAGONAL BOLT WITH NYLON WASHER, PLANE WASHERS, GROWER AND NUT.	AISI 316L	M10x40	AS R.	
11	HEXAGONAL BOLT WITH PLANE WASHER AND NUT FOR U-CHANNEL WITH SPRING.	AISI 316L	M12x30	AS R.	
12	DOUBLE SLOT CROWNED HEAD SCREW WITH NUT FOR U-CHANNEL WITH SPRING.	AISI 316L	M6x20	AS R.	
13	HEXAGONAL BOLT WITH PALNE WASHER AND NUT FOR U-CHANNEL WITH SPRING	AISI 316L	M8x30	4	
14	SCREW WITH PLANE WASHER AND NUT FOR U-CHANNEL WITH SPRING	AISI 316L	M6x40	4	

02

DETAIL "X"



NOTE :
1) THE EXACT DIMENSIONS WILL BE DEFINED DURING ASSEMBLY FASE.
2) INTERPOSING TEFLON OR NYLON PLATE BETWEEN DISSIMILAR CONDUCTIIN MATERIAL.
3) CABLE GLAND COMPLETE WITH LOCKNUT, NYLON WASHER, SERRATED WASHER, EXTERNAL RUBBER RING AND EARTH TAG (IF NECESSARY).

02 SUPPORT BOLTED ON HILTI S-BT INSTALLED ON BEAM OR DECK

VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DD-20092**

REV.:	DATE:	SIGNATURE:
2_D	20/12/24	V.Ramponi

ROSETTI MARINO SpA

CROSSWIND

ROSETTI MARINO

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	28/08/24	GRA	AMA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	04/07/24	NLK	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	21/11/23	SPS	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL TYPICAL INSTALLATION DETAILS-POWER SYSTEM & CABLE INSTALLATION
POWER TYPICAL DETAILS POWER SOCKET FLOOR MOUNTED

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK | SCALE : NTS

A3 | DRAWING NO. 123A90-DDL-EL-DD-20092 | SHEET 004 | REV. 02

F.to UNI A3: 420mmx297mm

File Name : 123A90-DDL-EL-DD-20092 REV.02.DWG

ROSETTI MARINO | PROVERLIS | CROSSWIND

ITEM	Tag	ESW-200N1-02	: WELDING SOCKET			Dwg	123A90-DDL-EL-DL-20118
	S/Sys	83-50	: Welding Sockets			Module	UD
TASK	code	C10001849		Location	Onshore Activities	User	Rosetti Marino Quality Control
FORM	Process	MC	Activity CCK	Discipline	Electrical	Form	CPX00 Miscellaneous Electrical Equipment

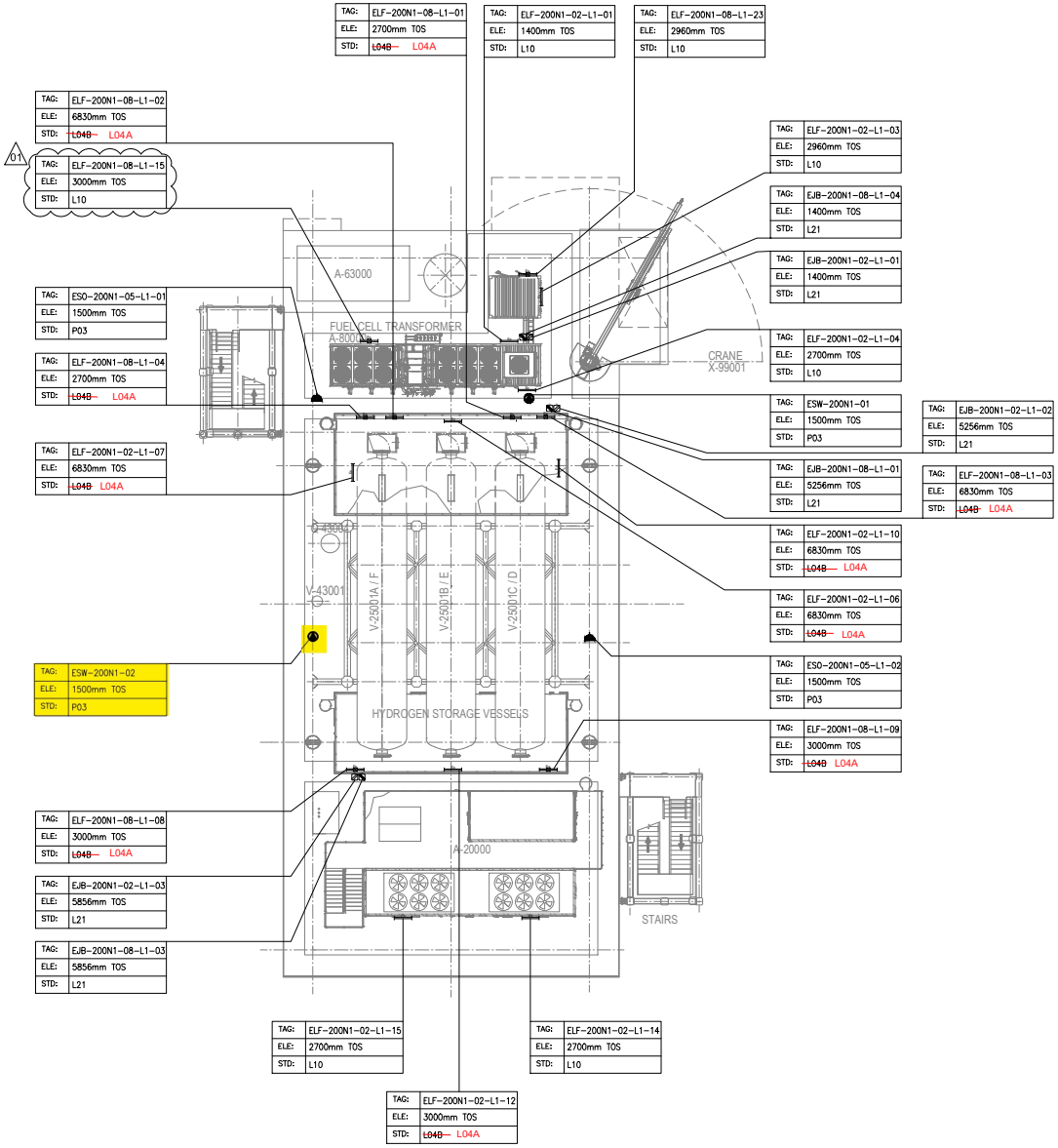
1	Check circuit is de-energized and safe.	OK
2	Check equipment is installed in accordance with layout drawing.	OK
3	Check equipment is undamaged and correcly tagged.	OK
4	Check nameplate data is correct.	OK
5	Check all bolts are fitted and all unused entries are suitably plugged.	PL
6	Check terminals for proper size and installation crimps	PL
7	Check earthing and bonding against drawings.	OK
8	Check items are properly fixed on support.	OK
9	If required produce Red Line Mark Up for "AS BUILT"	

Comments:

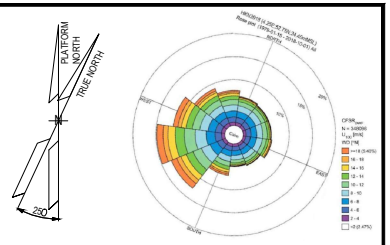
	Performed by	● WITNESS ☐ REVIEW	☐ WITNESS ☐ REVIEW
Company	ICS IMPIANTI	RM (ROSETTI MARINO)	
Name	Michele Tartaglia	Luca Mussi	
Date	2024-12-20	2024-12-30	
Signature	PROVERLIS Digitaly signed by Michele Tartaglia 2024-12-20T12:50:44.463Z	PROVERLIS Digitaly signed by Luca Mussi 2024-12-30T16:56:46.454Z	

DRAWING NO. 123A90-DDL-EL-DL-20118

REV. 01



PLAN ON UPPER DECK
EL+30.310 T.O.S.



NOTES

1. ALL DIMENSIONS AND ELEVATIONS ARE GIVEN IN mm UNLESS OTHERWISE NOTED.
2. ELEVATIONS REFER TO T.O.S.
3. ELEVATION OF THE LAMPS ARE REFFERED TO THE BOTTOM OF THE LAMP.
4. FOR THE ELEVATION OF JB, REFER TO THE TYPICAL INSTALLATION.

LEGEND

- EMERGENCY LIGHTING JB
- 60W LED EMERGENCY LUMINARIES
- 60W LED EMERGENCY LUMINARIES FIXTURE POLE MOUNTED
- NORMAL LIGHTING JB
- 45W LED NORMAL LUMINARIES
- 45W LED NORMAL LUMINARIES FIXTURE POLE MOUNTED
- WELDING SOCKET WITH INTEGRATED JB
- SMALL POWER SOCKET WITH INTEGRATED JB

JB TAG:	JB-TAG
TAG:	TAG
ELE:	ELEVATION
STD:	STANDARD

REFERENCE DOCUMENTS

123A90-DDL-PP-DL-70070	PLOT PLAN - LOWER & UPPER DECK
123A90-DDL-EL-DL-20100	ELECTRICAL EQUIPMENT LAYOUT - TOP DECK
123A90-DDL-EL-DD-20091	ELECTRICAL TYPICAL INSTALLATION DETAILS - LIGHTING SYSTEM
123A90-DDL-EL-DD-20092	ELECTRICAL TYPICAL INSTALLATION DETAILS - POWER SYSTEM & CABLE INSTALLATION
123A90-DDL-EL-RE-20153	LIGHTING CALCULATION STUDY REPORT
123A90-DDL-ST-DD-90076	IDENTIFICATION PANELS ASSEMBLY AND DETAILS

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	02/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	28/05/24	ASR	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DL-20118**

REV.:	DATE:	SIGNATURE:
1_F	26/11/24	G.Randi

ROSETTI MARINO SpA

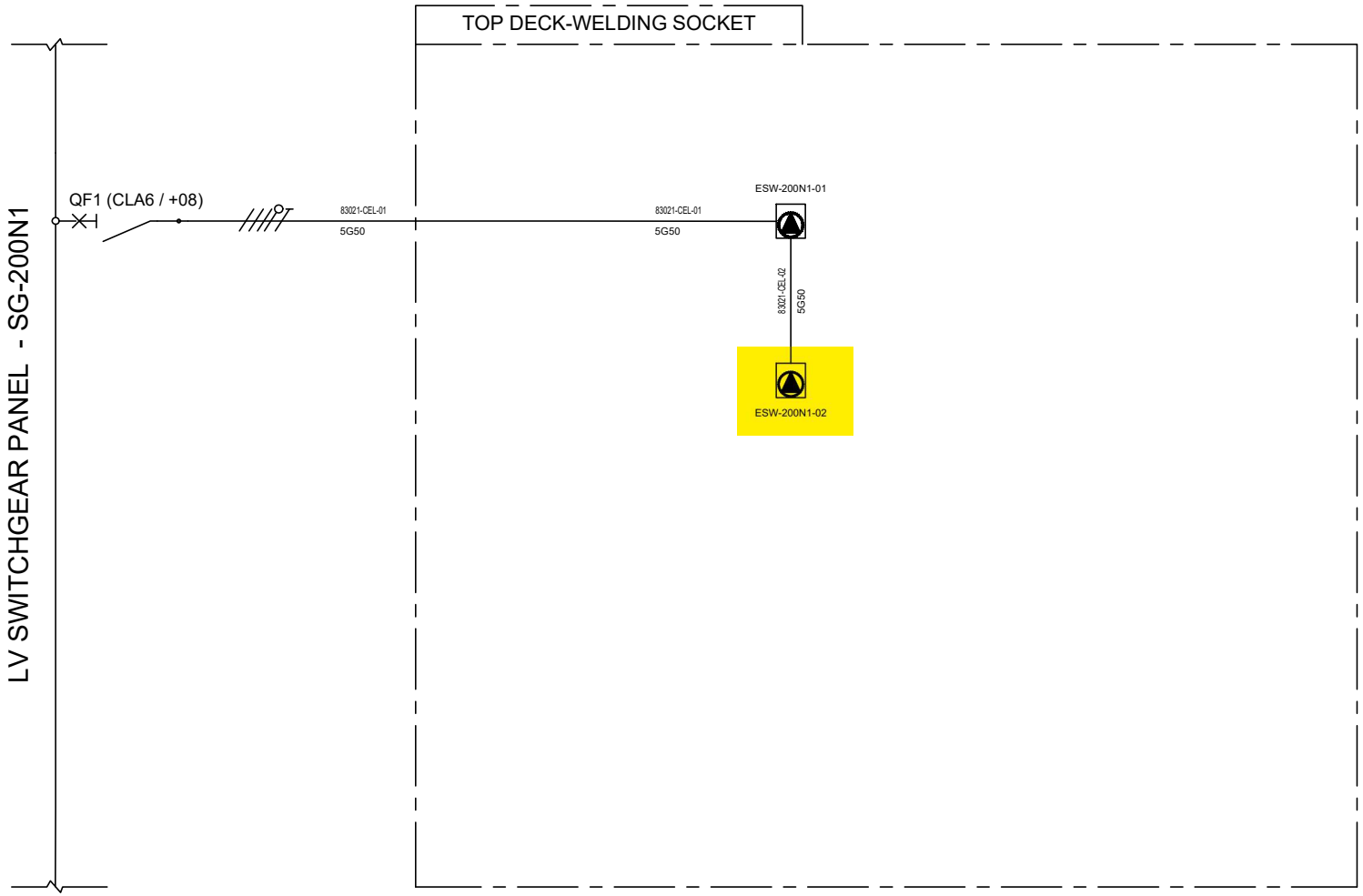
CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET LAYOUT – TOP DECK

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK			SCALE 1:150
DRAWN ASR	CHECKED FMA/AMA	APPROVED FPA/DLO	DATE 01/08/24
A1	DRAWING NO. 123A90-DDL-EL-DL-20118	SHEET 2of2	REV. 01

File Name : 123A90-DDL-EL-DL-20118



VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DG-20125**

REV.:	DATE:	SIGNATURE:
2_B	20/11/24	G.Randi

ROSETTI MARINO SpA

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	08/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	01/07/24	ASR	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

TITLE : BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET CIRCUIT DIAGRAM
TOP DECK-WELDING SOCKET

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK | SCALE : NTS

A3	DRAWING NO.	SHEET	REV.
	123A90-DDL-EL-DG-20125	013	01

CROSSWIND

ROSETTI MARINO

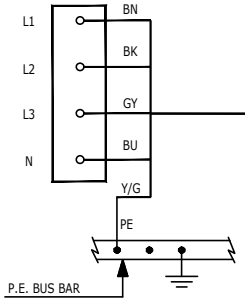
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File Name : 123A90-DDL-EL-DG-20125

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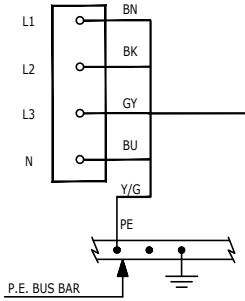
DESCRIPTION: LV Switchgear
TAG NUMBER: SG-200N1

COLUMN/CUBIC.: A6/+08



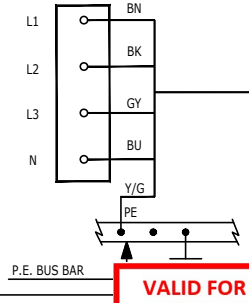
83021-CEL-01
5G50 mm²

COLUMN/CUBIC.: A7/+08



83022-CEL-01
5G50 mm²

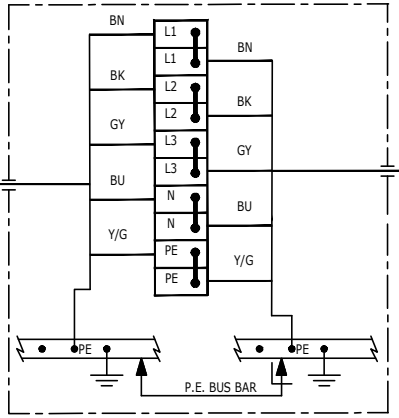
COLUMN/CUBIC.: A4/+02



83023-CEL
5G16 mm²

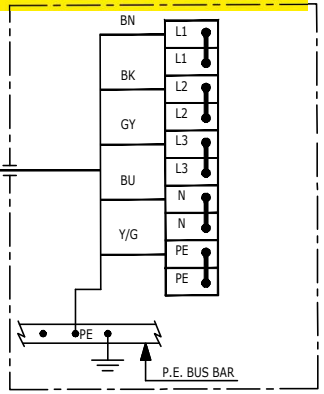
TO

DESCRIPTION: WELDING SOCKETS (TOP DECK)
TAG NUMBER: ESW-200N1-01

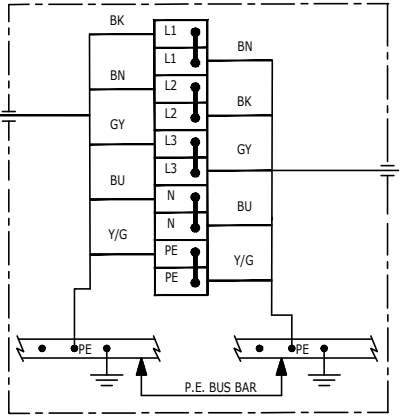


83021-CEL-02
5G50 mm²

TAG NUMBER: ESW-200N1-02

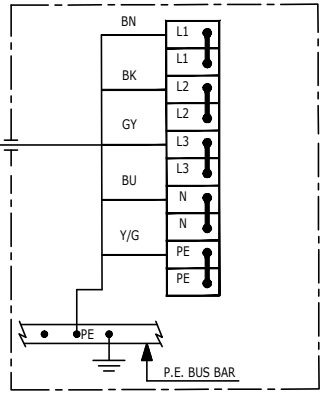


DESCRIPTION: WELDING SOCKET (LOWER DECK)
TAG NUMBER: ESW-200N2-01

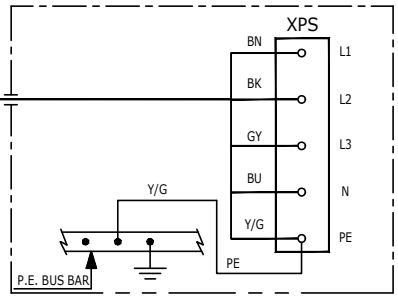


83022-CEL-02
5G50 mm²

TAG NUMBER: ESW-200N2-02



DESCRIPTION: HVAC PANELS - HV ROOM
TAG NUMBER: B100-HSB-001



VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DG-20149**

REV.:	DATE:	SIGNATURE:
2_C	02/12/24	G.Randi

ROSETTI MARINO SpA

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	19/11/24	SAI	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	16/10/24	SAI	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	08/07/24	SAI	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL INTERCONNECTING WIRING DIAGRAM
LV SWITCHGEAR SG-200N1

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE : 1:X

A3

DRAWING NO. 123A90-DDL-EL-DG-20149

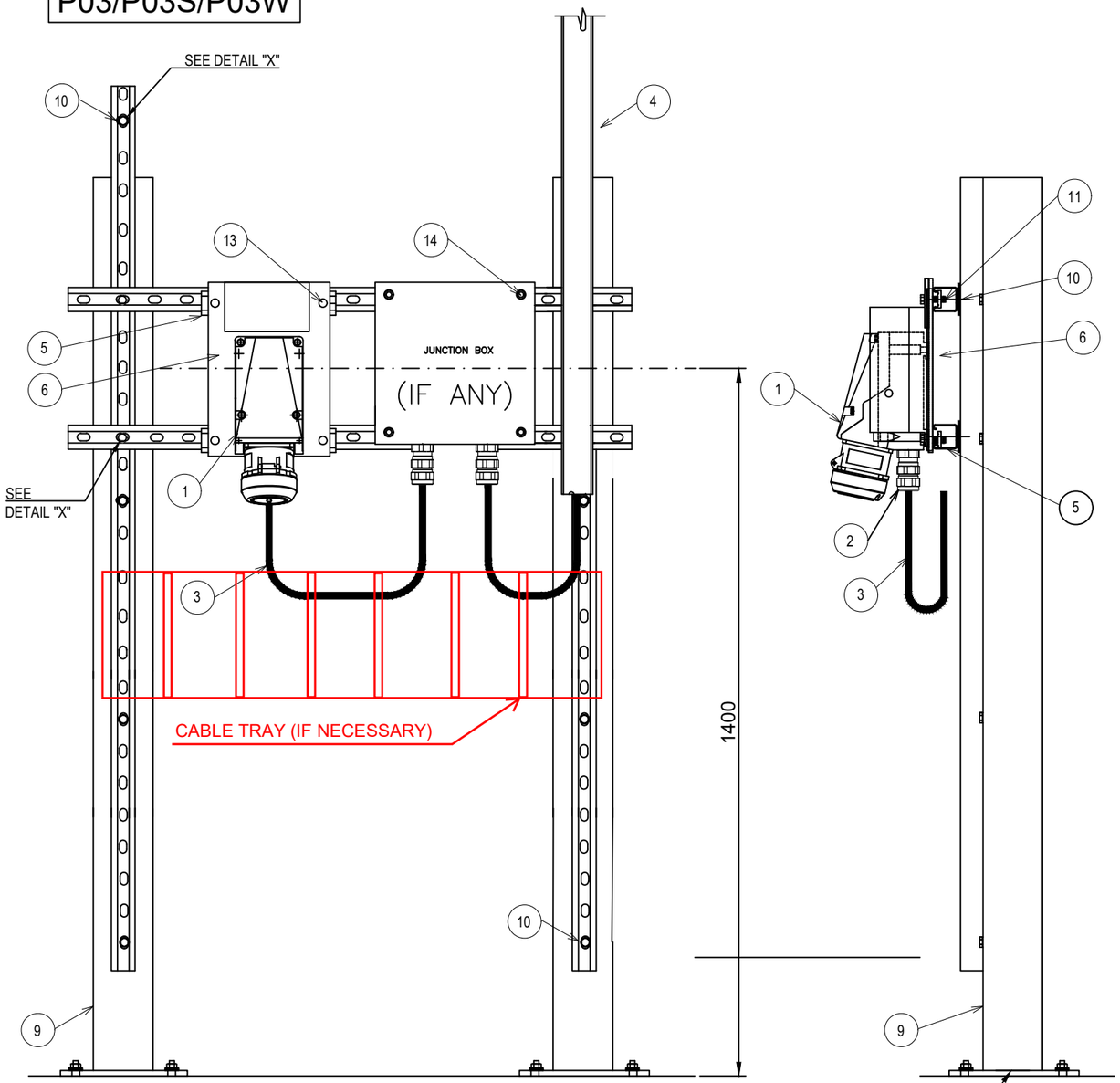
SHEET 025

REV. 02

F.to UNI A3: 420mmx297mm

File Name : 123A90-DDL-EL-DG-20149 Rev. 02

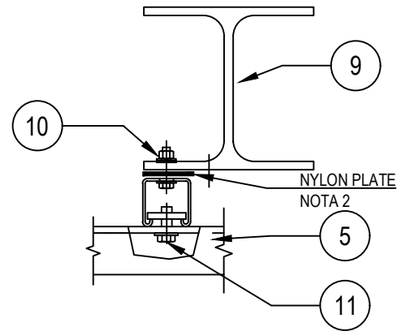
P03/P03S/P03W



POS.	DESCRIPTION	MATERIAL	SIZE	Q.TY	NOTE
1	POWER SOCKET			1	
2	SINGLE SEAL CABLE GLAND FOR UNARMOURED CABLE	NICK.PL.BRASS		3	NOTE 3
3	UNARMOURED CABLE				
4	CABLE LADDER WITH COVER	AISI 316L			
5	SINGLE U-CHANNEL PERFORATED ON NO.3 SIDE	AISI 316L	41x41x2	AS R.	NOTE 1
6	PLATE SUPPORT FOR POWER SOCKET	AISI 316L		1	
9	PROFILE SUPPORT	PAINTED C.S.		2	
10	HEXAGONAL BOLT WITH NYLON WASHER, PLANE WASHERS, GROWER AND NUT.	AISI 316L	M10x40	AS R.	
11	HEXAGONAL BOLT WITH PLANE WASHER AND NUT FOR U-CHANNEL WITH SPRING.	AISI 316L	M12x30	AS R.	
12	DOUBLE SLOT CROWNED HEAD SCREW WITH NUT FOR U-CHANNEL WITH SPRING.	AISI 316L	M6x20	AS R.	
13	HEXAGONAL BOLT WITH PALNE WASHER AND NUT FOR U-CHANNEL WITH SPRING	AISI 316L	M8x30	4	
14	SCREW WITH PLANE WASHER AND NUT FOR U-CHANNEL WITH SPRING	AISI 316L	M6x40	4	

02

DETAIL "X"



NOTE :
1) THE EXACT DIMENSIONS WILL BE DEFINED DURING ASSEMBLY FASE.
2) INTERPOSING TEFLON OR NYLON PLATE BETWEEN DISSIMILAR CONDUCTIIN MATERIAL.
3) CABLE GLAND COMPLETE WITH LOCKNUT, NYLON WASHER, SERRATED WASHER, EXTERNAL RUBBER RING AND EARTH TAG (IF NECESSARY).

02 SUPPORT BOLTED ON HILTI S-BT INSTALLED ON BEAM OR DECK

VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DD-20092**

REV.:	DATE:	SIGNATURE:
2_D	20/12/24	V.Ramponi

ROSETTI MARINO SpA

CROSSWIND

ROSETTI MARINO

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	28/08/24	GRA	AMA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	04/07/24	NLK	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	21/11/23	SPS	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL TYPICAL INSTALLATION DETAILS-POWER SYSTEM & CABLE INSTALLATION
POWER TYPICAL DETAILS POWER SOCKET FLOOR MOUNTED

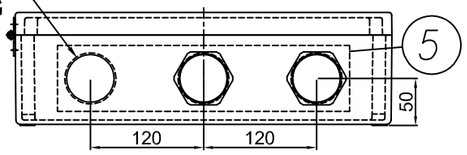
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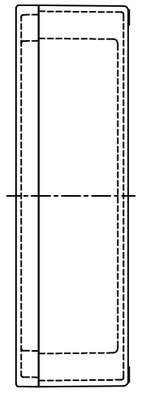
A3 | DRAWING NO. 123A90-DDL-EL-DD-20092 | SHEET 004 | REV. 02

F.to UNI A3: 420mmx297mm

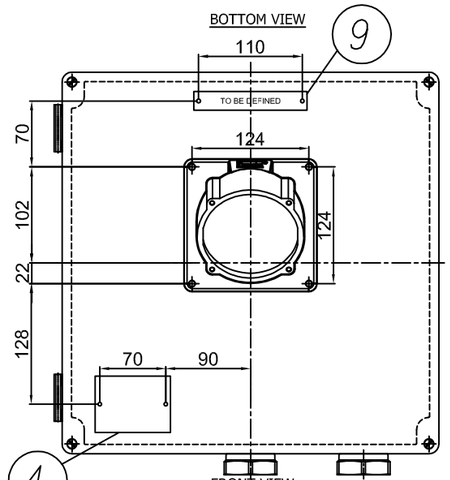
File Name : 123A90-DDL-EL-DD-20092 REV.02.DWG

(8)(3) N°3 PASSING HOLES Ø50.2
C/W N°2 BNK PLUG M50 +
N°1 DUSTPROOF PVC PLUG

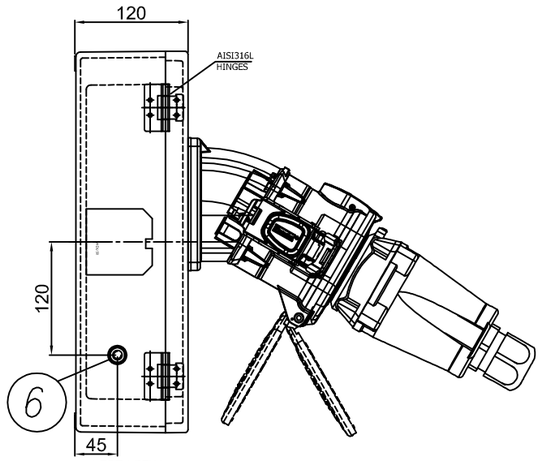




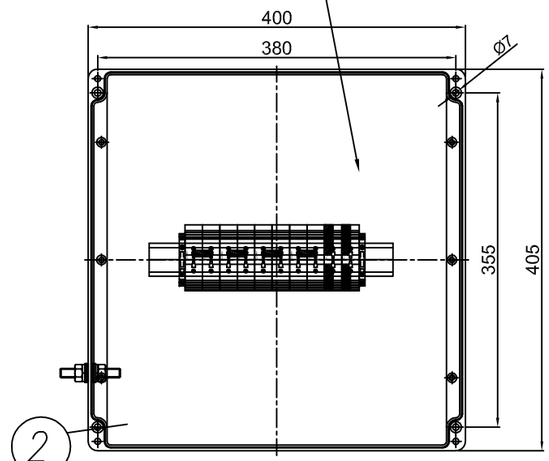
RIGHT VIEW



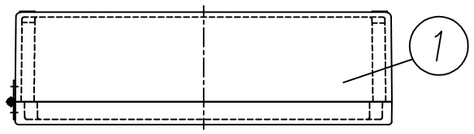
FRONT VIEW



LEFT VIEW



INTERNAL VIEW



TOP VIEW

(10)

(4) I2400722-B040I00029802

TECHNOR ITALSMEA
A COMPANY OF MARECHAL ELECTRIC
Via Italia 33 - 20060 Gessate (MI) ITALY

MADE IN ITALY

Serial Nr.:
Year of construction:

Type: MXBS-414012P

400VAC 50Hz 125A

T.amb -20/+50°C

IP66

(9) PLATE DETAIL



MATERIAL: LAMINATED PLASTIC
BACKGROUND: WHITE
LETTERS: BLACK

(7) TERMINALS NUMBERED
L1-L1,L2-L2,L3-L3,N-N,PE,PE
BRIDGED

ENCLOSURE N°	TAG LIST
1	ESW-200N2-01
2	ESW-200N2-02
3	ESW-200N1-01
4	ESW-200N1-02

ITEM	DESCRIPTION	Pcs Q.TY	NOTE/MAT.	CODE	MANUFACTURER
10	DS9 SOCKET 3P+N+E 400VAC 125A	1	515M3+3194017 3198017+555P0D49	.	MARECHAL
9	LAMINATED PLASTIC TAG 120X20	1	–	.	TECHNOR ITALSMEA
8	DUSTPROOF PVC PLUG Ø50	1	–	.	TECHNOR ITALSMEA
7	BEIGE TERMINAL BLOCK SIZE 50 SQMM COMPACT EARTH TERMINAL BLOCK SIZE 50 SQMM COMPACT	8 2	WDU–50N WPE–50N	.	WEIDMULLER
6	AISI316L INT/EXT EARTH BOLT M10	1	BTP–10	.	TECHNOR ITALSMEA
5	BRASS CONTINUITY PLATE THK. 0.8 MM	1	–	.	TECHNOR ITALSMEA
4	AISI316L CERTIFICATE PLATE 80X60	1	–	.	TECHNOR ITALSMEA
3	NICKEL PLATED BRASS PLUG M50	2	T50	.	TECHNOR ITALSMEA
2	INTERNAL MOUNTING PLATE	1	PS–4140	.	TECHNOR ITALSMEA
1	GRP ENCLOSURE	1	AQ–414012P	.	TECHNOR ITALSMEA

-UNPAINTED (BLACK NATURAL)
Q.TY 4, ITEM 60: 1EQP155,
ELEJB-SOCK02

Explosion Proof
Electrical Equipment
Materiali Elettrici Antideflagranti

TECHNOR ITALSMEA
A COMPANY OF MARECHAL ELECTRIC

CROSSWIND

ROSETTI MARINO

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	12/09/24	FB	OB	OB	ACCEPTED FOR CONSTRUCTION (AFC)
01	03/09/24	FB	OB	OB	ACCEPTED FOR CONSTRUCTION (AFC)
00	30/07/24	FB	OB	OB	ISSUE FOR REVIEW (IFR)

TITLE : BASE LOAD POWER HUB (BLPH)

Junction Box with 125A Welding Socket

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE : NTS

A3

DRAWING NO. 1724001481-EL-DA-00003

SHEET 010

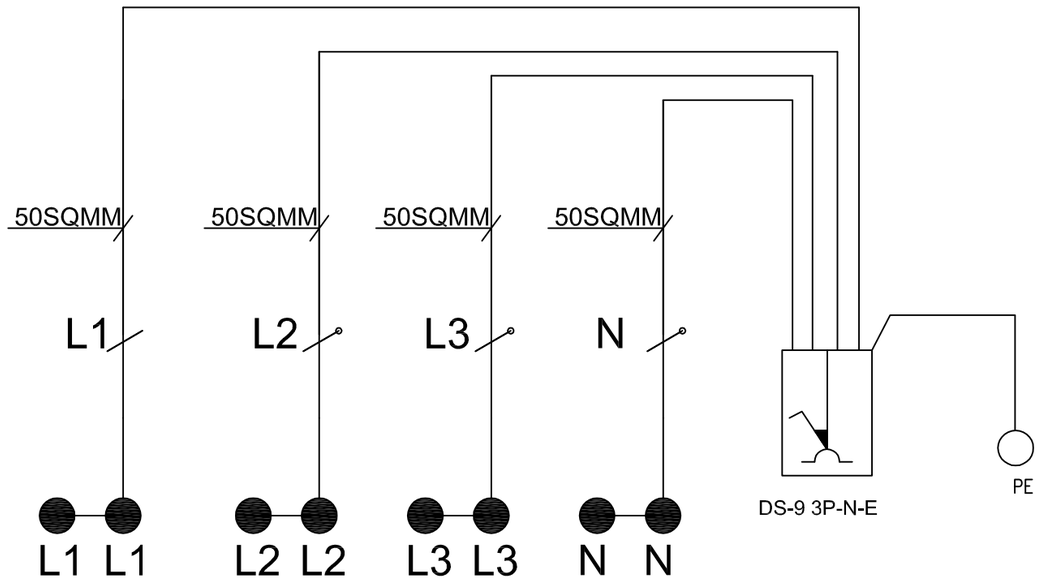
REV. 02

F.to UNI A3: 420mmx297mm

File Name : 1724001481-EL-DA-00003 Rev. 01

CABLES TRI-RATED 0,6/1kV
COLOR CODE:
-L1=BLACK
-L2=GREY
-L3=BROWN
-N=BLUE

400Vac 3Ph+N+PE



LEGEND

- TERMINAL
- BRIDGED TERMINALS
- SOCKET
- CABLE

			01	02	03	04	05	06	07	08	09
DESCRIPTION			.			.	DS9 SOCKET 3P+N+E 125A	.	.	.	.
CIRCUIT N°			.	.	.	.	.	.	.	.	.
FEEDER	TYPE					.	.	.	.	.	.
	CODE		.	.	.	.	.	.	.	.	.
TOTAL POWER		kW	.	.	.	.	.	.	.	.	.
CONTEMPORANEITY FACTOR			.	.	.	.	.	.	.	.	.
ABSORBED POWER		kW	.	.	.	.	.	.	.	.	.
ABSORBED CURRENT		A	.	.	.	.	.	.	.	.	.
CIRCUIT BREAKER or ON–LOAD SWITCH	TYPE					.	.	.	.	.	.
	POLES NUMBER x CURRENT					.	.	.	.	.	.
FUSES	TYPE		.	.	.	.	.	.	.	.	.
	RATING	A	.	.	.	.	.	.	.	.	.
CONTACTOR	MANUFACTURER		.	.	.	.	.	.	.	.	.
	MODEL		.	.	.	.	.	.	.	.	.
	POLES NUMBER x CURRENT		.	.	.	.	.	.	.	.	.
	NOMINAL POWER	kW	.	.	.	.	.	.	.	.	.
EARTH LEAKAGE	TYPE			.	.	.	.	.	.	.	.
	NOMINAL RANGE	mA		.	.	.	.	.	.	.	.
POWER LINE DATA	CABLE TYPE		.	.	.	.	.	.	.	.	.
	FORMATION / SIZE		.	.	.	.	.	.	.	.	.
	LENGHT	m	.	.	.	.	.	.	.	.	.
	VOLTAGE DROP	%	.	.	.	.	.	.	.	.	.
TERMINALS	SECTION	sqmm	2XWDU–50N	2XWDU–50N		2XWDU–50N	2XWDU–50N	.	2XWPE–50N	.	.
	MARKING	–X	L1–L1	L2–L2		L3–L3	N–N	.	PE–PE	.	.

Explosion Proof
Electrical Equipment
Materiali Elettrici Antideflagranti

TECHNOR ITALSMEA
A COMPANY OF MARECHAL ELECTRIC

CROSSWIND

ROSETTI MARINO

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	12/09/24	FB	OB	OB	ACCEPTED FOR CONSTRUCTION (AFC)
01	03/09/24	FB	OB	OB	ACCEPTED FOR CONSTRUCTION (AFC)
00	30/07/24	FB	OB	OB	ISSUE FOR REVIEW (IFR)

TITLE : BASE LOAD POWER HUB (BLPH)

Junction Box with 125A Welding Socket–Wiring Diagram

CONTRACT NO./TITLE CW–I–WP4–2023–05/HOLLANDSE KUST NOORD WIND PARK

SCALE : NTS

A3

DRAWING NO. 1724001481–EL–DA–00003

SHEET 011

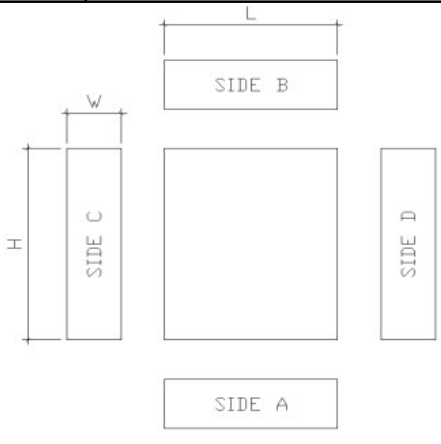
REV. 02

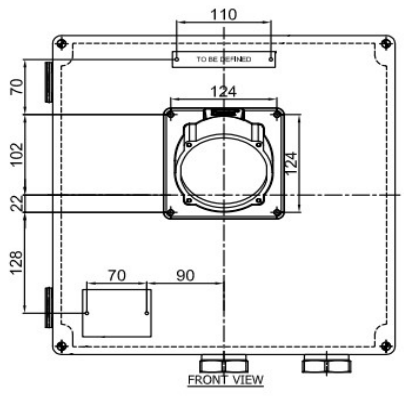
F.to UNI A3: 420mmx297mm

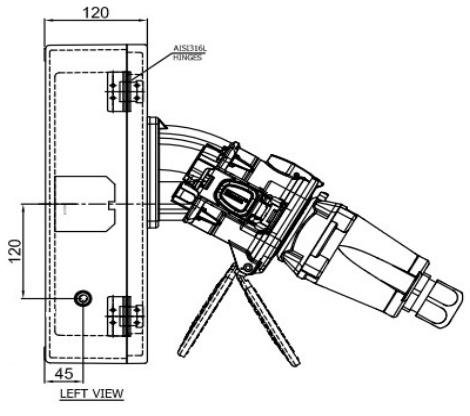
File Name : 1724001481–EL–DA–00003 Rev. 01

Row	Data Sheet for Control Stations, Junction Boxes and Sockets				Rev.
1	125A Welding Socket and Plug with Integrated JB				01
2	Item	Required	Manufacturer Proposal	Comments	
3	Model Number	by Vendor	MXSB-414012P		01
4	Serial Number	by Vendor			00
5	Quantity	4		(4+0 Spare)	01
6	Application	Welding Socket			00
7	Safe Area/Hazardous Area	Safe Area			00
8	**Rating**				
9	Current Rating [A]	125A	125A		01
10	Poles	3ph+N+PE	3ph+N+PE		01
11	Voltage [V]	400	400 V ac		01
12	**Material**				
13	Body	GRP	GRP		01
14	Execution	Normal			00
15	Protection Degree	IP56	IP 66		01
16	Temperature Class	Normal			00
17	**Cable Entry**				
18	Thread	Metric			00
19	Cable Gland Size/Qty.	M50/3	M50/3		01
17	**Interlocked Switching Device**				
18	Interlocked Switching device	Required			00
19	Padlocakable Position	Required			00
20	Plug	Required			00
21	**Accessories**				
22	Hinged Cover	Required	AISI316L Hinges		01
23	Gasket	Required			00
24	Removable Gland Plates	Required	Brass Continuity plate 0.8mm thick		01
25	Internal Mounting Plate	Thickness 3mm threaded		connected to Internal ground bar	00
26	Internal Ground Bar	Required		connected to earth stud	00
27	Earth Stud	Required			00
28	Drainage Valve	Required			00
29	Pad lockable Cover	Required			00
30	Identification Label	Trafolite/ Stainless Steel	Laminated Plastic	for all label	01
31	**Side 'A'**				
32	Hubs Qty.	3	3		01
33	Size	M50	Ø 50.2 mm		01
34	Thread	ISO-M			00
35	Plug	No.2 M50	No.2 M50	nickel-plated brass	01
36	**Side 'B'**				
37	Hubs Qty.	Not Required			00
38	Size	NA			00
39	Thread	NA			00
40	**Side 'C'**				
41	Hubs Qty.	Not Required			00
42	Size	NA			00
43	Thread	NA			00
44	**Side 'D'**				
45	Hubs Qty.	Not Required			00
46	Size	NA			00
47	Thread	NA			00
48	**Terminals**				
49	Size [mm^2]	Suitable for 50 Sq.mm Cable	M50	suitable with wire-end ferrules DIN 46228	01
50	Qty.	n°4 for each Ph // n°4 for N // n°4 for PE	n°2 for Ph // n°2 for N // n°2 for PE	jumpered	01
51	**Bonding Cable (yellow/Green)**				
52	Size [mm^2]	by vendor		6 mm^2	01
53	Qty.	Min. 0.15m			00
54	**Dimension**				
55	Height 'H' [mm]	by vendor	120 mm		01
56	Width 'W' [mm]	by vendor	405 mm		01
57	Length 'L' [mm]	by vendor	400 mm		01
58	Weight [Kg]	by vendor			00
59	**Code**	**Remarks**			
60					
61					

NOTES:







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Its distribution is electronically controlled. Once printed shall be considered as "NOT CONTROLLED" copy

ITEM	Tag	ESW-200N2-01	: Welding Socket (Lower Deck)			Dwg	123A90-DDL-EL-DL-20119
	S/Sys	83-50	: Welding Sockets			Module	LD
TASK	code	C10001850		Location	Onshore Activities	User	Rosetti Marino Quality Control
FORM	Process	MC	Activity CCK	Discipline	Electrical	Form	CPX00 Miscellaneous Electrical Equipment

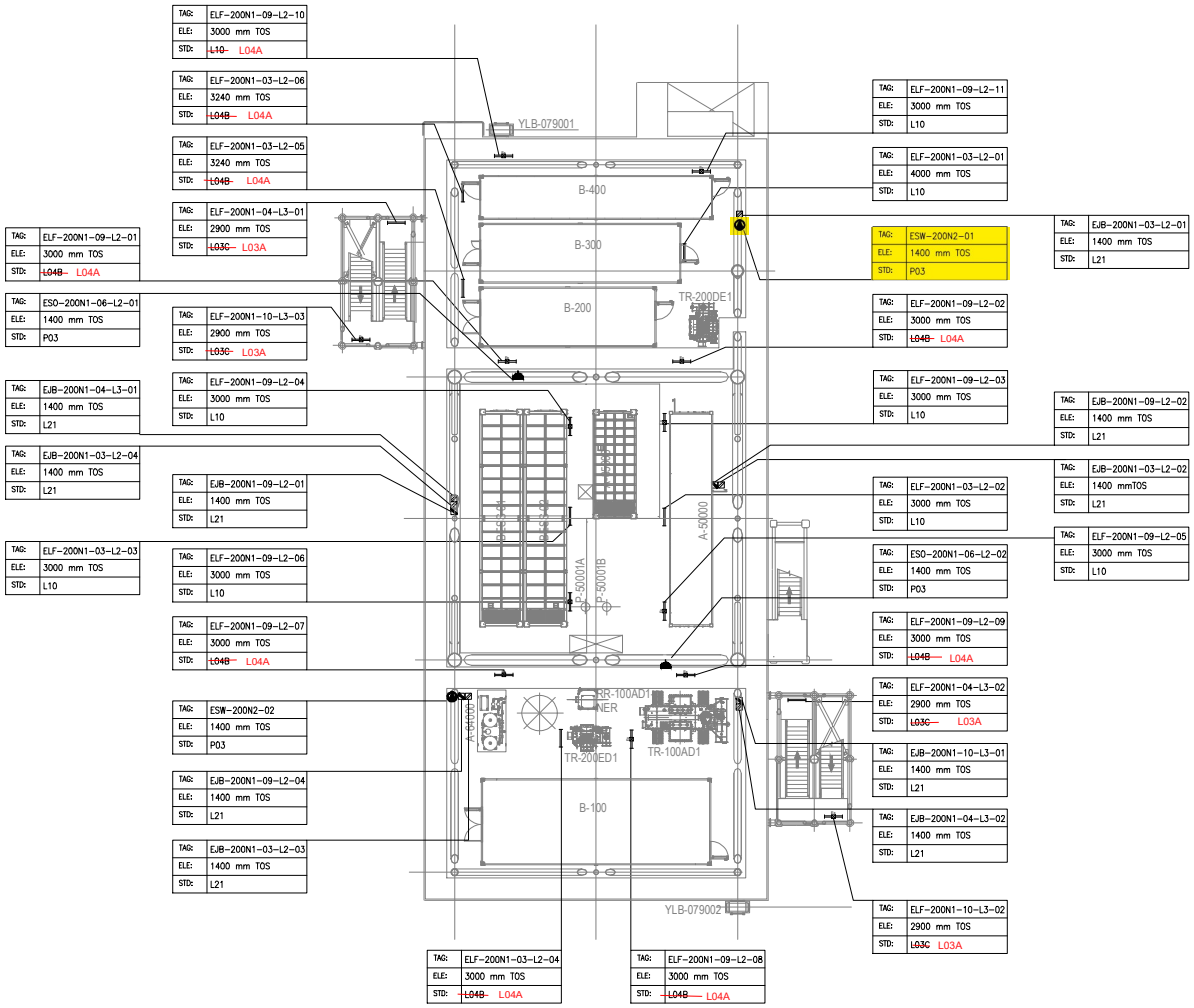
1	Check circuit is de-energized and safe.	OK
2	Check equipment is installed in accordance with layout drawing.	OK
3	Check equipment is undamaged and correcly tagged.	OK
4	Check nameplate data is correct.	OK
5	Check all bolts are fitted and all unused entries are suitably plugged.	OK
6	Check terminals for proper size and installation crimps	OK
7	Check earthing and bonding against drawings.	OK
8	Check items are properly fixed on support.	OK
9	If required produce Red Line Mark Up for "AS BUILT"	

Comments:

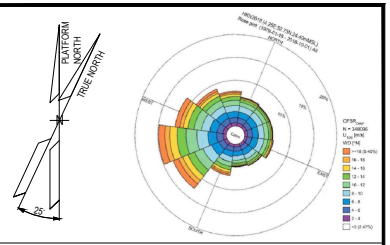
	Performed by	● WITNESS ☐ REVIEW	☐ WITNESS ☐ REVIEW
Company	ICS IMPIANTI	RM (ROSETTI MARINO)	
Name	Francesco Zucca	Luca Mussi	
Date	2024-12-10	2024-12-12	
Signature	PROVERLIS Digitaly signed by Francesco Zucca 2024-12-10T06:37:21.388Z	PROVERLIS Digitaly signed by Luca Mussi 2024-12-12T13:55:21.336Z	

DRAWING NO. 123A90-DDL-EL-DL-20119

REV. 01



PLAN ON LOWER DECK
EL+23.310 T.O.S



NOTES

1. ALL DIMENSIONS AND ELEVATIONS ARE GIVEN IN mm UNLESS OTHERWISE NOTED.
2. ELEVATIONS REFER TO T.O.S.
3. ELEVATION OF THE LAMPS ARE REFFERED TO THE BOTTOM OF THE LAMP.
4. FOR THE ELEVATION OF JB, REFER TO THE TYPICAL INSTALLATION.
5. SHEET 1 OF 2 SHOWS ONLY POLE MOUNTED TYPE LIGHTING FIXTURES, SHEET 2 OF 2 SHOWS ONLY SUSPENDED TYPE LIGHTING FIXTURES.

LEGEND

- EMERGENCY LIGHTING JB
- 60W LED EMERGENCY LUMINARIES
- 60W LED EMERGENCY LUMINARIES FIXTURE POLE MOUNTED
- NORMAL LIGHTING JB
- 45W LED NORMAL LUMINARIES
- 45W LED NORMAL LUMINARIES FIXTURE POLE MOUNTED
- WELDING SOCKET WITH INTEGRATED JB
- SMALL POWER SOCKET WITH INTEGRATED JB

JB TAG:	JB-TAG
TAG:	TAG
ELE:	ELEVATION
STD:	STANDARD

VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DL-20119**

REV.:	DATE:	SIGNATURE:
1_D	20/11/24	G.Randi

ROSETTI MARINO SpA

REFERENCE DOCUMENTS

123A90-DDL-PP-DL-70070	PLOT PLAN - LOWER & UPPER DECK
123A90-DDL-EL-DL-20101	ELECTRICAL EQUIPMENT LAYOUT - LOWER DECK
123A90-DDL-EL-DD-20091	ELECTRICAL TYPICAL INSTALLATION DETAILS - LIGHTING SYSTEM
123A90-DDL-EL-DD-20092	ELECTRICAL TYPICAL INSTALLATION DETAILS - POWER SYSTEM & CABLE INSTALLATION
123A90-DDL-EL-RE-20153	LIGHTING CALCULATION STUDY REPORT

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	06/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	29/05/24	ASR	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

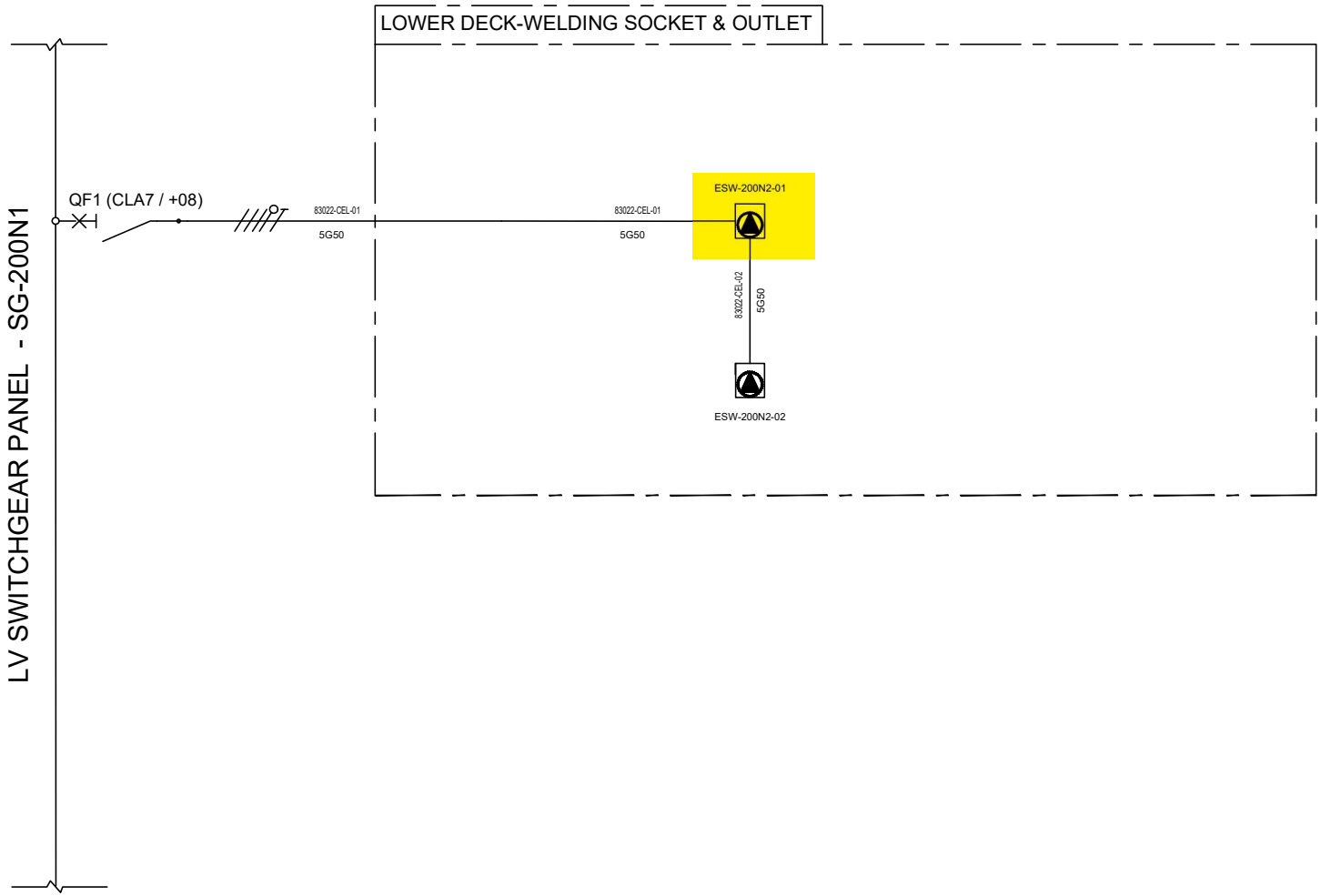
CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET LAYOUT – LOWER DECK

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK			SCALE 1:150
DRAWN ASR	CHECKED FMA/AMA	APPROVED FPA/DLO	DATE 06/08/24
A1	DRAWING NO. 123A90-DDL-EL-DL-20119	SHEET 2of2	REV. 01

File Name : 123A90-DDL-EL-DL-20119



VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DG-20125**

REV.:	DATE:	SIGNATURE:
2_B	20/11/24	G.Randi

ROSETTI MARINO SpA

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	08/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	01/07/24	ASR	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

TITLE : BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET CIRCUIT DIAGRAM
LOWER DECK-WELDING SOCKET

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK | SCALE : NTS

A3	DRAWING NO.	SHEET	REV.
	123A90-DDL-EL-DG-20125	009	01

CROSSWIND

ROSETTI MARINO

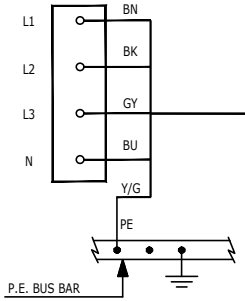
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File Name : 123A90-DDL-EL-DG-20125

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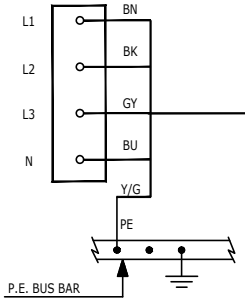
DESCRIPTION: LV Switchgear
TAG NUMBER: SG-200N1

COLUMN/CUBIC.: A6/+08



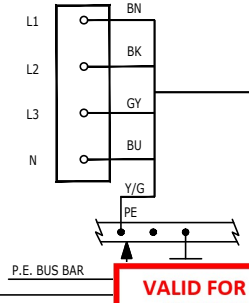
83021-CEL-01
5G50 mm²

COLUMN/CUBIC.: A7/+08



83022-CEL-01
5G50 mm²

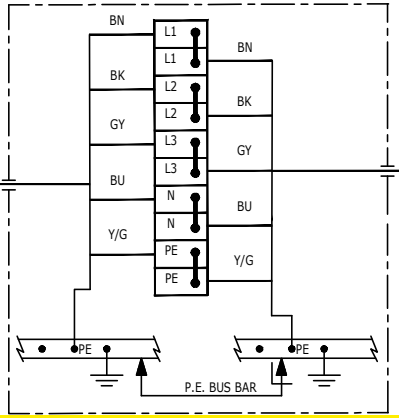
COLUMN/CUBIC.: A4/+02



83023-CEL
5G16 mm²

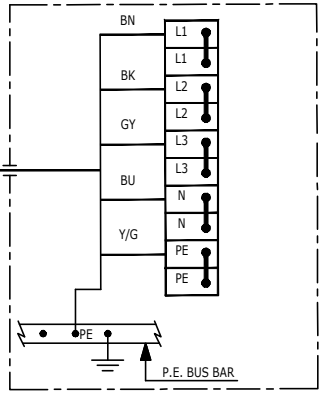
TO

DESCRIPTION: WELDING SOCKETS (TOP DECK)
TAG NUMBER: ESW-200N1-01

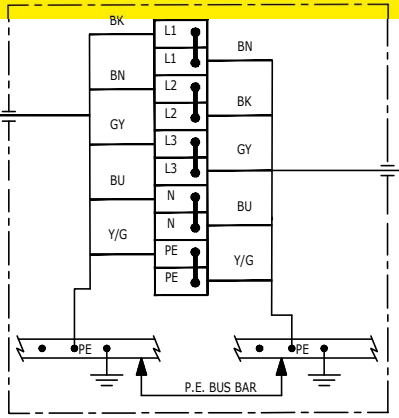


83021-CEL-02
5G50 mm²

TAG NUMBER: ESW-200N1-02

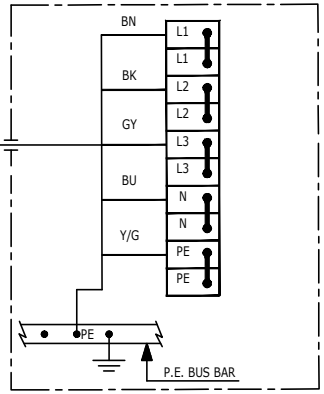


DESCRIPTION: WELDING SOCKET (LOWER DECK)
TAG NUMBER: ESW-200N2-01

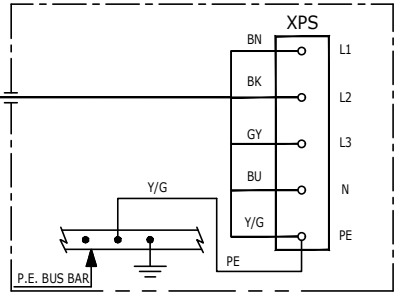


83022-CEL-02
5G50 mm²

TAG NUMBER: ESW-200N2-02



DESCRIPTION: HVAC PANELS - HV ROOM
TAG NUMBER: B100-HSB-001



VALID FOR CONSTRUCTION
FDL DWG: 123A90-FDL-EL-DG-20149
REV.: 2_C | DATE: 02/12/24 | SIGNATURE: G.Randi
ROSETTI MARINO SpA

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	19/11/24	SAI	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	16/10/24	SAI	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	08/07/24	SAI	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL INTERCONNECTING WIRING DIAGRAM
LV SWITCHGEAR SG-200N1

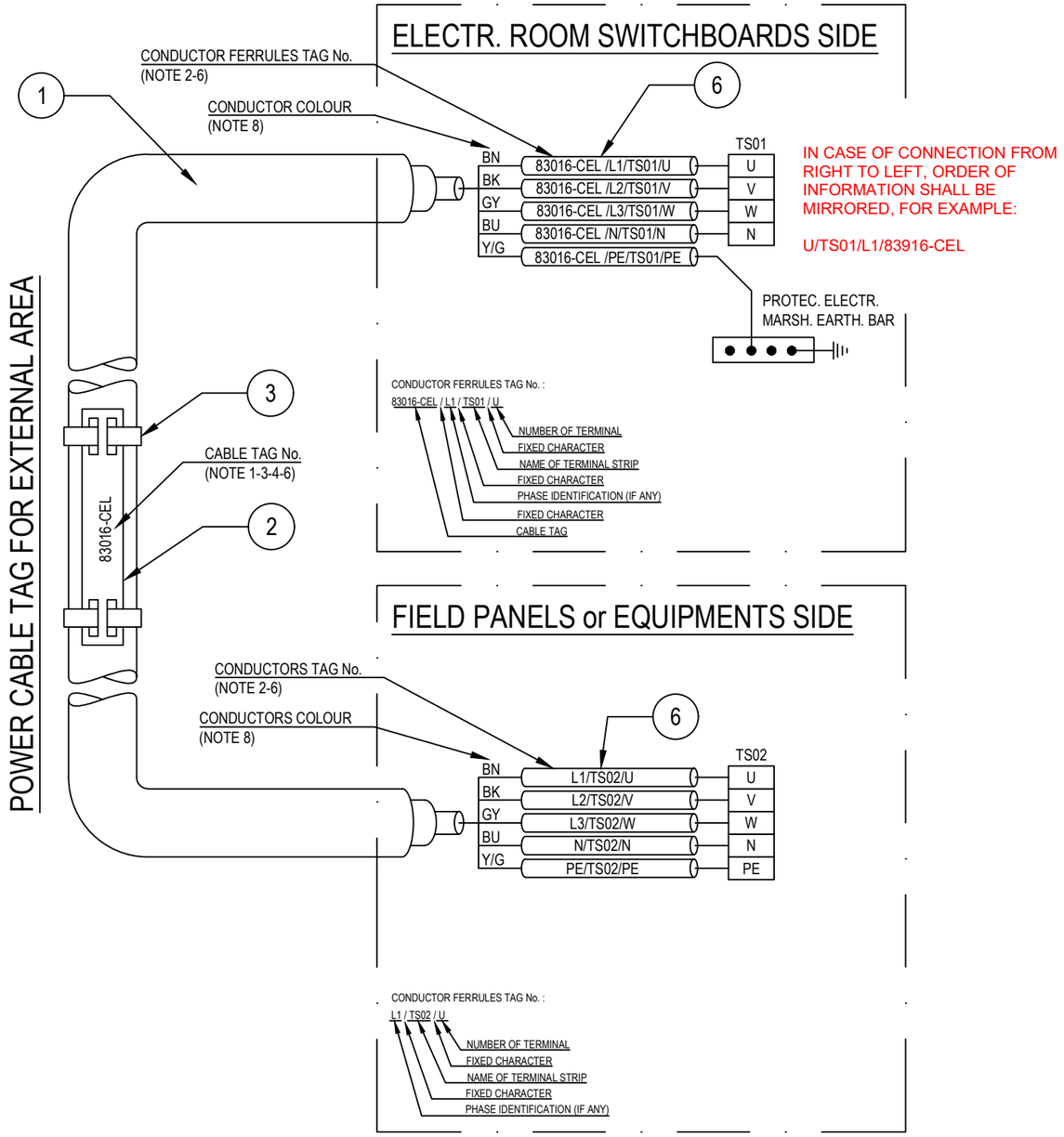
CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK | SCALE : 1:X

A3 | DRAWING NO. 123A90-DDL-EL-DG-20149 | SHEET 025 | REV. 02

F.to UNI A3: 420mmx297mm

File Name : 123A90-DDL-EL-DG-20149 Rev. 02

C02



POS.	DESCRIPTION	MATERIAL	SIZE	Q.TY	NOTE
1	UNARMOURED CABLE				
2	CABLE TAG FOR EXTERNAL AREA	HDG/SS			NOTE 1 NOTE 4
3	TIE FOR CABLE TAG IN EXTERNAL AREA	HDG/SS			
4	CABLE TAG FOR INTERNAL AREA	PVC			NOTE 1 NOTE 5
5	TIE FOR CABLE TAG IN INTERNAL AREA	NYLON 6.6			
6	CORE FERRULES	PVC			

NOTES:

1) ALL CABLES SHALL BE IDENTIFIED AT EACH TERMINATION AND EACH SIDE OF ANY OBSTACLE (E.G. CABLE TRANSIT ON WALLS INSIDE SHELTER AND FLOOR DECK CROSSING, BY THEIR RESPECTIVE TAGS/NUMBERS, AS INDICATED ON THE CABLE SCHEDULE.
CABLE IDENTIFICATION SHALL BE ALSO DONE BELOW AND IN THE SWITCHBOARD CABLE COMPARTMENT.

2) CABLE CORE FERRULES SHALL BE FITTED AT EVERY TERMINATION. THESE FERRULES SHALL BE OF ENGRAVED PLASTIC SLIP ON, INTERLOCKED AND SELF GRIP TYPE.

3) ON CABLE TRAYS OR LADDERS, CABLES SHALL BE IDENTIFIED AT EACH END, AND EVERY 25 METERS.

4) THE CABLE TAG FOR EXTERNAL AREA SHALL DONE BY 316L STAINLESS STEEL LABELS, TAG (H=5mm) SHALL BE LASER PRINTED PREFERABLY OR EMBOSSED, LABEL HELD BY TWO 316L STAINLESS STEEL TIES.

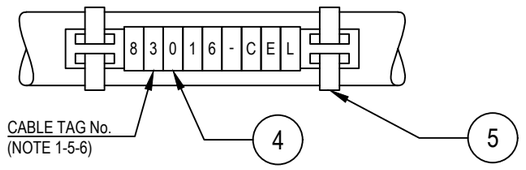
5) THE CABLE TAG FOR INTERNAL AREA SHALL BE DONE BY ENGRAVED PLASTIC SLIP ON CHARACTERS ONTO PLASTIC TIE, BLACK LETTER (H=5mm) ON WHITE.

6) CABLE AND CONDUCTOR TAG ARE INDICATIVE ONLY.

7) WITHIN TECHNICAL BUILDING, PROTECTIVE CONDUCTOR SHALL BE TAGGED BETWEEN FOLLOWING ITEMS:
- PANEL (SWITCHBOARD, SWITCHGEAR, DISTRIBUTION BOARD, ETC) AND EARTH BAR
- EARTH BAR AND EARTH BOSS

8) ONLY IF NECESSARY, SHRINK TUBES OF THE APPROPRIATE COLOR WILL BE INSTALLED TO COVER THE WRONG CONDUCTOR COLOR, THIS WILL BE PERFORMED IN EACH SIDE OF THE CABLES WHERE NECESSARY.

POWER CABLE TAG FOR INTERNAL AREA



VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DD-20092**

REV.:	DATE:	SIGNATURE:
2_B	28/11/24	G.Randi

ROSETTI MARINO SpA

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	28/08/24	GRA	AMA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	04/07/24	NLK	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	21/11/23	SPS	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL TYPICAL INSTALLATION DETAILS-POWER SYSTEM & CABLE INSTALLATION
CABLES INSTALLATION SYSTEM IDENTIFICATION FOR POWER CABLES

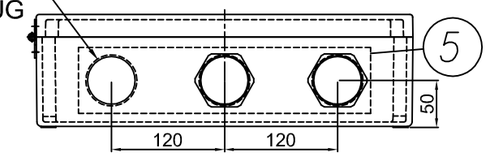
CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK | SCALE : NTS

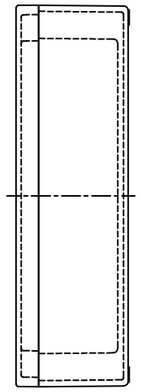
A3 | DRAWING NO. 123A90-DDL-EL-DD-20092 | SHEET 007 | REV. 02

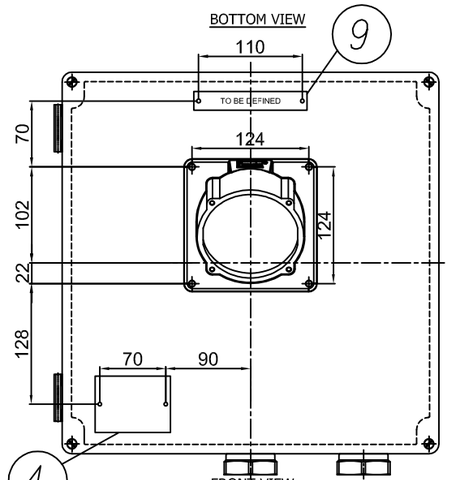
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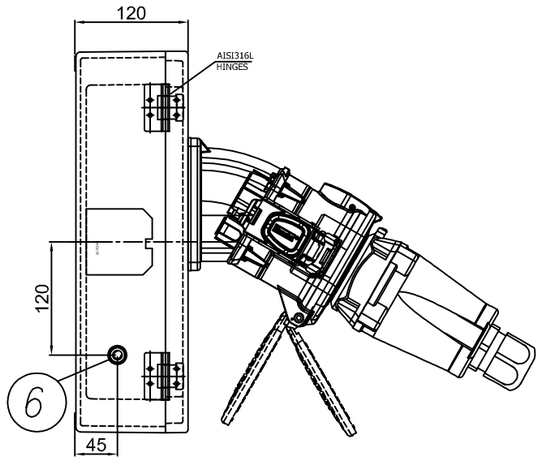
(8)(3) N°3 PASSING HOLES Ø50.2
C/W N°2 BNK PLUG M50 +
N°1 DUSTPROOF PVC PLUG




RIGHT VIEW



FRONT VIEW



LEFT VIEW

(4) I2400722-B040I00029802

TECHNOR ITALSMEA
A COMPANY OF MARECHAL ELECTRIC
Via Italia 33 - 20060 Gessate (MI) ITALY

CE

MADE IN ITALY

Serial Nr.:
Year of construction:

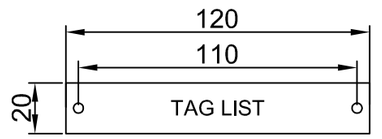
Type: MXBS-414012P

400VAC 50Hz 125A

T.amb -20/+50°C

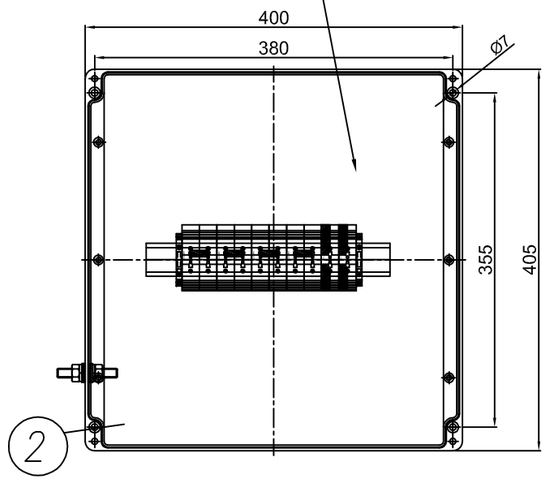
IP66

(9) PLATE DETAIL

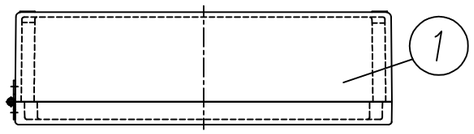


MATERIAL: LAMINATED PLASTIC
BACKGROUND: WHITE
LETTERS: BLACK

(7) TERMINALS NUMBERED
L1-L1,L2-L2,L3-L3,N-N,PE,PE
BRIDGED



INTERNAL VIEW



TOP VIEW

(10)

ENCLOSURE N°	TAG LIST
1	ESW-200N2-01
2	ESW-200N2-02
3	ESW-200N1-01
4	ESW-200N1-02

ITEM	DESCRIPTION	Pcs Q.TY	NOTE/MAT.	CODE	MANUFACTURER
10	DS9 SOCKET 3P+N+E 400VAC 125A	1	515M3+3194017 3198017+555P0D49	.	MARECHAL
9	LAMINATED PLASTIC TAG 120X20	1	–	.	TECHNOR ITALSMEA
8	DUSTPROOF PVC PLUG Ø50	1	–	.	TECHNOR ITALSMEA
7	BEIGE TERMINAL BLOCK SIZE 50 SQMM COMPACT EARTH TERMINAL BLOCK SIZE 50 SQMM COMPACT	8 2	WDU–50N WPE–50N	.	WEIDMULLER
6	AISI316L INT/EXT EARTH BOLT M10	1	BTP–10	.	TECHNOR ITALSMEA
5	BRASS CONTINUITY PLATE THK. 0.8 MM	1	–	.	TECHNOR ITALSMEA
4	AISI316L CERTIFICATE PLATE 80X60	1	–	.	TECHNOR ITALSMEA
3	NICKEL PLATED BRASS PLUG M50	2	T50	.	TECHNOR ITALSMEA
2	INTERNAL MOUNTING PLATE	1	PS–4140	.	TECHNOR ITALSMEA
1	GRP ENCLOSURE	1	AQ–414012P	.	TECHNOR ITALSMEA

-UNPAINTED (BLACK NATURAL)
Q.TY 4, ITEM 60: 1EQP155,
ELEJB-SOCK02

Explosion Proof
Electrical Equipment
Materiali Elettrici Antideflagranti

TECHNOR ITALSMEA
A COMPANY OF MARECHAL ELECTRIC

CROSSWIND

ROSETTI MARINO

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	12/09/24	FB	OB	OB	ACCEPTED FOR CONSTRUCTION (AFC)
01	03/09/24	FB	OB	OB	ACCEPTED FOR CONSTRUCTION (AFC)
00	30/07/24	FB	OB	OB	ISSUE FOR REVIEW (IFR)

TITLE : BASE LOAD POWER HUB (BLPH)

Junction Box with 125A Welding Socket

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE : NTS

A3

DRAWING NO. 1724001481-EL-DA-00003

SHEET 010

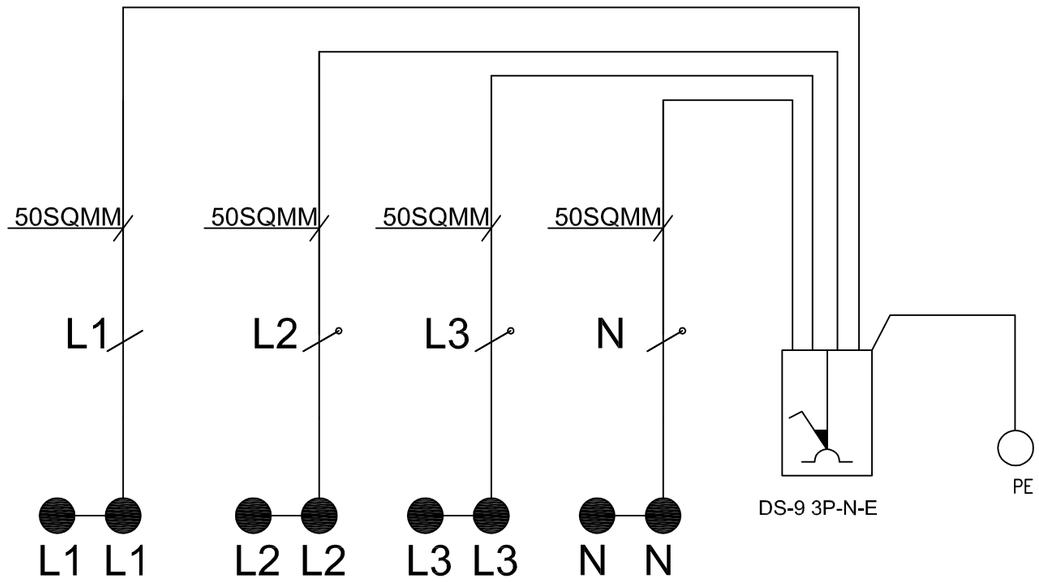
REV. 02

F.to UNI A3: 420mmx297mm

File Name : 1724001481-EL-DA-00003 Rev. 01

CABLES TRI-RATED 0,6/1kV
COLOR CODE:
-L1=BLACK
-L2=GREY
-L3=BROWN
-N=BLUE

400Vac 3Ph+N+PE



LEGEND

- TERMINAL
- BRIDGED TERMINALS
- SOCKET
- CABLE

			01	02	03	04	05	06	07	08	09
DESCRIPTION			.			. .	DS9 SOCKET 3P+N+E 125A	. .	. .	. .	. .
CIRCUIT N°			.	.	.	.	.	.	.	.	.
FEEDER	TYPE					.	.	.	.	.	.
	CODE		.	.	.	.	.	.	.	.	.
TOTAL POWER		kW	.	.	.	.	.	.	.	.	.
CONTEMPORANEITY FACTOR			.	.	.	.	.	.	.	.	.
ABSORBED POWER		kW	.	.	.	.	.	.	.	.	.
ABSORBED CURRENT		A	.	.	.	.	.	.	.	.	.
CIRCUIT BREAKER or ON–LOAD SWITCH	TYPE					.	.	.	.	.	.
	POLES NUMBER x CURRENT					.	.	.	.	.	.
FUSES	TYPE		.	.	.	.	.	.	.	.	.
	RATING	A	.	.	.	.	.	.	.	.	.
CONTACTOR	MANUFACTURER		.	.	.	.	.	.	.	.	.
	MODEL		.	.	.	.	.	.	.	.	.
	POLES NUMBER x CURRENT		.	.	.	.	.	.	.	.	.
	NOMINAL POWER	kW	.	.	.	.	.	.	.	.	.
EARTH LEAKAGE	TYPE			.	.	.	.	.	.	.	.
	NOMINAL RANGE	mA		.	.	.	.	.	.	.	.
POWER LINE DATA	CABLE TYPE		.	.	.	.	.	.	.	.	.
	FORMATION / SIZE		.	.	.	.	.	.	.	.	.
	LENGHT	m	.	.	.	.	.	.	.	.	.
	VOLTAGE DROP	%	.	.	.	.	.	.	.	.	.
TERMINALS	SECTION	sqmm	2XWDU–50N	2XWDU–50N	2XWDU–50N	2XWDU–50N	.	2XWPE–50N	.	.	.
	MARKING	–X	L1–L1	L2–L2	L3–L3	N–N	.	PE–PE	.	.	.

Explosion Proof
Electrical Equipment
Materiali Elettrici Antideflagranti

TECHNOR ITALSMEA
A COMPANY OF MARECHAL ELECTRIC

CROSSWIND

ROSETTI MARINO

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	12/09/24	FB	OB	OB	ACCEPTED FOR CONSTRUCTION (AFC)
01	03/09/24	FB	OB	OB	ACCEPTED FOR CONSTRUCTION (AFC)
00	30/07/24	FB	OB	OB	ISSUE FOR REVIEW (IFR)

TITLE : BASE LOAD POWER HUB (BLPH)

Junction Box with 125A Welding Socket–Wiring Diagram

CONTRACT NO./TITLE CW–I–WP4–2023–05/HOLLANDSE KUST NOORD WIND PARK

SCALE : NTS

A3

DRAWING NO. 1724001481–EL–DA–00003

SHEET 011

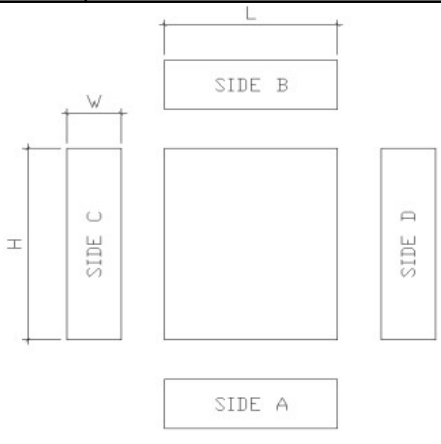
REV. 02

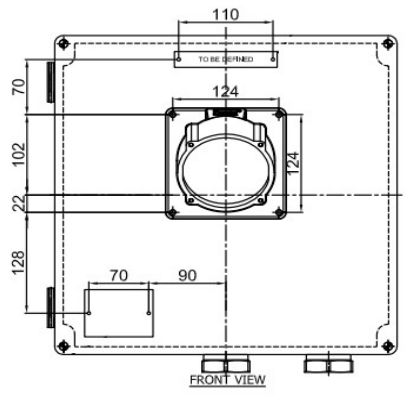
F.to UNI A3: 420mmx297mm

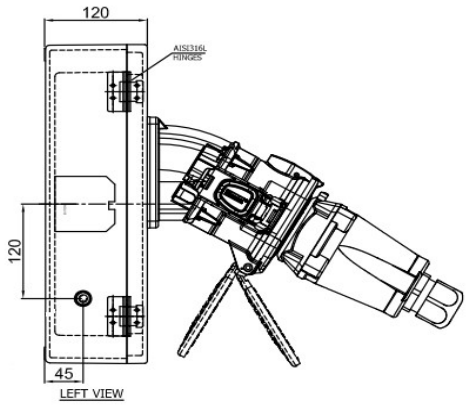
File Name : 1724001481–EL–DA–00003 Rev. 01

Row	Data Sheet for Control Stations, Junction Boxes and Sockets				Rev.
1	125A Welding Socket and Plug with Integrated JB				01
2	Item	Required	Manufacturer Proposal	Comments	
3	Model Number	by Vendor	MXSB-414012P		01
4	Serial Number	by Vendor			00
5	Quantity	4		(4+0 Spare)	01
6	Application	Welding Socket			00
7	Safe Area/Hazardous Area	Safe Area			00
8	**Rating**				
9	Current Rating [A]	125A	125A		01
10	Poles	3ph+N+PE	3ph+N+PE		01
11	Voltage [V]	400	400 V ac		01
12	**Material**				
13	Body	GRP	GRP		01
14	Execution	Normal			00
15	Protection Degree	IP56	IP 66		01
16	Temperature Class	Normal			00
17	**Cable Entry**				
18	Thread	Metric			00
19	Cable Gland Size/Qty.	M50/3	M50/3		01
17	**Interlocked Switching Device**				
18	Interlocked Switching device	Required			00
19	Padlocakable Position	Required			00
20	Plug	Required			00
21	**Accessories**				
22	Hinged Cover	Required	AISI316L Hinges		01
23	Gasket	Required			00
24	Removable Gland Plates	Required	Brass Continuity plate 0.8mm thick		01
25	Internal Mounting Plate	Thickness 3mm threaded		connected to Internal ground bar	00
26	Internal Ground Bar	Required		connected to earth stud	00
27	Earth Stud	Required			00
28	Drainage Valve	Required			00
29	Pad lockable Cover	Required			00
30	Identification Label	Trafolite/ Stainless Steel	Laminated Plastic	for all label	01
31	**Side 'A'**				
32	Hubs Qty.	3	3		01
33	Size	M50	Ø 50.2 mm		01
34	Thread	ISO-M			00
35	Plug	No.2 M50	No.2 M50	nickel-plated brass	01
36	**Side 'B'**				
37	Hubs Qty.	Not Required			00
38	Size	NA			00
39	Thread	NA			00
40	**Side 'C'**				
41	Hubs Qty.	Not Required			00
42	Size	NA			00
43	Thread	NA			00
44	**Side 'D'**				
45	Hubs Qty.	Not Required			00
46	Size	NA			00
47	Thread	NA			00
48	**Terminals**				
49	Size [mm^2]	Suitable for 50 Sq.mm Cable	M50	suitable with wire-end ferrules DIN 46228	01
50	Qty.	n°4 for each Ph // n°4 for N // n°4 for PE	n°2 for Ph // n°2 for N // n°2 for PE	jumpered	01
51	**Bonding Cable (yellow/Green)**				
52	Size [mm^2]	by vendor		6 mm^2	01
53	Qty.	Min. 0.15m			00
54	**Dimension**				
55	Height 'H' [mm]	by vendor	120 mm		01
56	Width 'W' [mm]	by vendor	405 mm		01
57	Length 'L' [mm]	by vendor	400 mm		01
58	Weight [Kg]	by vendor			00
59	**Code**	**Remarks**			
60					
61					

NOTES:

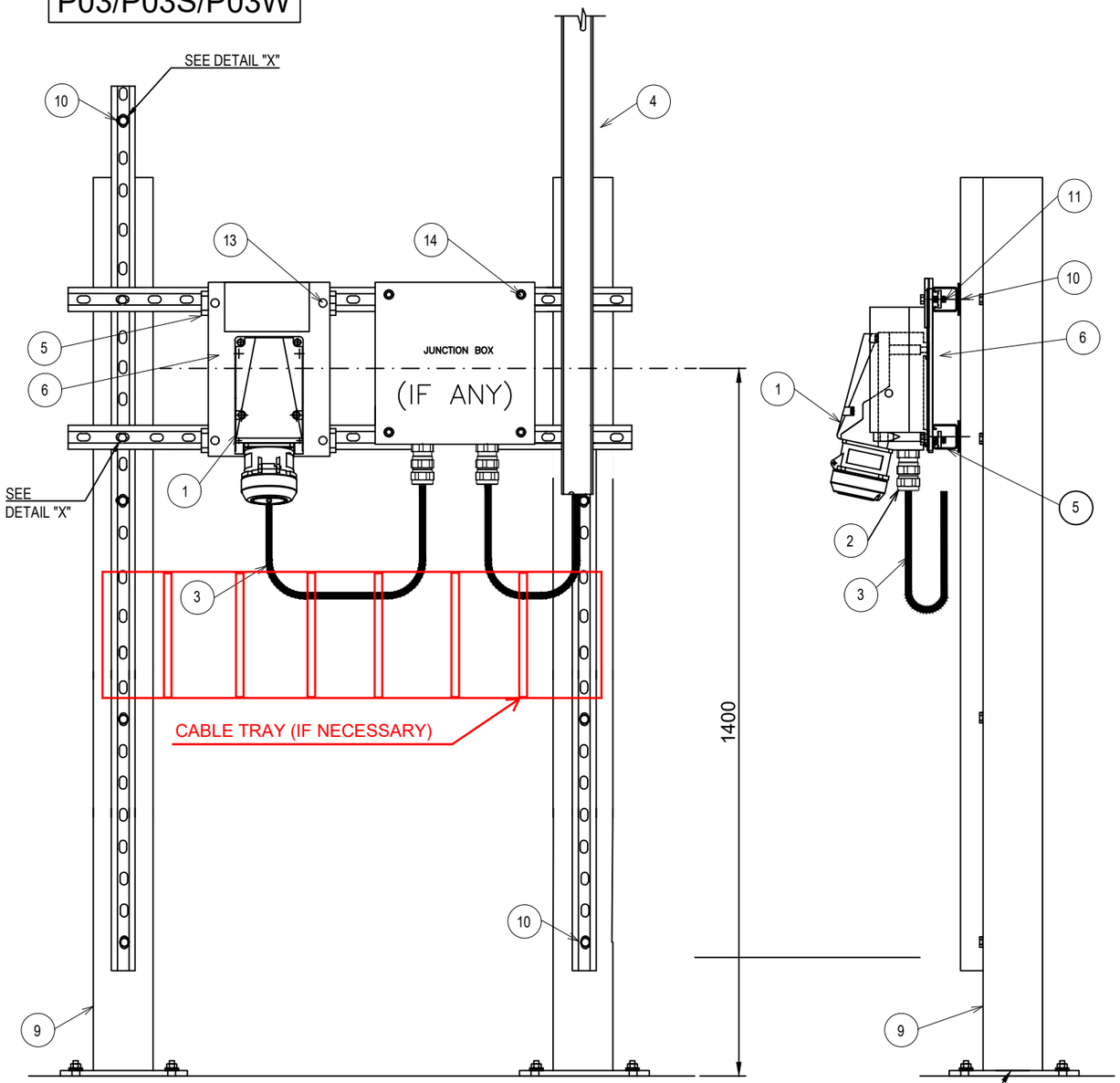






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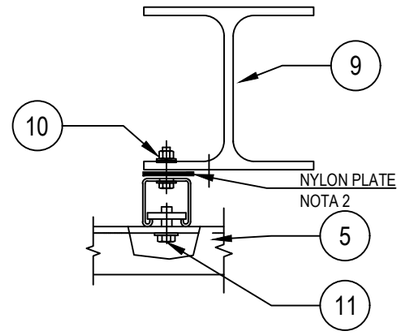
P03/P03S/P03W



POS.	DESCRIPTION	MATERIAL	SIZE	Q.TY	NOTE
1	POWER SOCKET			1	
2	SINGLE SEAL CABLE GLAND FOR UNARMOURED CABLE	NICK.PL.BRASS		3	NOTE 3
3	UNARMOURED CABLE				
4	CABLE LADDER WITH COVER	AISI 316L			
5	SINGLE U-CHANNEL PERFORATED ON NO.3 SIDE	AISI 316L	41x41x2	AS R.	NOTE 1
6	PLATE SUPPORT FOR POWER SOCKET	AISI 316L		1	
9	PROFILE SUPPORT	PAINTED C.S.		2	
10	HEXAGONAL BOLT WITH NYLON WASHER, PLANE WASHERS, GROWER AND NUT.	AISI 316L	M10x40	AS R.	
11	HEXAGONAL BOLT WITH PLANE WASHER AND NUT FOR U-CHANNEL WITH SPRING.	AISI 316L	M12x30	AS R.	
12	DOUBLE SLOT CROWNED HEAD SCREW WITH NUT FOR U-CHANNEL WITH SPRING.	AISI 316L	M6x20	AS R.	
13	HEXAGONAL BOLT WITH PALNE WASHER AND NUT FOR U-CHANNEL WITH SPRING	AISI 316L	M8x30	4	
14	SCREW WITH PLANE WASHER AND NUT FOR U-CHANNEL WITH SPRING	AISI 316L	M6x40	4	

02

DETAIL "X"



NOTE :
1) THE EXACT DIMENSIONS WILL BE DEFINED DURING ASSEMBLY FASE.
2) INTERPOSING TEFLON OR NYLON PLATE BETWEEN DISSIMILAR CONDUCTIIN MATERIAL.
3) CABLE GLAND COMPLETE WITH LOCKNUT, NYLON WASHER, SERRATED WASHER, EXTERNAL RUBBER RING AND EARTH TAG (IF NECESSARY).

02 SUPPORT BOLTED ON HILTI S-BT INSTALLED ON BEAM OR DECK

VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DD-20092**

REV.:	DATE:	SIGNATURE:
2_D	20/12/24	V.Ramponi

ROSETTI MARINO SpA

CROSSWIND

ROSETTI MARINO

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	28/08/24	GRA	AMA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	04/07/24	NLK	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	21/11/23	SPS	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL TYPICAL INSTALLATION DETAILS-POWER SYSTEM & CABLE INSTALLATION
POWER TYPICAL DETAILS POWER SOCKET FLOOR MOUNTED

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK | SCALE : NTS

A3 | DRAWING NO. 123A90-DDL-EL-DD-20092 | SHEET 004 | REV. 02

F.to UNI A3: 420mmx297mm

File Name : 123A90-DDL-EL-DD-20092 REV.02.DWG

ITEM	Tag	ESW-200N2-02	: Welding Socket (Lower Deck)		Dwg	123A90-DDL-EL-DL-20119	
	S/Sys	83-50	: Welding Sockets		Module	LD	
TASK	code	C10001851	Location	Onshore Activities	User	Rosetti Marino Quality Control	
FORM	Process	MC	Activity CCK	Discipline Electrical	Form	CPX00	Miscellaneous Electrical Equipment

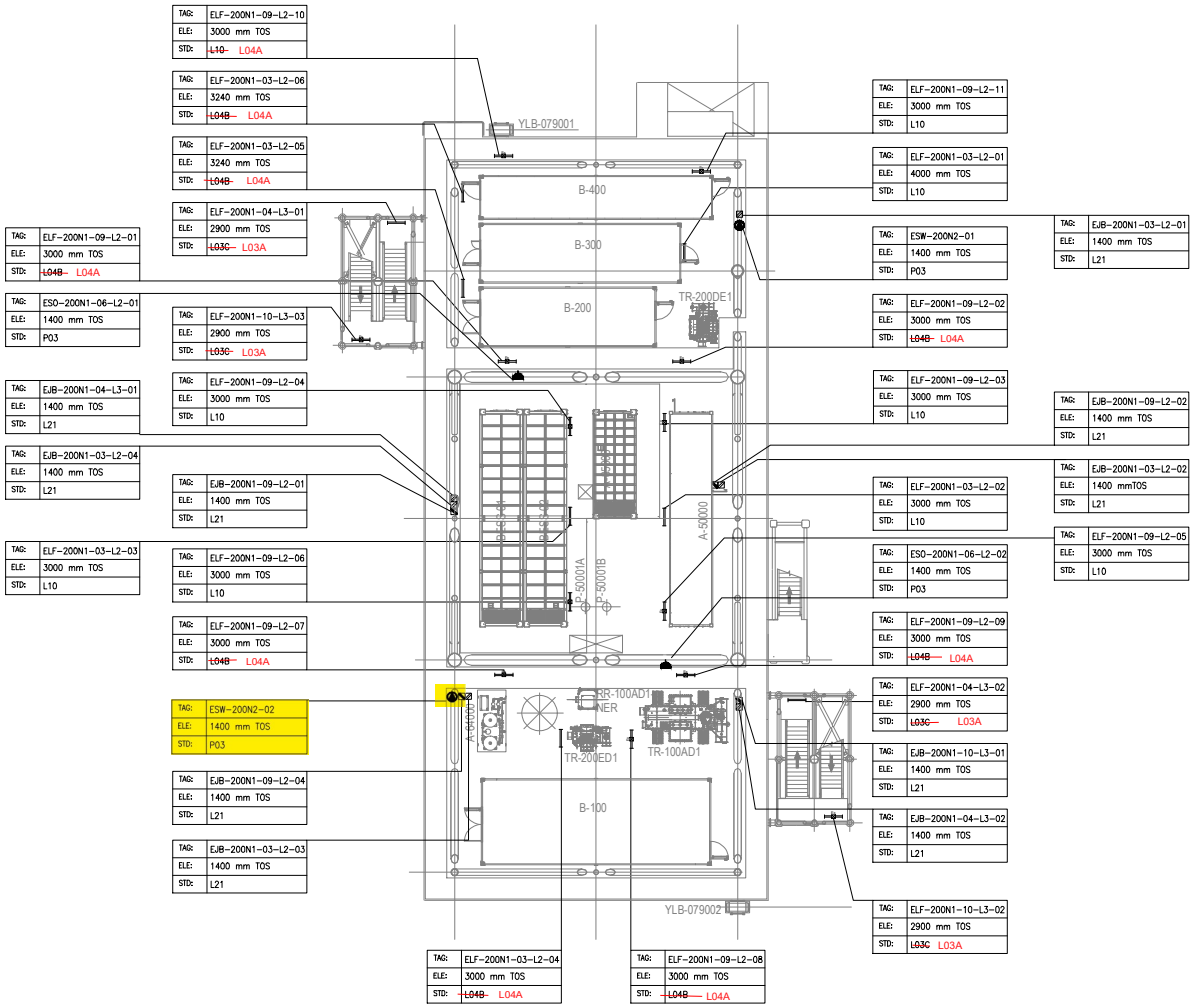
1	Check circuit is de-energized and safe.	OK
2	Check equipment is installed in accordance with layout drawing.	OK
3	Check equipment is undamaged and correcly tagged.	OK
4	Check nameplate data is correct.	OK
5	Check all bolts are fitted and all unused entries are suitably plugged.	OK
6	Check terminals for proper size and installation crimps	OK
7	Check earthing and bonding against drawings.	OK
8	Check items are properly fixed on support.	OK
9	If required produce Red Line Mark Up for "AS BUILT"	

Comments:

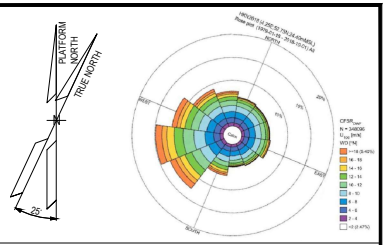
	Performed by	● WITNESS ☐ REVIEW	☐ WITNESS ☐ REVIEW
Company	ICS IMPIANTI	RM (ROSETTI MARINO)	
Name	Francesco Zucca	Luca Mussi	
Date	2024-12-10	2024-12-12	
Signature	PROVERLIS Digitaly signed by Francesco Zucca 2024-12-10T06:37:34.178Z	PROVERLIS Digitaly signed by Luca Mussi 2024-12-12T15:51:21.702Z	

DRAWING NO. 123A90-DDL-EL-DL-20119

REV. 01



PLAN ON LOWER DECK
EL+23.310 T.O.S



NOTES

1. ALL DIMENSIONS AND ELEVATIONS ARE GIVEN IN mm UNLESS OTHERWISE NOTED.
2. ELEVATIONS REFER TO T.O.S.
3. ELEVATION OF THE LAMPS ARE REFFERED TO THE BOTTOM OF THE LAMP.
4. FOR THE ELEVATION OF JB, REFER TO THE TYPICAL INSTALLATION.
5. SHEET 1 OF 2 SHOWS ONLY POLE MOUNTED TYPE LIGHTING FIXTURES, SHEET 2 OF 2 SHOWS ONLY SUSPENDED TYPE LIGHTING FIXTURES.

LEGEND

- EMERGENCY LIGHTING JB
- 60W LED EMERGENCY LUMINARIES
- 60W LED EMERGENCY LUMINARIES FIXTURE POLE MOUNTED
- NORMAL LIGHTING JB
- 45W LED NORMAL LUMINARIES
- 45W LED NORMAL LUMINARIES FIXTURE POLE MOUNTED
- WELDING SOCKET WITH INTEGRATED JB
- SMALL POWER SOCKET WITH INTEGRATED JB

JB TAG:	JB-TAG
TAG:	TAG
ELE:	ELEVATION
STD:	STANDARD

VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DL-20119**

REV.:	DATE:	SIGNATURE:
1_D	20/11/24	G.Randi

ROSETTI MARINO SpA

REFERENCE DOCUMENTS

123A90-DDL-PP-DL-70070	PLOT PLAN - LOWER & UPPER DECK
123A90-DDL-EL-DL-20101	ELECTRICAL EQUIPMENT LAYOUT - LOWER DECK
123A90-DDL-EL-DD-20091	ELECTRICAL TYPICAL INSTALLATION DETAILS - LIGHTING SYSTEM
123A90-DDL-EL-DD-20092	ELECTRICAL TYPICAL INSTALLATION DETAILS - POWER SYSTEM & CABLE INSTALLATION
123A90-DDL-EL-RE-20153	LIGHTING CALCULATION STUDY REPORT

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	06/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	29/05/24	ASR	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

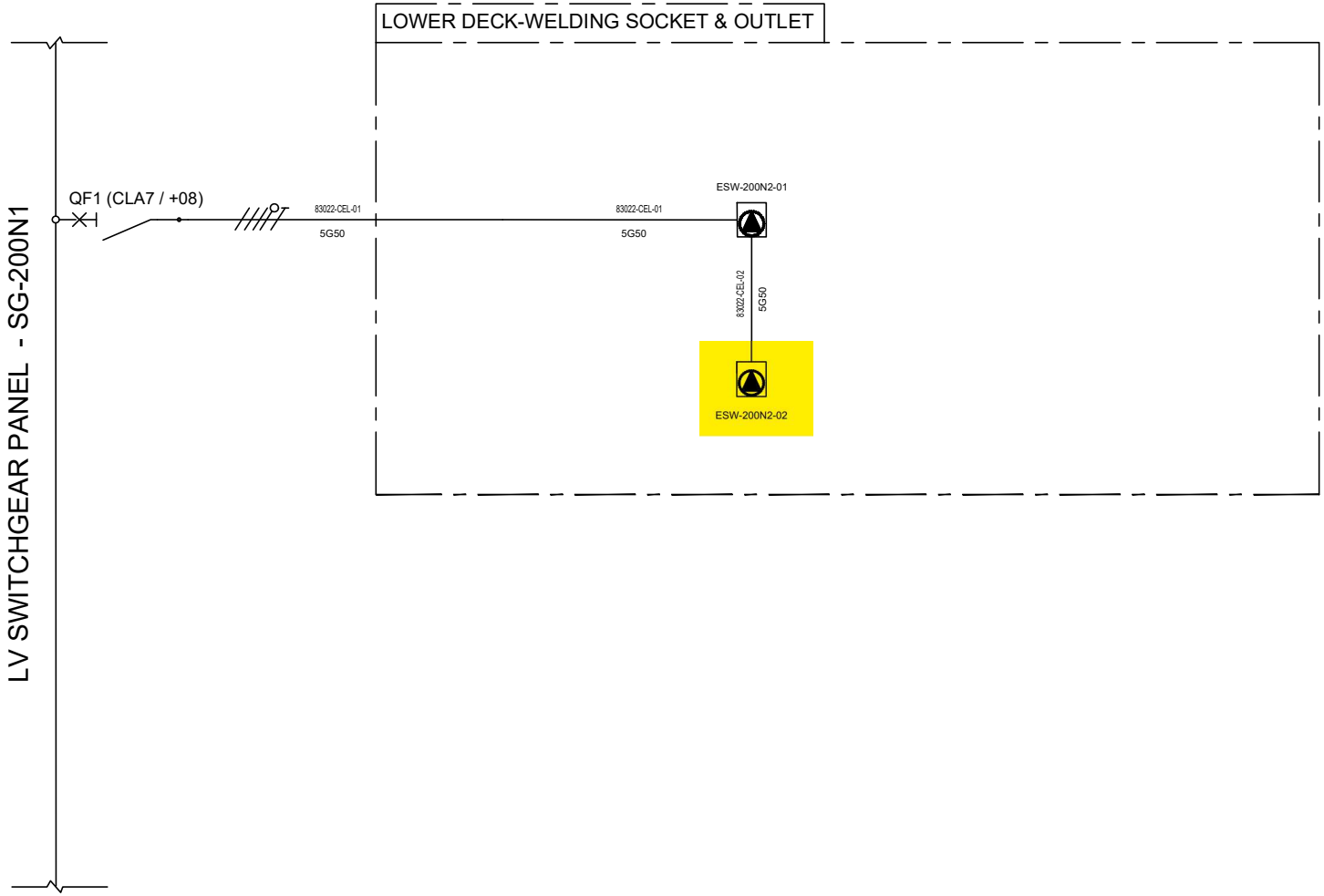
CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET LAYOUT – LOWER DECK

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK			SCALE 1:150
DRAWN ASR	CHECKED FMA/AMA	APPROVED FPA/DLO	DATE 06/08/24
A1	DRAWING NO. 123A90-DDL-EL-DL-20119	SHEET 2of2	REV. 01

File Name : 123A90-DDL-EL-DL-20119



VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DG-20125**

REV.:	DATE:	SIGNATURE:
2_B	20/11/24	G.Randi

ROSETTI MARINO SpA

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	08/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	01/07/24	ASR	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

TITLE : BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET CIRCUIT DIAGRAM
LOWER DECK-WELDING SOCKET

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE : NTS

A3

DRAWING NO. 123A90-DDL-EL-DG-20125

SHEET 009

REV. 01

CROSSWIND

ROSETTI MARINO

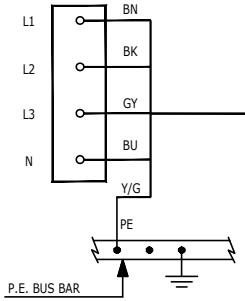
F.to UNI A3: 420mmx297mm

File Name : 123A90-DDL-EL-DG-20125

FROM

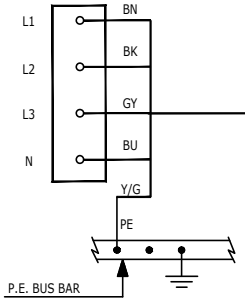
DESCRIPTION: LV Switchgear
TAG NUMBER: SG-200N1

COLUMN/CUBIC.: A6/+08



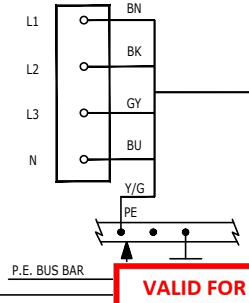
83021-CEL-01
5G50 mm²

COLUMN/CUBIC.: A7/+08



83022-CEL-01
5G50 mm²

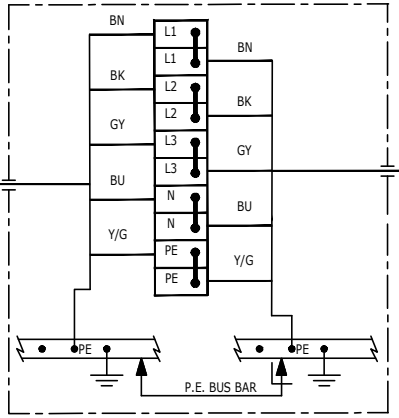
COLUMN/CUBIC.: A4/+02



83023-CEL
5G16 mm²

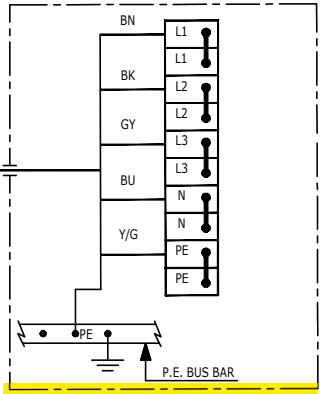
TO

DESCRIPTION: WELDING SOCKETS (TOP DECK)
TAG NUMBER: ESW-200N1-01

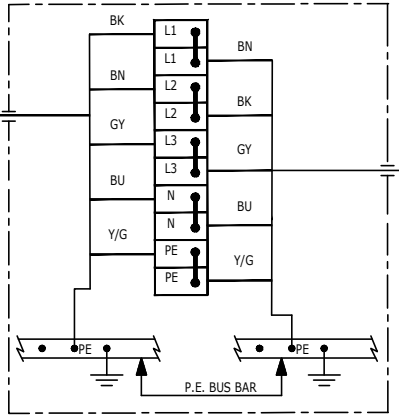


83021-CEL-02
5G50 mm²

TAG NUMBER: ESW-200N1-02

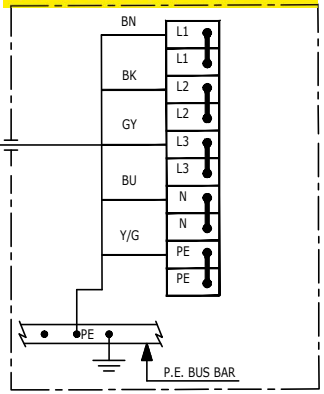


DESCRIPTION: WELDING SOCKET (LOWER DECK)
TAG NUMBER: ESW-200N2-01

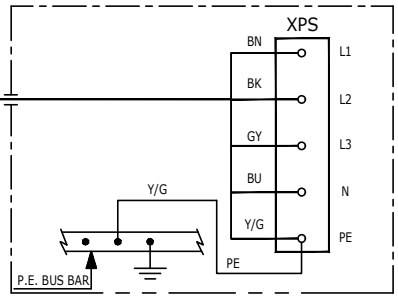


83022-CEL-02
5G50 mm²

TAG NUMBER: ESW-200N2-02



DESCRIPTION: HVAC PANELS - HV ROOM
TAG NUMBER: B100-HSB-001



VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DG-20149**

REV.:	DATE:	SIGNATURE:
2_C	02/12/24	G.Randi

ROSETTI MARINO SpA

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	19/11/24	SAI	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	16/10/24	SAI	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	08/07/24	SAI	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL INTERCONNECTING WIRING DIAGRAM
LV SWITCHGEAR SG-200N1

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE : 1:X

A3

DRAWING NO. 123A90-DDL-EL-DG-20149

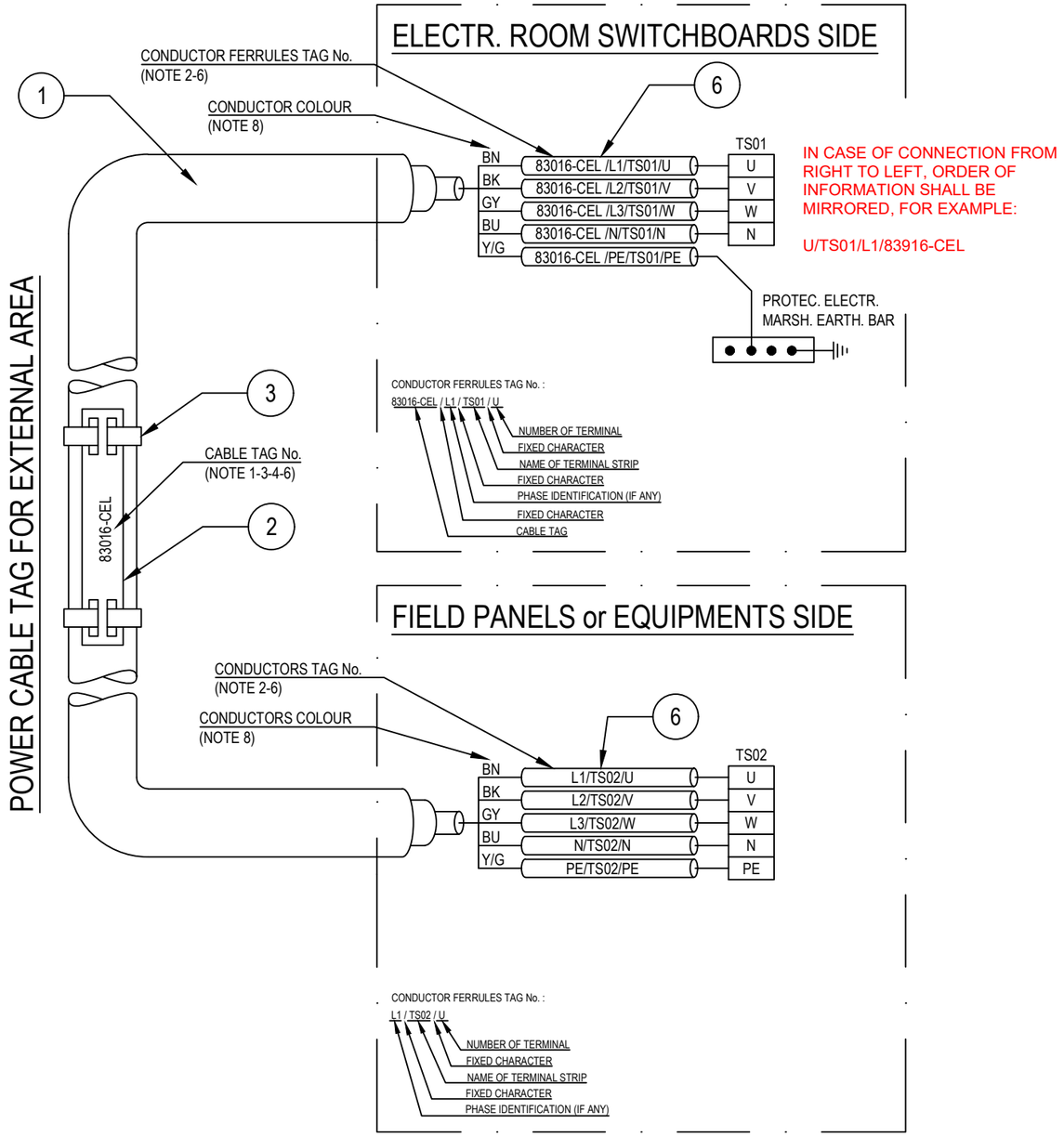
SHEET 025

REV. 02

F.to UNI A3: 420mmx297mm

File Name : 123A90-DDL-EL-DG-20149 Rev. 02

C02



POS.	DESCRIPTION	MATERIAL	SIZE	Q.TY	NOTE
1	UNARMOURED CABLE				
2	CABLE TAG FOR EXTERNAL AREA	HDG/SS			NOTE 1 NOTE 4
3	TIE FOR CABLE TAG IN EXTERNAL AREA	HDG/SS			
4	CABLE TAG FOR INTERNAL AREA	PVC			NOTE 1 NOTE 5
5	TIE FOR CABLE TAG IN INTERNAL AREA	NYLON 6.6			
6	CORE FERRULES	PVC			

NOTES:

1) ALL CABLES SHALL BE IDENTIFIED AT EACH TERMINATION AND EACH SIDE OF ANY OBSTACLE (E.G. CABLE TRANSIT ON WALLS INSIDE SHELTER AND FLOOR DECK CROSSING, BY THEIR RESPECTIVE TAGS/NUMBERS, AS INDICATED ON THE CABLE SCHEDULE.
CABLE IDENTIFICATION SHALL BE ALSO DONE BELOW AND IN THE SWITCHBOARD CABLE COMPARTMENT.

2) CABLE CORE FERRULES SHALL BE FITTED AT EVERY TERMINATION. THESE FERRULES SHALL BE OF ENGRAVED PLASTIC SLIP ON, INTERLOCKED AND SELF GRIP TYPE.

3) ON CABLE TRAYS OR LADDERS, CABLES SHALL BE IDENTIFIED AT EACH END, AND EVERY 25 METERS.

4) THE CABLE TAG FOR EXTERNAL AREA SHALL DONE BY 316L STAINLESS STEEL LABELS, TAG (H=5mm) SHALL BE LASER PRINTED PREFERABLY OR EMBOSSED, LABEL HELD BY TWO 316L STAINLESS STEEL TIES.

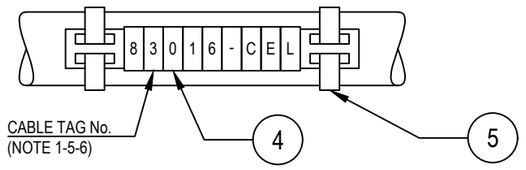
5) THE CABLE TAG FOR INTERNAL AREA SHALL BE DONE BY ENGRAVED PLASTIC SLIP ON CHARACTERS ONTO PLASTIC TIE, BLACK LETTER (H=5mm) ON WHITE.

6) CABLE AND CONDUCTOR TAG ARE INDICATIVE ONLY.

7) WITHIN TECHNICAL BUILDING, PROTECTIVE CONDUCTOR SHALL BE TAGGED BETWEEN FOLLOWING ITEMS:
- PANEL (SWITCHBOARD, SWITCHGEAR, DISTRIBUTION BOARD, ETC) AND EARTH BAR
- EARTH BAR AND EARTH BOSS

8) ONLY IF NECESSARY, SHRINK TUBES OF THE APPROPRIATE COLOR WILL BE INSTALLED TO COVER THE WRONG CONDUCTOR COLOR, THIS WILL BE PERFORMED IN EACH SIDE OF THE CABLES WHERE NECESSARY.

POWER CABLE TAG FOR INTERNAL AREA



VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DD-20092**

REV.:	DATE:	SIGNATURE:
2_B	28/11/24	G.Randi

ROSETTI MARINO SpA

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	28/08/24	GRA	AMA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	04/07/24	NLK	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	21/11/23	SPS	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL TYPICAL INSTALLATION DETAILS-POWER SYSTEM & CABLE INSTALLATION
CABLES INSTALLATION SYSTEM IDENTIFICATION FOR POWER CABLES

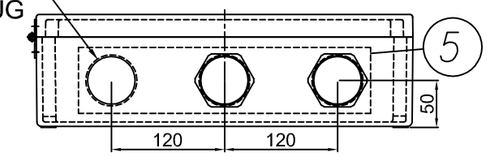
CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK | SCALE : NTS

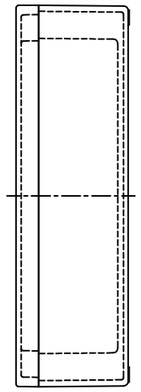
A3 | DRAWING NO. 123A90-DDL-EL-DD-20092 | SHEET 007 | REV. 02

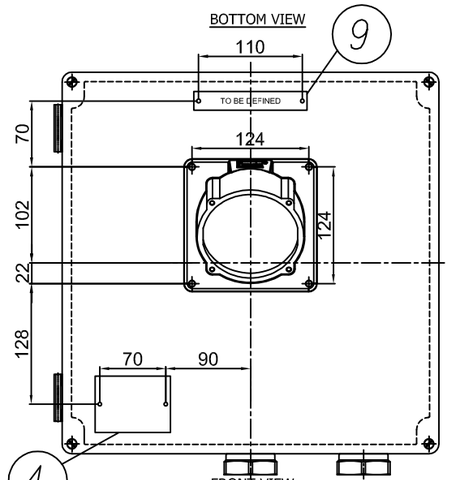
F.to UNI A3: 420mmx297mm

File Name : 123A90-DDL-EL-DD-20092 REV.02.DWG

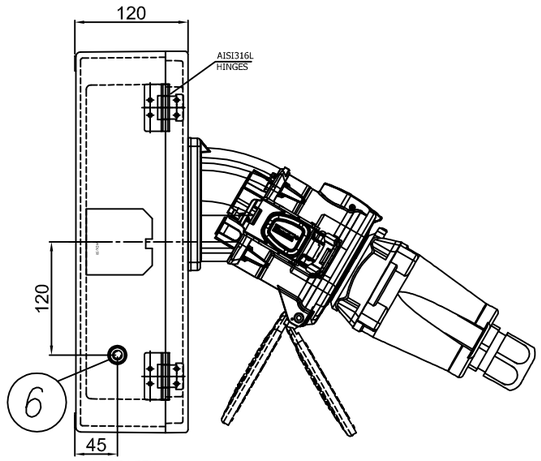
(8)(3) N°3 PASSING HOLES Ø50.2
C/W N°2 BNK PLUG M50 +
N°1 DUSTPROOF PVC PLUG




RIGHT VIEW



FRONT VIEW



LEFT VIEW

(4) I2400722-B040I00029802

TECHNOR ITALSMEA
A COMPANY OF MARECHAL ELECTRIC
Via Italia 33 - 20060 Gessate (MI) ITALY

CE

MADE IN ITALY

Serial Nr.:
Year of construction:

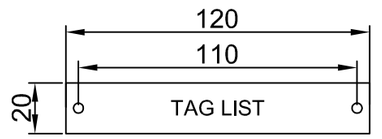
Type: MXBS-414012P

400VAC 50Hz 125A

T.amb -20/+50°C

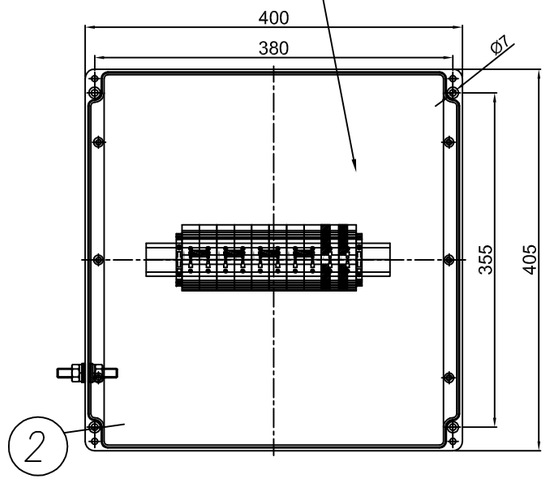
IP66

(9) PLATE DETAIL

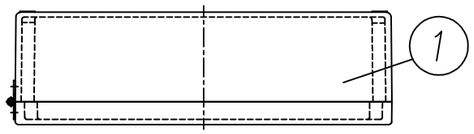


MATERIAL: LAMINATED PLASTIC
BACKGROUND: WHITE
LETTERS: BLACK

(7) TERMINALS NUMBERED
L1-L1,L2-L2,L3-L3,N-N,PE,PE
BRIDGED



INTERNAL VIEW



TOP VIEW

(10)

ENCLOSURE N°	TAG LIST
1	ESW-200N2-01
2	ESW-200N2-02
3	ESW-200N1-01
4	ESW-200N1-02

ITEM	DESCRIPTION	Pcs Q.TY	NOTE/MAT.	CODE	MANUFACTURER
10	DS9 SOCKET 3P+N+E 400VAC 125A	1	515M3+3194017 3198017+555P0D49	.	MARECHAL
9	LAMINATED PLASTIC TAG 120X20	1	–	.	TECHNOR ITALSMEA
8	DUSTPROOF PVC PLUG Ø50	1	–	.	TECHNOR ITALSMEA
7	BEIGE TERMINAL BLOCK SIZE 50 SQMM COMPACT EARTH TERMINAL BLOCK SIZE 50 SQMM COMPACT	8 2	WDU–50N WPE–50N	.	WEIDMULLER
6	AISI316L INT/EXT EARTH BOLT M10	1	BTP–10	.	TECHNOR ITALSMEA
5	BRASS CONTINUITY PLATE THK. 0.8 MM	1	–	.	TECHNOR ITALSMEA
4	AISI316L CERTIFICATE PLATE 80X60	1	–	.	TECHNOR ITALSMEA
3	NICKEL PLATED BRASS PLUG M50	2	T50	.	TECHNOR ITALSMEA
2	INTERNAL MOUNTING PLATE	1	PS–4140	.	TECHNOR ITALSMEA
1	GRP ENCLOSURE	1	AQ–414012P	.	TECHNOR ITALSMEA

-UNPAINTED (BLACK NATURAL)
Q.TY 4, ITEM 60: 1EQP155,
ELEJB-SOCK02

Explosion Proof
Electrical Equipment
Materiali Elettrici Antideflagranti

TECHNOR ITALSMEA
A COMPANY OF MARECHAL ELECTRIC

CROSSWIND

ROSETTI MARINO

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	12/09/24	FB	OB	OB	ACCEPTED FOR CONSTRUCTION (AFC)
01	03/09/24	FB	OB	OB	ACCEPTED FOR CONSTRUCTION (AFC)
00	30/07/24	FB	OB	OB	ISSUE FOR REVIEW (IFR)

TITLE : BASE LOAD POWER HUB (BLPH)

Junction Box with 125A Welding Socket

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE : NTS

A3

DRAWING NO. 1724001481-EL-DA-00003

SHEET 010

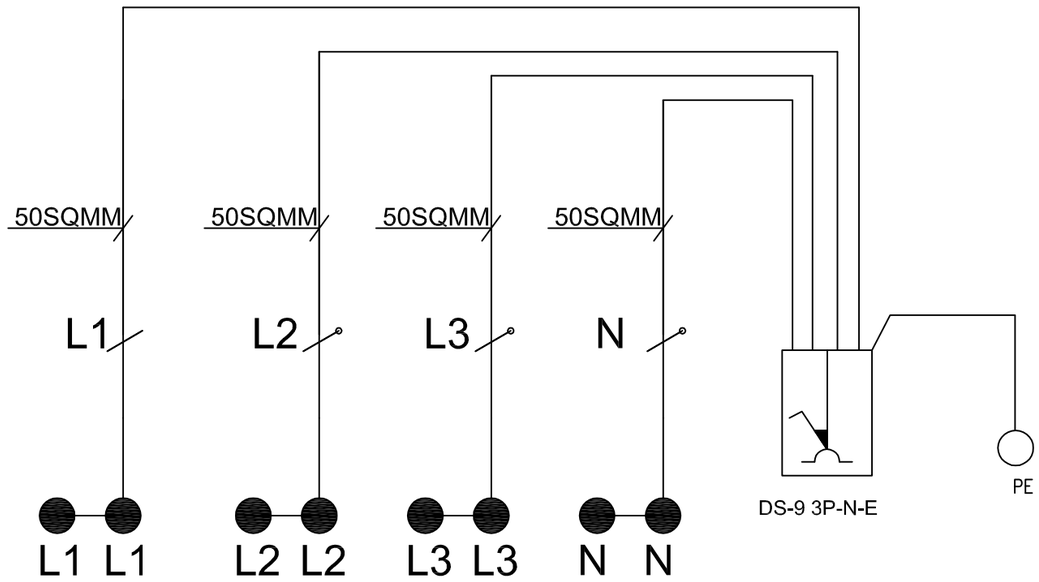
REV. 02

F.to UNI A3: 420mmx297mm

File Name : 1724001481-EL-DA-00003 Rev. 01

CABLES TRI-RATED 0,6/1kV
COLOR CODE:
-L1=BLACK
-L2=GREY
-L3=BROWN
-N=BLUE

400Vac 3Ph+N+PE



LEGEND

- TERMINAL
- BRIDGED TERMINALS
- SOCKET
- CABLE

			01	02	03	04	05	06	07	08	09
DESCRIPTION			.			. .	DS9 SOCKET 3P+N+E 125A	. .	. .	. .	. .
CIRCUIT N°			.	.	.	.	.	.	.	.	.
FEEDER	TYPE					.	.	.	.	.	.
	CODE		.	.	.	.	.	.	.	.	.
TOTAL POWER		kW	.	.	.	.	.	.	.	.	.
CONTEMPORANEITY FACTOR			.	.	.	.	.	.	.	.	.
ABSORBED POWER		kW	.	.	.	.	.	.	.	.	.
ABSORBED CURRENT		A	.	.	.	.	.	.	.	.	.
CIRCUIT BREAKER or ON–LOAD SWITCH	TYPE					.	.	.	.	.	.
	POLES NUMBER x CURRENT					.	.	.	.	.	.
FUSES	TYPE		.	.	.	.	.	.	.	.	.
	RATING	A	.	.	.	.	.	.	.	.	.
CONTACTOR	MANUFACTURER		.	.	.	.	.	.	.	.	.
	MODEL		.	.	.	.	.	.	.	.	.
	POLES NUMBER x CURRENT		.	.	.	.	.	.	.	.	.
	NOMINAL POWER	kW	.	.	.	.	.	.	.	.	.
EARTH LEAKAGE	TYPE			.	.	.	.	.	.	.	.
	NOMINAL RANGE	mA		.	.	.	.	.	.	.	.
POWER LINE DATA	CABLE TYPE		.	.	.	.	.	.	.	.	.
	FORMATION / SIZE		.	.	.	.	.	.	.	.	.
	LENGHT	m	.	.	.	.	.	.	.	.	.
	VOLTAGE DROP	%	.	.	.	.	.	.	.	.	.
TERMINALS	SECTION	sqmm	2XWDU–50N	2XWDU–50N	2XWDU–50N	2XWDU–50N	.	2XWPE–50N	.	.	.
	MARKING	–X	L1–L1	L2–L2	L3–L3	N–N	.	PE–PE	.	.	.

Explosion Proof
Electrical Equipment
Materiali Elettrici Antideflagranti

TECHNOR ITALSMEA
A COMPANY OF MARECHAL ELECTRIC

CROSSWIND

ROSETTI MARINO

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	12/09/24	FB	OB	OB	ACCEPTED FOR CONSTRUCTION (AFC)
01	03/09/24	FB	OB	OB	ACCEPTED FOR CONSTRUCTION (AFC)
00	30/07/24	FB	OB	OB	ISSUE FOR REVIEW (IFR)

TITLE : BASE LOAD POWER HUB (BLPH)

Junction Box with 125A Welding Socket–Wiring Diagram

CONTRACT NO./TITLE CW–I–WP4–2023–05/HOLLANDSE KUST NOORD WIND PARK

SCALE : NTS

A3

DRAWING NO. 1724001481–EL–DA–00003

SHEET 011

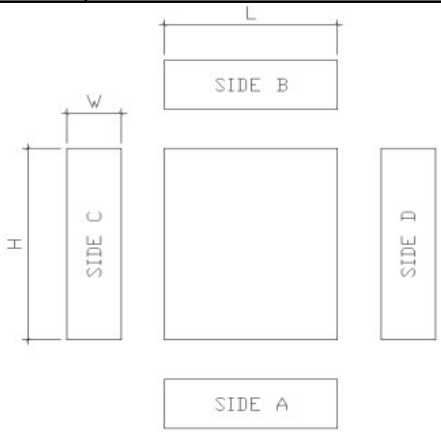
REV. 02

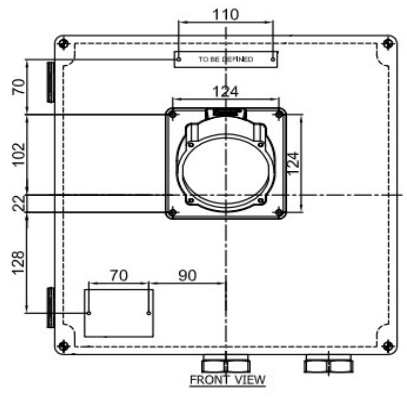
F.to UNI A3: 420mmx297mm

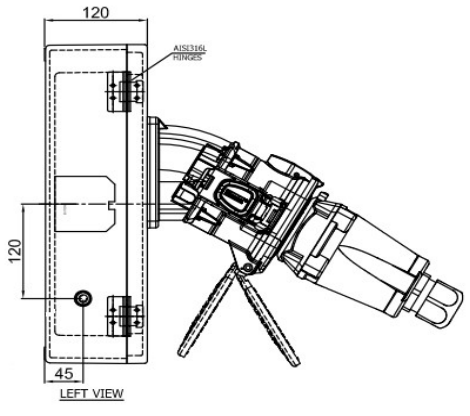
File Name : 1724001481–EL–DA–00003 Rev. 01

Row	Data Sheet for Control Stations, Junction Boxes and Sockets				Rev.
1	125A Welding Socket and Plug with Integrated JB				01
2	Item	Required	Manufacturer Proposal	Comments	
3	Model Number	by Vendor	MXSB-414012P		01
4	Serial Number	by Vendor			00
5	Quantity	4		(4+0 Spare)	01
6	Application	Welding Socket			00
7	Safe Area/Hazardous Area	Safe Area			00
8	**Rating**				
9	Current Rating [A]	125A	125A		01
10	Poles	3ph+N+PE	3ph+N+PE		01
11	Voltage [V]	400	400 V ac		01
12	**Material**				
13	Body	GRP	GRP		01
14	Execution	Normal			00
15	Protection Degree	IP56	IP 66		01
16	Temperature Class	Normal			00
17	**Cable Entry**				
18	Thread	Metric			00
19	Cable Gland Size/Qty.	M50/3	M50/3		01
17	**Interlocked Switching Device**				
18	Interlocked Switching device	Required			00
19	Padlocakable Position	Required			00
20	Plug	Required			00
21	**Accessories**				
22	Hinged Cover	Required	AISI316L Hinges		01
23	Gasket	Required			00
24	Removable Gland Plates	Required	Brass Continuity plate 0.8mm thick		01
25	Internal Mounting Plate	Thickness 3mm threaded		connected to Internal ground bar	00
26	Internal Ground Bar	Required		connected to earth stud	00
27	Earth Stud	Required			00
28	Drainage Valve	Required			00
29	Pad lockable Cover	Required			00
30	Identification Label	Trafolite/ Stainless Steel	Laminated Plastic	for all label	01
31	**Side 'A'**				
32	Hubs Qty.	3	3		01
33	Size	M50	Ø 50.2 mm		01
34	Thread	ISO-M			00
35	Plug	No.2 M50	No.2 M50	nickel-plated brass	01
36	**Side 'B'**				
37	Hubs Qty.	Not Required			00
38	Size	NA			00
39	Thread	NA			00
40	**Side 'C'**				
41	Hubs Qty.	Not Required			00
42	Size	NA			00
43	Thread	NA			00
44	**Side 'D'**				
45	Hubs Qty.	Not Required			00
46	Size	NA			00
47	Thread	NA			00
48	**Terminals**				
49	Size [mm^2]	Suitable for 50 Sq.mm Cable	M50	suitable with wire-end ferrules DIN 46228	01
50	Qty.	n°4 for each Ph // n°4 for N // n°4 for PE	n°2 for Ph // n°2 for N // n°2 for PE	jumpered	01
51	**Bonding Cable (yellow/Green)**				
52	Size [mm^2]	by vendor		6 mm^2	01
53	Qty.	Min. 0.15m			00
54	**Dimension**				
55	Height 'H' [mm]	by vendor	120 mm		01
56	Width 'W' [mm]	by vendor	405 mm		01
57	Length 'L' [mm]	by vendor	400 mm		01
58	Weight [Kg]	by vendor			00
59	**Code**	**Remarks**			
60					
61					

NOTES:

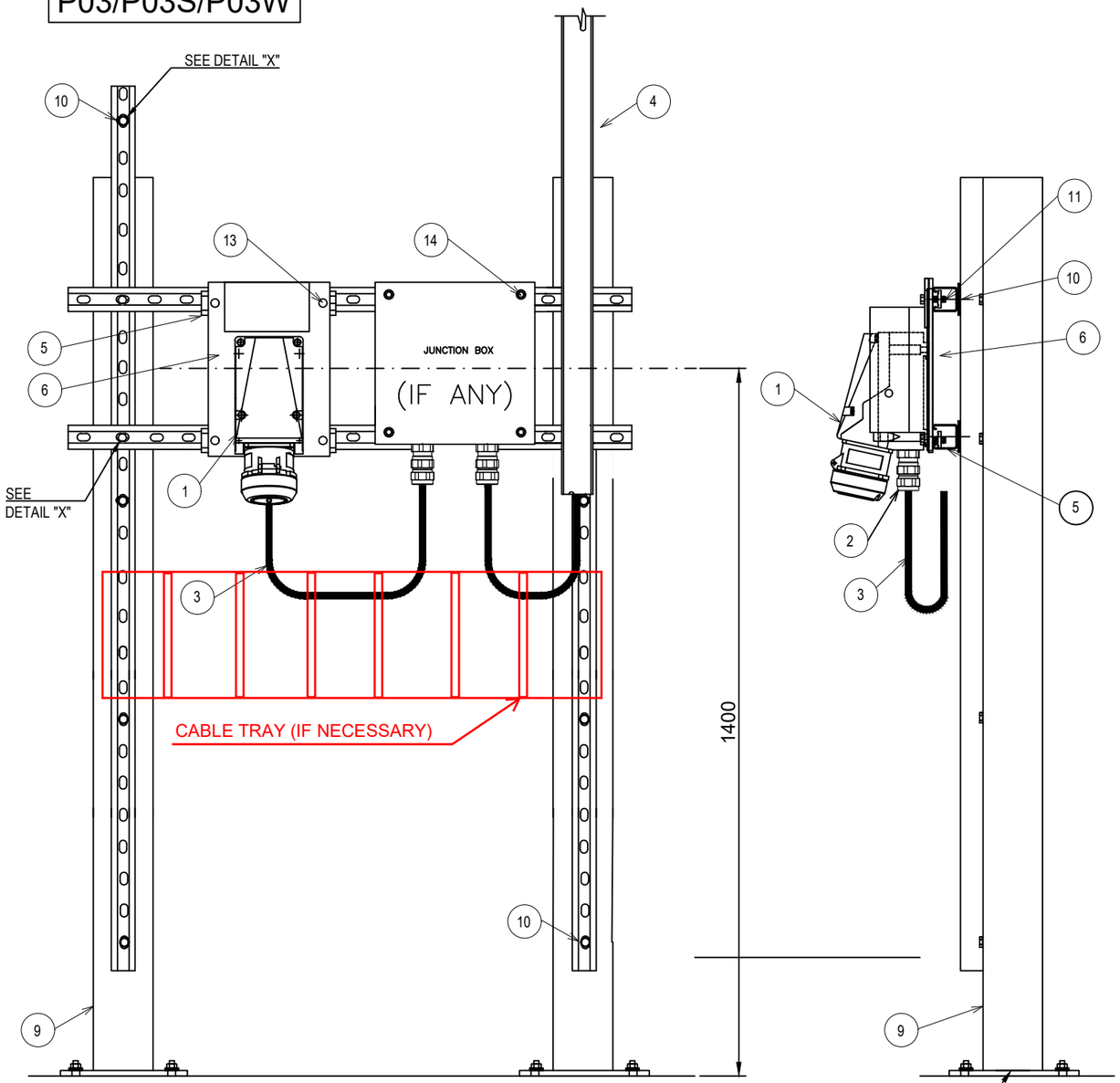






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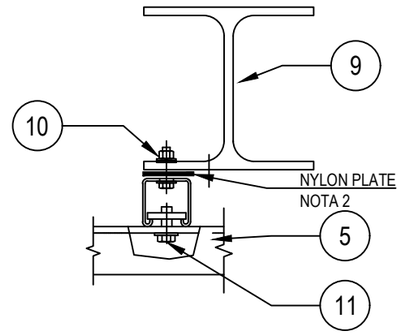
P03/P03S/P03W



POS.	DESCRIPTION	MATERIAL	SIZE	Q.TY	NOTE
1	POWER SOCKET			1	
2	SINGLE SEAL CABLE GLAND FOR UNARMOURED CABLE	NICK.PL.BRASS		3	NOTE 3
3	UNARMOURED CABLE				
4	CABLE LADDER WITH COVER	AISI 316L			
5	SINGLE U-CHANNEL PERFORATED ON NO.3 SIDE	AISI 316L	41x41x2	AS R.	NOTE 1
6	PLATE SUPPORT FOR POWER SOCKET	AISI 316L		1	
9	PROFILE SUPPORT	PAINTED C.S.		2	
10	HEXAGONAL BOLT WITH NYLON WASHER, PLANE WASHERS, GROWER AND NUT.	AISI 316L	M10x40	AS R.	
11	HEXAGONAL BOLT WITH PLANE WASHER AND NUT FOR U-CHANNEL WITH SPRING.	AISI 316L	M12x30	AS R.	
12	DOUBLE SLOT CROWNED HEAD SCREW WITH NUT FOR U-CHANNEL WITH SPRING.	AISI 316L	M6x20	AS R.	
13	HEXAGONAL BOLT WITH PALNE WASHER AND NUT FOR U-CHANNEL WITH SPRING	AISI 316L	M8x30	4	
14	SCREW WITH PLANE WASHER AND NUT FOR U-CHANNEL WITH SPRING	AISI 316L	M6x40	4	

02

DETAIL "X"



NOTE :
1) THE EXACT DIMENSIONS WILL BE DEFINED DURING ASSEMBLY FASE.
2) INTERPOSING TEFLON OR NYLON PLATE BETWEEN DISSIMILAR CONDUCTIIN MATERIAL.
3) CABLE GLAND COMPLETE WITH LOCKNUT, NYLON WASHER, SERRATED WASHER, EXTERNAL RUBBER RING AND EARTH TAG (IF NECESSARY).

02 SUPPORT BOLTED ON HILTI S-BT INSTALLED ON BEAM OR DECK

VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DD-20092**

REV.:	DATE:	SIGNATURE:
2_D	20/12/24	V.Ramponi

ROSETTI MARINO SpA

CROSSWIND

ROSETTI MARINO

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	28/08/24	GRA	AMA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	04/07/24	NLK	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	21/11/23	SPS	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL TYPICAL INSTALLATION DETAILS-POWER SYSTEM & CABLE INSTALLATION
POWER TYPICAL DETAILS POWER SOCKET FLOOR MOUNTED

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK | SCALE : NTS

A3 | DRAWING NO. 123A90-DDL-EL-DD-20092 | SHEET 004 | REV. 02

F.to UNI A3: 420mmx297mm

File Name : 123A90-DDL-EL-DD-20092 REV.02.DWG

Section 6 MECHANICAL COMPLETION STATUS INDEX - INSTRUMENTAL DISCIPLINE

NOT APPLICABLE

Section 7 MECHANICAL COMPLETION STATUS INDEX - MECHANICAL DISCIPLINE

NOT APPLICABLE

Section 8 MECHANICAL COMPLETION STATUS INDEX - TELECOMMUNICATION DISCIPLINE

NOT APPLICABLE

Section 9 MECHANICAL COMPLETION STATUS INDEX - HVAC DISCIPLINE

NOT APPLICABLE

Section 10 MECHANICAL COMPLETION STATUS INDEX - PIPING DISCIPLINE

NOT APPLICABLE

Section 11 MECHANICAL COMPLETION INDEX - SAFETY DISCIPLINE

NOT APPLICABLE

Section 12 FAT / VENDOR REPORTS

NOT APPLICABLE

Section 13 MECHANICAL COMPLETION CHANGES / MARK-UPS

NOT APPLICABLE