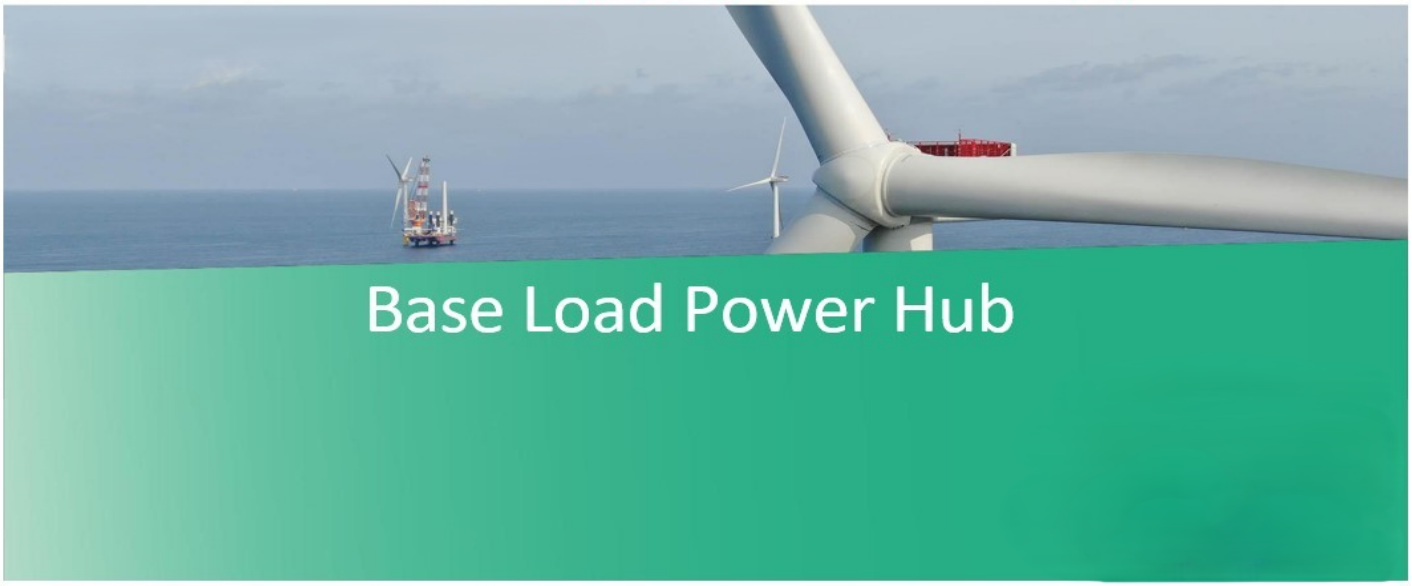
CROSSWIND

ROSETTI MARINO

PROVERLIS

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



MECHANICAL COMPLETION DOSSIER (ONSHORE)

SYSTEM	86 Telecommunication
SUBSYSTEM	86-00 Data Networks

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

Sub System N°:	86-00	Tick as appropriate	ONSHORE	O
Description:	Data Networks		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*	O
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*	O
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*	OK
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:	2		Issued on:	2024-11-30	
System:	86	/	Telecommunication		
SubSystem:	86-00	/	Data Networks		

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	B
	'0	32

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	2024-11-30	2024-11-30	2024-11-30	2024-11-30
Signature	PROVERLIS Digitaly signed by Wolmer Borghi 2024-11-30T09:40:47.639Z	PROVERLIS Digitaly signed by Anthony Iveson 2024-11-30T09:45:32.789Z	PROVERLIS Digitaly signed by CPY NOT PRESEN 2024-11-30T09:57:10.179Z	PROVERLIS Digitaly signed by CPY NOT PRESEN 2024-11-30T09:57:16.371Z

CROSSWIND

ROSETTI MARINO

Project CROSSWIND

STATUS INDEX DETAIL

Filtered on subsystem: 86-00 & process: MC

Electrical	86-00 Data Networks						
ITEM		TASK					
Code	Description	Location	Code	Form	Progress	Date	Certificate
83108-CEL	Lighting & Small Power DB BoP / System Server / Network Cabinet - Auxiliary	ONSHORE	C10000627	CPX09	100	2024-11-09	RFC 1
83109-CEL	Lighting & Small Power DB BoP / Server cabiner ITER - Auxiliary	ONSHORE	C10000628	CPX09	100	2024-11-09	RFC 1
84307-CEL	AC UPS - PAS DB / Server Cabinet ITER - Line A	ONSHORE	C10000585	CPX09	100	2024-11-08	RFC 1
84308-CEL	AC UPS - PAS DB / Server Cabinet ITER - Line B	ONSHORE	C10000586	CPX09	100	2024-11-08	RFC 1
84403-CEL	AC UPS - F&G DB / System Server / Network Cabinet - Line A	ONSHORE	C10000596	CPX09	100	2024-11-08	RFC 1
84404-CEL	AC UPS - F&G DB / System Server / Network Cabinet - Line B	ONSHORE	C10000597	CPX09	100	2024-11-08	RFC 1

Project CROSSWIND

STATUS INDEX DETAIL

Filtered on subsystem: 86-00 & process: MC

Instrumental	86-00 Data Networks						
ITEM		TASK					
Code	Description	Location	Code	Form	Progress	Date	Certificate
B400-NET-001	Network Cabinet	ONSHORE	C10000841	CJX48	100	2024-11-20	RFC 1
B400-SRV-001	Server Cabinet ITER	ONSHORE	C10000845	CJX48	100	2024-11-20	RFC 1
GPSANT	Antenna GPS	ONSHORE	C10004720	CJX00	100	2024-11-29	RFC 2

Project CROSSWIND

STATUS INDEX DETAIL

Filtered on subsystem: 86-00 & process: MC

Telecom	86-00 Data Networks						
ITEM		TASK					
Code	Description	Location	Code	Form	Progress	Date	Certificate
C-GPSANT/B400-NET-001	C-GPSANT/B400-NET-001	ONSHORE	C10004721	CIX09	100	2024-11-29	RFC 2

CROSSWIND

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Project CROSSWIND

PUNCH LIST REPORT

SYSTEM 86 Telecommunication
SUBSYSTEM 86-00 Data Networks

Instrumental

CODE	CAT	ITEM	DEFECT DESCRIPTION	CORRECTIVE ACTION	PERFORMED ACTION	ISSUED	CARRIED	CHECKED	APPROVED
C30000356	A	B400-NET-001	Install MCT frame “C” on roof		ACTIVITY DONE	SLinari 2024-10-22	SLinari 2024-11-27	SLinari 2024-11-27	2024-11-27
C30000357	A	B400-SRV-001	Install MCT frame “C” on roof		activity done	SLinari 2024-10-22	SLinari 2024-11-27	SLinari 2024-11-27	2024-11-27
C30000363	A	B400-NET-001	MCT module missing in NET cabinet (frame “D”) with related rubber devices.		ACTIVITY DONE	SLinari 2024-10-22	SLinari 2024-11-27	SLinari 2024-11-27	2024-11-27
C30000364	A	B400-SRV-001	MCT module missing in NET cabinet (frame “D”) with related rubber devices.		ACTIVITY DONE	SLinari 2024-10-22	SLinari 2024-11-27	SLinari 2024-11-27	2024-11-27
C30000358	B	B400-NET-001	Closing panels with brush to be added on network cables passthrough points.			SLinari 2024-10-22			
C30000359	B	B400-SRV-001	Closing panels with brush to be added on network cables passthrough points.			SLinari 2024-10-22			
C30000360	B	B400-NET-001	Check diagnostic signals from Hirschmann switches through WhatsUp Gold or through wirings. WhatUp Gold still to be configured			SLinari 2024-10-22			
C30000361	B	B400-SRV-001	Check diagnostic signals from Hirschmann switches through WhatsUp Gold or through wirings. WhatUp Gold still to be configured			SLinari 2024-10-22			
C30000362	B	B400-NET-001	N.1 SFP module missing on SERVSWL2-002 port 1			SLinari 2024-10-22			

Project CROSSWIND

PUNCH LIST REPORT

SYSTEM 86 Telecommunication
SUBSYSTEM 86-00 Data Networks

Instrumental

CODE	CAT	ITEM	DEFECT DESCRIPTION	CORRECTIVE ACTION	PERFORMED ACTION	ISSUED	CARRIED	CHECKED	APPROVED
C30000365	B	B400-NET-001	Missing N.4 SFP modules (multimode) to be installed in FW003 (ports P13, P14) and FW004 (ports P13, P14)			SLinari 2024-10-22			
C30000366	B	B400-SRV-001	Missing N.4 SFP modules (multimode) to be installed in FW003 (ports P13, P14) and FW004 (ports P13, P14)			SLinari 2024-10-22			
C30000367	B	B400-NET-001	Add devices and wiring to implement power cut-off of switches and firewalls related to network connection in open area (external) by 79-XS-010			SLinari 2024-10-22			
C30000368	B	B400-SRV-001	Add devices and wiring to implement power cut-off of switches and firewalls related to network connection in open area (external) by 79-XS-010			SLinari 2024-10-22			
C30000646	B	B400-NET-001 C10000841	All documentation listed in the SMIR, shall be re-issued in final revision and approved by RM and CW	.		Gtangianu 2024-11-20			
C30000655	B	B400-NET-001 C10000841	base plate will be installed after commissioning.	.		Gtangianu 2024-11-20			
C30000656	B	B400-NET-001 C10000841	Cleaning is required inside the panels.	.		Gtangianu 2024-11-20			
C30000657	B	B400-SRV-001 C10000845	The GA (1724000594-IN-DG-00022) does not match the installed.	.		Gtangianu 2024-11-20			
C30000659	B	B400-SRV-001 C10000845	base plate will be installed after commissioning.	.		Gtangianu 2024-11-20			

Project CROSSWIND

PUNCH LIST REPORT

SYSTEM 86 Telecommunication
SUBSYSTEM 86-00 Data Networks

Instrumental

CODE	CAT	ITEM	DEFECT DESCRIPTION	CORRECTIVE ACTION	PERFORMED ACTION	ISSUED	CARRIED	CHECKED	APPROVED
C30000660	B	B400-SRV-001 C10000845	All documentation listed in the SMIR, shall be re-issued in final revision and approved by RM and CW	.		Gtangianu 2024-11-20			

Project CROSSWIND

PUNCH LIST REPORT

SYSTEM 86 Telecommunication
SUBSYSTEM 86-00 Data Networks

Electrical

CODE	CAT	ITEM	DEFECT DESCRIPTION	CORRECTIVE ACTION	PERFORMED ACTION	ISSUED	CARRIED	CHECKED	APPROVED
C30000338	B	84307-CEL C10000585	Plastic cable ties to be replaced on external routing. Cable needs to be fixed also on B-400 cable trays.	.		Gtangianu 2024-11-08			
C30000339	B	84307-CEL C10000585	Missing cable tag inside the panel _B400-SRV-001 (LINE A).	.		Gtangianu 2024-11-08			
C30000340	B	84308-CEL C10000586	Plastic cable ties to be replaced on external routing. Cable needs to be fixed also on cable trays inside B-400.	.		Gtangianu 2024-11-08			
C30000342	B	84308-CEL C10000586	Missing cable tag inside/outside the panel (B400-SRV-001).	.		Gtangianu 2024-11-08			
C30000352	B	84403-CEL C10000596	Plastic cable ties used to fix the cable tag should be replaced on all external routing.	.		Gtangianu 2024-11-08			
C30000353	B	84403-CEL C10000596	Identification tag wires are wrong,	.		Gtangianu 2024-11-08			
C30000354	B	84403-CEL C10000596	missing plastic cable tag inside the panel (UP-200F4)	.		Gtangianu 2024-11-08		Lmussi	
C30000355	B	84403-CEL C10000596	Identification cable tag is wrong . Written wrong terminal strip.	.		Gtangianu 2024-11-08			
C30000387	B	84404-CEL C10000597	Plastic cable ties used to fix the cable tag should be replaced on all external routing.	.		Gtangianu 2024-11-08			

Project CROSSWIND

PUNCH LIST REPORT

SYSTEM 86 Telecommunication
SUBSYSTEM 86-00 Data Networks

Electrical

CODE	CAT	ITEM	DEFECT DESCRIPTION	CORRECTIVE ACTION	PERFORMED ACTION	ISSUED	CARRIED	CHECKED	APPROVED
C30000388	B	84404-CEL C10000597	Identification tags wires is wrong.	need to be changed.		Gtangianu 2024-11-08			
C30000389	B	84404-CEL C10000597	Identification numbers on terminal strip are missing (PE)	.		Gtangianu 2024-11-08			
C30000390	B	84404-CEL C10000597	Cable to be fixed with proper cable ties, after MCT installetion (point valid for internal and exsternal cable routing)	.		Gtangianu 2024-11-08			
C30000412	B	83109-CEL C10000628	Plastic cable ties to be replaced on external routing	.		Gtangianu 2024-11-09			
C30000413	B	83108-CEL C10000627	Plastic cable ties to be replaced on external routing	.		Gtangianu 2024-11-09			
C30000414	B	83108-CEL C10000627	Missing cable tags on routing, inside and outside the panels	.		Ecarotenuto 2024-11-09			
C30000417	B	83109-CEL C10000628	Missing cable tags on routing, inside and outside the panels	.		Ecarotenuto 2024-11-09			

CROSSWIND

ROSETTI MARINO

Project CROSSWIND

PUNCH LIST REPORT

SYSTEM	86	Telecommunication
SUBSYSTEM	86-00	Data Networks

Telecom									
CODE	CAT	ITEM	DEFECT DESCRIPTION	CORRECTIVE ACTION	PERFORMED ACTION	ISSUED	CARRIED	CHECKED	APPROVED
C30001031	B	C-GPSANT/B400-NET-001 C10004721	Missing cables tag , cabinet side B400-NET-001	.		APolo 2024-11-29			
C30001032	B	C-GPSANT/B400-NET-001 C10004721	Missing cable tag SS , near the C-GPSANT.	.		APolo 2024-11-29			

Section 2 CONSOLIDATED PUNCH LISTS

CROSSWIND

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Project CROSSWIND

PUNCH LIST REPORT

SYSTEM	86	Telecommunication
SUBSYSTEM	86-00	Data Networks

Instrumental

CODE	CAT	ITEM	DEFECT DESCRIPTION	CORRECTIVE ACTION	PERFORMED ACTION	ISSUED	CARRIED	CHECKED	APPROVED
C30000356	A	B400-NET-001	Install MCT frame “C” on roof		ACTIVITY DONE	SLinari 2024-10-22	SLinari 2024-11-27	SLinari 2024-11-27	2024-11-27
C30000357	A	B400-SRV-001	Install MCT frame “C” on roof		activity done	SLinari 2024-10-22	SLinari 2024-11-27	SLinari 2024-11-27	2024-11-27
C30000363	A	B400-NET-001	MCT module missing in NET cabinet (frame “D”) with related rubber devices.		ACTIVITY DONE	SLinari 2024-10-22	SLinari 2024-11-27	SLinari 2024-11-27	2024-11-27
C30000364	A	B400-SRV-001	MCT module missing in NET cabinet (frame “D”) with related rubber devices.		ACTIVITY DONE	SLinari 2024-10-22	SLinari 2024-11-27	SLinari 2024-11-27	2024-11-27
C30000358	B	B400-NET-001	Closing panels with brush to be added on network cables passthrough points.		INSTALLED	SLinari 2024-10-22	SLinari 2024-12-10	SLinari 2024-12-10	2024-12-10
C30000359	B	B400-SRV-001	Closing panels with brush to be added on network cables passthrough points.		INSTALLED	SLinari 2024-10-22	SLinari 2024-12-10	SLinari 2024-12-10	2024-12-10
C30000360	B	B400-NET-001	Check diagnostic signals from Hirschmann switches through WhatsUp Gold or through wirings. WhatUp Gold still to be configured		Activity done	SLinari 2024-10-22	Vendor 2025-03-21	SLinari 2025-03-21	2025-03-21
C30000361	B	B400-SRV-001	Check diagnostic signals from Hirschmann switches through WhatsUp Gold or through wirings. WhatUp Gold still to be configured		Activity done	SLinari 2024-10-22	Vendor 2025-03-21	SLinari 2025-03-21	2025-03-21
C30000362	B	B400-NET-001	N.1 SFP module missing on SERVSWL2-002 port 1		installed	SLinari 2024-10-22	SLinari 2024-12-13	SLinari 2024-12-13	2024-12-13

Project CROSSWIND

PUNCH LIST REPORT

SYSTEM 86 Telecommunication
SUBSYSTEM 86-00 Data Networks

Instrumental

CODE	CAT	ITEM	DEFECT DESCRIPTION	CORRECTIVE ACTION	PERFORMED ACTION	ISSUED	CARRIED	CHECKED	APPROVED
C30000365	B	B400-NET-001	Missing N.4 SFP modules (multimode) to be installed in FW003 (ports P13, P14) and FW004 (ports P13, P14)		installed	SLinari 2024-10-22	SLinari 2024-12-18	SLinari 2024-12-18	2024-12-18
C30000366	B	B400-SRV-001	Missing N.4 SFP modules (multimode) to be installed in FW003 (ports P13, P14) and FW004 (ports P13, P14)		INSTALLED	SLinari 2024-10-22	SLinari 2024-12-18	SLinari 2024-12-18	2024-12-18
C30000367	B	B400-NET-001	Add devices and wiring to implement power cut-off of switches and firewalls related to network connection in open area (external) by 79-XS-010		activity done and verified	SLinari 2024-10-22	SLinari 2024-12-18	SLinari 2024-12-18	2024-12-18
C30000368	B	B400-SRV-001	Add devices and wiring to implement power cut-off of switches and firewalls related to network connection in open area (external) by 79-XS-010		activity done and verified	SLinari 2024-10-22	SLinari 2024-12-18	SLinari 2024-12-18	2024-12-18
C30000646	B	B400-NET-001 C10000841	All documentation listed in the SMIR, shall be re-issued in final revision and approved by RM and CW	.		Gtangianu 2024-11-20			
C30000655	B	B400-NET-001 C10000841	base plate will be installed after commissioning.	.		Gtangianu 2024-11-20			
C30000656	B	B400-NET-001 C10000841	Cleaning is required inside the panels.	.		Gtangianu 2024-11-20	2024-12-28	Gtangianu 2024-12-28	2024-12-28
C30000657	B	B400-SRV-001 C10000845	The GA (1724000594-IN-DG-00022) does not match the installed.	.		Gtangianu 2024-11-20	2025-02-21	Gtangianu 2025-02-21	2025-02-21
C30000659	B	B400-SRV-001 C10000845	base plate will be installed after commissioning.	.		Gtangianu 2024-11-20			

CROSSWIND

ROSETTI MARINO

Project CROSSWIND

PUNCH LIST REPORT

SYSTEM 86 Telecommunication

SUBSYSTEM 86-00 Data Networks

Instrumental									
CODE	CAT	ITEM	DEFECT DESCRIPTION	CORRECTIVE ACTION	PERFORMED ACTION	ISSUED	CARRIED	CHECKED	APPROVED
C30000660	B	B400-SRV-001 C10000845	All documentation listed in the SMIR, shall be re-issued in final revision and approved by RM and CW	.		Gtangianu 2024-11-20			

CROSSWIND

ROSETTI MARINO

Project CROSSWIND

PUNCH LIST REPORT

SYSTEM 86 Telecommunication

SUBSYSTEM 86-00 Data Networks

Electrical

CODE	CAT	ITEM	DEFECT DESCRIPTION	CORRECTIVE ACTION	PERFORMED ACTION	ISSUED	CARRIED	CHECKED	APPROVED
C30000338	B	84307-CEL C10000585	Plastic cable ties to be replaced on external routing. Cable needs to be fixed also on B-400 cable trays.	.		Gtangianu 2024-11-08	2025-03-12	JKrizanic 2025-03-12	2025-03-12
C30000339	B	84307-CEL C10000585	Missing cable tag inside the panel _B400-SRV-001 (LINE A).	.		Gtangianu 2024-11-08	2025-02-21	Gtangianu 2025-02-21	2025-02-21
C30000340	B	84308-CEL C10000586	Plastic cable ties to be replaced on external routing. Cable needs to be fixed also on cable trays inside B-400.	.		Gtangianu 2024-11-08	2025-02-26	Pschintu 2025-02-26	2025-02-26
C30000342	B	84308-CEL C10000586	Missing cable tag inside/outside the panel (B400-SRV-001).	.		Gtangianu 2024-11-08	2025-02-21	Gtangianu 2025-02-21	2025-02-21
C30000352	B	84403-CEL C10000596	Plastic cable ties used to fix the cable tag should be replaced on all external routing.	.		Gtangianu 2024-11-08	2025-02-26	Pschintu 2025-02-26	2025-02-26
C30000353	B	84403-CEL C10000596	Identification tag wires are wrong,	.		Gtangianu 2024-11-08	2024-12-16	Gtangianu 2024-12-16	2024-12-16
C30000354	B	84403-CEL C10000596	missing plastic cable tag inside the panel (UP-200F4)	.		Gtangianu 2024-11-08	2024-11-23	Lmussi 2024-11-23	2024-11-23
C30000355	B	84403-CEL C10000596	Identification cable tag is wrong . Written wrong terminal strip.	.		Gtangianu 2024-11-08			
C30000387	B	84404-CEL C10000597	Plastic cable ties used to fix the cable tag should be replaced on all external routing.	.		Gtangianu 2024-11-08	2025-02-26	Pschintu 2025-02-26	2025-02-26

CROSSWIND

ROSETTI MARINO

Project CROSSWIND

PUNCH LIST REPORT

SYSTEM 86 Telecommunication
SUBSYSTEM 86-00 Data Networks

Electrical

CODE	CAT	ITEM	DEFECT DESCRIPTION	CORRECTIVE ACTION	PERFORMED ACTION	ISSUED	CARRIED	CHECKED	APPROVED
C30000388	B	84404-CEL C10000597	Identification tags wires is wrong.	need to be changed.		Gtangianu 2024-11-08	2024-12-16	Gtangianu 2024-12-16	2024-12-16
C30000389	B	84404-CEL C10000597	Identification numbers on terminal strip are missing (PE)	.		Gtangianu 2024-11-08	2025-02-04	Gtangianu 2025-02-04	2025-02-04
C30000390	B	84404-CEL C10000597	Cable to be fixed with proper cable ties, after MCT installetion (point valid for internal and exsternal cable routing)	.		Gtangianu 2024-11-08	2025-01-31	Gtangianu 2025-01-31	2025-01-31
C30000412	B	83109-CEL C10000628	Plastic cable ties to be replaced on external routing	.		Gtangianu 2024-11-09	2025-02-26	Pschintu 2025-02-26	2025-02-26
C30000413	B	83108-CEL C10000627	Plastic cable ties to be replaced on external routing	.		Gtangianu 2024-11-09	2025-02-26	Pschintu 2025-02-26	2025-02-26
C30000414	B	83108-CEL C10000627	Missing cable tags on routing, inside and outside the panels	.		Ecarotenuto 2024-11-09	2025-03-04	JKrizanic 2025-03-04	2025-03-04
C30000417	B	83109-CEL C10000628	Missing cable tags on routing, inside and outside the panels	.		Ecarotenuto 2024-11-09	2025-03-04	JKrizanic 2025-03-04	2025-03-04

CROSSWIND

ROSETTI MARINO

Project CROSSWIND

PUNCH LIST REPORT

SYSTEM	86	Telecommunication
SUBSYSTEM	86-00	Data Networks

Telecom									
CODE	CAT	ITEM	DEFECT DESCRIPTION	CORRECTIVE ACTION	PERFORMED ACTION	ISSUED	CARRIED	CHECKED	APPROVED
C30001031	B	C-GPSANT/B400-NET-001 C10004721	Missing cables tag , cabinet side B400-NET-001	.		APolo 2024-11-29	2025-02-21	Ecarotenuto 2025-02-21	2025-02-21
C30001032	B	C-GPSANT/B400-NET-001 C10004721	Missing cable tag SS , near the C-GPSANT.	.		APolo 2024-11-29	2025-02-26	APolo 2025-02-26	2025-02-26

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30000355

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10000596	1.4 Discipline	Electrical
1.2 Item	84403-CEL		AC UPS - F&G DB / System Server / Network Cabinet - Line A
1.3 Subsystem	86-00		Data Networks

2 - OBSERVATION

Identification cable tag is wrong .

Name: Giovanni Tangianu

Date: 2024-11-08

Signature: Digitaly signed by Giovanni Tangianu 2024-11-08T14:18:40.348Z

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	2024-11-08
3.5 Action by	RM_CONSTR RM	Signature	Digitaly signed by Giovanni Tangianu 2024-11-08T14:18:54.165Z

4 - PERFORMED ACTION

Name

Date

Signature

5 - CLEARANCE CHECK

Name

Date

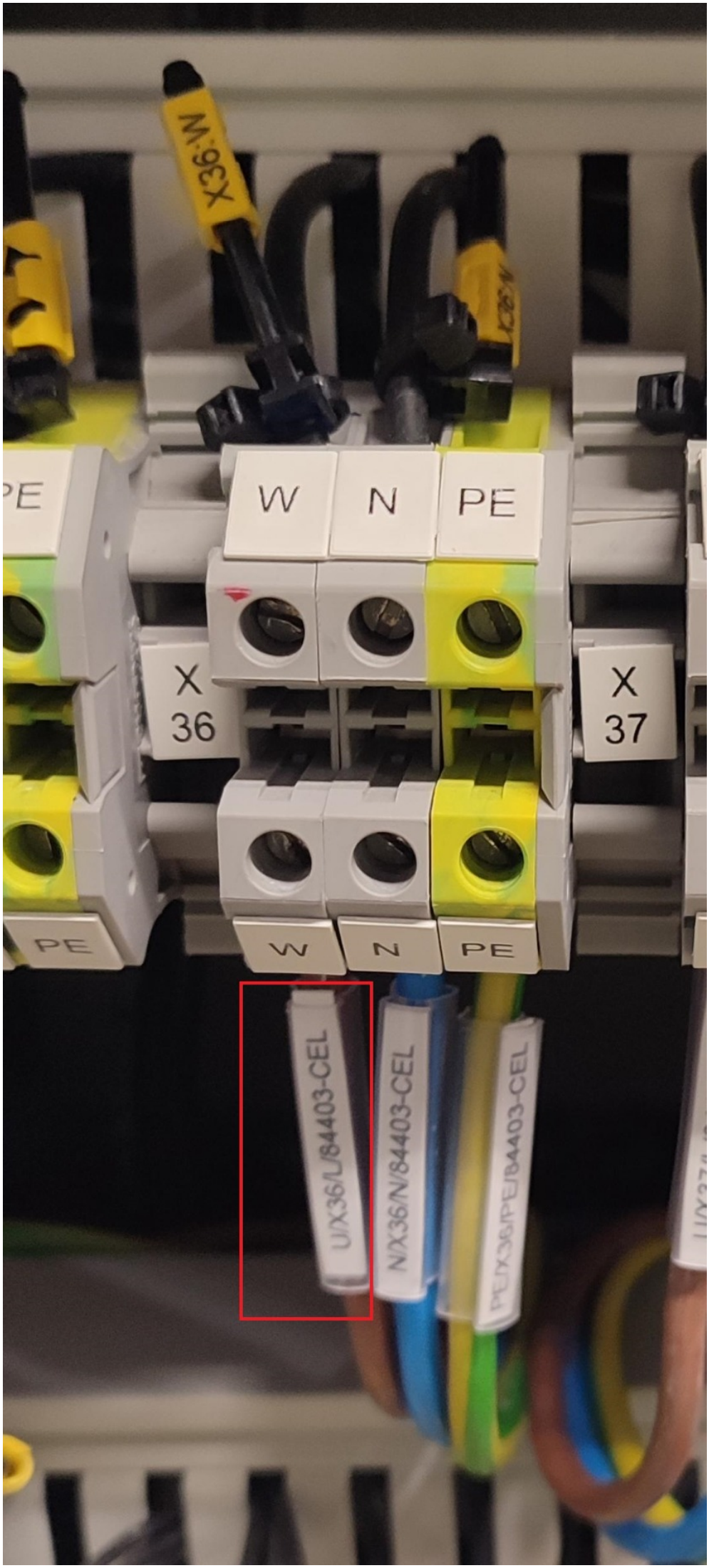
Signature

6- CLEARANCE APPROVAL

Name

Date

Signature


W
N
PE
X
36
X
37
PE
W
N
PE
U/X36/L/84403-CEL
N/X36/N/84403-CEL
PE/X36/PE/84403-CEL

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30000646

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10000841	1.4 Discipline	Instrumental
1.2 Item	B400-NET-001	Network Cabinet	
1.3 Subsystem	86-00	Data Networks	

2 - OBSERVATION

All documentation listed in the SMIR, shall be re-issued in final revision and approved by RM and CW

Name: Giovanni Tangianu

Date: 2024-11-20

Signature: Digitaly signed by Giovanni Tangianu 2024-11-20T13:41:20.785Z

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	2024-11-20
3.5 Action by	VND Vendor	Signature	Digitaly signed by Giovanni Tangianu 2024-11-20T13:42:46.616Z

4 - PERFORMED ACTION

Name

Date

Signature

5 - CLEARANCE CHECK

Name

Date

Signature

6- CLEARANCE APPROVAL

Name

Date

Signature

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30000655

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10000841	1.4 Discipline	Instrumental
1.2 Item	B400-NET-001	Network Cabinet	
1.3 Subsystem	86-00	Data Networks	

2 - OBSERVATION

base plate will be installed after commissioning.

Name: Giovanni Tangianu

Date: 2024-11-20

Signature: Digitaly signed by Giovanni Tangianu 2024-11-20T14:06:30.141Z

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	2024-11-20
3.5 Action by	RM_CONSTR RM	Signature	Digitaly signed by Giovanni Tangianu 2024-11-20T14:06:43.705Z

4 - PERFORMED ACTION

Name

Date

Signature

5 - CLEARANCE CHECK

Name

Date

Signature

6- CLEARANCE APPROVAL

Name

Date

Signature

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30000659

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10000845	1.4 Discipline	Instrumental
1.2 Item	B400-SRV-001	Server Cabinet ITER	
1.3 Subsystem	86-00	Data Networks	

2 - OBSERVATION

base plate will be installed after commissioning.

Name: Giovanni Tangianu

Date: 2024-11-20

Signature: Digitaly signed by Giovanni Tangianu 2024-11-20T14:23:42.644Z

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	2024-11-20
3.5 Action by	RM_CONSTR RM	Signature	Digitaly signed by Giovanni Tangianu 2024-11-20T14:23:59.789Z

4 - PERFORMED ACTION

Name

Date

Signature

5 - CLEARANCE CHECK

Name

Date

Signature

6- CLEARANCE APPROVAL

Name

Date

Signature

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30000660

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10000845	1.4 Discipline	Instrumental
1.2 Item	B400-SRV-001	Server Cabinet ITER	
1.3 Subsystem	86-00	Data Networks	

2 - OBSERVATION

All documentation listed in the SMIR, shall be re-issued in final revision and approved by RM and CW

Name: Giovanni Tangianu

Date: 2024-11-20

Signature: Digitaly signed by Giovanni Tangianu 2024-11-20T14:24:23.221Z

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	2024-11-20
3.5 Action by	VND Vendor	Signature	Digitaly signed by Giovanni Tangianu 2024-11-20T14:24:42.915Z

4 - PERFORMED ACTION

Name

Date

Signature

5 - CLEARANCE CHECK

Name

Date

Signature

6- CLEARANCE APPROVAL

Name

Date

Signature

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30000338

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10000585	1.4 Discipline	Electrical
1.2 Item	84307-CEL	AC UPS - PAS DB / Server Cabinet ITER - Line A	
1.3 Subsystem	86-00	Data Networks	

2 - OBSERVATION

Plastic cable ties to be replaced on external routing. Cable needs to be fixed also on B-400 cable trays.

Name: Giovanni Tangianu

Date: 2024-11-08

Signature: Digitaly signed by Giovanni Tangianu 2024-11-08T12:51:13.494Z

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority: B PL B

3.4 Activity code: MC Mechanical Completion

3.5 Action by: RM_CONSTR RM

Name: Giovanni Tangianu

Date: 2024-11-08

Signature: Digitaly signed by Giovanni Tangianu 2024-11-08T12:51:25.959Z

4 - PERFORMED ACTION

Name

Date: 2025-03-12

Signature

5 - CLEARANCE CHECK

DONE

Name: Josip Krizanic

Date: 2025-03-12

Signature: Digitaly signed by Josip Krizanic 2025-03-12T13:41:51.581Z

6- CLEARANCE APPROVAL

Name

Date: 2025-03-12

Signature

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30000339

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10000585	1.4 Discipline	Electrical
1.2 Item	84307-CEL		AC UPS - PAS DB / Server Cabinet ITER - Line A
1.3 Subsystem	86-00		Data Networks

2 - OBSERVATION

Missing cable tag inside the panel _B400-SRV-001 (LINE A).

Name: Giovanni Tangianu

Date: 2024-11-08

Signature: Digitaly signed by Giovanni Tangianu 2024-11-08T12:52:43.301Z

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	2024-11-08
3.5 Action by	RM_CONSTR RM	Signature	Digitaly signed by Giovanni Tangianu 2024-11-08T12:52:55.662Z

4 - PERFORMED ACTION

Name

Date

Signature

5 - CLEARANCE CHECK

Installed.

Name: Giovanni Tangianu

Date: 2025-02-21

Signature: Digitaly signed by Giovanni Tangianu 2025-02-21T15:42:57.293Z

6- CLEARANCE APPROVAL

Name

Date

Signature

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30000340

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10000586	1.4 Discipline	Electrical
1.2 Item	84308-CEL	AC UPS - PAS DB / Server Cabinet ITER - Line B	
1.3 Subsystem	86-00	Data Networks	

2 - OBSERVATION

Plastic cable ties to be replaced on external routing. Cable needs to be fixed also on cable trays inside B-400.

Name: Giovanni Tangianu

Date: 2024-11-08

Signature: Digitaly signed by Giovanni Tangianu 2024-11-08T13:03:02.770Z

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	2024-11-08
3.5 Action by	RM_CONSTR RM	Signature	Digitaly signed by Giovanni Tangianu 2024-11-08T13:03:16.268Z

4 - PERFORMED ACTION

Name

Date

Signature

5 - CLEARANCE CHECK

DONE

Name: Paolo Schintu

Date: 2025-02-26

Signature: Digitaly signed by Paolo Schintu 2025-02-26T12:38:09.373Z

6- CLEARANCE APPROVAL

Name

Date

Signature

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30000342

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10000586	1.4 Discipline	Electrical
1.2 Item	84308-CEL		AC UPS - PAS DB / Server Cabinet ITER - Line B
1.3 Subsystem	86-00		Data Networks

2 - OBSERVATION

Missing cable tag inside/outside the panel (B400-SRV-001).

Name: Giovanni Tangianu

Date: 2024-11-08

Signature: Digitaly signed by Giovanni Tangianu 2024-11-08T13:11:14.184Z

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	2024-11-08
3.5 Action by	RM_CONSTR RM	Signature	Digitaly signed by Giovanni Tangianu 2024-11-08T13:11:26.014Z

4 - PERFORMED ACTION

Name

Date

Signature

5 - CLEARANCE CHECK

Installed.

Name: Giovanni Tangianu

Date: 2025-02-21

Signature: Digitaly signed by Giovanni Tangianu 2025-02-21T15:43:17.543Z

6- CLEARANCE APPROVAL

Name

Date

Signature

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30000352

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10000596	1.4 Discipline	Electrical
1.2 Item	84403-CEL		AC UPS - F&G DB / System Server / Network Cabinet - Line A
1.3 Subsystem	86-00		Data Networks

2 - OBSERVATION

Plastic cable ties used to fix the cable tag should be replaced on all external routing.

Name: Giovanni Tangianu

Date: 2024-11-07

Signature: Digitaly signed by Giovanni Tangianu 2024-11-07T16:10:59.544Z

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	2024-11-08
3.5 Action by	RM_CONSTR RM	Signature	Digitaly signed by Giovanni Tangianu 2024-11-08T13:52:04.063Z

4 - PERFORMED ACTION

Name

Date

Signature

5 - CLEARANCE CHECK

DONE

Name: Paolo Schintu

Date: 2025-02-26

Signature: Digitaly signed by Paolo Schintu 2025-02-26T12:38:40.414Z

6- CLEARANCE APPROVAL

Name

Date

Signature

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30000353

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10000596	CPX09	1.4 Discipline	Electrical
1.2 Item	84403-CEL			
1.3 Subsystem	86-00			

2 - OBSERVATION

Identification tag wires are wrong,

Name: Giovanni Tangianu

Date: 2024-11-07

Signature: Firma Digitale Sicura
Giovanni Tangianu
2024-11-07T15:59:55+0100

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	2024-11-08
3.5 Action by	RM_CONSTR RM	Signature	Digitaly signed by Giovanni Tangianu 2024-11-08T13:52:43.646Z

4 - PERFORMED ACTION

Name

Date

Signature

5 - CLEARANCE CHECK

Installed.

Name: Giovanni Tangianu

Date: 2024-12-16

Signature: Digitaly signed by Giovanni Tangianu
2024-12-16T16:19:55.570Z

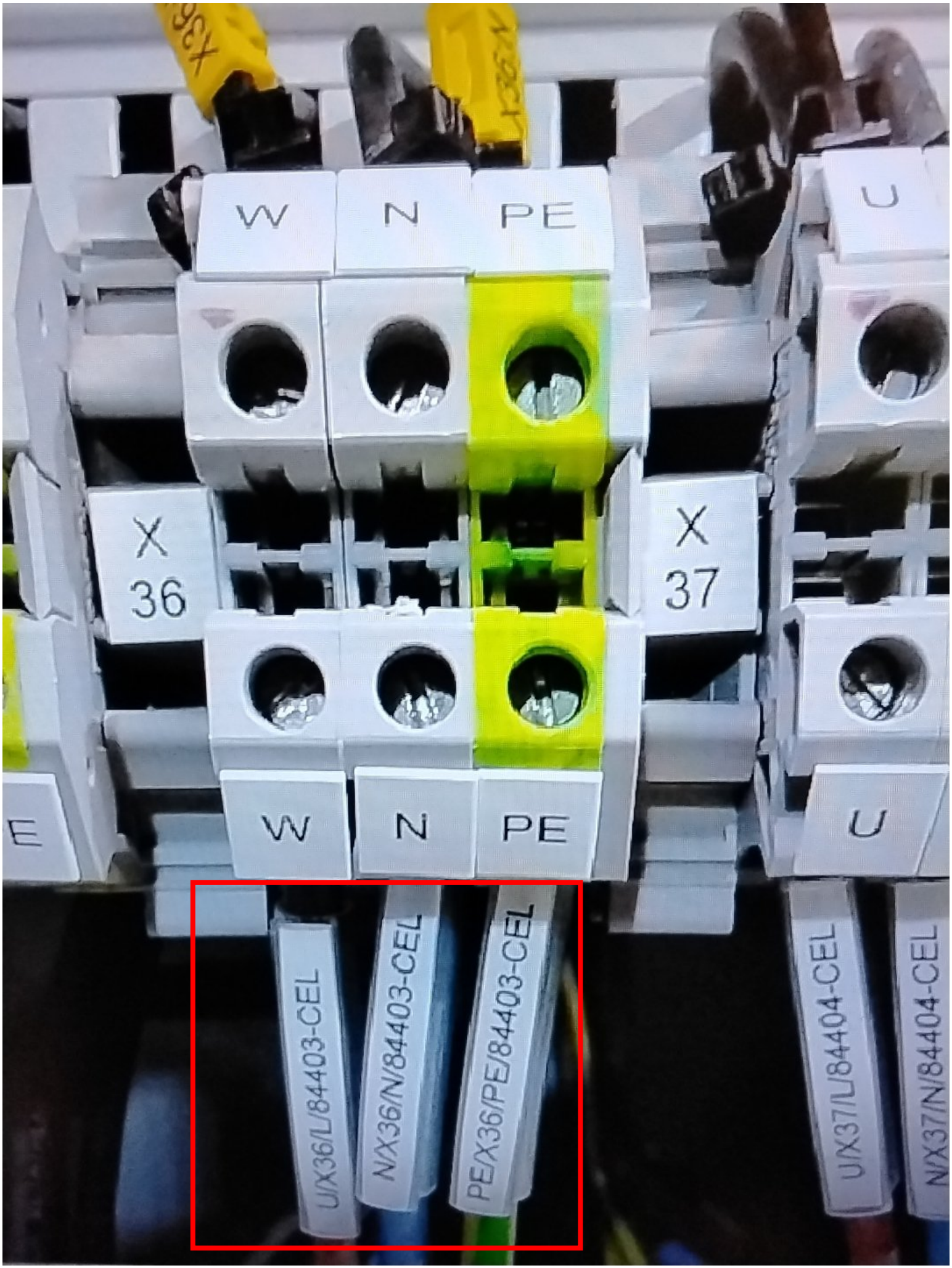
6- CLEARANCE APPROVAL

Name

Date

Signature

2024-11-07 15:59 By Giovanni Tangianu



ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30000354

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10000596	CPX09	1.4 Discipline	Electrical
1.2 Item	84403-CEL			
1.3 Subsystem	86-00			

2 - OBSERVATION

missing plastic cable tag inside the panel (UP-200F4)

Name: Giovanni Tangianu

Date: 2024-11-07

Signature: Firma Digitale Sicura
Giovanni Tangianu
2024-11-07T16:01:29+0100

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	2024-11-08
3.5 Action by	RM_CONSTR RM	Signature	Digitaly signed by Giovanni Tangianu 2024-11-08T13:53:40.067Z

4 - PERFORMED ACTION

Name

Date

Signature

5 - CLEARANCE CHECK

Done

Name: Luca Mussi

Date: 2024-11-21

Signature: Digitaly signed by Luca Mussi
2024-11-21T17:05:31.467Z

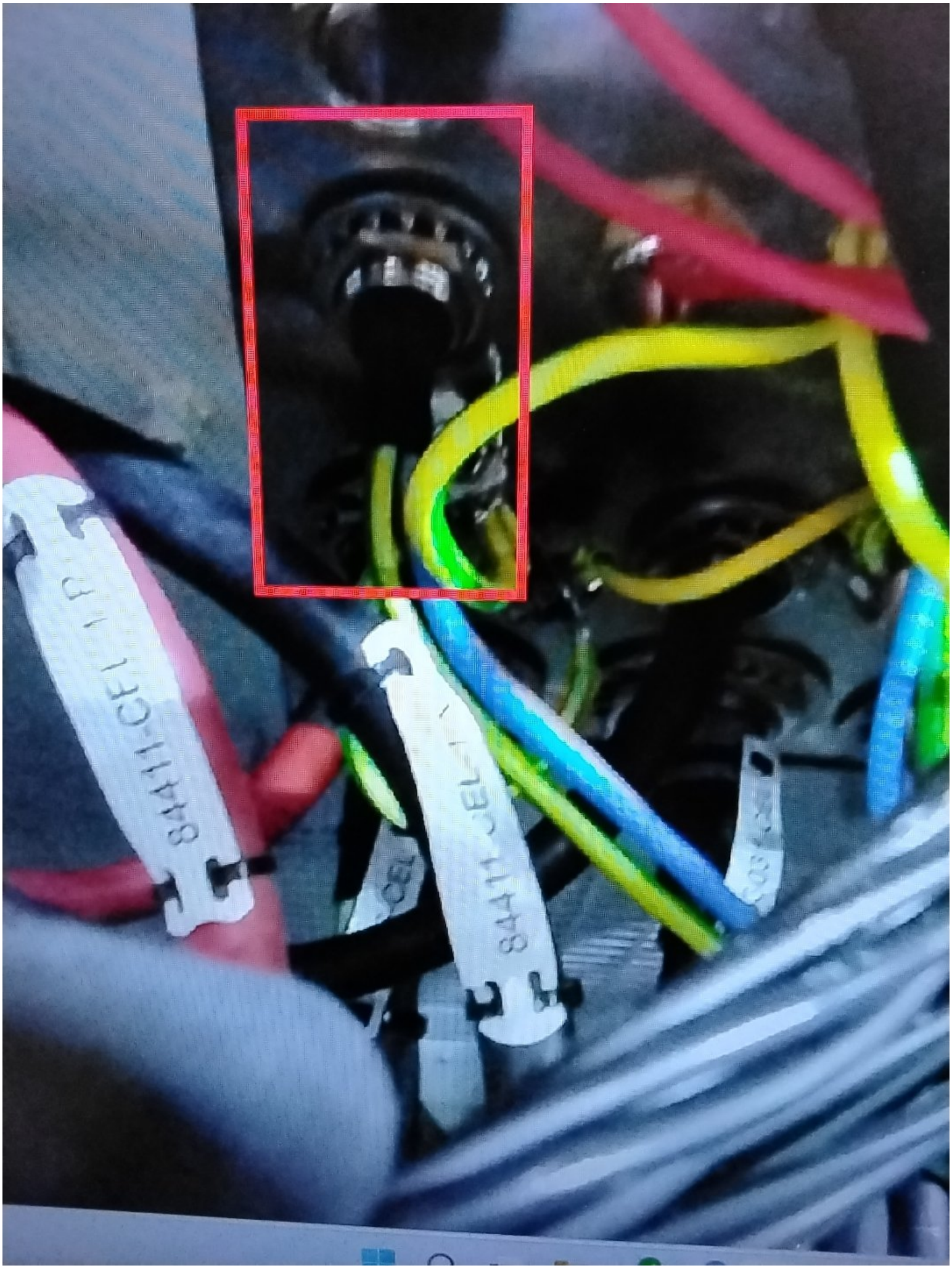
6- CLEARANCE APPROVAL

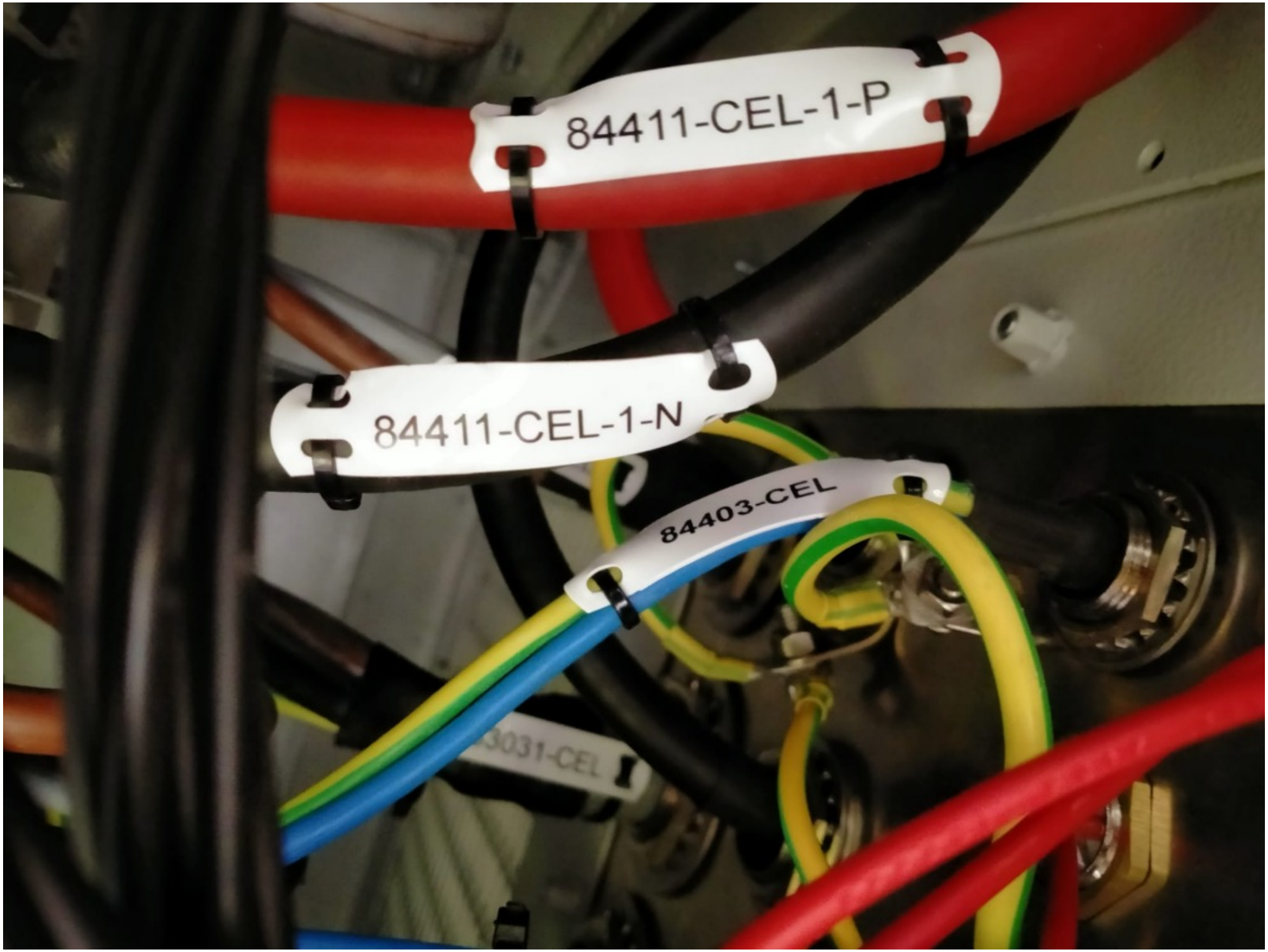
Name

Date

Signature

2024-11-07 16:01 By Giovanni Tangianu




84411-CEL-1-P
84411-CEL-1-N
84403-CEL

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30000356

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task		1.4 Discipline	Instrumental
1.2 Item	B400-NET-001		Network Cabinet
1.3 Subsystem	86-00		Data Networks

2 - OBSERVATION

Install MCT frame “C” on roof

Name

Date

Signature

3 - DEFECT ASSESSMENT

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	A PL A	Name	Stefano Linari
3.4 Activity code	FAT factory acceptance test	Date	2024-10-22
3.5 Action by		Signature	--- Proverlis --- Duplicata issued from database information Signature is on original form

4 - PERFORMED ACTION

ACTIVITY DONE

Name YOKOGAWA

Date 2024-11-27

Signature Digitaly signed by YOKOGAWA 2024-11-27T15:28:15.101Z

5 - CLEARANCE CHECK

ACTIVITY DONE

Name Stefano Linari

Date 2024-11-27

Signature Digitaly signed by Stefano Linari 2024-11-27T15:28:33.053Z

6- CLEARANCE APPROVAL

Name

Date

Signature


B400-NET-001
Fandis



ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30000357

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task		1.4 Discipline	Instrumental
1.2 Item	B400-SRV-001		Server Cabinet ITER
1.3 Subsystem	86-00		Data Networks

2 - OBSERVATION

Install MCT frame “C” on roof

Name

Date

Signature

3 - DEFECT ASSESSMENT

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	A PL A	Name	Stefano Linari
3.4 Activity code	FAT factory acceptance test	Date	2024-10-22
3.5 Action by		Signature	--- Proverlis --- Duplicata issued from database information Signature is on original form

4 - PERFORMED ACTION

activity done

Name YOKOGAWA

Date 2024-11-27

Signature PROVERLIS Digitaly signed by YOKOGAWA 2024-11-27T15:19:22.151Z

5 - CLEARANCE CHECK

ACTIVITY DONE

Name Stefano Linari

Date 2024-11-27

Signature PROVERLIS Digitaly signed by Stefano Linari 2024-11-27T15:19:42.702Z

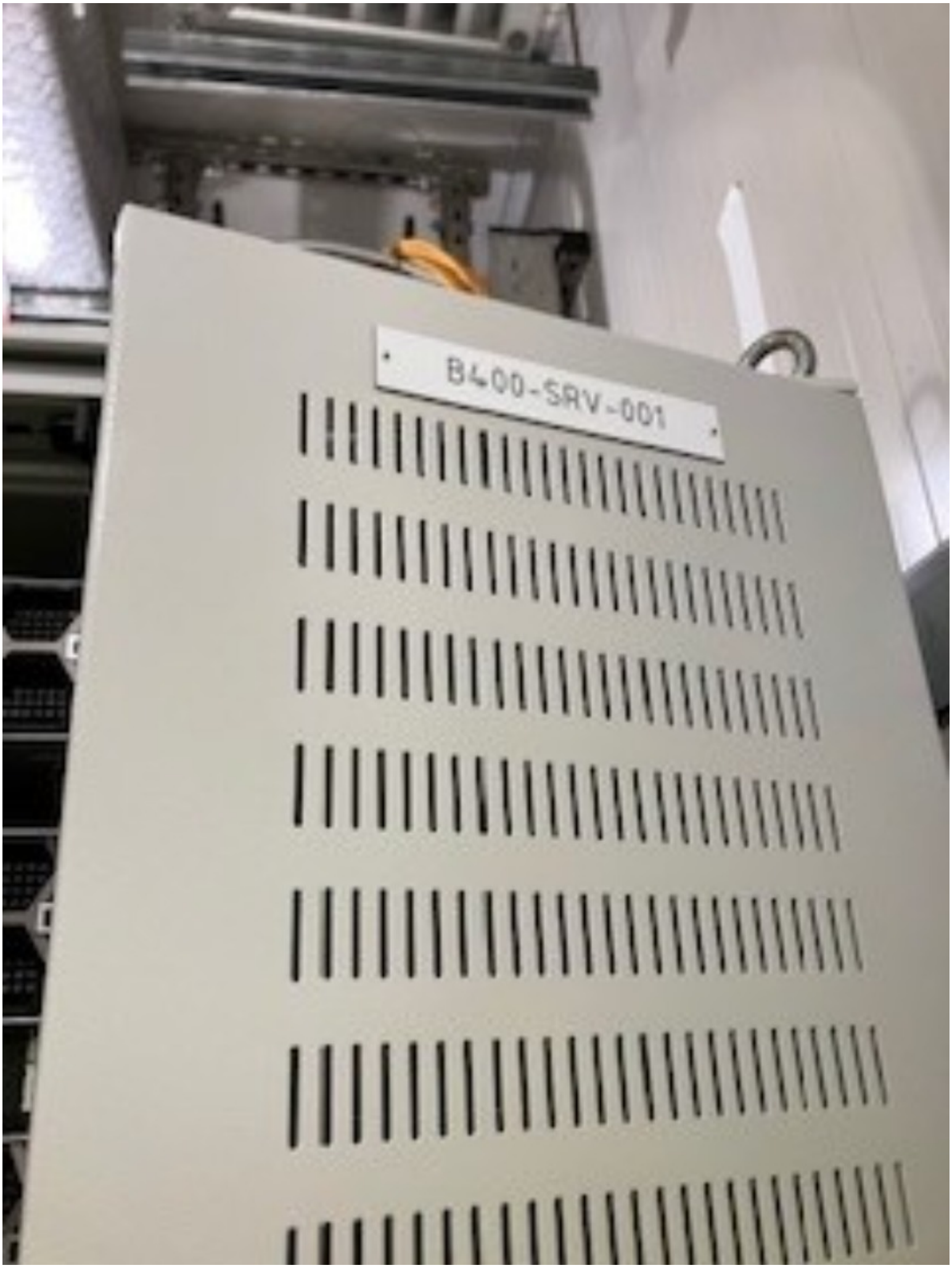
6- CLEARANCE APPROVAL

Name

Date

Signature




B400-SRV-001

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30000358

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task		1.4 Discipline	Instrumental
1.2 Item	B400-NET-001		Network Cabinet
1.3 Subsystem	86-00		Data Networks

2 - OBSERVATION

Closing panels with brush to be added on network cables passthrough points.

Name

Date

Signature

3 - DEFECT ASSESSMENT

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Stefano Linari
3.4 Activity code	FAT factory acceptance test	Date	2024-10-22
3.5 Action by		Signature	--- Proverlis --- Duplicata issued from database information Signature is on original form

4 - PERFORMED ACTION

INSTALLED

Name VENDOR YOKOGAWA

Date 2024-12-10

Signature PROVERLIS Digitaly signed by VENDOR YOKOGAWA 2024-12-10T14:37:17.879Z

5 - CLEARANCE CHECK

INSTALLED

Name Stefano Linari

Date 2024-12-10

Signature PROVERLIS Digitaly signed by Stefano Linari 2024-12-10T14:37:30.647Z

6- CLEARANCE APPROVAL

Name

Date

Signature



ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30000359

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task

1.4 Discipline Instrumental

1.2 Item B400-SRV-001 Server Cabinet ITER

1.3 Subsystem 86-00 Data Networks

2 - OBSERVATION

Closing panels with brush to be added on network cables passthrough points.

Name

Date

Signature

3 - DEFECT ASSESSMENT

3.1 Corrective action proposal

3.2 Material required

3.3 Priority B PL B

3.4 Activity code FAT factory acceptance test

3.5 Action by

Name Stefano Linari

Date 2024-10-22

Signature --- Proverlis ---
Duplicata issued from database information
Signature is on original form

4 - PERFORMED ACTION

INSTALLED

Name VENDOR YOKOGAWA

Date 2024-12-10

Signature Digitaly signed by VENDOR YOKOGAWA 2024-12-10T14:38:16.945Z

5 - CLEARANCE CHECK

INSTALLED

Name Stefano Linari

Date 2024-12-10

Signature Digitaly signed by Stefano Linari 2024-12-10T14:38:33.987Z

6- CLEARANCE APPROVAL

Name

Date

Signature



ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30000360

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task		1.4 Discipline	Instrumental
1.2 Item	B400-NET-001		Network Cabinet
1.3 Subsystem	86-00		Data Networks

2 - OBSERVATION

Check diagnostic signals from Hirschmann switches through WhatsUp Gold or through wirings. WhatUp Gold still to be configured

Name

Date

Signature

3 - DEFECT ASSESSMENT

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Stefano Linari
3.4 Activity code	FAT factory acceptance test	Date	2024-10-22
3.5 Action by		Signature	--- Proverlis --- Duplicata issued from database information Signature is on original form

4 - PERFORMED ACTION

Activity done

Name YOKOGAWA

Date 2025-03-21

Signature Digitaly signed by YOKOGAWA 2025-03-21T07:40:34.213Z

5 - CLEARANCE CHECK

Name Stefano Linari

Date 2025-03-21

Signature Digitaly signed by Stefano Linari 2025-03-21T07:40:48.100Z

6- CLEARANCE APPROVAL

Name

Date

Signature

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30000361

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task		1.4 Discipline	Instrumental
1.2 Item	B400-SRV-001		Server Cabinet ITER
1.3 Subsystem	86-00		Data Networks

2 - OBSERVATION

Check diagnostic signals from Hirschmann switches through WhatsUp Gold or through wirings. WhatUp Gold still to be configured

Name

Date

Signature

3 - DEFECT ASSESSMENT

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Stefano Linari
3.4 Activity code	FAT factory acceptance test	Date	2024-10-22
3.5 Action by		Signature	--- Proverlis --- Duplicata issued from database information Signature is on original form

4 - PERFORMED ACTION

Activity done

Name YOKOGAWA

Date 2025-03-21

Signature Digitaly signed by YOKOGAWA 2025-03-21T07:41:09.974Z

5 - CLEARANCE CHECK

Name Stefano Linari

Date 2025-03-21

Signature Digitaly signed by Stefano Linari 2025-03-21T07:41:19.671Z

6- CLEARANCE APPROVAL

Name

Date

Signature

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30000362

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task

1.4 Discipline Instrumental

1.2 Item B400-NET-001 Network Cabinet

1.3 Subsystem 86-00 Data Networks

2 - OBSERVATION

N.1 SFP module missing on SERVSWL2-002 port 1

Name

Date

Signature

3 - DEFECT ASSESSMENT

3.1 Corrective action proposal

3.2 Material required

3.3 Priority B PL B

3.4 Activity code FAT factory acceptance test

3.5 Action by

Name Stefano Linari

Date 2024-10-22

Signature --- Proverlis ---
Duplicata issued from database information
Signature is on original form

4 - PERFORMED ACTION

installed

Name VENDOR YOKOGAWA

Date 2024-12-13

Signature Digitaly signed by VENDOR YOKOGAWA 2024-12-13T09:39:31.516Z

5 - CLEARANCE CHECK

installed

Name Stefano Linari

Date 2024-12-13

Signature Digitaly signed by Stefano Linari 2024-12-13T09:39:44.664Z

6- CLEARANCE APPROVAL

Name

Date

Signature


SERVSWL2-002
BRS40
P1
0V
0V
P2
Power
TSN
USB
1
2
3
4
SERVSWL2-002:P6 /
MODSWL2-002:P9

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30000363

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task		1.4 Discipline	Instrumental
1.2 Item	B400-NET-001		Network Cabinet
1.3 Subsystem	86-00		Data Networks

2 - OBSERVATION

MCT module missing in NET cabinet (frame “D”) with related rubber devices.

Name

Date

Signature

3 - DEFECT ASSESSMENT

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	A PL A	Name	Stefano Linari
3.4 Activity code	FAT factory acceptance test	Date	2024-10-22
3.5 Action by		Signature	--- Proverlis --- Duplicata issued from database information Signature is on original form

4 - PERFORMED ACTION

ACTIVITY DONE

Name YOKOGAWA

Date 2024-11-27

Signature Digitaly signed by YOKOGAWA 2024-11-27T15:29:47.673Z

5 - CLEARANCE CHECK

ACTIVITY DONE

Name Stefano Linari

Date 2024-11-27

Signature Digitaly signed by Stefano Linari 2024-11-27T15:30:01.930Z

6- CLEARANCE APPROVAL

Name

Date

Signature

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30000364

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task		1.4 Discipline	Instrumental
1.2 Item	B400-SRV-001		Server Cabinet ITER
1.3 Subsystem	86-00		Data Networks

2 - OBSERVATION

MCT module missing in NET cabinet (frame “D”) with related rubber devices.

Name

Date

Signature

3 - DEFECT ASSESSMENT

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	A PL A	Name	Stefano Linari
3.4 Activity code	FAT factory acceptance test	Date	2024-10-22
3.5 Action by		Signature	--- Proverlis --- Duplicata issued from database information Signature is on original form

4 - PERFORMED ACTION

ACTIVITY DONE

Name YOKOGAWA

Date 2024-11-27

Signature PROVERLIS Digitaly signed by YOKOGAWA 2024-11-27T15:24:27.775Z

5 - CLEARANCE CHECK

ACTIVITY DONE

Name Stefano Linari

Date 2024-11-27

Signature PROVERLIS Digitaly signed by Stefano Linari 2024-11-27T15:24:45.848Z

6- CLEARANCE APPROVAL

Name

Date

Signature

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30000365

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task		1.4 Discipline	Instrumental
1.2 Item	B400-NET-001		Network Cabinet
1.3 Subsystem	86-00		Data Networks

2 - OBSERVATION

Missing N.4 SFP modules (multimode) to be installed in FW003 (ports P13, P14) and FW004 (ports P13, P14)

Name

Date

Signature

3 - DEFECT ASSESSMENT

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Stefano Linari
3.4 Activity code	FAT factory acceptance test	Date	2024-10-22
3.5 Action by		Signature	--- Proverlis --- Duplicata issued from database information Signature is on original form

4 - PERFORMED ACTION

installed

Name VENDOR YOKOGAWA

Date 2024-12-18

Signature PROVERLIS Digitaly signed by VENDOR YOKOGAWA 2024-12-18T14:54:04.169Z

5 - CLEARANCE CHECK

installed

Name Stefano Linari

Date 2024-12-18

Signature PROVERLIS Digitaly signed by Stefano Linari 2024-12-18T14:54:15.144Z

6- CLEARANCE APPROVAL

Name

Date

Signature

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30000366

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task		1.4 Discipline	Instrumental
1.2 Item	B400-SRV-001		Server Cabinet ITER
1.3 Subsystem	86-00		Data Networks

2 - OBSERVATION

Missing N.4 SFP modules (multimode) to be installed in FW003 (ports P13, P14) and FW004 (ports P13, P14)

Name

Date

Signature

3 - DEFECT ASSESSMENT

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Stefano Linari
3.4 Activity code	FAT factory acceptance test	Date	2024-10-22
3.5 Action by		Signature	--- Proverlis --- Duplicata issued from database information Signature is on original form

4 - PERFORMED ACTION

INSTALLED

Name VENDOR YOKOGAWA

Date 2024-12-18

Signature PROVERLIS Digitaly signed by VENDOR YOKOGAWA 2024-12-18T14:55:23.912Z

5 - CLEARANCE CHECK

INSTALLED

Name Stefano Linari

Date 2024-12-18

Signature PROVERLIS Digitaly signed by Stefano Linari 2024-12-18T14:55:34.343Z

6- CLEARANCE APPROVAL

Name

Date

Signature

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30000367

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task		1.4 Discipline	Instrumental
1.2 Item	B400-NET-001		Network Cabinet
1.3 Subsystem	86-00		Data Networks

2 - OBSERVATION

Add devices and wiring to implement power cut-off of switches and firewalls related to network connection in open area (external) by 79-XS-010 from SIS

Name

Date

Signature

3 - DEFECT ASSESSMENT

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Stefano Linari
3.4 Activity code	FAT factory acceptance test	Date	2024-10-22
3.5 Action by		Signature	--- Proverlis --- Duplicata issued from database information Signature is on original form

4 - PERFORMED ACTION

activity done and verified

Name VENDOR YOKOGAWA

Date 2024-12-18

Signature Digitaly signed by VENDOR YOKOGAWA 2024-12-18T14:51:07.193Z

5 - CLEARANCE CHECK

ACTIVITY DONE and verified

Name Stefano Linari

Date 2024-12-18

Signature Digitaly signed by Stefano Linari 2024-12-18T14:51:32.624Z

6- CLEARANCE APPROVAL

Name

Date

Signature

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30000368

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task		1.4 Discipline	Instrumental
1.2 Item	B400-SRV-001		Server Cabinet ITER
1.3 Subsystem	86-00		Data Networks

2 - OBSERVATION

Add devices and wiring to implement power cut-off of switches and firewalls related to network connection in open area (external) by 79-XS-010 from SIS

Name

Date

Signature

3 - DEFECT ASSESSMENT

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Stefano Linari
3.4 Activity code	FAT factory acceptance test	Date	2024-10-22
3.5 Action by		Signature	--- Proverlis --- Duplicata issued from database information Signature is on original form

4 - PERFORMED ACTION

activity done and verified

Name VENDOR YOKOGAWA

Date 2024-12-18

Signature Digitaly signed by VENDOR YOKOGAWA 2024-12-18T14:52:31.239Z

5 - CLEARANCE CHECK

activity done and verified

Name Stefano Linari

Date 2024-12-18

Signature Digitaly signed by Stefano Linari 2024-12-18T14:52:41.759Z

6- CLEARANCE APPROVAL

Name

Date

Signature

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30000387

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10000597	1.4 Discipline	Electrical
1.2 Item	84404-CEL		AC UPS - F&G DB / System Server / Network Cabinet - Line B
1.3 Subsystem	86-00		Data Networks

2 - OBSERVATION

Plastic cable ties used to fix the cable tag should be replaced on all external routing.

Name: Giovanni Tangianu

Date: 2024-11-07

Signature: Digitaly signed by Giovanni Tangianu 2024-11-07T16:14:14.591Z

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	2024-11-08
3.5 Action by	RM_CONSTR RM	Signature	Digitaly signed by Giovanni Tangianu 2024-11-08T14:33:02.375Z

4 - PERFORMED ACTION

Name

Date

Signature

5 - CLEARANCE CHECK

DONE

Name: Paolo Schintu

Date: 2025-02-26

Signature: Digitaly signed by Paolo Schintu 2025-02-26T12:38:47.727Z

6- CLEARANCE APPROVAL

Name

Date

Signature

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30000388

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10000597	CPX09	1.4 Discipline	Electrical
1.2 Item	84404-CEL			
1.3 Subsystem	86-00			

2 - OBSERVATION

Identification tags wires is wrong.

Name: Giovanni Tangianu

Date: 2024-11-07

Signature: Firma Digitale Sicura
Giovanni Tangianu
2024-11-07T16:22:17+0100

3 - DEFECT ASSESSMENT

need to be changed.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority: B PL B

3.4 Activity code: MC Mechanical Completion

3.5 Action by: RM_CONSTR RM

Name: Giovanni Tangianu

Date: 2024-11-08

Signature: Digitaly signed by
Giovanni Tangianu
2024-11-08T14:33:54.399Z

4 - PERFORMED ACTION

Name

Date

Signature

5 - CLEARANCE CHECK

Installed.

Name: Giovanni Tangianu

Date: 2024-12-16

Signature: Digitaly signed by
Giovanni Tangianu
2024-12-16T16:20:17.236Z

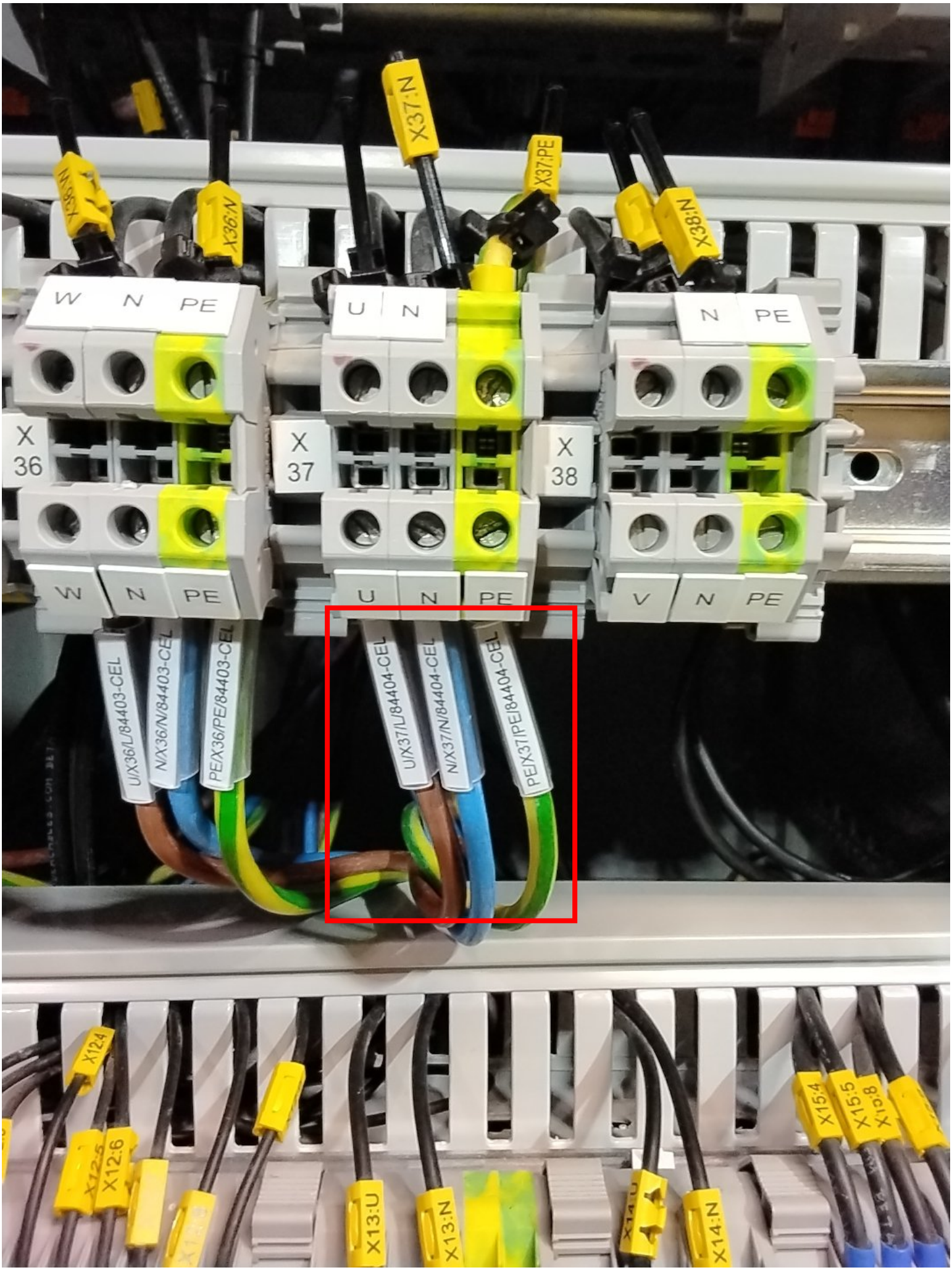
6- CLEARANCE APPROVAL

Name

Date

Signature

2024-11-07 14:43 By Giovanni Tangianu



ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30000389

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10000597	CPX09	1.4 Discipline	Electrical
1.2 Item	84404-CEL			
1.3 Subsystem	86-00			

2 - OBSERVATION

Identification numbers on terminal strip are missing (PE)

Name: Giovanni Tangianu

Date: 2024-11-07

Signature: Firma Digitale Sicura
Giovanni Tangianu
2024-11-07T16:22:27+0100

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	2024-11-08
3.5 Action by	RM_CONSTR RM	Signature	Digitaly signed by Giovanni Tangianu 2024-11-08T14:34:50.004Z

4 - PERFORMED ACTION

Name

Date

Signature

5 - CLEARANCE CHECK

Installed.

Name: Giovanni Tangianu

Date: 2025-02-04

Signature: Digitaly signed by Giovanni Tangianu 2025-02-04T12:57:11.016Z

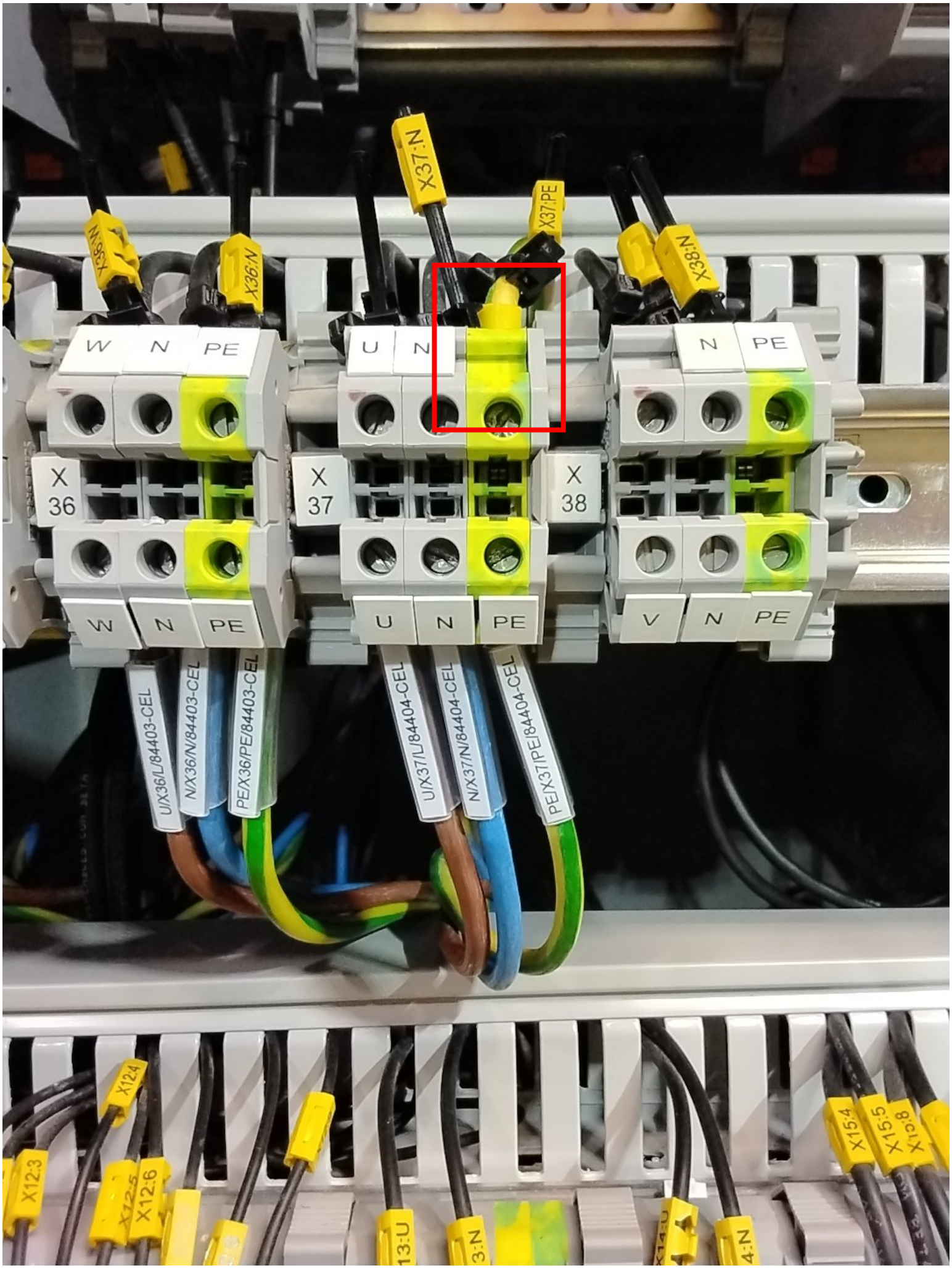
6- CLEARANCE APPROVAL

Name

Date

Signature

2024-11-07 14:45 By Giovanni Tangianu



ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30000390

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10000597	CPX09	1.4 Discipline	Electrical
1.2 Item	84404-CEL			
1.3 Subsystem	86-00			

2 - OBSERVATION

Cable to be fixed with proper cable ties, after MCT installetion (point valid for internal and exsternal cable routing)

Name: Giovanni Tangianu

Date: 2024-11-07

Signature: Firma Digitale Sicura
Giovanni Tangianu
2024-11-07T16:24:59+0100

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	2024-11-08
3.5 Action by	RM_CONSTR RM	Signature	Digitaly signed by Giovanni Tangianu 2024-11-08T14:35:36.410Z

4 - PERFORMED ACTION

Name

Date

Signature

5 - CLEARANCE CHECK

FIXED.

Name: Giovanni Tangianu

Date: 2025-01-31

Signature: Digitaly signed by Giovanni Tangianu
2025-01-31T10:48:12.431Z

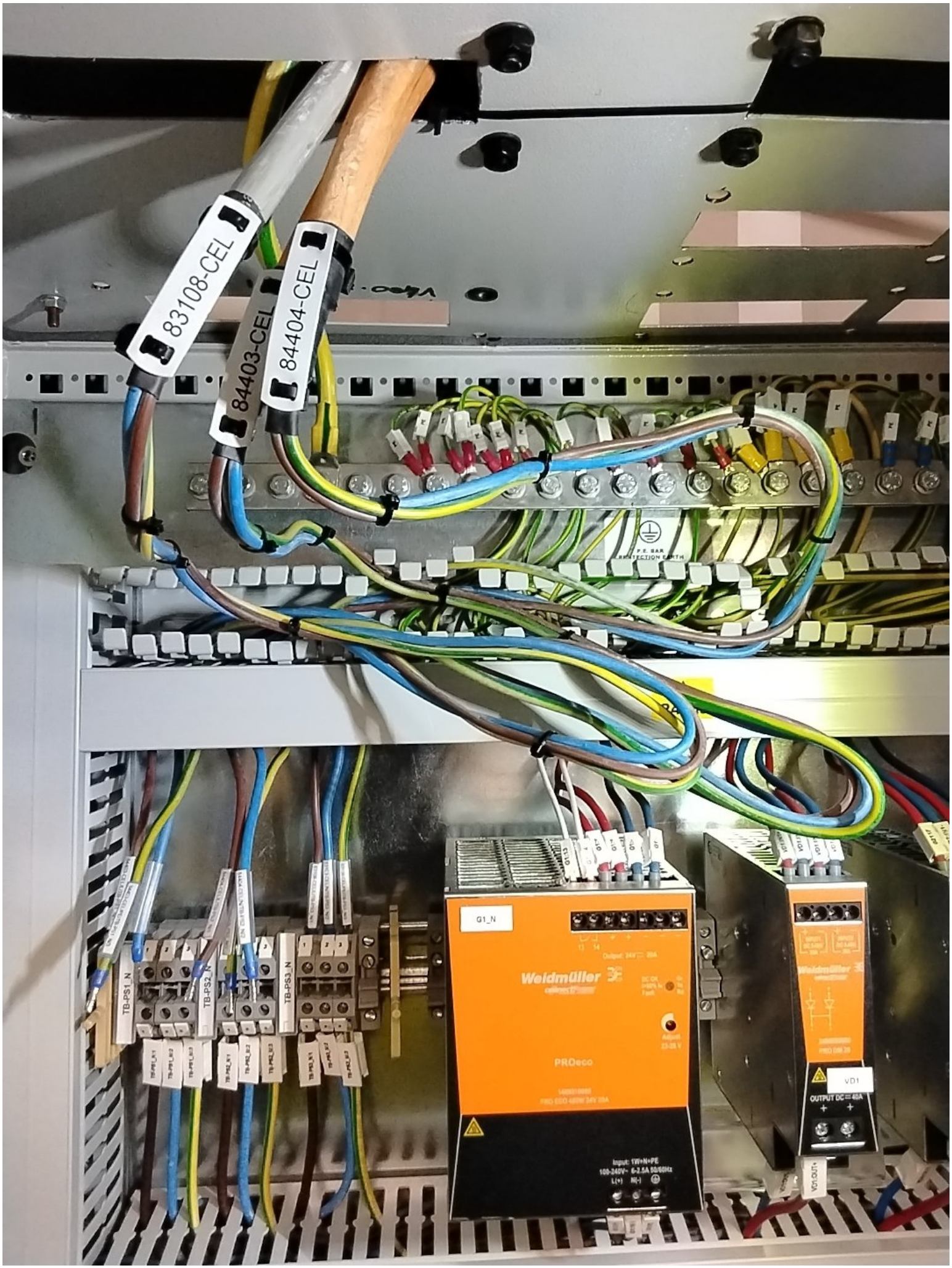
6- CLEARANCE APPROVAL

Name

Date

Signature

2024-11-07 12:06 By Giovanni Tangianu



ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30000412

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10000628	1.4 Discipline	Electrical
1.2 Item	83109-CEL		Lighting & Small Power DB BoP / Server cabiner ITER - Auxiliary
1.3 Subsystem	86-00		Data Networks

2 - OBSERVATION

Plastic cable ties to be replaced on external routing

Name: Giovanni Tangianu

Date: 2024-11-09

Signature: Digitaly signed by Giovanni Tangianu 2024-11-09T10:09:49.160Z

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	2024-11-09
3.5 Action by	RM_CONSTR RM	Signature	Digitaly signed by Giovanni Tangianu 2024-11-09T10:10:04.615Z

4 - PERFORMED ACTION

Name

Date

Signature

5 - CLEARANCE CHECK

DONE

Name: Paolo Schintu

Date: 2025-02-26

Signature: Digitaly signed by Paolo Schintu 2025-02-26T12:55:18.363Z

6- CLEARANCE APPROVAL

Name

Date

Signature

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30000413

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10000627	1.4 Discipline	Electrical
1.2 Item	83108-CEL		Lighting & Small Power DB BoP / System Server / Network Cabinet - Auxiliary
1.3 Subsystem	86-00		Data Networks

2 - OBSERVATION

Plastic cable ties to be replaced on external routing

Name: Giovanni Tangianu

Date: 2024-11-09

Signature: Digitaly signed by Giovanni Tangianu 2024-11-09T10:10:39.281Z

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	2024-11-09
3.5 Action by	RM_CONSTR RM	Signature	Digitaly signed by Giovanni Tangianu 2024-11-09T10:10:52.387Z

4 - PERFORMED ACTION

Name

Date

Signature

5 - CLEARANCE CHECK

DONE

Name: Paolo Schintu

Date: 2025-02-26

Signature: Digitaly signed by Paolo Schintu 2025-02-26T12:55:28.441Z

6- CLEARANCE APPROVAL

Name

Date

Signature

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30000414

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10000627	CPX09	1.4 Discipline	Electrical
1.2 Item	83108-CEL		Lighting & Small Power DB BoP / System Server / Network Cabinet - Auxiliary	
1.3 Subsystem	86-00		Data Networks	

2 - OBSERVATION

Missing cable tags on routing, inside and outside the panels

Name: Giovanni Tangianu

Date: 2024-11-08

Signature: Firma Digitale Sicura
Giovanni Tangianu
2024-11-08T10:02:36+0100

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Eleonora Carotenuto
3.4 Activity code	MC Mechanical Completion	Date	2024-11-09
3.5 Action by	PRE-COMM	Signature	Digitaly signed by Eleonora Carotenuto 2024-11-09T10:35:01.099Z

4 - PERFORMED ACTION

Name

Date

Signature

5 - CLEARANCE CHECK

DONE

Name: Josip Krizanic

Date: 2025-03-04

Signature: Digitaly signed by Josip Krizanic
2025-03-04T15:38:44.850Z

6- CLEARANCE APPROVAL

Name

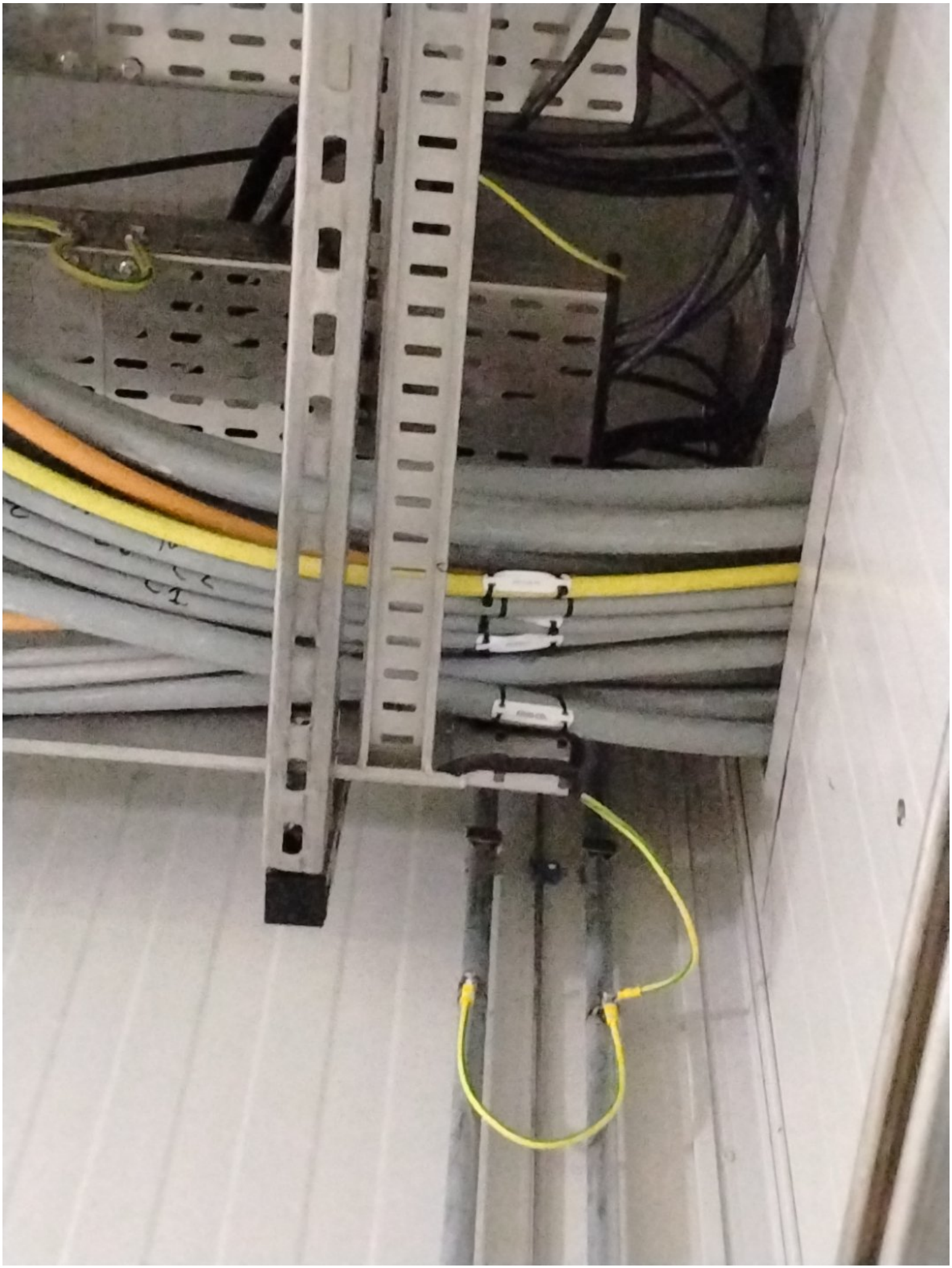
Date

Signature

2024-11-08 10:02 By Giovanni Tangianu



2024-11-08 10:02 By Giovanni Tangianu



ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30000417

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10000628	CPX09	1.4 Discipline	Electrical
1.2 Item	83109-CEL		Lighting & Small Power DB BoP / Server cabiner ITER - Auxiliary	
1.3 Subsystem	86-00		Data Networks	

2 - OBSERVATION

Missing cable tags on routing, inside and outside the panels

Name: Giovanni Tangianu

Date: 2024-11-08

Signature: Firma Digitale Sicura
Giovanni Tangianu
2024-11-08T10:08:22+0100

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority: B PL B

3.4 Activity code: MC Mechanical Completion

3.5 Action by: PRE-COMM

Name: Eleonora Carotenuto

Date: 2024-11-09

Signature: Digitaly signed by
Eleonora Carotenuto
2024-11-09T10:44:28.434Z

4 - PERFORMED ACTION

Name

Date

Signature

5 - CLEARANCE CHECK

DONE

Name: Josip Krizanic

Date: 2025-03-04

Signature: Digitaly signed by
Josip Krizanic
2025-03-04T15:39:20.568Z

6- CLEARANCE APPROVAL

Name

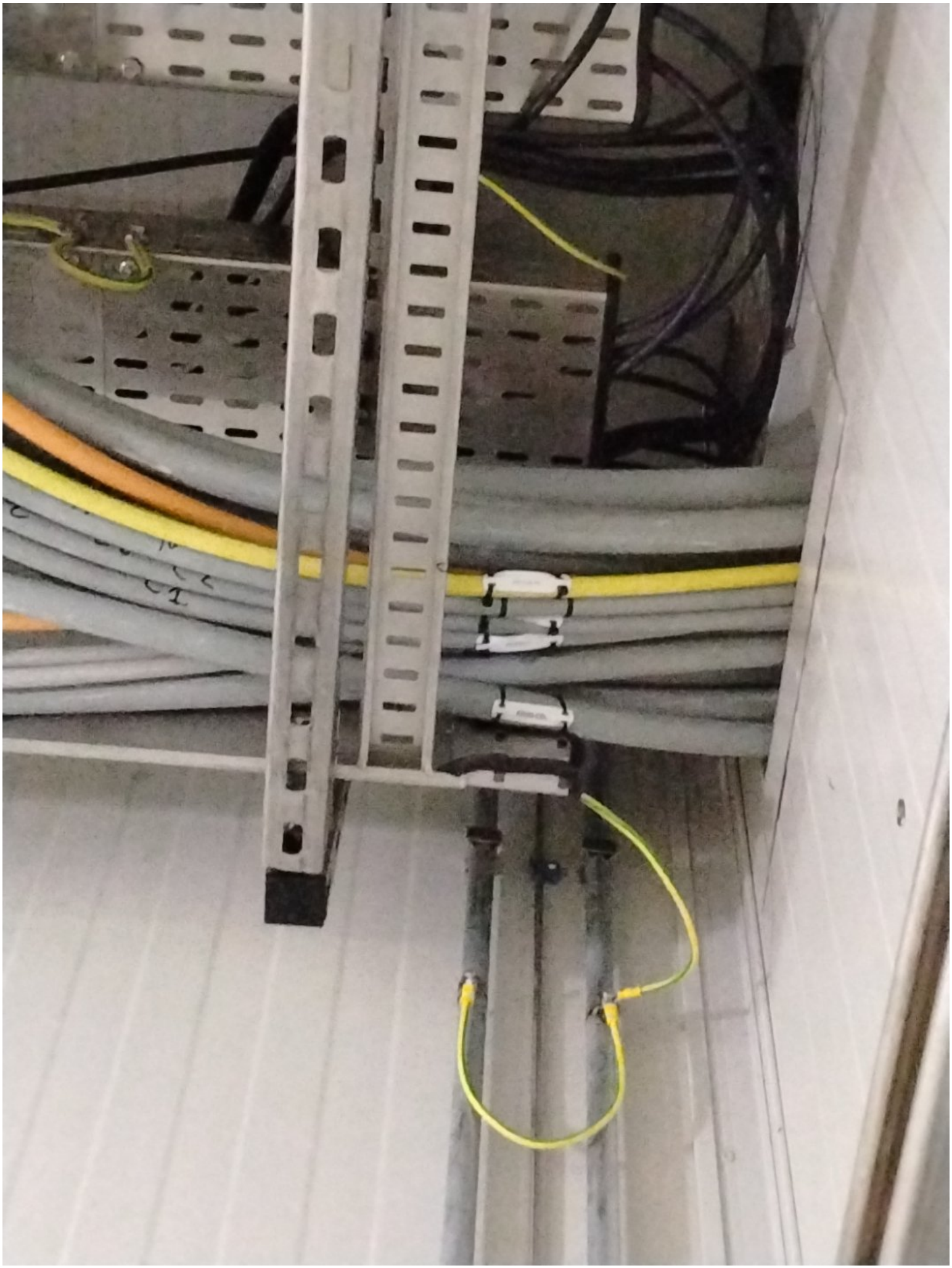
Date

Signature

2024-11-08 10:08 By Giovanni Tangianu



2024-11-08 10:08 By Giovanni Tangianu



ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30000656

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10000841	1.4 Discipline	Instrumental
1.2 Item	B400-NET-001	Network Cabinet	
1.3 Subsystem	86-00	Data Networks	

2 - OBSERVATION

Cleaning is required inside the panels.

Name: Giovanni Tangianu

Date: 2024-11-19

Signature: Digitaly signed by Giovanni Tangianu 2024-11-19T14:56:12.320Z

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	2024-11-20
3.5 Action by	RM_CONSTR RM	Signature	Digitaly signed by Giovanni Tangianu 2024-11-20T14:07:42.691Z

4 - PERFORMED ACTION

Name

Date

Signature

5 - CLEARANCE CHECK

Done.

Name: Giovanni Tangianu

Date: 2024-12-28

Signature: Digitaly signed by Giovanni Tangianu 2024-12-28T08:55:22.129Z

6- CLEARANCE APPROVAL

Name

Date

Signature

ROSETTI MARINO CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30000657

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10000845	1.4 Discipline	Instrumental
1.2 Item	B400-SRV-001	Server Cabinet ITER	
1.3 Subsystem	86-00	Data Networks	

2 - OBSERVATION

The GA (1724000594-IN-DG-00022) does not match the installed.

Name: Giovanni Tangianu

Date: 2024-11-19

Signature: Digitaly signed by Giovanni Tangianu 2024-11-19T16:12:34.086Z

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	2024-11-20
3.5 Action by	VND Vendor	Signature	Digitaly signed by Giovanni Tangianu 2024-11-20T14:15:14.822Z

4 - PERFORMED ACTION

Name

Date

Signature

5 - CLEARANCE CHECK

Done.

Name: Giovanni Tangianu

Date: 2025-02-21

Signature: Digitaly signed by Giovanni Tangianu 2025-02-21T15:43:50.225Z

6- CLEARANCE APPROVAL

Name

Date

Signature

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30001031

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10004721	1.4 Discipline	Telecom
1.2 Item	C-GPSANT/B400-NET-001	C-GPSANT/B400-NET-001	
1.3 Subsystem	86-00	Data Networks	

2 - OBSERVATION

Missing cables tag , cabinet side B400-NET-001

Name: Alessio Polo

Date: 2024-11-29

Signature: Digitaly signed by Alessio Polo 2024-11-29T12:27:09.519Z

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Alessio Polo
3.4 Activity code	MC Mechanical Completion	Date	2024-11-29
3.5 Action by	RM_CONSTR RM	Signature	Digitaly signed by Alessio Polo 2024-11-29T12:27:22.166Z

4 - PERFORMED ACTION

Name

Date

Signature

5 - CLEARANCE CHECK

DONE

Name: Eleonora Carotenuto

Date: 2025-02-21

Signature: Digitaly signed by Eleonora Carotenuto 2025-02-21T11:53:45.356Z

6- CLEARANCE APPROVAL

Name

Date

Signature

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30001032

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10004721	1.4 Discipline	Telecom
1.2 Item	C-GPSANT/B400-NET-001	C-GPSANT/B400-NET-001	
1.3 Subsystem	86-00	Data Networks	

2 - OBSERVATION

Missing cable tag SS , near the C-GPSANT.

Name: Alessio Polo

Date: 2024-11-29

Signature: Digitaly signed by Alessio Polo 2024-11-29T12:28:03.495Z

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Alessio Polo
3.4 Activity code	MC Mechanical Completion	Date	2024-11-29
3.5 Action by	RM_CONSTR RM	Signature	Digitaly signed by Alessio Polo 2024-11-29T12:28:15.136Z

4 - PERFORMED ACTION

Name

Date

Signature

5 - CLEARANCE CHECK

DONE

Name: Alessio Polo

Date: 2025-02-26

Signature: Digitaly signed by Alessio Polo 2025-02-26T13:10:44.707Z

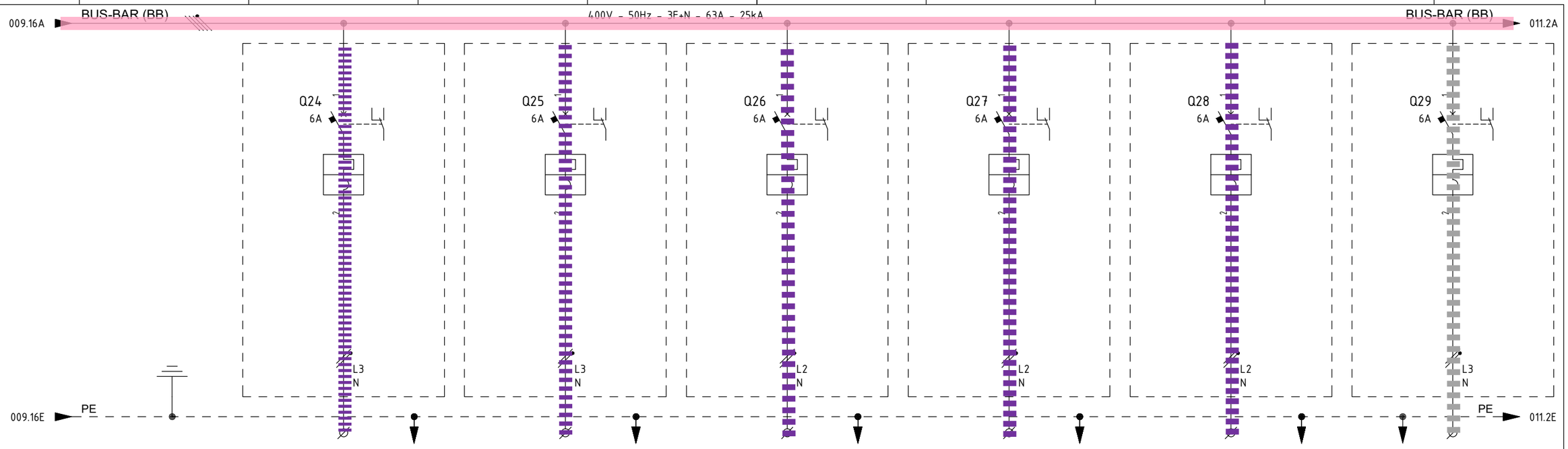
6- CLEARANCE APPROVAL

Name

Date

Signature

Section 3 SYSTEM,SUB-SYSTEM LIMIT DRAWINGS



ITEM			1	B400-PCS-001	B400-EMCS-001	B400-FGS-001	B400-NET-001	B400-SRV-001	CP-630E1
UTILITY			2	PCS-CONTROLLER AND I/O CABINET - AUXILIARY	EMCS-CONTROLLER AND I/O CABINET - AUXILIARY	FGS FIRE & GAS PANEL - AUXILIARY	SYSTEM SERVER / NETWORK CABINET - AUXILIARY	SERVER CABINET ITER - AUXILIARY	UCP - INSTRUMENT AIR PACKAGE -A-63000 - AUXILIARY
CUBICLE			3	+03	+03	+03	+03	+03	+03
RATED POWER | RATED CURRENT			4/5	0.5 KW | 2.72 A	0.5 KW | 2.72 A	0.8 KW | 4.35 A	0.5 KW | 2.72 A	0.5 KW | 2.72 A	0.5 KW | 2.72 A
TYPICAL FUNCTIONAL			6	-	-	-	-	-	-
CIRCUIT BREAKER (ABB)	TYPE		7	S302P-C6	S302P-C6	S302P-C6	S302P-C6	S302P-C6	S302P-C6
	VERSION		8	2P / MINIATURE	2P / MINIATURE	2P / MINIATURE	2P / MINIATURE	2P / MINIATURE	2P / MINIATURE
	TRIP UNITS		9	In=6A - Curve C	In=6A - Curve C	In=6A - Curve C	In=6A - Curve C	In=6A - Curve C	In=6A - Curve C
	Icu	KA	10	25kA	25kA	25kA	25kA	25kA	25kA
OVERLOAD	L	Range A	11	-	-	-	-	-	-
		Range t	12	-	-	-	-	-	-
SEL. SHORT-CIRCUIT	S	Range A	13	-	-	-	-	-	-
		Range t	14	-	-	-	-	-	-
INST. SHORT-CIRCUIT	I	Range A	15	SUBSYSTEM 87-10	SUBSYSTEM 87-00	SUBSYSTEM 70-00	SUBSYSTEM 86-00	SUBSYSTEM 86-00	SUBSYSTEM 63-00
		Range t	16						
EARTH FAULT PROTECTION	G	Range A	17	-	-	-	-	-	-
		Range t	18	-	-	-	-	-	-
CONTACTOR (ABB)			19	-	-	-	-	-	-
THERMAL OVERLOAD RELAY (ABB)			20	-	-	-	-	-	-
SURGE ARRESTERS (DHENN)			21	-	-	-	-	-	-
TOROIDAL CURRENT TRANSFORMER (FRER)			22	-	-	-	-	-	-
FUSE HOLDER (ABB)			23	-	-	-	-	-	-
TWILIGHT SWITCH (ABB)			24	-	-	-	-	-	-
VOLTMETER (FRER)			25	-	-	-	-	-	-
CURRENT TRANSFORMER FOR MEASURE (FRER)	TYPE		26	-	-	-	-	-	-
	PERFORMANCE/CLASS		27	-	-	-	-	-	-
VOLTAGE TRANSFORMER FOR MEASURE (FRER)	TYPE		28	-	-	-	-	-	-
	PERFORMANCE/CLASS		29	-	-	-	-	-	-
POWER TERM. BLOCK (CABUR)		Type/mm²	30	SCREW / 4	SCREW / 4	SCREW / 4	SCREW / 4	SCREW / 4	SCREW / 4
POWER CONDUCTOR		mm²	31	3G2.5	3G2.5	3G2.5	3G2.5	3G2.5	3G2.5

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
=					
+					
3	05/07/2024	Santinelli	Flamminio	Sigismondi	Accepted for construction (AFC)
2	24/04/2024	Santinelli	Flamminio	Sigismondi	Issued for review (IFR)
1	15/03/2024	Santinelli	Flamminio	Sigismondi	Issued for review (IFR)
0	08/02/2024	Santinelli	Flamminio	Sigismondi	Issued for review (IFR)

DWG n° : 231298/SD/13
Item n° : PF1002888/101

IMESA ELECTRICAL ENGINEERING

CROSSWIND

ROSETTI MARINO

TITLE : "DP-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-00013

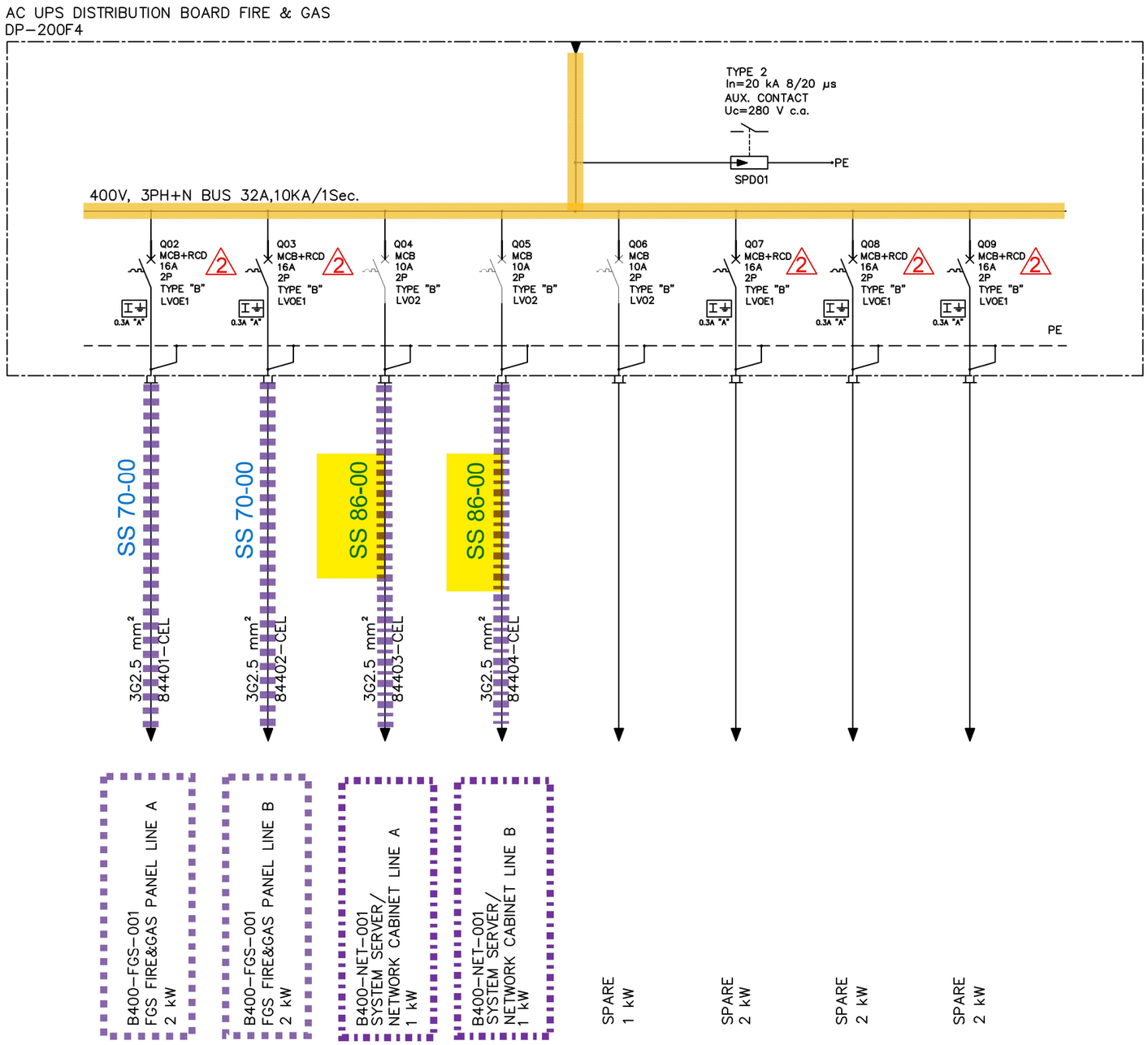
SHEET 010

REV. 03

F.to UNI A3: 420mmx297mm

File Name : 1723002197-EL-DG-00013 Rev. 03

AC UPS – FIRE & GAS SINGLE LINE DIAGRAM (UP–200F4) DISTRIBUTION BOARD DETAILS



REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	27/09/24	SAM	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	12/04/24	SAM	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	14/02/24	SAM	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL SINGLE LINE DIAGRAMS AC UPS SYSTEMS
AC UPS DISTRIBUTION BOARD FIRE & GAS (UP–200F4)

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

SCALE : 1:X

A3

DRAWING NO. 123A90–DDL–EL–DG–20160

SHEET 007

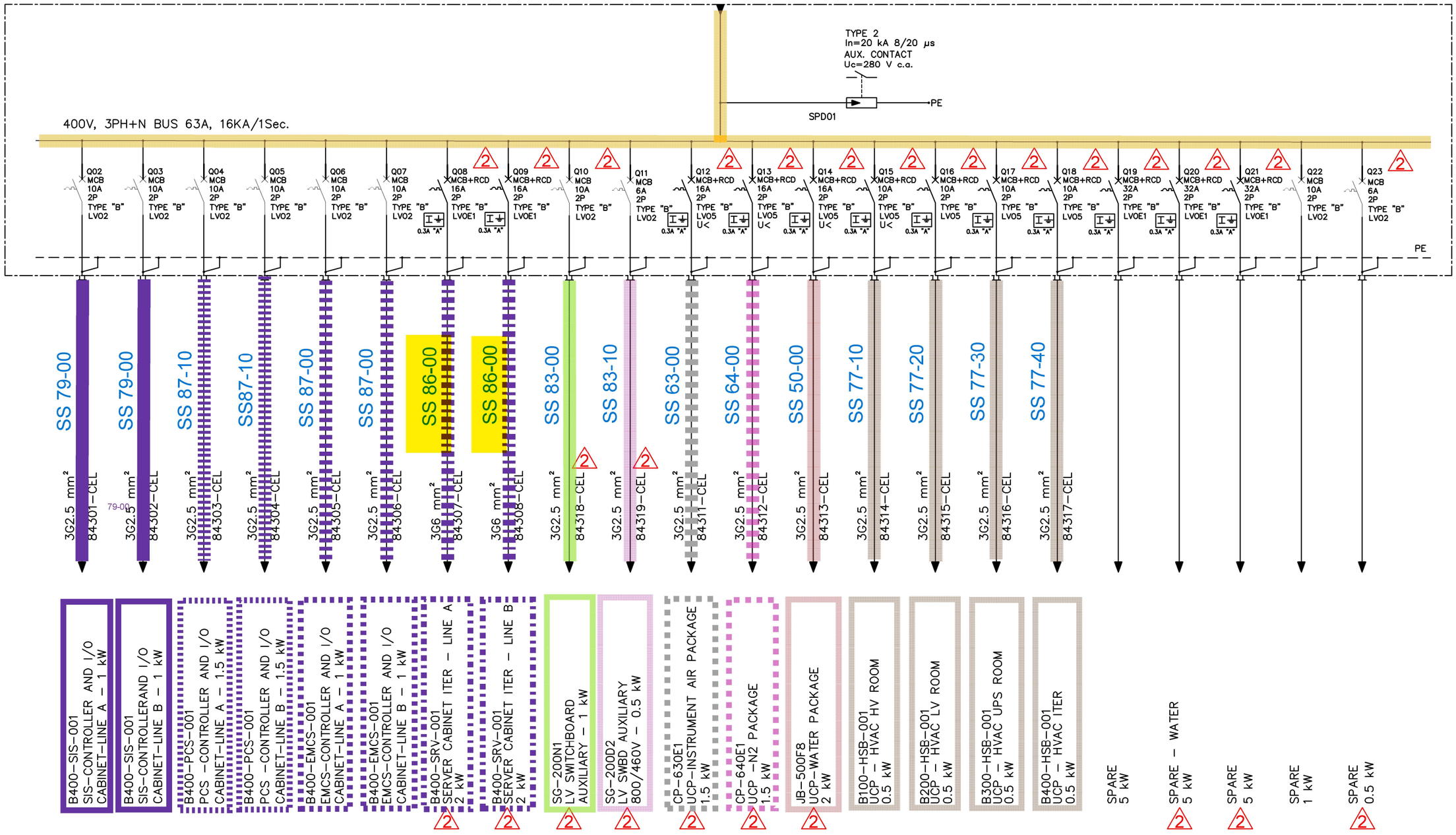
REV. 02

File Name : 123A90–DDL–EL–DG–20160 Rev. 02

F.to UNI A3: 420mmx297mm

AC UPS – PAS SINGLE LINE DIAGRAM(UP–200F3) DISTRIBUTION BOARD DETAILS

AC UPS DISTRIBUTION BOARD–PAS
DP–200F3



REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	27/09/24	SAM	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	12/04/24	SAM	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	14/02/24	SAM	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL SINGLE LINE DIAGRAMS AC UPS SYSTEMS
AC UPS – PAS DISTRIBUTION BOARD SLD (UP–200F3)

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

A3 | DRAWING NO. 123A90–DDL–EL–DG–20160 | SHEET 005 | REV. 02

File Name : 123A90–DDL–EL–DG–20160 Rev. 02

F.to UNI A3: 420mmx297mm

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: 86-00 & process: MC & discipline : E

Electrical	86-00 Data Networks						
ITEM		TASK					
Code	Description	Location	Code	Form	Progress	Date	Certificate
83108-CEL	Lighting & Small Power DB BoP / System Server / Network Cabinet - Auxiliary	ONSHORE	C10000627	CPX09	100	2024-11-09	RFC 1
83109-CEL	Lighting & Small Power DB BoP / Server cabiner ITER - Auxiliary	ONSHORE	C10000628	CPX09	100	2024-11-09	RFC 1
84307-CEL	AC UPS - PAS DB / Server Cabinet ITER - Line A	ONSHORE	C10000585	CPX09	100	2024-11-08	RFC 1
84308-CEL	AC UPS - PAS DB / Server Cabinet ITER - Line B	ONSHORE	C10000586	CPX09	100	2024-11-08	RFC 1
84403-CEL	AC UPS - F&G DB / System Server / Network Cabinet - Line A	ONSHORE	C10000596	CPX09	100	2024-11-08	RFC 1
84404-CEL	AC UPS - F&G DB / System Server / Network Cabinet - Line B	ONSHORE	C10000597	CPX09	100	2024-11-08	RFC 1

ITEM	Tag	84307-CEL	: AC UPS - PAS DB / Server Cabinet ITER - Line A			Dwg	123A90-DDL-EL-LIS-20148
	S/Sys	86-00	: Data Networks			Module	LD_B-300/LD_B-400
TASK	code	C10000585	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/MGT/EPR/LSZH/GSWB/LSZH Cores/Size mm² 3G6 mm2 Color Orange

From DP-200F3 To B400-SRV-001

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.	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.	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	OK
13	If required produce Red Line Mark Up for "AS BUILT"	

ROSETTI MARINO PROVERLIS CROSSWIND

ITEM	Tag	84307-CEL	: AC UPS - PAS DB / Server Cabinet ITER - Line A			Dwg	123A90-DDL-EL-LIS-20148
	S/Sys	86-00	: Data Networks			Module	LD_B-300/LD_B-400
TASK	code	C10000585		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	0,3	
6		PH 2	0,3	
7		PH 3	NA	
8	ARMOUR CONTINUITY Ω		0,4	
9	PROTECTIVE CONDUCTOR CONTINUITY Ω		0,3	
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	NA	
13	CABLE IS CORRECTLY RE-CONNECTED.		Yes	

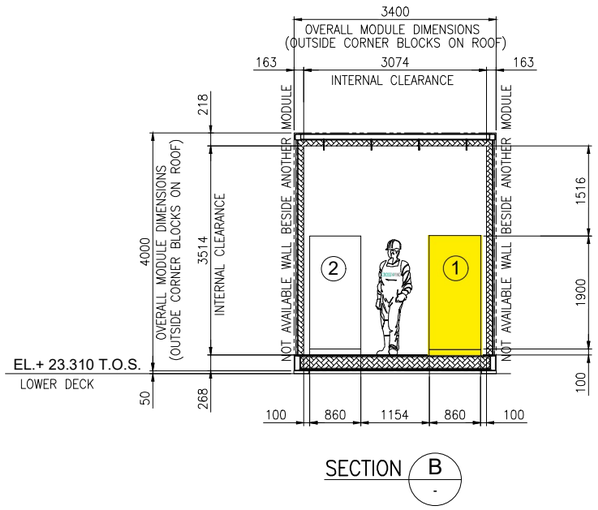
TESTING INSTRUMENTS USED			
TYPE / SERIAL N° :	MEGGER : KEW3125A SERIAL: W8330207	TYPE / SERIAL N° :	MULTIMETER: FLUKE 175 SERIAL:AW1/018(17140769)
Calibration certificate N° and date:	N°7722/24 _ 10/07/2024	Calibration certificate N° and date:	N°7715/24 _ 10/07/2024

Comments:

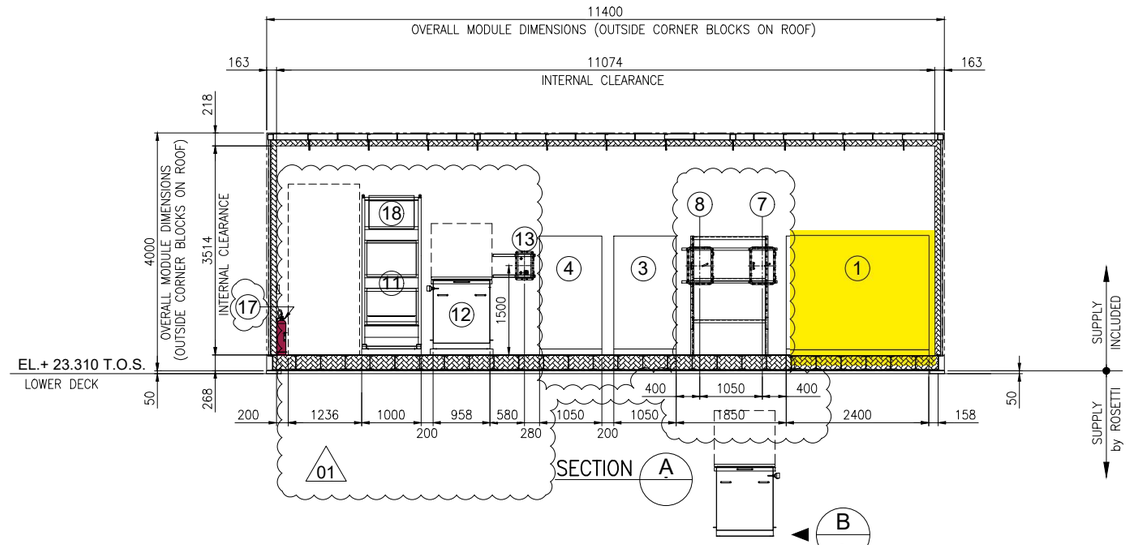
	Performed by	● WITNESS ☐ REVIEW	☐ WITNESS ☐ REVIEW
Company	ICS IMPIANTI	RM (ROSETTI MARINO)	
Name	Carmelo Bongiovanni	Giovanni Tangianu	
Date	2024-11-06	2024-11-08	
Signature	PROVERLIS Digitaly signed by Carmelo Bongiovanni 2024-11-06T17:13:54.754Z	PROVERLIS Digitaly signed by Giovanni Tangianu 2024-11-08T12:59:34.506Z	

DRAWING NO. 123A90-DDL-EL-DL-20106

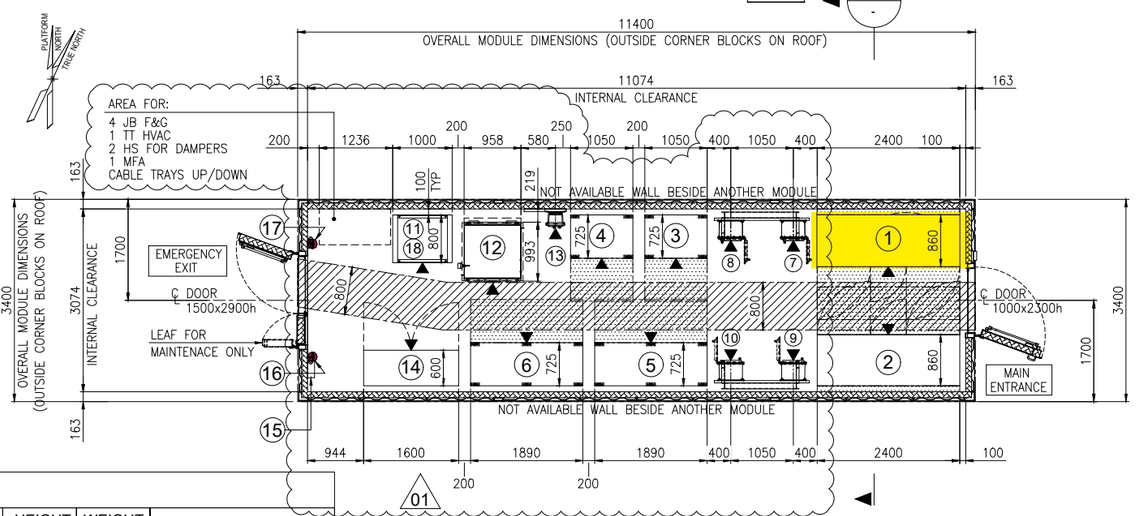
REV. 01



SECTION B



SECTION A



EQUIPMENT LAYOUT
"B-300" UPSs & BATTERIES SWITCHROOM
BOTTOM PLAN

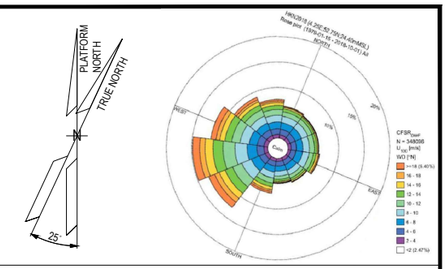
EQUIPMENT LIST

REF.	TAG No.	DESCRIPTION	LENGTH (mm)	WIDTH (mm)	HEIGHT (mm)	WEIGHT (Kg)	NOTES
1	UP-200F3	AC UPS 35kVA	2400	860	1915	2258	
2	UP-200F4	AC UPS 15kVA	2400	860	1915	2258	
3	BA-200F3A	BATTERY RACK GEL VRLA 7y AC UPS 35kVA	1050	725	1272	914	
4	BA-200F3B	BATTERY RACK GEL VRLA 7y AC UPS 35kVA	1050	725	1272	914	
5	BA-200F4A	BATTERY RACK GEL VRLA 7y AC UPS 15kVA	1890	725	1761	3429	
6	BA-200F4B	BATTERY RACK GEL VRLA 7y AC UPS 15kVA 01	1890	725	1761	3429	
7	CB-200F3A	ISOLATOR BOX AC UPS 35kVA	450	341	632	100	
8	CB-200F3B	ISOLATOR BOX AC UPS 35kVA	450	341	632	100	
9	CB-200F4A	ISOLATOR BOX AC UPS 15kVA	450	341	632	100	
10	CB-200F4B	ISOLATOR BOX AC UPS 15kVA 01	450	341	632	100	
11	NC-200F2	NAVAID PANEL 01	1000	800	2600	535	
12	BA-200F2	BATTERY BOX NAVAID	958	993	1210	1552	
13	CB-200F2	ISOLATOR BOX NAVAID	500	400	765	70	
14	B3000-HSB-001	DISTRIBUTION & HVAC PANEL - AC/UPS ROOM	1600	600	2300	1150	
15	-	EYE WASH STATION	228	80	290	5	
16	-	PORTABLE EXTINGUISHER (CO2) 5 Kg.	150	150	750	20	
17	-	PORTABLE EXTINGUISHER (CO2) 5 Kg.	150	150	750	20	
18	BC-200F2	BATTERY CHARGER NAVAID 01	-	-	-	-	INCLUDED IN THE RACK OF NC-200F2

VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DL-20106**

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

ROSETTI MARINO SpA



NOTES

01
1. U.N.O. ALL DIMENSIONS ARE IN MILLIMETERS.
2. EQUIPMENT DIMENSION ARE DEFINED ACCORDING TO THE LATEST DRAWING AND INFORMATION FROM THE VENDOR
3. DOCUMENT VALID ONLY FOR ELECTRICAL COMPONENT, FOR OTHER SCOPE LOCATION AND INFORMATION, PLEASE REFER TO VENDORS AND PROJECT DOCUMENTS.
   - "B-300" – GENERAL ARRANGEMENT DRAWING DOC. N. 1724000049-AR-DA-00016
   - "B-300" – DETAILED DRAWINGS DOC. N. 1724000049-AR-DD-00020

LEGEND

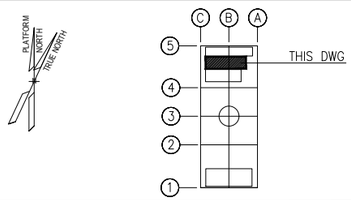
U.N.O. _____ UNLESS NOTED OTHERWISE
T.O.S. _____ TOP OF STEEL
_____ ESCAPE CORRIDOR – WIDTH 800mm.
_____ MAINTENANCE AREA – VENDOR REQUIREMENT
_____ SWITCHGEAR ROOM ENCLOUSURE
_____ FRONT OF EQUIPMENT

HOLDS

REFERENCE

DOCUMENT TITLE	DOCUMENT NUMBER
"B-300" GENERAL ARRANGEMENT DRAWING	1724000049-AR-DA-00016
"B-300" DETAILED DRAWINGS	1724000049-AR-DD-00020
"B-300" ARCHITECTURAL GENERAL LAYOUT PLAN, WIEW, SECTIONS & TYP. DETAILS	123A90-DDL-AR-DL-10022
PLOT PLAN – LOWER & UPPER DECK	123A90-DDL-PP-DL-70070

KEY PLAN



REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	23/07/24	SAM	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	28/03/24	SAM	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND | ROSETTI MARINO

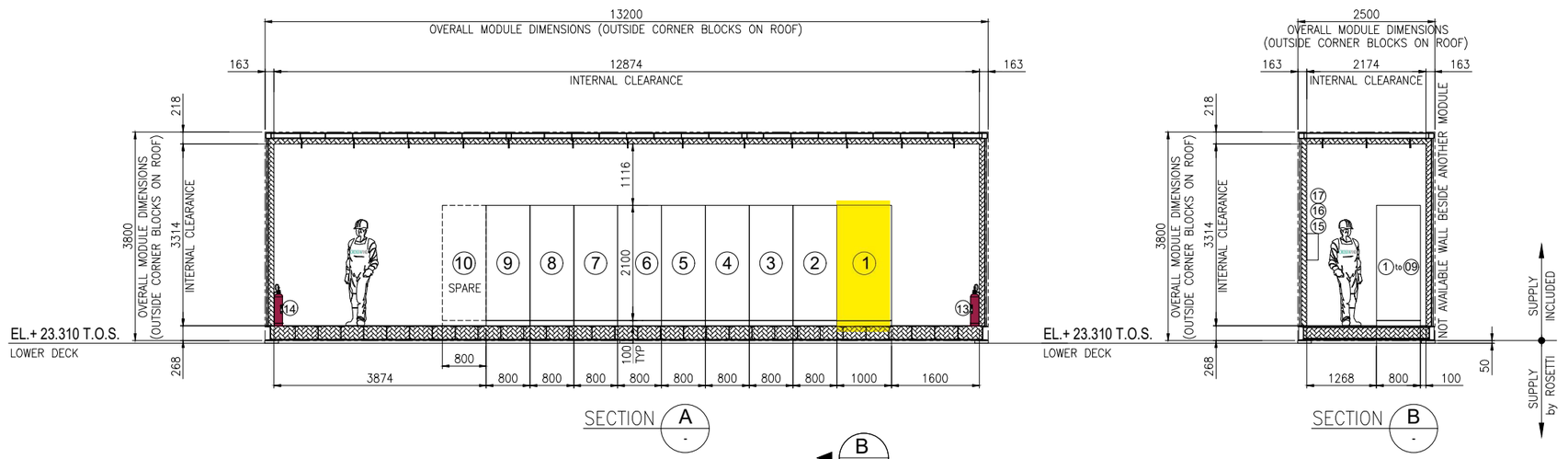
TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL EQUIPMENT LAYOUT
UPSs & BATTERIES SWITCHROOM

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK			SCALE 1:50
DRAWN SAM	CHECKED FMA/AMA	APPROVED FPA/DLO	DATE 23/07/24

A1	DRAWING NO. 123A90-DDL-EL-DL-20106	SHEET 001	REV. 01

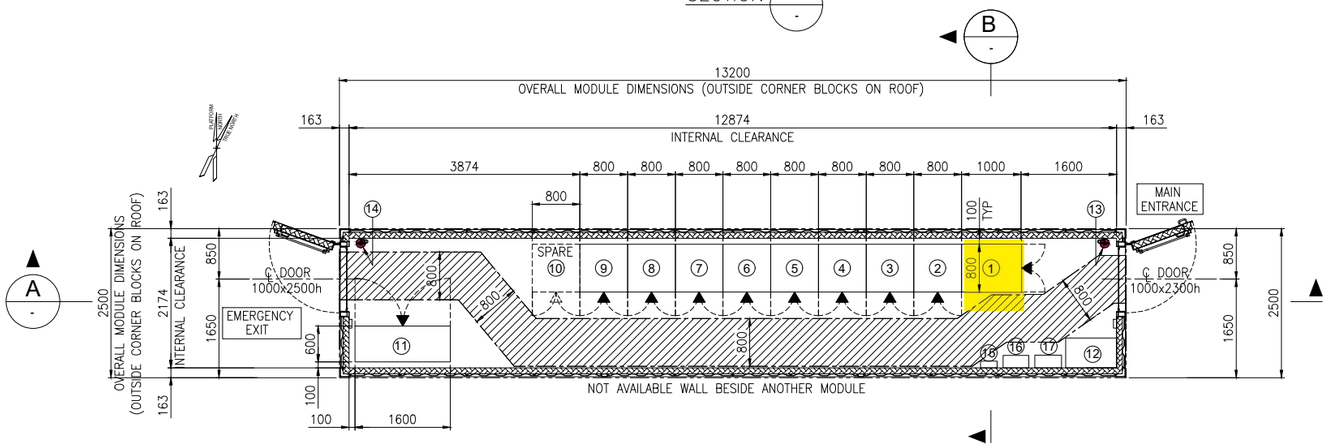
File Name : 123A90-DDL-EL-DL-20106 Rev.00.dwg

DRAWING NO. 123A90-DDL-IN-DL-40012 REV. 03



SECTION A -

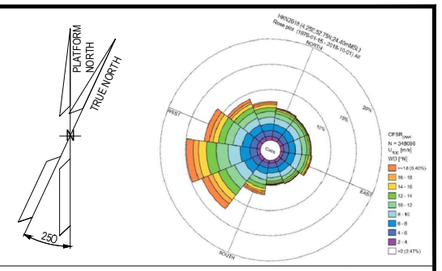
SECTION B -



EQUIPMENT LAYOUT
"B-400" I&T EQUIPMENT ROOM
BOTTOM PLAN

EQUIPMENT LIST

REF.	TAG No.	DESCRIPTION	LENGTH (mm)	WIDTH (mm)	HEIGHT (mm)	NOTE
1	B400-SRV-001	SERVER CABINET	1000	800	2100	
2	B400-NET-001	NETWORK CABINET	800	800	2100	
3	B400-EMCS-001	EMCS SYSTEM CABINET	800	800	2100	
4	B400-PCS-002	PCS MARSHALLING CABINET	800	800	2100	
5	B400-PCS-001	PCS SYSTEM CABINET 03	800	800	2100	
6	B400-FGS-003	FGS MARSHALLING CABINET 2	800	800	2100	
7	B400-FGS-002	FGS MARSHALLING CABINET 1	800	800	2100	
8	B400-FGS-001	FGS SYSTEM CABINET	800	800	2100	
9	B400-SIS-001	SIS SYSTEM/MARSHALLING CABINET	800	800	2100	
10	-	SPARE				
11	B400-HSB-001	DISTRIBUTION & HVAC PANEL - I&T ROOM	1600	600	2300	
12	-	TABLE	850	500	750	
13	-	PORTABLE EXTINGUISHER (CO2) 5 Kg.	150	150	750	
14	-	PORTABLE EXTINGUISHER (CO2) 5 Kg.	150	150	750	
15	-	FIRST AID KIT	280	115	200	
16	-	RESUSCITATION UNIT	430	210	480	
17	-	CABINET INCLUDED N.10 ESCAPE MASK	448	213	422	



NOTES

1. U.N.O. ALL DIMENSIONS ARE IN MILLIMETERS.
2. DOCUMENT VALID ONLY FOR INSTRUMENT COMPONENT, FOR OTHER SCOPE LOCATION AND INFORMATION, PLEASE REFER TO VENDORS AND PROJECT DOCUMENTS.

LEGEND

U.N.O. _____ UNLESS NOTED OTHERWISE
T.O.S. _____ TOP OF STEEL
_____ ESCAPE CORRIDOR – WIDTH 800mm.
_____ EQUIPMENT ROOM ENCLOUSURE
_____ FRONT OF EQUIPMENT

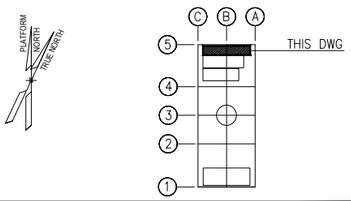
HOLDS

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REFERENCE

DOCUMENT TITLE	DOCUMENT NUMBER
Control System Architecture Detailed Drawings	123A90-DDL-IN-DD-40096
Data Network Architecture Drawings	123A90-DDL-IN-DD-40019
Earthing layouts drawings (CCR, ITER)	123A90-DDL-IN-DL-40013
Instrument and Telecom MCT Layout – Lower Deck	123A90-DDL-IN-DL-40086
"B-400" I&T Equipment Room – Architectural Layout	123A90-DDL-AR-DL-10015
"B-400" ARCHITECTURAL GENERAL LAYOUT PLAN, WIEW, SECTIONS & TYP. DETAILS	123A90-DDL-AR-DL-10015
"B-400" GENERAL ARRANGEMENT DRAWING	1724000049-AR-DA-00017
"B-400" GENERAL ARRANGEMENT DRAWING	1724000049-AR-DD-00021
"B-400" HVAC SYSTEM G.A. and DETAILS	1724000049-HV-DA-00067

KEY PLAN



REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
03	04/10/24	VBA	LCA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
02	27/05/24	MGA	LCA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	22/01/24	VBA	LCA	DLO	ISSUE FOR REVIEW (IFR)
00	07/11/23	VBA	LCA	DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND — ROSETTI MARINO

VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-IN-DL-40012**

REV.:	DATE:	SIGNATURE:
3_A	07/10/24	G.Randi

ROSETTI MARINO SpA

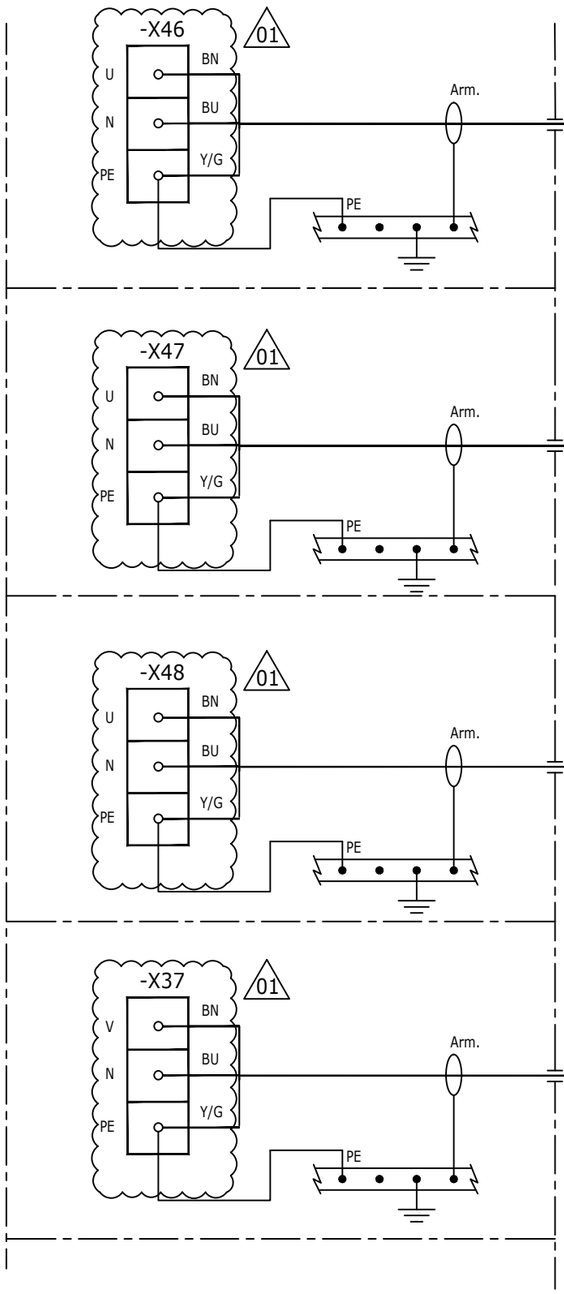
TITLE : BASE LOAD POWER HUB (BLPH)
OFF-SHORE ITER
EQUIPMENT LAYOUT

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK			SCALE 1:33,3
DRAWN MGA	CHECKED LCA	APPROVED DLO	DATE 27/05/24
A1	DRAWING NO. 123A90-DDL-IN-DL-40012	SHEET 001	REV. 03

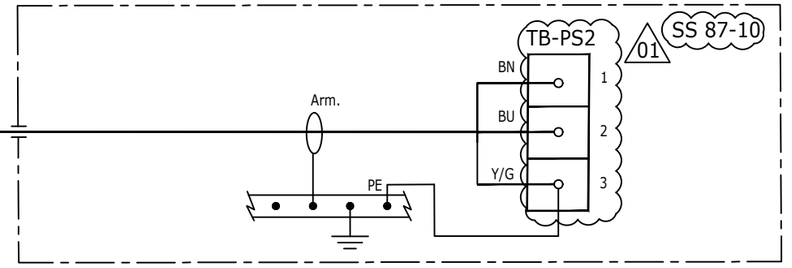
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FROM	TO

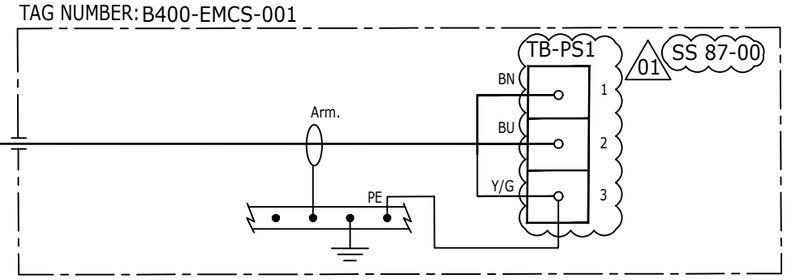
DESCRIPTION: AC UPS - PAS DB
TAG NUMBER: DP-200F3



DESCRIPTION: PCS -CONTROLLER AND I/O CABINET - LINE B
TAG NUMBER: B400-PCS-001

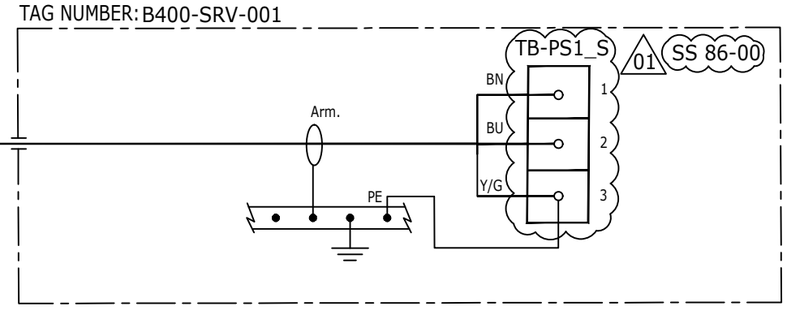


DESCRIPTION: EMCS -CONTROLLER AND I/O CABINET - LINE A
TAG NUMBER: B400-EMCS-001



DESCRIPTION: EMCS -CONTROLLER AND I/O CABINET - LINE B
TAG NUMBER: B400-EMCS-001

DESCRIPTION: SERVER CABINET ITER - LINE A
TAG NUMBER: B400-SRV-001



VALID FOR CONSTRUCTION
FDL DWG: 123A90-FDL-EL-DL-20149

REV.:	DATE:	SIGNATURE:
1_A	17/10/24	G.Randi

ROSETTI MARINO SpA

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
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
AC UPS – PAS DB DP–200F3

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

SCALE : 1:X

A3

DRAWING NO. 123A90–DDL–EL–DG–20149

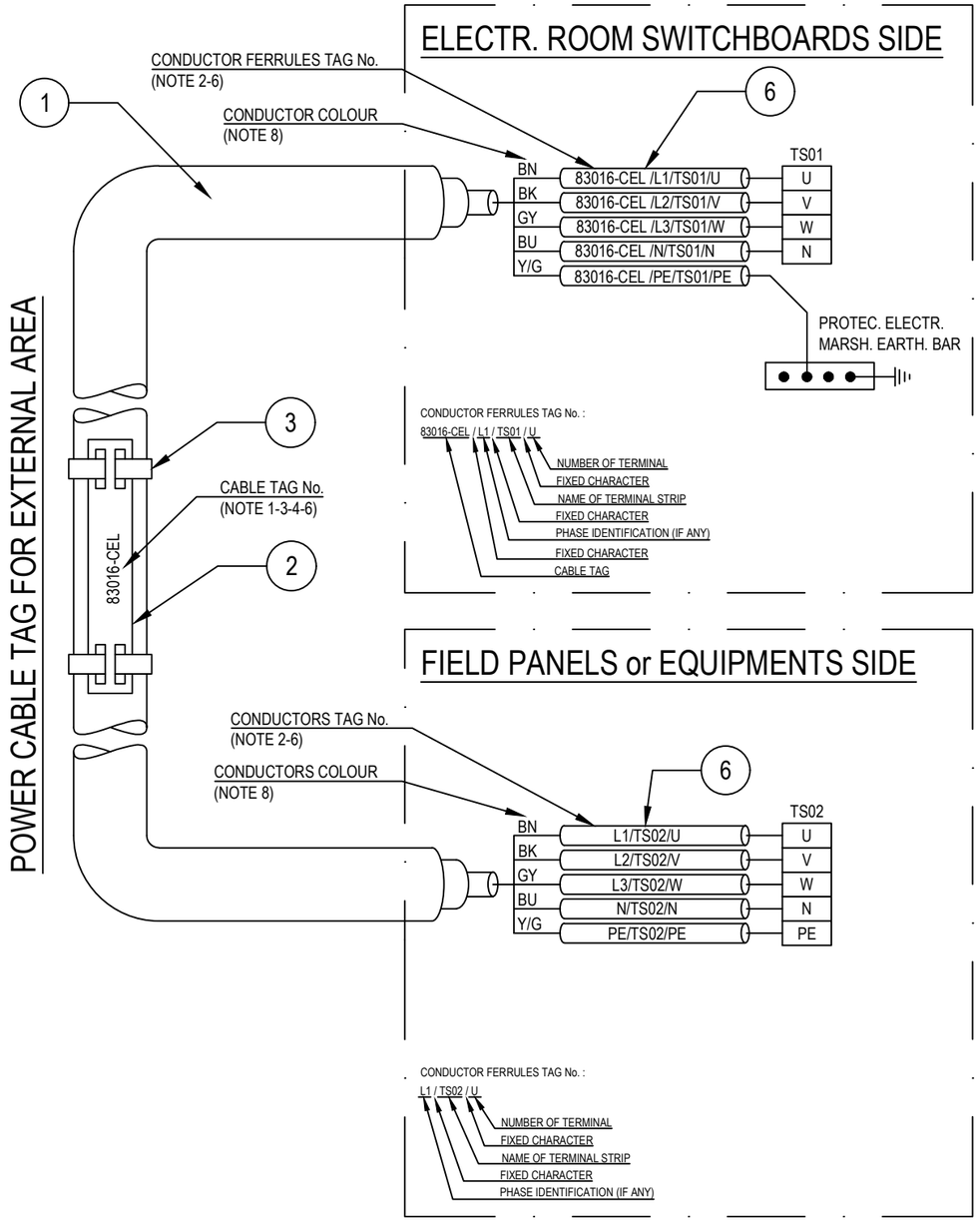
SHEET 039

REV. 01

F.to UNI A3: 420mmx297mm

File Name : 123A90–DDL–EL–DG–20162 Rev. 01

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.

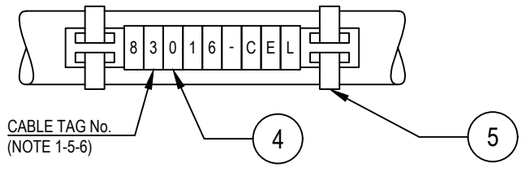
5) THE CABLE TAG FOR INTERNAL AREA SHALL BE DONE BY ENGRAVED PLASTIC SLIP ON CHARACTERS ONTO PLASTIC TIE, BLACK LETTER (H=5mm) ON WHITE.

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.: 2_A | DATE: 28/08/24 | SIGNATURE: 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

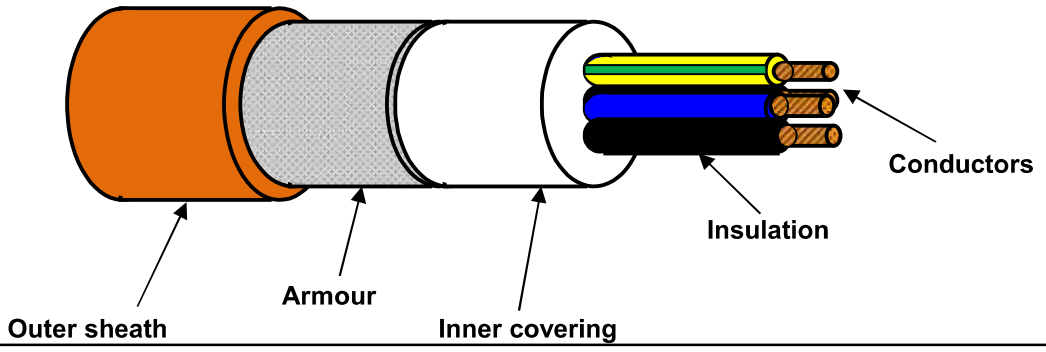
F.to UNI A3: 420mmx297mm

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
84307-CEL	Cable	EL	VFC	123A90-DDL-EL-LIS-20148						DP-200F3	AC UPS 35 kVA Distribution Board	Lower Deck (B-300)	B400-SRV-001	Server Cabinet ITER	Lower Deck (B-400)	ELECV20-3G6	Cable Cu Cl.2/MGT/EPR/LSZH/GSWB/LSZH 0,6/1kV 3G6mm² - Orange	M25S	T2_M25S_Double			n.a.				L-450-101-LVT-040 / L-600-101-LVT-036 / L-600-101-LVT-038 / L-600-101-LVT-035 / E-MCT-302 / L-450-101-LVT-005 / L-600-101-LVT-010 / L-750-101-LVT-015 / L-300-101-LVT-007 / E-MCT-402 / L-300-101-LVT-065 / L-300-101-LVT-066 / L-300-101-LVT-067 / L-150-101-LVT-147

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

3G6 - L.V. POWER CABLE - Fire Resistant & Flame Retardant - ARMOURED



TECHNICAL FEATURES

Conductors :	**STRANDED** plain/bare annealed copper wires	IEC 60228 Class 2
Insulation :	Mica/Glass Tape (MGT) plus EPR compound, quality to IEC 60092.360, Nominal Thickness 1,0 mm	
Cores colour code :	**Brown - 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 1,0 mm	
Inner covering color code:	**Black or Natural**	
Armour :	**Galvanized Steel Wire Braid Armour (coverage ≥ 90%)**	
Outer sheath :	Extruded LSZH Thermoplastic Compound (O.I. ≥ 30%), type **SHF1** to IEC 60093.360, Average Thickness 1,4 mm	
Outer sheath color code:	**Orange**	
Outer printing (INKJET) :	**FLEI - ELECTRIC CABLE - 1000V - 3G6 SQMM - MGT/EPR/LSZH/GSWB/LSZH - 0,6/1 KV - IEC 60331.21 -**	
	IEC 60332.1.2 - IEC 60332.3.22 - Year of Manufacture - CE + Meter Marking	
Under Armour diameter :	(14,3 ± 10%) mm	
Over Armour diameter :	(15,5 ± 10%) mm	
Outer diameter :	(18,3 ± 10%) mm	
Bending radius :	cable outer diameter x 10	(in fixed installation)
Voltage test :	3,5 kV a.c. for 5' (Between Cores - Armour)	
Conductors DC Resistance :		IEC 60228 Class 2
Insulation Resistance :	≥ 690 MΩ x Km (@ 20°C)	
Applicable Standards		
Design Guidelines :	**IEC 60092.353**	
ON COMPLETE CABLE		
Fire Resistant test :	**IEC 60331.21**	
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 :	30/05/2024	Messa			
Checked :	30/05/2024	Spaccasassi			
Approved :	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	84308-CEL	: AC UPS - PAS DB / Server Cabinet ITER - Line B			Dwg	123A90-DDL-EL-LIS-20148
	S/Sys	86-00	: Data Networks			Module	LD_B-300/LD_B-400
TASK	code	C10000586	Location	Onshore Activities		User	Rosetti Marino Quality Control
FORM	Process	MC	Activity CCK	Discipline	Electrical	Form	CPX09 LV Power Cable

CABLE DATA

Type P5 | Cores/Size mm² 3G6 mm2 | Color Orange

From DP-200F3 | To B400-SRV-001

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.	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.	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	OK
13	If required produce Red Line Mark Up for "AS BUILT"	

ROSETTI MARINO PROVERLIS CROSSWIND

ITEM	Tag	84308-CEL	: AC UPS - PAS DB / Server Cabinet ITER - Line B			Dwg	123A90-DDL-EL-LIS-20148
	S/Sys	86-00	: Data Networks			Module	LD_B-300/LD_B-400
TASK	code	C10000586		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	0.2	
6		PH 2	0,2	
7		PH 3	NA	
8	ARMOUR CONTINUITY Ω		0,3	
9	PROTECTIVE CONDUCTOR CONTINUITY Ω		0,2	
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	NA	
13	CABLE IS CORRECTLY RE-CONNECTED.		Yes	

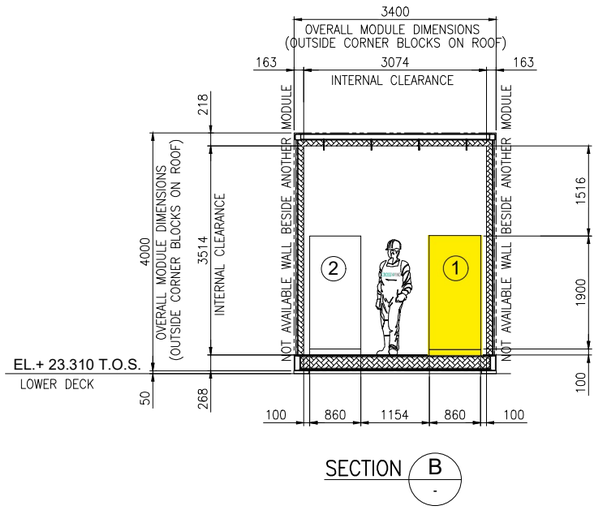
TESTING INSTRUMENTS USED			
TYPE / SERIAL N° :	MEGGER : KEW3125A SERIAL: W8330207	TYPE / SERIAL N° :	MULTIMETER: FLUKE 175 SERIAL:AW1/018(17140769)
Calibration certificate N° and date:	N°7722/24 _ 10/07/2024	Calibration certificate N° and date:	N°7715/24 _ 10/07/2024

Comments:

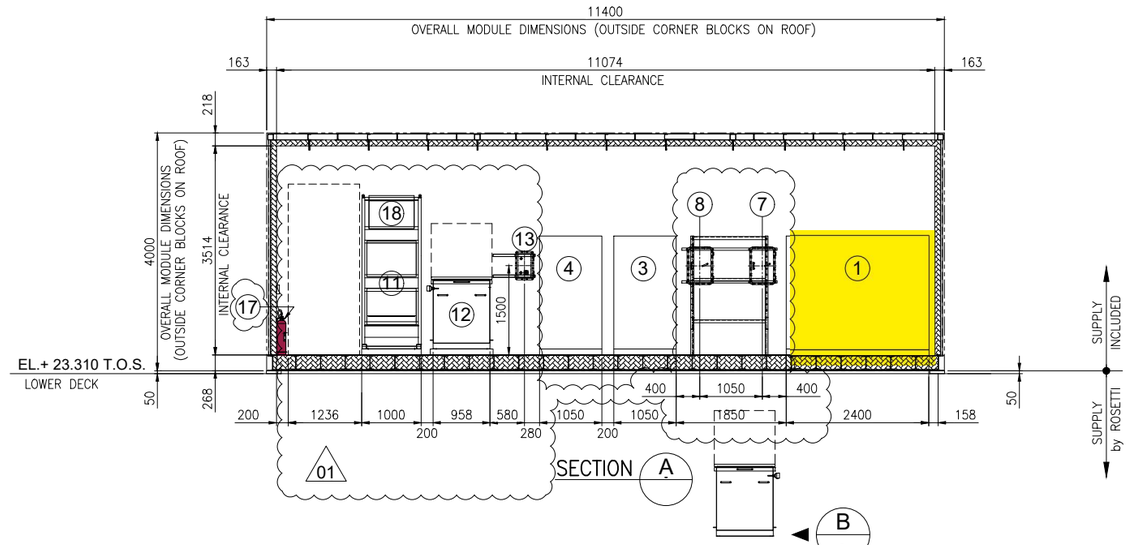
	Performed by	☉ WITNESS ☐ REVIEW	☐ WITNESS ☐ REVIEW
Company	ICS IMPIANTI	RM (ROSETTI MARINO)	
Name	Carmelo Bongiovanni	Giovanni Tangianu	
Date	2024-11-06	2024-11-08	
Signature	PROVERLIS Digitaly signed by Carmelo Bongiovanni 2024-11-06T17:14:16.401Z	PROVERLIS Digitaly signed by Giovanni Tangianu 2024-11-08T13:13:55.616Z	

DRAWING NO. 123A90-DDL-EL-DL-20106

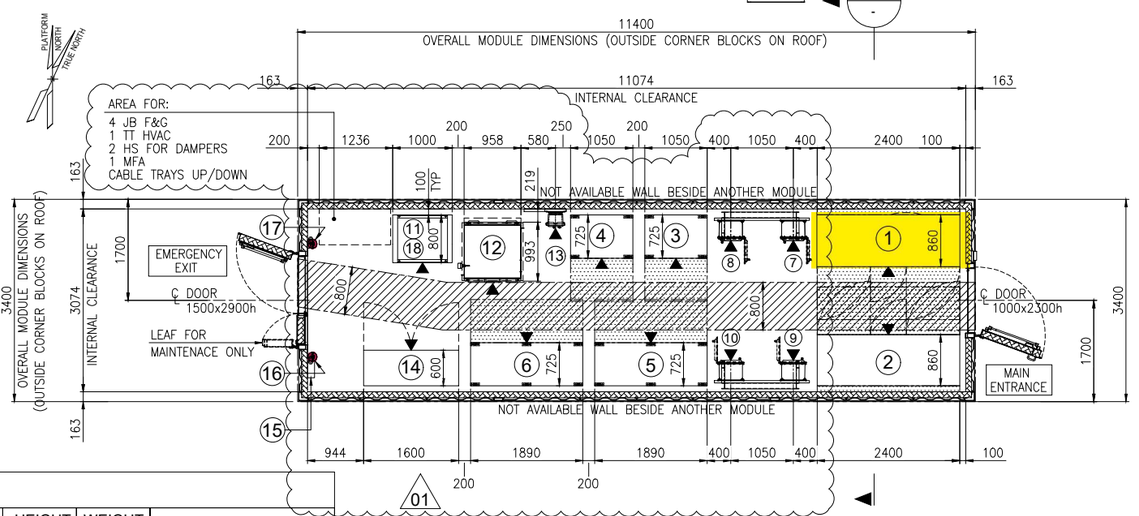
REV. 01



SECTION B



SECTION A



EQUIPMENT LAYOUT
"B-300" UPSs & BATTERIES SWITCHROOM
BOTTOM PLAN

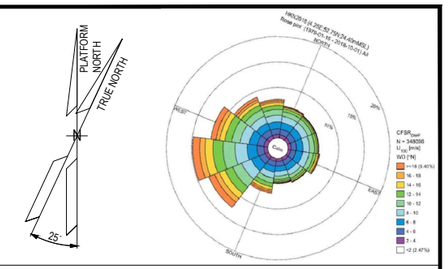
EQUIPMENT LIST

REF.	TAG No.	DESCRIPTION	LENGTH (mm)	WIDTH (mm)	HEIGHT (mm)	WEIGHT (Kg)	NOTES
1	UP-200F3	AC UPS 35kVA	2400	860	1915	2258	
2	UP-200F4	AC UPS 15kVA	2400	860	1915	2258	
3	BA-200F3A	BATTERY RACK GEL VRLA 7y AC UPS 35kVA	1050	725	1272	914	
4	BA-200F3B	BATTERY RACK GEL VRLA 7y AC UPS 35kVA	1050	725	1272	914	
5	BA-200F4A	BATTERY RACK GEL VRLA 7y AC UPS 15kVA	1890	725	1761	3429	
6	BA-200F4B	BATTERY RACK GEL VRLA 7y AC UPS 15kVA 01	1890	725	1761	3429	
7	CB-200F3A	ISOLATOR BOX AC UPS 35kVA	450	341	632	100	
8	CB-200F3B	ISOLATOR BOX AC UPS 35kVA	450	341	632	100	
9	CB-200F4A	ISOLATOR BOX AC UPS 15kVA	450	341	632	100	
10	CB-200F4B	ISOLATOR BOX AC UPS 15kVA 01	450	341	632	100	
11	NC-200F2	NAVAID PANEL 01	1000	800	2600	535	
12	BA-200F2	BATTERY BOX NAVAID	958	993	1210	1552	
13	CB-200F2	ISOLATOR BOX NAVAID	500	400	765	70	
14	B3000-HSB-001	DISTRIBUTION & HVAC PANEL - AC/UPS ROOM	1600	600	2300	1150	
15	-	EYE WASH STATION	228	80	290	5	
16	-	PORTABLE EXTINGUISHER (CO2) 5 Kg.	150	150	750	20	
17	-	PORTABLE EXTINGUISHER (CO2) 5 Kg.	150	150	750	20	
18	BC-200F2	BATTERY CHARGER NAVAID 01	-	-	-	-	INCLUDED IN THE RACK OF NC-200F2

VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DL-20106**

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

ROSETTI MARINO SpA



NOTES

01
1. U.N.O. ALL DIMENSIONS ARE IN MILLIMETERS.
2. EQUIPMENT DIMENSION ARE DEFINED ACCORDING TO THE LATEST DRAWING AND INFORMATION FROM THE VENDOR
3. DOCUMENT VALID ONLY FOR ELECTRICAL COMPONENT, FOR OTHER SCOPE LOCATION AND INFORMATION, PLEASE REFER TO VENDORS AND PROJECT DOCUMENTS.
   - "B-300" – GENERAL ARRANGEMENT DRAWING DOC. N. 1724000049-AR-DA-00016
   - "B-300" – DETAILED DRAWINGS DOC. N. 1724000049-AR-DD-00020

LEGEND

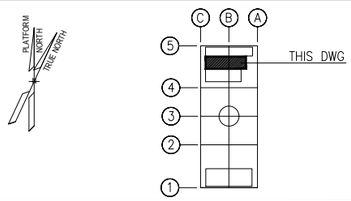
U.N.O. _____ UNLESS NOTED OTHERWISE
T.O.S. _____ TOP OF STEEL
_____ ESCAPE CORRIDOR – WIDTH 800mm.
_____ MAINTENANCE AREA – VENDOR REQUIREMENT
_____ SWITCHGEAR ROOM ENCLOUSURE
_____ FRONT OF EQUIPMENT

HOLDS

REFERENCE

DOCUMENT TITLE	DOCUMENT NUMBER
"B-300" GENERAL ARRANGEMENT DRAWING	1724000049-AR-DA-00016
"B-300" DETAILED DRAWINGS	1724000049-AR-DD-00020
"B-300" ARCHITECTURAL GENERAL LAYOUT PLAN, WIEW, SECTIONS & TYP. DETAILS	123A90-DDL-AR-DL-10022
PLOT PLAN – LOWER & UPPER DECK	123A90-DDL-PP-DL-70070

KEY PLAN



REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	23/07/24	SAM	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	28/03/24	SAM	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND | ROSETTI MARINO

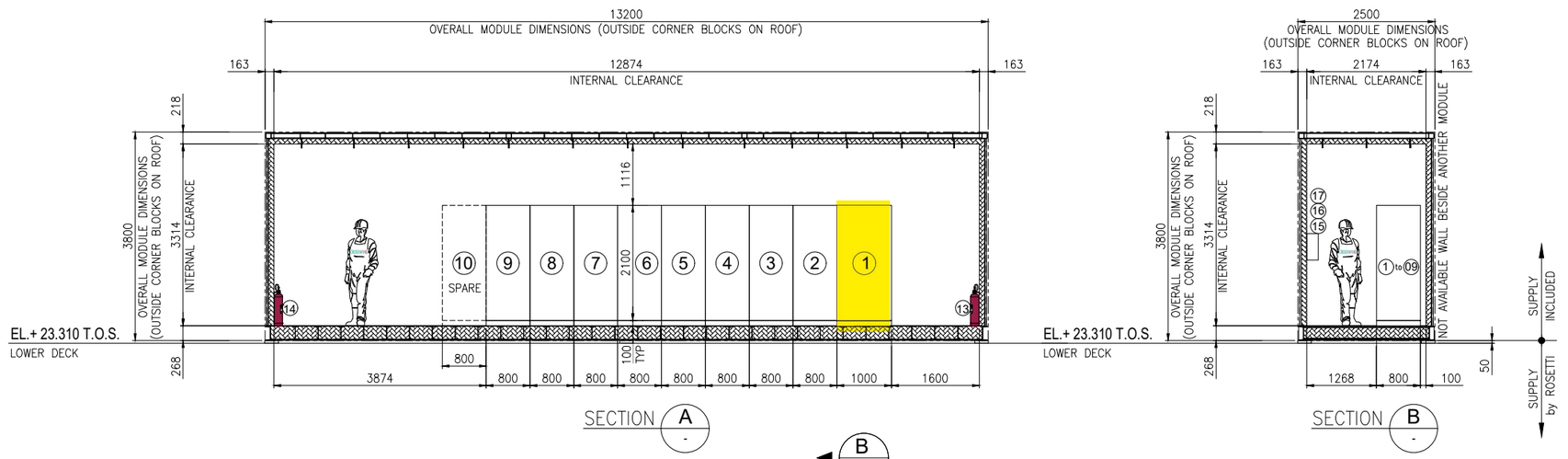
TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL EQUIPMENT LAYOUT
UPSs & BATTERIES SWITCHROOM

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK			SCALE 1:50
DRAWN SAM	CHECKED FMA/AMA	APPROVED FPA/DLO	DATE 23/07/24

A1	DRAWING NO. 123A90-DDL-EL-DL-20106	SHEET 001	REV. 01

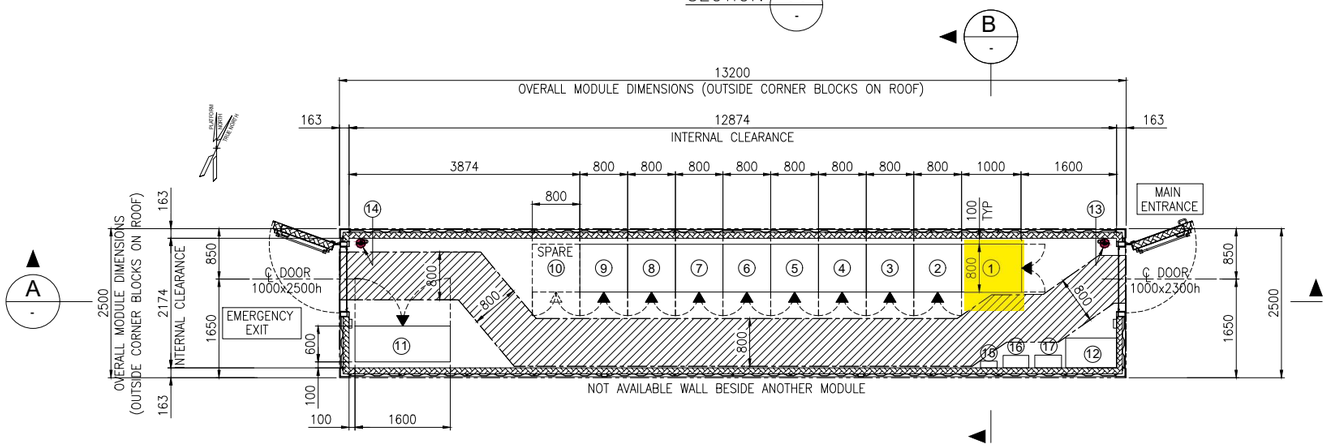
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DRAWING NO. 123A90-DDL-IN-DL-40012 REV. 03



SECTION A -

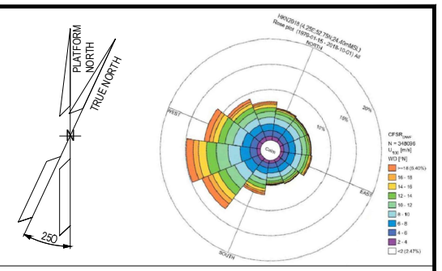
SECTION B -



EQUIPMENT LAYOUT
"B-400" I&T EQUIPMENT ROOM
BOTTOM PLAN

EQUIPMENT LIST

REF.	TAG No.	DESCRIPTION	LENGTH (mm)	WIDTH (mm)	HEIGHT (mm)	NOTE
1	B400-SRV-001	SERVER CABINET	1000	800	2100	
2	B400-NET-001	NETWORK CABINET	800	800	2100	
3	B400-EMCS-001	EMCS SYSTEM CABINET	800	800	2100	
4	B400-PCS-002	PCS MARSHALLING CABINET	800	800	2100	
5	B400-PCS-001	PCS SYSTEM CABINET 03	800	800	2100	
6	B400-FGS-003	FGS MARSHALLING CABINET 2	800	800	2100	
7	B400-FGS-002	FGS MARSHALLING CABINET 1	800	800	2100	
8	B400-FGS-001	FGS SYSTEM CABINET	800	800	2100	
9	B400-SIS-001	SIS SYSTEM/MARSHALLING CABINET	800	800	2100	
10	-	SPARE				
11	B400-HSB-001	DISTRIBUTION & HVAC PANEL - I&T ROOM	1600	600	2300	
12	-	TABLE	850	500	750	
13	-	PORTABLE EXTINGUISHER (CO2) 5 Kg.	150	150	750	
14	-	PORTABLE EXTINGUISHER (CO2) 5 Kg.	150	150	750	
15	-	FIRST AID KIT	280	115	200	
16	-	RESUSCITATION UNIT	430	210	480	
17	-	CABINET INCLUDED N.10 ESCAPE MASK	448	213	422	



NOTES

1. U.N.O. ALL DIMENSIONS ARE IN MILLIMETERS.
2. DOCUMENT VALID ONLY FOR INSTRUMENT COMPONENT, FOR OTHER SCOPE LOCATION AND INFORMATION, PLEASE REFER TO VENDORS AND PROJECT DOCUMENTS.

LEGEND

U.N.O. _____ UNLESS NOTED OTHERWISE
T.O.S. _____ TOP OF STEEL
_____ ESCAPE CORRIDOR – WIDTH 800mm.
_____ EQUIPMENT ROOM ENCLOUSURE
_____ FRONT OF EQUIPMENT

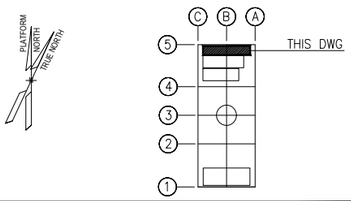
HOLDS

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REFERENCE

DOCUMENT TITLE	DOCUMENT NUMBER
Control System Architecture Detailed Drawings	123A90-DDL-IN-DD-40096
Data Network Architecture Drawings	123A90-DDL-IN-DD-40019
Earthing layouts drawings (CCR, ITER)	123A90-DDL-IN-DL-40013
Instrument and Telecom MCT Layout – Lower Deck	123A90-DDL-IN-DL-40086
"B-400" I&T Equipment Room – Architectural Layout	123A90-DDL-AR-DL-10015
"B-400" ARCHITECTURAL GENERAL LAYOUT PLAN, WIEW, SECTIONS & TYP. DETAILS	123A90-DDL-AR-DL-10015
"B-400" GENERAL ARRANGEMENT DRAWING	1724000049-AR-DA-00017
"B-400" GENERAL ARRANGEMENT DRAWING	1724000049-AR-DD-00021
"B-400" HVAC SYSTEM G.A. and DETAILS	1724000049-HV-DA-00067

KEY PLAN



REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
03	04/10/24	VBA	LCA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
02	27/05/24	MGA	LCA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	22/01/24	VBA	LCA	DLO	ISSUE FOR REVIEW (IFR)
00	07/11/23	VBA	LCA	DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND — ROSETTI MARINO

VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-IN-DL-40012**

REV.:	DATE:	SIGNATURE:
3_A	07/10/24	G.Randi

ROSETTI MARINO SpA

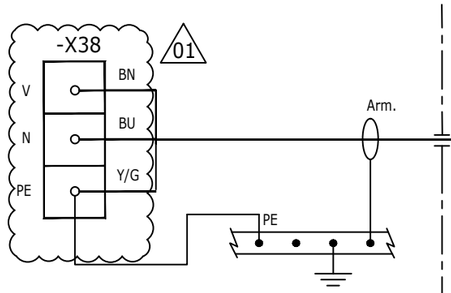
TITLE : BASE LOAD POWER HUB (BLPH)
OFF-SHORE ITER
EQUIPMENT LAYOUT

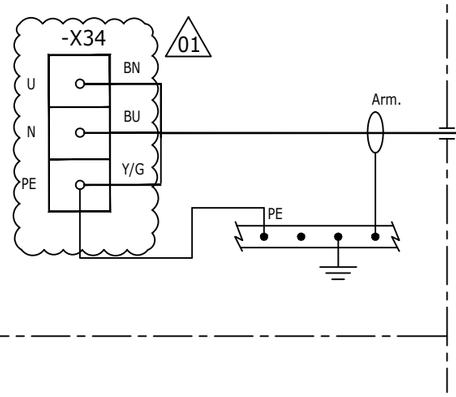
CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK			SCALE 1:33,3
DRAWN MGA	CHECKED LCA	APPROVED DLO	DATE 27/05/24
A1	DRAWING NO. 123A90-DDL-IN-DL-40012	SHEET 001	REV. 03

File Name : 123A90-DDL-IN-DL-40012 Rev.03.dwg

FROM	TO

DESCRIPTION: AC UPS - PAS DB
TAG NUMBER: DP-200F3

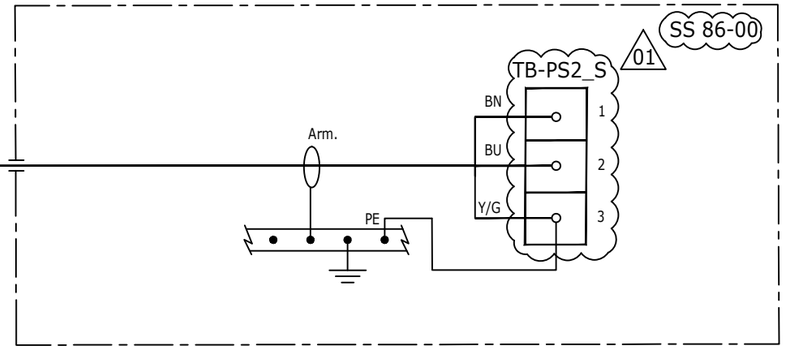




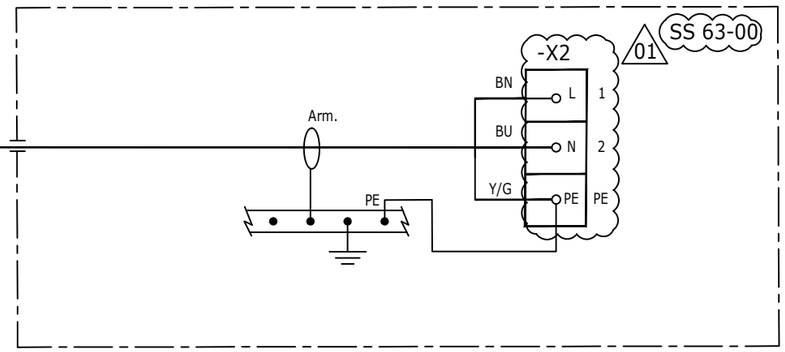
84308-CEL
3G6 mm²

84311-CEL
3G2.5 mm²

DESCRIPTION: SERVER CABINET ITER - LINE B
TAG NUMBER: B400-SRV-001



DESCRIPTION: UCP - INSTRUMENT AIR PACKAGE A-63000
TAG NUMBER: CP-630E1



VALID FOR CONSTRUCTION
FDL DWG: 123A90-FDL-EL-DL-20149
REV.: 1_A | DATE: 17/10/24 | SIGNATURE: G.Randi
ROSETTI MARINO SpA

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
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
AC UPS – PAS DB DP–200F3

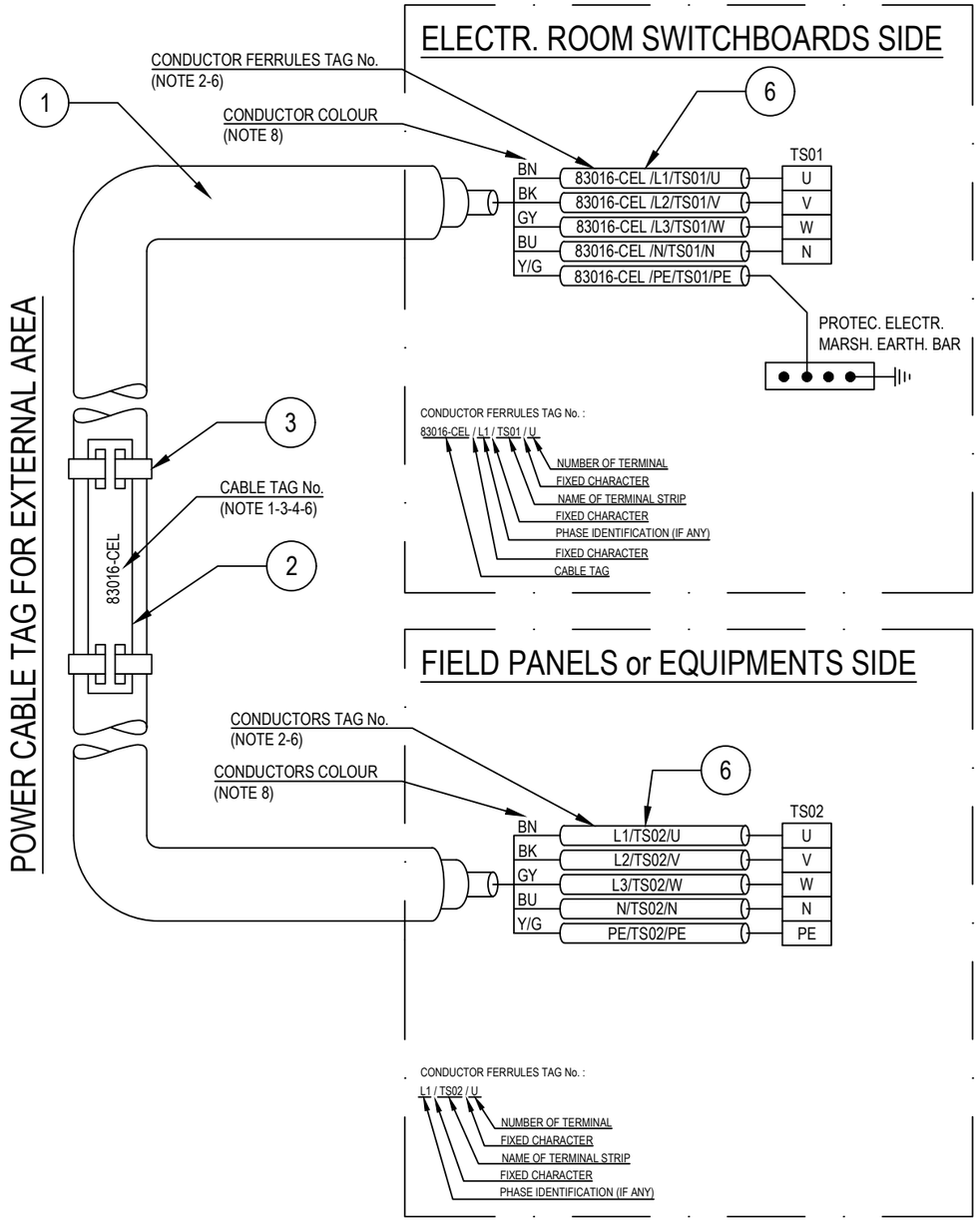
CONTRACT NO./TITLE CW–I–WP4–2023–05/HOLLANDSE KUST NOORD WIND PARK | SCALE : 1:X

A3 | DRAWING NO. 123A90–DDL–EL–DG–20149 | SHEET 040 | REV. 01

F.to UNI A3: 420mmx297mm

File Name : 123A90–DDL–EL–DG–20162 Rev. 01

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.

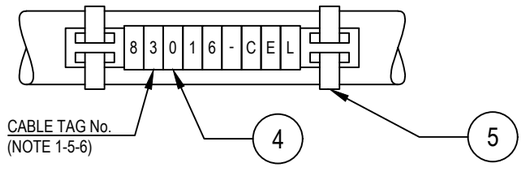
5) THE CABLE TAG FOR INTERNAL AREA SHALL BE DONE BY ENGRAVED PLASTIC SLIP ON CHARACTERS ONTO PLASTIC TIE, BLACK LETTER (H=5mm) ON WHITE.

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.: 2_A | DATE: 28/08/24 | SIGNATURE: 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

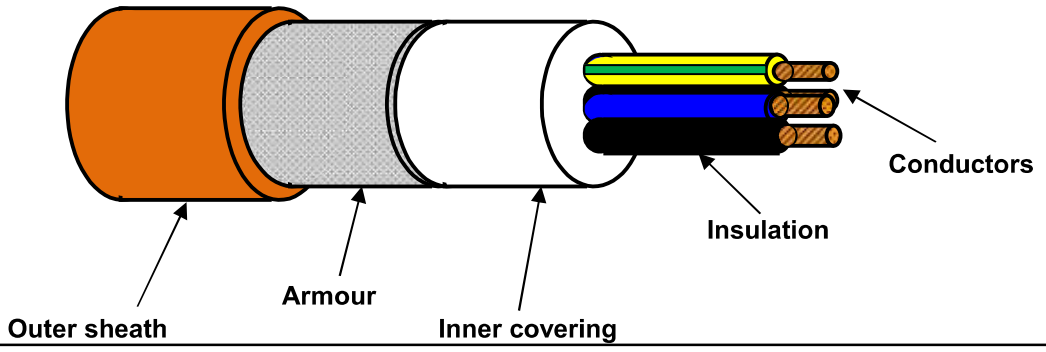
F.to UNI A3: 420mmx297mm

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
84308-CEL	Cable	EL	VFC	123A90-DDL-EL-LIS-20148						DP-200F3	AC UPS 35 kVA Distribution Board	Lower Deck (B-300)	B400-SRV-001	Server Cabinet ITER	Lower Deck (B-400)	ELECV20-3G6	Cable Cu Cl.2/MGT/EPR/LSZH/GSWB/LSZH 0,6/1kV 3G6mm² - Orange	M25S	T2_M25S_Double			n.a.				L-450-101-LVT-040 / L-600-101-LVT-036 / L-600-101-LVT-038 / L-600-101-LVT-035 / E-MCT-302 / L-450-101-LVT-005 / L-600-101-LVT-010 / L-750-101-LVT-015 / L-300-101-LVT-007 / E-MCT-402 / L-300-101-LVT-065 / L-300-101-LVT-066 / L-300-101-LVT-067 / L-150-101-LVT-147

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

3G6 - L.V. POWER CABLE - Fire Resistant & Flame Retardant - ARMOURED



TECHNICAL FEATURES

Conductors :	**STRANDED** plain/bare annealed copper wires	IEC 60228 Class 2
Insulation :	Mica/Glass Tape (MGT) plus EPR compound, quality to IEC 60092.360, Nominal Thickness 1,0 mm	
Cores colour code :	**Brown - 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 1,0 mm	
Inner covering color code:	**Black or Natural**	
Armour :	**Galvanized Steel Wire Braid Armour (coverage ≥ 90%)**	
Outer sheath :	Extruded LSZH Thermoplastic Compound (O.I. ≥ 30%), type **SHF1** to IEC 60093.360, Average Thickness 1,4 mm	
Outer sheath color code:	**Orange**	
Outer printing (INKJET) :	**FLEI - ELECTRIC CABLE - 1000V - 3G6 SQMM - MGT/EPR/LSZH/GSWB/LSZH - 0,6/1 KV - IEC 60331.21 -**	
	IEC 60332.1.2 - IEC 60332.3.22 - Year of Manufacture - CE + Meter Marking	
Under Armour diameter :	(14,3 ± 10%) mm	
Over Armour diameter :	(15,5 ± 10%) mm	
Outer diameter :	(18,3 ± 10%) mm	
Bending radius :	cable outer diameter x 10	(in fixed installation)
Voltage test :	3,5 kV a.c. for 5' (Between Cores - Armour)	
Conductors DC Resistance :		IEC 60228 Class 2
Insulation Resistance :	≥ 690 MΩ x Km (@ 20°C)	
Applicable Standards		
Design Guidelines :	**IEC 60092.353**	
ON COMPLETE CABLE		
Fire Resistant test :	**IEC 60331.21**	
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 :	30/05/2024	Messa			
Checked :	30/05/2024	Spaccasassi			
Approved :	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	84403-CEL	: AC UPS - F&G DB / System Server / Network Cabinet - Line A		Dwg	123A90-DDL-EL-LIS-20148	
	S/Sys	86-00	: Data Networks		Module	LD_B-300/LD_B-400	
TASK	code	C10000596	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/MGT/EPR/LSZH/GSWB/LSZH | Cores/Size mm²: 3G2.5 | Color: Orange

From: DP-200F4 | To: B400-NET-001

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.	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	84403-CEL	: AC UPS - F&G DB / System Server / Network Cabinet - Line A		Dwg	123A90-DDL-EL-LIS-20148	
	S/Sys	86-00	: Data Networks		Module	LD_B-300/LD_B-400	
TASK	code	C10000596	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	0,3	
6		PH 2	0,3	
7		PH 3	NA	
8	ARMOUR CONTINUITY Ω		0,4	
9	PROTECTIVE CONDUCTOR CONTINUITY Ω		0,3	
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	NA	
13	CABLE IS CORRECTLY RE-CONNECTED.		Yes	

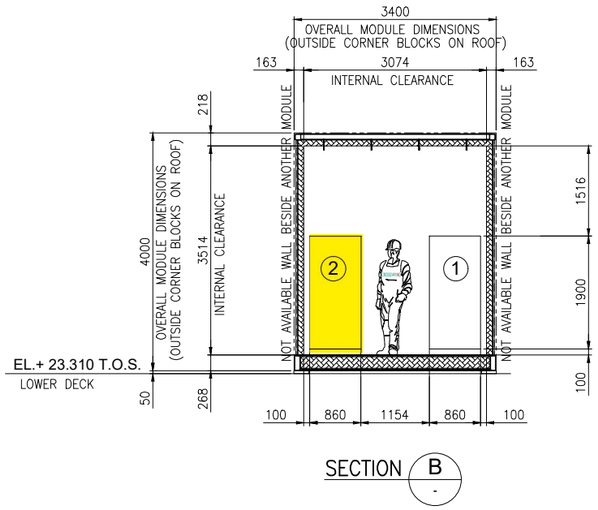
TESTING INSTRUMENTS USED			
TYPE / SERIAL N° :	MEGGER : KEW3125A SERIAL: W8330207	TYPE / SERIAL N° :	MULTIMETER: FLUKE 175 SERIAL:AW1/018(17140769)
Calibration certificate N° and date:	N°7722/24 _ 10/07/2024	Calibration certificate N° and date:	N°7715/24 _ 10/07/2024

Comments:

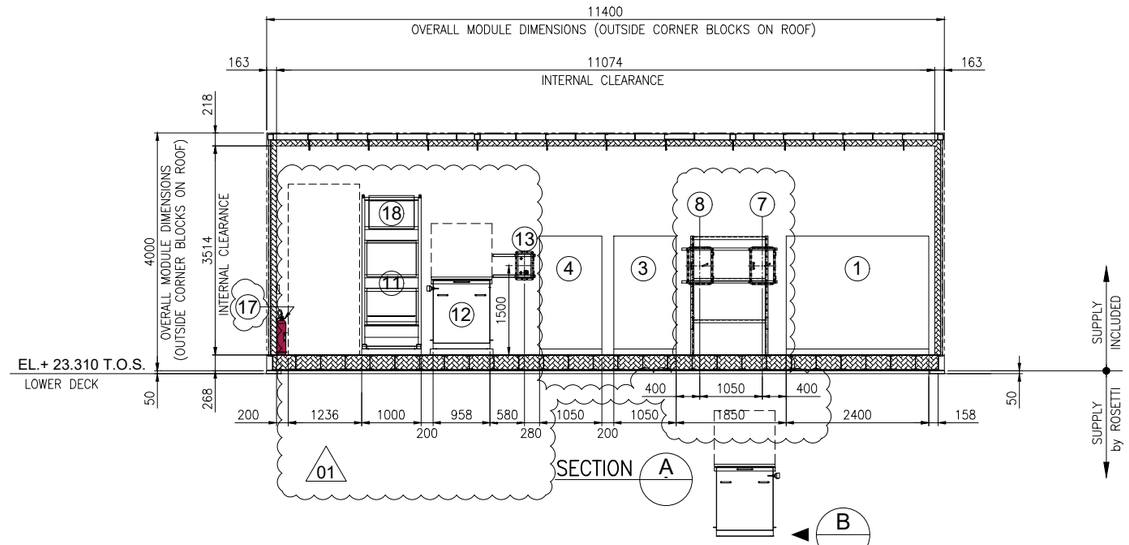
	Performed by	● WITNESS ☐ REVIEW	☐ WITNESS ☐ REVIEW
Company	ICS IMPIANTI	RM (Rosetti Marino)	
Name	Carmelo Bongiovanni	Giovanni Tangianu	
Date	2024-11-06	2024-11-08	
Signature	PROVERLIS Digitaly signed by Carmelo Bongiovanni 2024-11-06T17:15:11.643Z	PROVERLIS Digitaly signed by Giovanni Tangianu 2024-11-08T14:21:56.222Z	

DRAWING NO. 123A90-DDL-EL-DL-20106

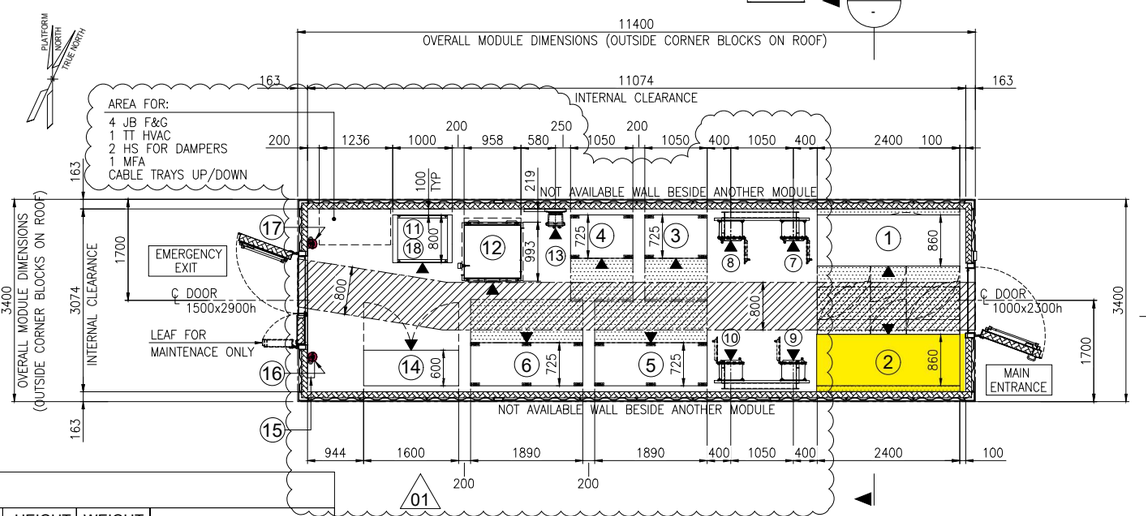
REV. 01



SECTION B



SECTION A



EQUIPMENT LAYOUT
"B-300" UPSs & BATTERIES SWITCHROOM
BOTTOM PLAN

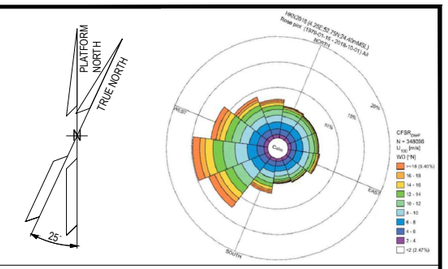
EQUIPMENT LIST

REF.	TAG No.	DESCRIPTION	LENGTH (mm)	WIDTH (mm)	HEIGHT (mm)	WEIGHT (Kg)	NOTES
1	UP-200F3	AC UPS 35kVA	2400	860	1915	2258	
2	UP-200F4	AC UPS 15kVA	2400	860	1915	2258	
3	BA-200F3A	BATTERY RACK GEL VRLA 7y AC UPS 35kVA	1050	725	1272	914	
4	BA-200F3B	BATTERY RACK GEL VRLA 7y AC UPS 35kVA	1050	725	1272	914	
5	BA-200F4A	BATTERY RACK GEL VRLA 7y AC UPS 15kVA	1890	725	1761	3429	
6	BA-200F4B	BATTERY RACK GEL VRLA 7y AC UPS 15kVA 01	1890	725	1761	3429	
7	CB-200F3A	ISOLATOR BOX AC UPS 35kVA	450	341	632	100	
8	CB-200F3B	ISOLATOR BOX AC UPS 35kVA	450	341	632	100	
9	CB-200F4A	ISOLATOR BOX AC UPS 15kVA	450	341	632	100	
10	CB-200F4B	ISOLATOR BOX AC UPS 15kVA 01	450	341	632	100	
11	NC-200F2	NAVAID PANEL	1000	800	2600	535	
12	BA-200F2	BATTERY BOX NAVAID	958	993	1210	1552	
13	CB-200F2	ISOLATOR BOX NAVAID	500	400	765	70	
14	B3000-HSB-001	DISTRIBUTION & HVAC PANEL - AC/UPS ROOM	1600	600	2300	1150	
15	-	EYE WASH STATION	228	80	290	5	
16	-	PORTABLE EXTINGUISHER (CO2) 5 Kg.	150	150	750	20	
17	-	PORTABLE EXTINGUISHER (CO2) 5 Kg.	150	150	750	20	
18	BC-200F2	BATTERY CHARGER NAVAID 01	-	-	-	-	INCLUDED IN THE RACK OF NC-200F2

VALID FOR CONSTRUCTION
FDL DWG: 123A90-FDL-EL-DL-20106

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

ROSETTI MARINO SpA



NOTES

01

1. U.N.O. ALL DIMENSIONS ARE IN MILLIMETERS.
2. EQUIPMENT DIMENSION ARE DEFINED ACCORDING TO THE LATEST DRAWING AND INFORMATION FROM THE VENDOR
3. DOCUMENT VALID ONLY FOR ELECTRICAL COMPONENT, FOR OTHER SCOPE LOCATION AND INFORMATION, PLEASE REFER TO VENDORS AND PROJECT DOCUMENTS.
   - "B-300" – GENERAL ARRANGEMENT DRAWING DOC. N. 1724000049-AR-DA-00016
   - "B-300" – DETAILED DRAWINGS DOC. N. 1724000049-AR-DD-00020

LEGEND

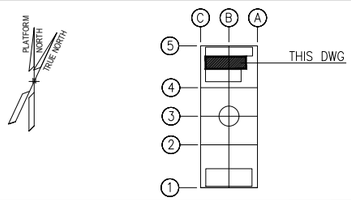
U.N.O. _____ UNLESS NOTED OTHERWISE
T.O.S. _____ TOP OF STEEL
_____ ESCAPE CORRIDOR – WIDTH 800mm.
_____ MAINTENANCE AREA – VENDOR REQUIREMENT
_____ SWITCHGEAR ROOM ENCLOUSURE
_____ FRONT OF EQUIPMENT

HOLDS

REFERENCE

DOCUMENT TITLE	DOCUMENT NUMBER
"B-300" GENERAL ARRANGEMENT DRAWING	1724000049-AR-DA-00016
"B-300" DETAILED DRAWINGS	1724000049-AR-DD-00020
"B-300" ARCHITECTURAL GENERAL LAYOUT PLAN, WIEW, SECTIONS & TYP. DETAILS	123A90-DDL-AR-DL-10022
PLOT PLAN – LOWER & UPPER DECK	123A90-DDL-PP-DL-70070

KEY PLAN



REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	23/07/24	SAM	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	28/03/24	SAM	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

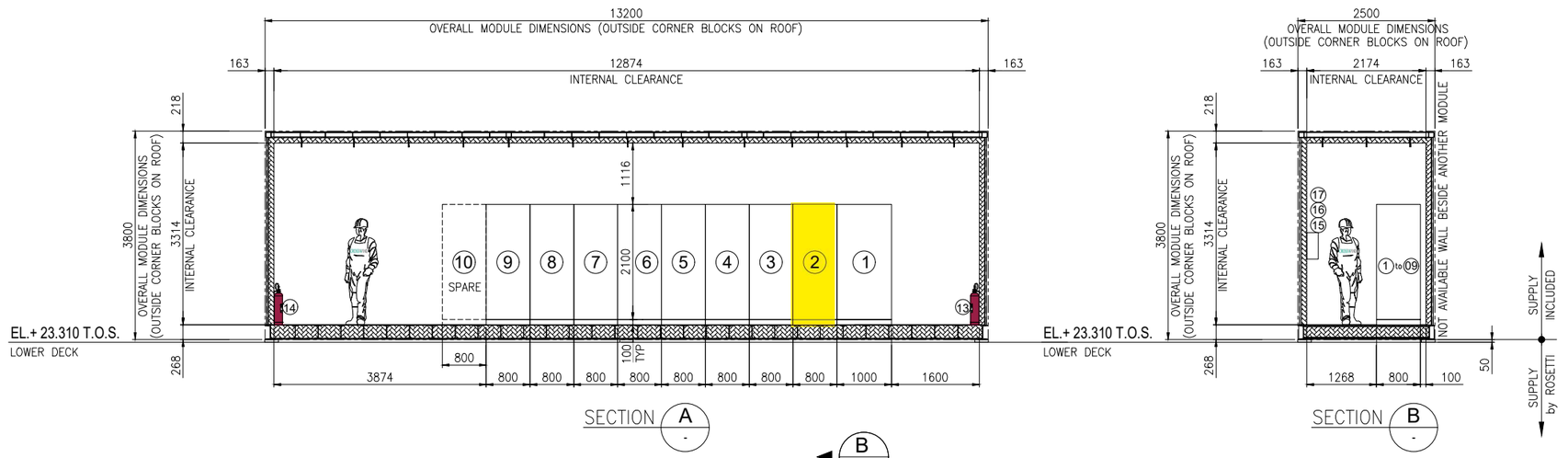
CROSSWIND | ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL EQUIPMENT LAYOUT
UPSs & BATTERIES SWITCHROOM

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK | SCALE 1:50
DRAWN SAM | CHECKED FMA/AMA | APPROVED FPA/DLO | DATE 23/07/24
A1 | DRAWING NO. 123A90-DDL-EL-DL-20106 | SHEET 001 | REV. 01

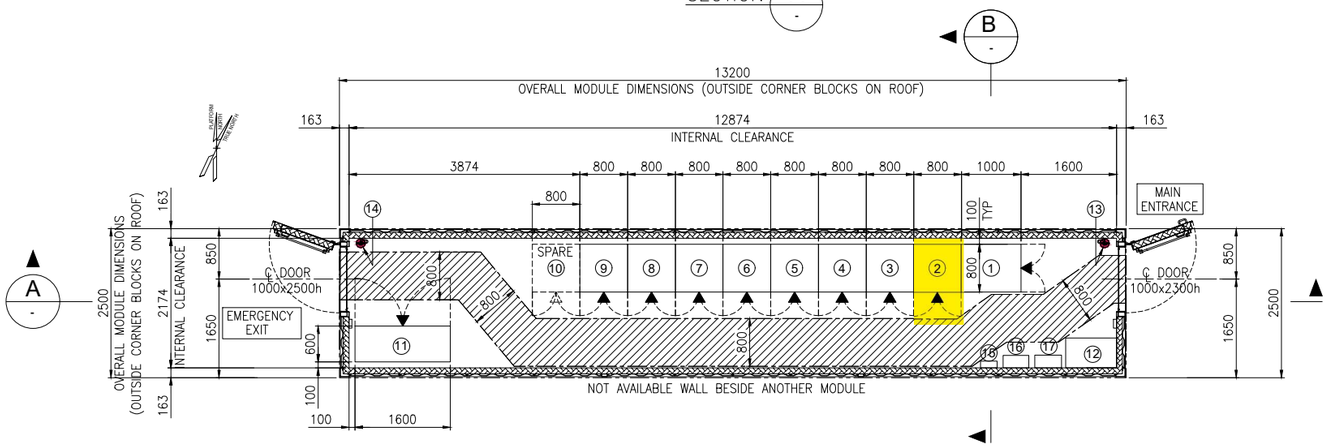
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DRAWING NO. 123A90-DDL-IN-DL-40012 REV. 03



SECTION A -

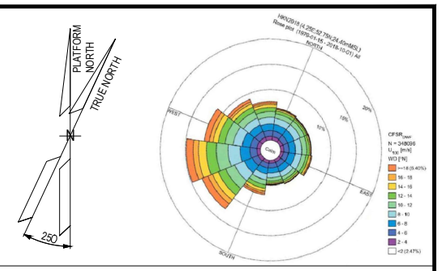
SECTION B -



EQUIPMENT LAYOUT
"B-400" I&T EQUIPMENT ROOM
BOTTOM PLAN

EQUIPMENT LIST

REF.	TAG No.	DESCRIPTION	LENGTH (mm)	WIDTH (mm)	HEIGHT (mm)	NOTE
1	B400-SRV-001	SERVER CABINET	1000	800	2100	
2	B400-NET-001	NETWORK CABINET	800	800	2100	
3	B400-EMCS-001	EMCS SYSTEM CABINET	800	800	2100	
4	B400-PCS-002	PCS MARSHALLING CABINET	800	800	2100	
5	B400-PCS-001	PCS SYSTEM CABINET 03	800	800	2100	
6	B400-FGS-003	FGS MARSHALLING CABINET 2	800	800	2100	
7	B400-FGS-002	FGS MARSHALLING CABINET 1	800	800	2100	
8	B400-FGS-001	FGS SYSTEM CABINET	800	800	2100	
9	B400-SIS-001	SIS SYSTEM/MARSHALLING CABINET	800	800	2100	
10	-	SPARE				
11	B400-HSB-001	DISTRIBUTION & HVAC PANEL - I&T ROOM	1600	600	2300	
12	-	TABLE	850	500	750	
13	-	PORTABLE EXTINGUISHER (CO2) 5 Kg.	150	150	750	
14	-	PORTABLE EXTINGUISHER (CO2) 5 Kg.	150	150	750	
15	-	FIRST AID KIT	280	115	200	
16	-	RESUSCITATION UNIT	430	210	480	
17	-	CABINET INCLUDED N.10 ESCAPE MASK	448	213	422	



NOTES

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2. DOCUMENT VALID ONLY FOR INSTRUMENT COMPONENT, FOR OTHER SCOPE LOCATION AND INFORMATION, PLEASE REFER TO VENDORS AND PROJECT DOCUMENTS.

LEGEND

U.N.O. _____ UNLESS NOTED OTHERWISE
T.O.S. _____ TOP OF STEEL
_____ ESCAPE CORRIDOR – WIDTH 800mm.
_____ EQUIPMENT ROOM ENCLOUSURE
_____ FRONT OF EQUIPMENT

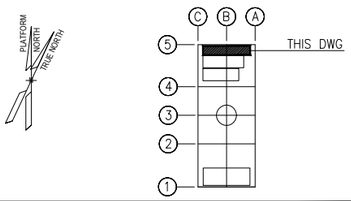
HOLDS

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REFERENCE

DOCUMENT TITLE	DOCUMENT NUMBER
Control System Architecture Detailed Drawings	123A90-DDL-IN-DD-40096
Data Network Architecture Drawings	123A90-DDL-IN-DD-40019
Earthing layouts drawings (CCR, ITER)	123A90-DDL-IN-DL-40013
Instrument and Telecom MCT Layout – Lower Deck	123A90-DDL-IN-DL-40086
"B-400" I&T Equipment Room – Architectural Layout	123A90-DDL-AR-DL-10015
"B-400" ARCHITECTURAL GENERAL LAYOUT PLAN, WIEW, SECTIONS & TYP. DETAILS	123A90-DDL-AR-DL-10015
"B-400" GENERAL ARRANGEMENT DRAWING	1724000049-AR-DA-00017
"B-400" GENERAL ARRANGEMENT DRAWING	1724000049-AR-DD-00021
"B-400" HVAC SYSTEM G.A. and DETAILS	1724000049-HV-DA-00067

KEY PLAN



REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
03	04/10/24	VBA	LCA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
02	27/05/24	MGA	LCA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	22/01/24	VBA	LCA	DLO	ISSUE FOR REVIEW (IFR)
00	07/11/23	VBA	LCA	DLO	ISSUE FOR REVIEW (IFR)

VALID FOR CONSTRUCTION
FDL DWG: 123A90-FDL-IN-DL-40012
REV.: 3_A | DATE: 07/10/24 | SIGNATURE: G.Randi
ROSETTI MARINO SpA

CROSSWIND | ROSETTI MARINO

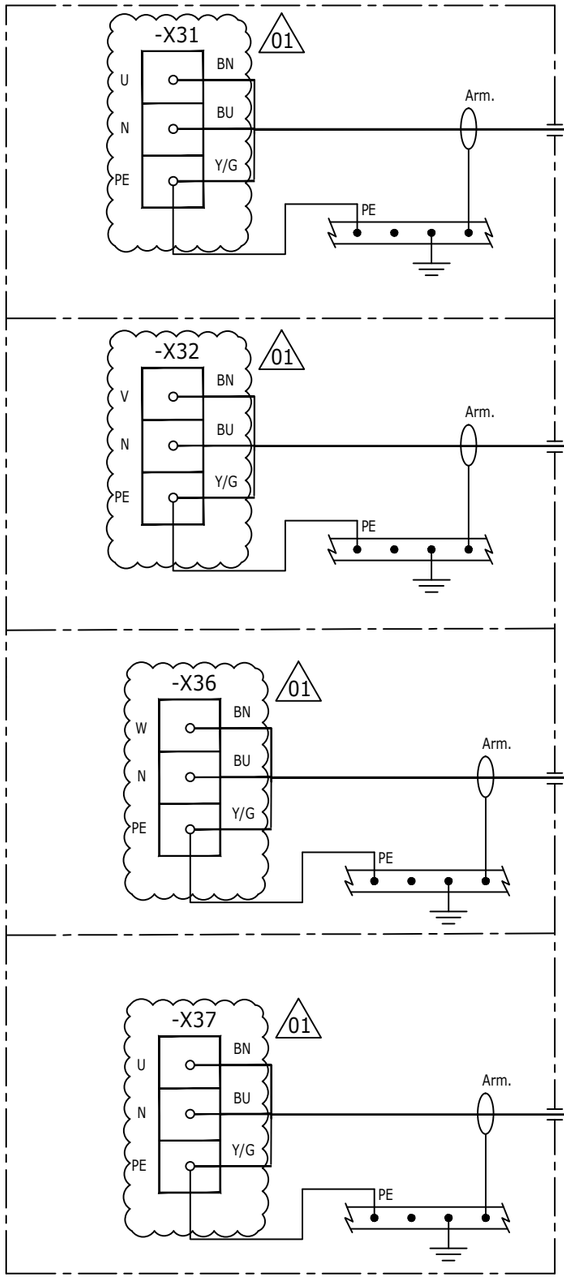
TITLE : BASE LOAD POWER HUB (BLPH) OFF-SHORE ITER EQUIPMENT LAYOUT

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK			SCALE 1:33,3
DRAWN MGA	CHECKED LCA	APPROVED DLO	DATE 27/05/24
A1	DRAWING NO. 123A90-DDL-IN-DL-40012	SHEET 001	REV. 03

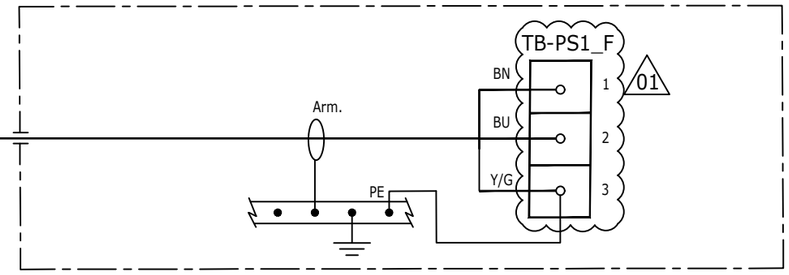
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FROM	TO

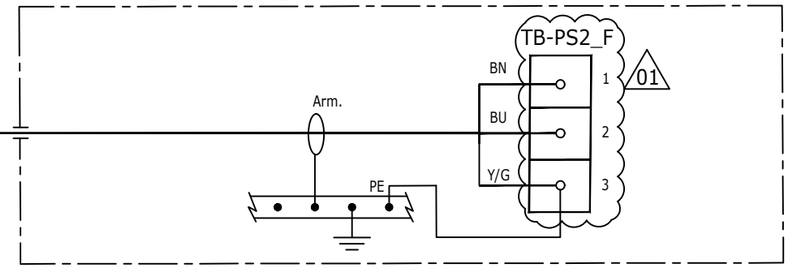
DESCRIPTION: AC UPS - F&G DB
TAG NUMBER: DP-200F4



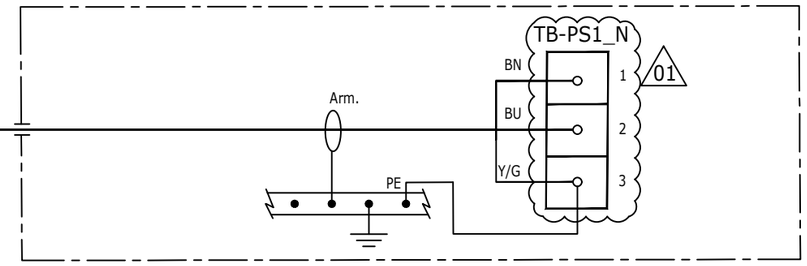
DESCRIPTION: FGS FIRE & GAS PANEL - LINE A
TAG NUMBER: B400-FGS-001



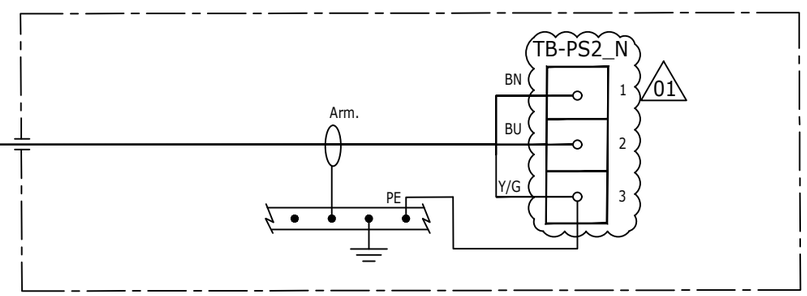
DESCRIPTION: FGS FIRE & GAS PANEL - LINE B
TAG NUMBER: B400-FGS-001



DESCRIPTION: SYSTEM SERVER / NETWORK CABINET - LINE A
TAG NUMBER: B400-NET-001



DESCRIPTION: SYSTEM SERVER / NETWORK CABINET - LINE B
TAG NUMBER: B400-NET-001



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

REV.:	DATE:	SIGNATURE:
1_A	17/10/24	G.Randi

ROSETTI MARINO SpA

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
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
AC UPS – F&G DB (DP-200F4)

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

SCALE : 1:X

A3

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

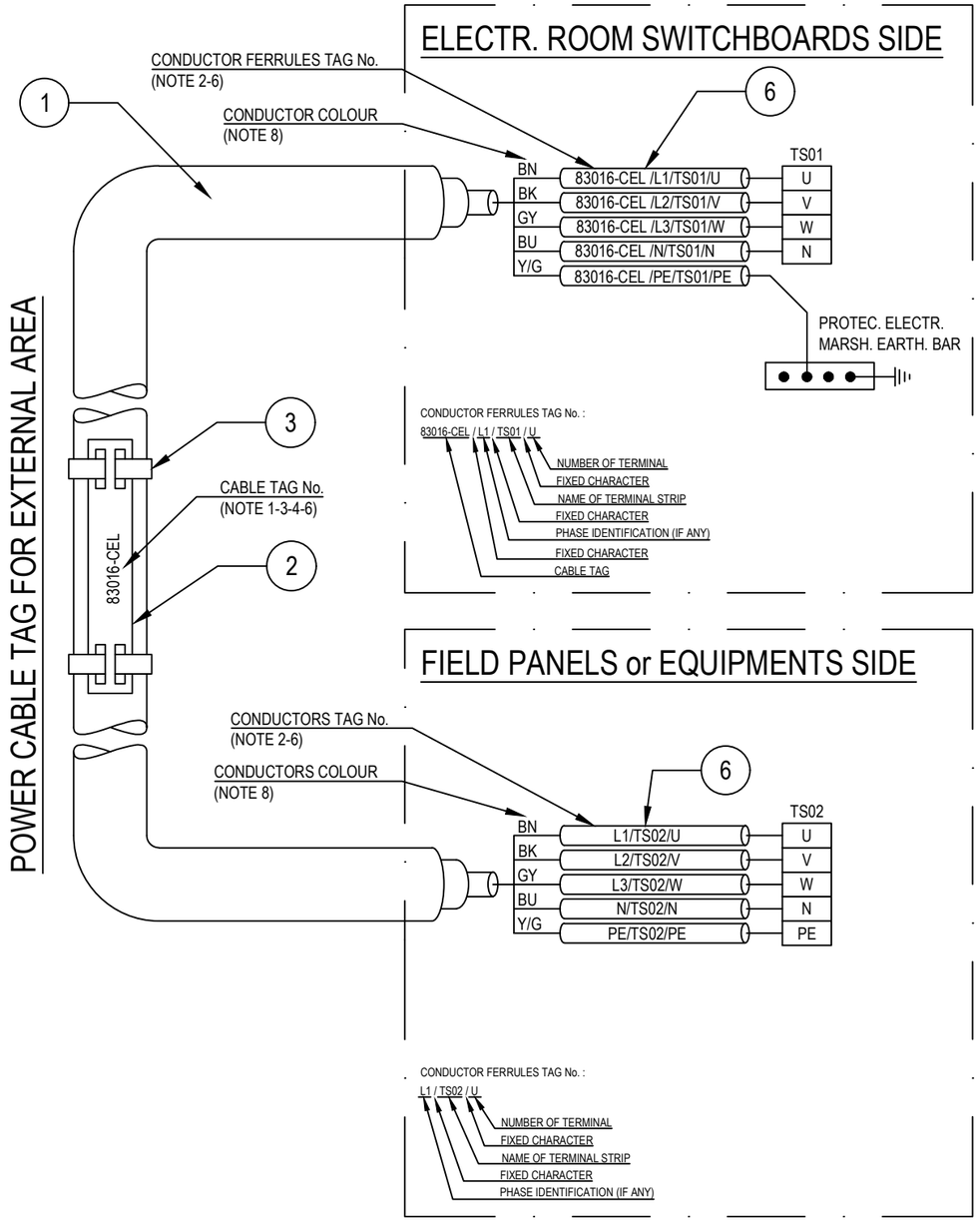
SHEET 043

REV. 01

F.to UNI A3: 420mmx297mm

File Name : 123A90-DDL-EL-DG-20162 Rev. 01

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.

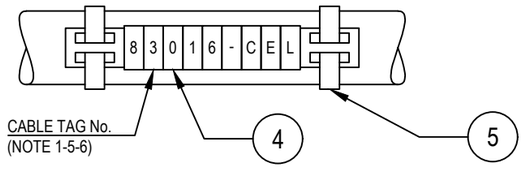
5) THE CABLE TAG FOR INTERNAL AREA SHALL BE DONE BY ENGRAVED PLASTIC SLIP ON CHARACTERS ONTO PLASTIC TIE, BLACK LETTER (H=5mm) ON WHITE.

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.: 2_A | DATE: 28/08/24 | SIGNATURE: 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

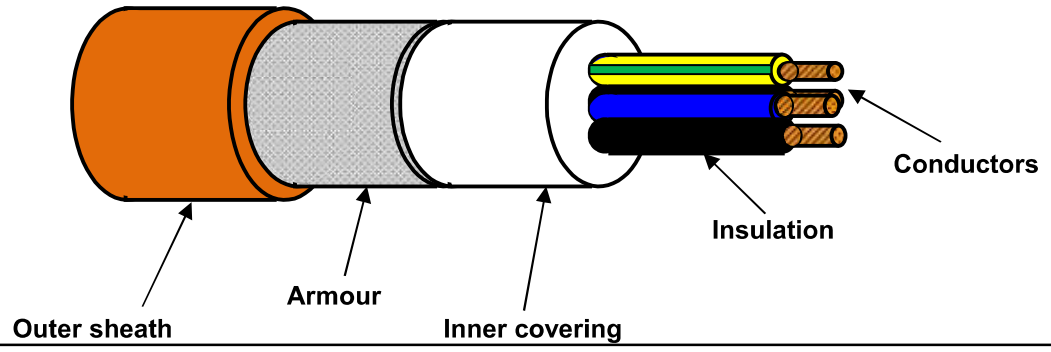
F.to UNI A3: 420mmx297mm

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
84403-CEL	Cable	EL	VFC	123A90-DDL-EL-LIS-20148						DP-200F4	AC UPS 15 kVA Distribution Board	Lower Deck (B-300)	B400-NET-001	Network Cabinet / EMCS System	Lower Deck (B-400)	ELECV19-3G2,5	Cable Cu Cl.2/MGT/EPR/LSZH/GSWB/LSZH 0,6/1kV 3G2,5mm² - Orange	M20	T2_M20_Double			n.a.				L-450-101-LVT-043 / L-600-101-LVT-035 / E-MCT-302 / L-450-101-LVT-005 / L-600-101-LVT-010 / L-750-101-LVT-015 / L-300-101-LVT-007 / E-MCT-402 / L-300-101-LVT-065 / L-300-101-LVT-066 / L-300-101-LVT-067 / L-150-101-LVT-148

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

3G2,5 - L.V. POWER CABLE - Fire Resistant & Flame Retardant - ARMOURED



TECHNICAL FEATURES

Conductors :	**STRANDED** plain/bare annealed copper wires	IEC 60228 Class 2
Insulation :	Mica/Glass Tape (MGT) plus EPR compound, quality to IEC 60092.360, Nominal Thickness 1,0 mm	
Cores colour code :	**Brown - 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 1,0 mm	
Inner covering color code:	**Black or Natural**	
Armour :	**Galvanized Steel Wire Braid Armour (coverage ≥ 90%)**	
Outer sheath :	Extruded LSZH Thermoplastic Compound (O.I. ≥ 30%), type **SHF1** to IEC 60093.360, Average Thickness 1,3 mm	
Outer sheath color code:	**Orange**	
Outer printing (INKJET) :	**FLEI - ELECTRIC CABLE - 1000V - 3G2,5 SQMM - MGT/EPR/LSZH/GSWB/LSZH - 0,6/1 KV - IEC 60331.21 - IEC 60332.1.2 - IEC 60332.3.22 - Year of Manufacture - CE + Meter Marking**	
Under Armour diameter :	(11,7 ± 10%) mm	
Over Armour diameter :	(12,9 ± 10%) mm	
Outer diameter :	(15,5 ± 10%) mm	
Bending radius :	cable outer diameter x 10	(in fixed installation)
Voltage test :	3,5 kV a.c. for 5' (Between Cores - Armour)	
Conductors DC Resistance :		IEC 60228 Class 2
Insulation Resistance :	≥ 940 MΩ x Km (@ 20°C)	
Applicable Standards		
Design Guidelines :	**IEC 60092.353**	
ON COMPLETE CABLE		
Fire Resistant test :	**IEC 60331.21**	
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			
Checked :	29/03/2024	Spaccasassi			
Approved :	29/03/2024	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	84404-CEL	: AC UPS - F&G DB / System Server / Network Cabinet - Line B		Dwg	123A90-DDL-EL-LIS-20148	
	S/Sys	86-00	: Data Networks		Module	LD_B-300/LD_B-400	
TASK	code	C10000597	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/MGT/EPR/LSZH/GSWB/LSZH Cores/Size mm² 3G2.5 Color Orange

From DP-200F4 To B400-NET-001

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.	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.	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	84404-CEL	: AC UPS - F&G DB / System Server / Network Cabinet - Line B		Dwg	123A90-DDL-EL-LIS-20148	
	S/Sys	86-00	: Data Networks		Module	LD_B-300/LD_B-400	
TASK	code	C10000597	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	0,3	
6		PH 2	0,3	
7		PH 3	NA	
8	ARMOUR CONTINUITY Ω		0,4	
9	PROTECTIVE CONDUCTOR CONTINUITY Ω		0,3	
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	NA	
13	CABLE IS CORRECTLY RE-CONNECTED.		Yes	

TESTING INSTRUMENTS USED

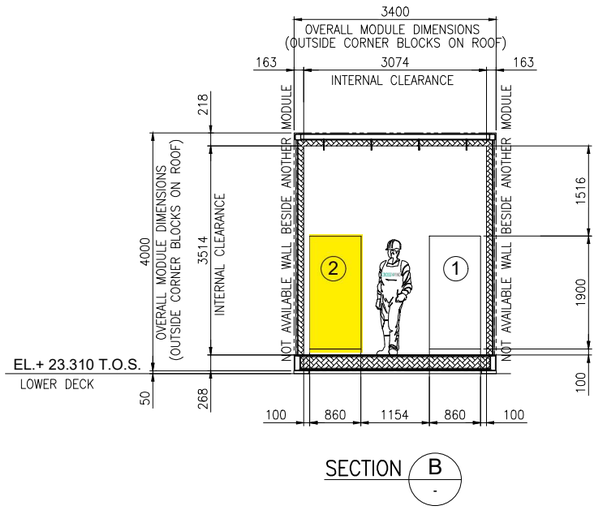
TYPE / SERIAL N° :	MEGGER : KEW3125A SERIAL: W8330207	TYPE / SERIAL N° :	MULTIMETER: FLUKE 175 SERIAL:AW1/018(17140769)
Calibration certificate N° and date:	N°7722/24 _ 10/07/2024	Calibration certificate N° and date:	N°7715/24 _ 10/07/2024

Comments:

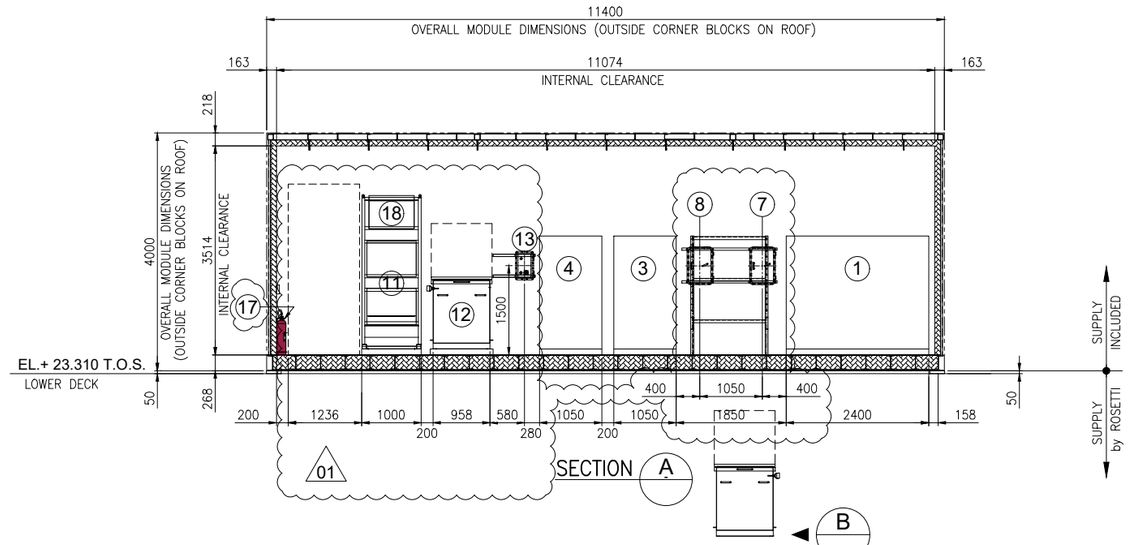
	Performed by	☉ WITNESS ☐ REVIEW	☐ WITNESS ☐ REVIEW
Company	ICS IMPIANTI	RM (Rosetti Marino)	
Name	Carmelo Bongiovanni	Giovanni Tangianu	
Date	2024-11-06	2024-11-08	
Signature	PROVERLIS Digitaly signed by Carmelo Bongiovanni 2024-11-06T17:15:35.556Z	PROVERLIS Digitaly signed by Giovanni Tangianu 2024-11-08T14:37:30.319Z	

DRAWING NO. 123A90-DDL-EL-DL-20106

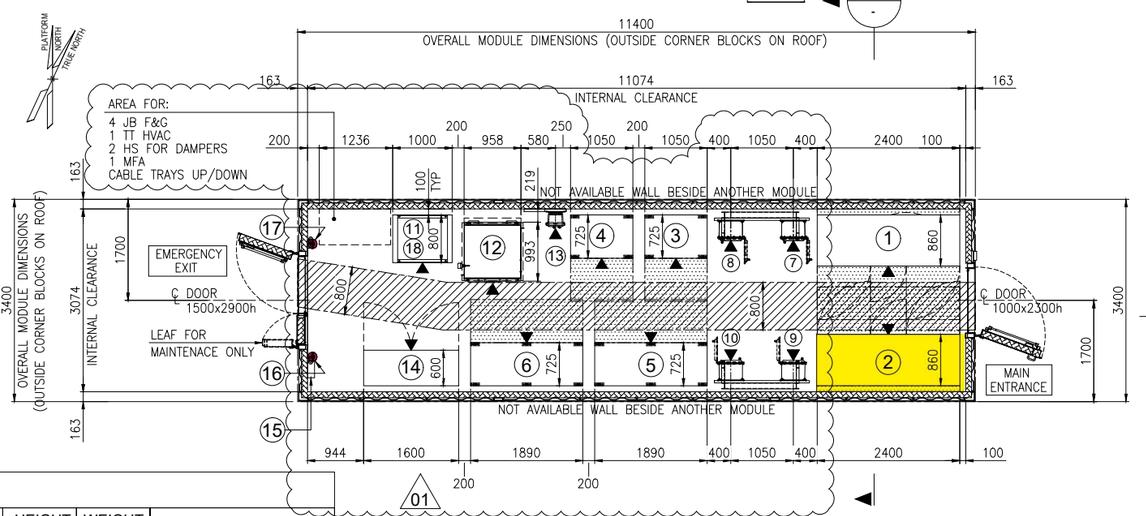
REV. 01



SECTION B



SECTION A



EQUIPMENT LAYOUT
"B-300" UPSs & BATTERIES SWITCHROOM
BOTTOM PLAN

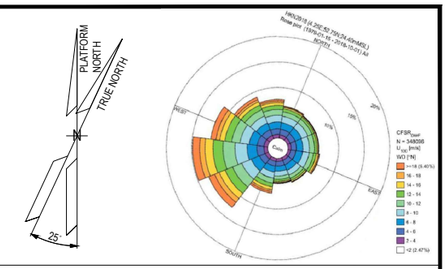
EQUIPMENT LIST

REF.	TAG No.	DESCRIPTION	LENGTH (mm)	WIDTH (mm)	HEIGHT (mm)	WEIGHT (Kg)	NOTES
1	UP-200F3	AC UPS 35kVA	2400	860	1915	2258	
2	UP-200F4	AC UPS 15kVA	2400	860	1915	2258	
3	BA-200F3A	BATTERY RACK GEL VRLA 7y AC UPS 35kVA	1050	725	1272	914	
4	BA-200F3B	BATTERY RACK GEL VRLA 7y AC UPS 35kVA	1050	725	1272	914	
5	BA-200F4A	BATTERY RACK GEL VRLA 7y AC UPS 15kVA	1890	725	1761	3429	
6	BA-200F4B	BATTERY RACK GEL VRLA 7y AC UPS 15kVA 01	1890	725	1761	3429	
7	CB-200F3A	ISOLATOR BOX AC UPS 35kVA	450	341	632	100	
8	CB-200F3B	ISOLATOR BOX AC UPS 35kVA	450	341	632	100	
9	CB-200F4A	ISOLATOR BOX AC UPS 15kVA	450	341	632	100	
10	CB-200F4B	ISOLATOR BOX AC UPS 15kVA 01	450	341	632	100	
11	NC-200F2	NAVAID PANEL	1000	800	2600	535	
12	BA-200F2	BATTERY BOX NAVAID	958	993	1210	1552	
13	CB-200F2	ISOLATOR BOX NAVAID	500	400	765	70	
14	B3000-HSB-001	DISTRIBUTION & HVAC PANEL - AC/UPS ROOM	1600	600	2300	1150	
15	-	EYE WASH STATION	228	80	290	5	
16	-	PORTABLE EXTINGUISHER (CO2) 5 Kg.	150	150	750	20	
17	-	PORTABLE EXTINGUISHER (CO2) 5 Kg.	150	150	750	20	
18	BC-200F2	BATTERY CHARGER NAVAID 01	-	-	-	-	INCLUDED IN THE RACK OF NC-200F2

VALID FOR CONSTRUCTION
FDL DWG: 123A90-FDL-EL-DL-20106

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

ROSETTI MARINO SpA



NOTES

01

1. U.N.O. ALL DIMENSIONS ARE IN MILLIMETERS.
2. EQUIPMENT DIMENSION ARE DEFINED ACCORDING TO THE LATEST DRAWING AND INFORMATION FROM THE VENDOR
3. DOCUMENT VALID ONLY FOR ELECTRICAL COMPONENT, FOR OTHER SCOPE LOCATION AND INFORMATION, PLEASE REFER TO VENDORS AND PROJECT DOCUMENTS.
   - "B-300" – GENERAL ARRANGEMENT DRAWING DOC. N. 1724000049-AR-DA-00016
   - "B-300" – DETAILED DRAWINGS DOC. N. 1724000049-AR-DD-00020

LEGEND

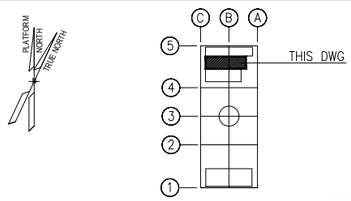
U.N.O. _____ UNLESS NOTED OTHERWISE
T.O.S. _____ TOP OF STEEL
_____ ESCAPE CORRIDOR – WIDTH 800mm.
_____ MAINTENANCE AREA – VENDOR REQUIREMENT
_____ SWITCHGEAR ROOM ENCLOUSURE
_____ FRONT OF EQUIPMENT

HOLDS

REFERENCE

DOCUMENT TITLE	DOCUMENT NUMBER
"B-300" GENERAL ARRANGEMENT DRAWING	1724000049-AR-DA-00016
"B-300" DETAILED DRAWINGS	1724000049-AR-DD-00020
"B-300" ARCHITECTURAL GENERAL LAYOUT PLAN, WIEW, SECTIONS & TYP. DETAILS	123A90-DDL-AR-DL-10022
PLOT PLAN – LOWER & UPPER DECK	123A90-DDL-PP-DL-70070

KEY PLAN



REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	23/07/24	SAM	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	28/03/24	SAM	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

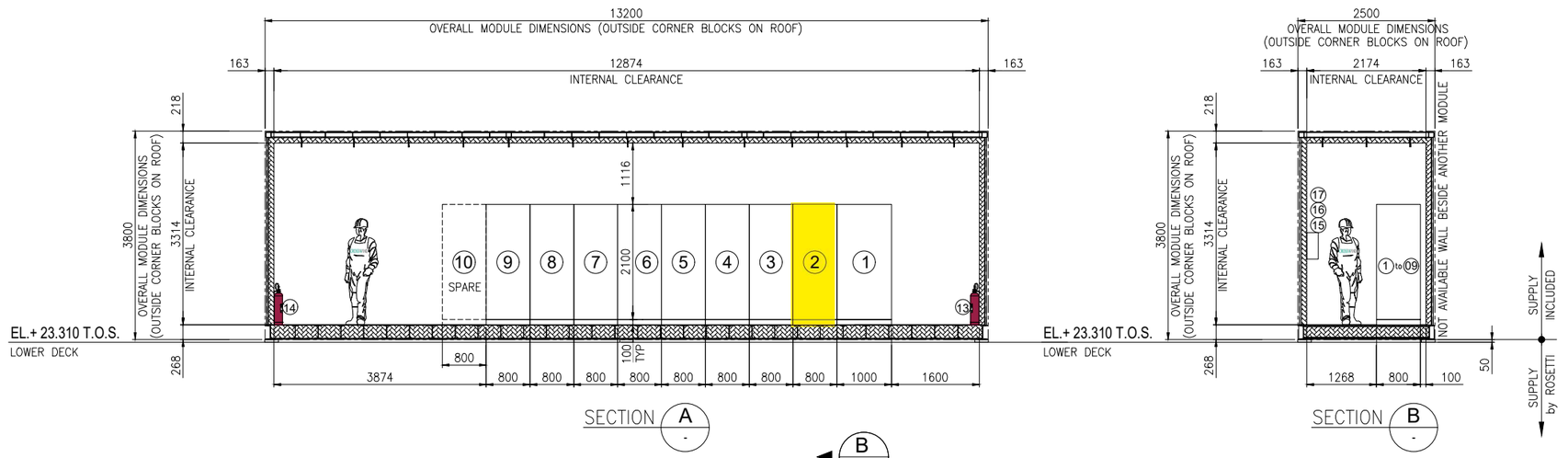
CROSSWIND | ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL EQUIPMENT LAYOUT
UPSs & BATTERIES SWITCHROOM

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK | SCALE 1:50
DRAWN SAM | CHECKED FMA/AMA | APPROVED FPA/DLO | DATE 23/07/24
A1 | DRAWING NO. 123A90-DDL-EL-DL-20106 | SHEET 001 | REV. 01

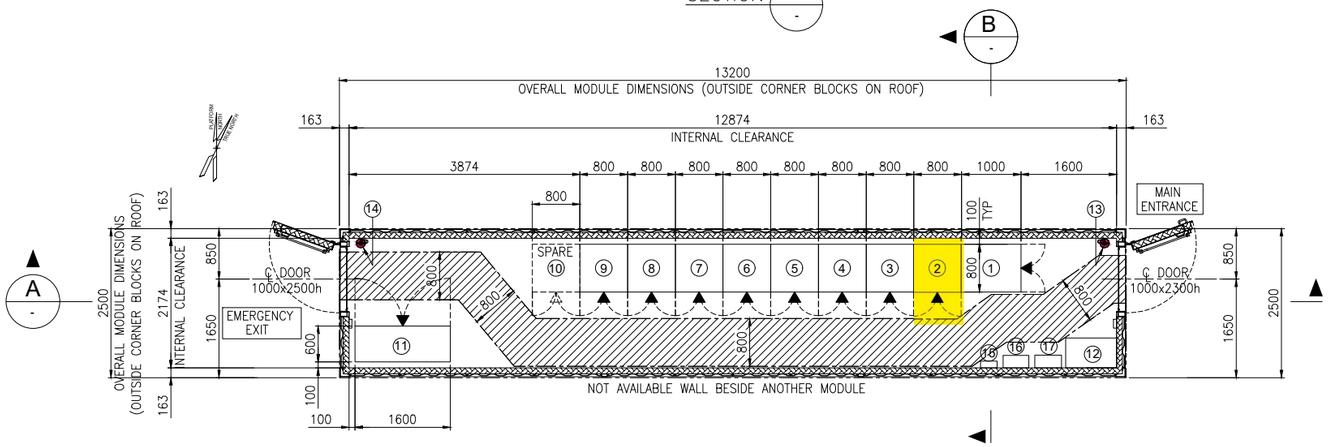
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DRAWING NO. 123A90-DDL-IN-DL-40012 REV. 03



SECTION A -

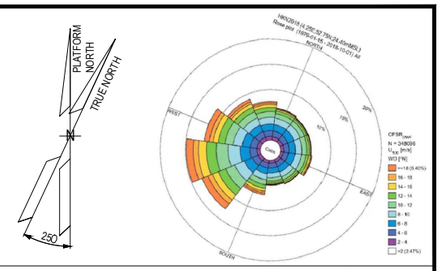
SECTION B -



EQUIPMENT LAYOUT
"B-400" I&T EQUIPMENT ROOM
BOTTOM PLAN

EQUIPMENT LIST

REF.	TAG No.	DESCRIPTION	LENGTH (mm)	WIDTH (mm)	HEIGHT (mm)	NOTE
1	B400-SRV-001	SERVER CABINET	1000	800	2100	
2	B400-NET-001	NETWORK CABINET	800	800	2100	
3	B400-EMCS-001	EMCS SYSTEM CABINET	800	800	2100	
4	B400-PCS-002	PCS MARSHALLING CABINET	800	800	2100	
5	B400-PCS-001	PCS SYSTEM CABINET 03	800	800	2100	
6	B400-FGS-003	FGS MARSHALLING CABINET 2	800	800	2100	
7	B400-FGS-002	FGS MARSHALLING CABINET 1	800	800	2100	
8	B400-FGS-001	FGS SYSTEM CABINET	800	800	2100	
9	B400-SIS-001	SIS SYSTEM/MARSHALLING CABINET	800	800	2100	
10	-	SPARE				
11	B400-HSB-001	DISTRIBUTION & HVAC PANEL - I&T ROOM	1600	600	2300	
12	-	TABLE	850	500	750	
13	-	PORTABLE EXTINGUISHER (CO2) 5 Kg.	150	150	750	
14	-	PORTABLE EXTINGUISHER (CO2) 5 Kg.	150	150	750	
15	-	FIRST AID KIT	280	115	200	
16	-	RESUSCITATION UNIT	430	210	480	
17	-	CABINET INCLUDED N.10 ESCAPE MASK	448	213	422	



NOTES

1. U.N.O. ALL DIMENSIONS ARE IN MILLIMETERS.
2. DOCUMENT VALID ONLY FOR INSTRUMENT COMPONENT, FOR OTHER SCOPE LOCATION AND INFORMATION, PLEASE REFER TO VENDORS AND PROJECT DOCUMENTS.

LEGEND

U.N.O. _____ UNLESS NOTED OTHERWISE
T.O.S. _____ TOP OF STEEL
_____ ESCAPE CORRIDOR – WIDTH 800mm.
_____ EQUIPMENT ROOM ENCLOUSURE
_____ FRONT OF EQUIPMENT

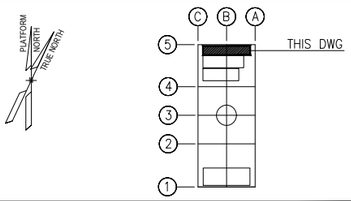
HOLDS

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REFERENCE

DOCUMENT TITLE	DOCUMENT NUMBER
Control System Architecture Detailed Drawings	123A90-DDL-IN-DD-40096
Data Network Architecture Drawings	123A90-DDL-IN-DD-40019
Earthing layouts drawings (CCR, ITER)	123A90-DDL-IN-DL-40013
Instrument and Telecom MCT Layout – Lower Deck	123A90-DDL-IN-DL-40086
"B-400" I&T Equipment Room – Architectural Layout	123A90-DDL-AR-DL-10015
"B-400" ARCHITECTURAL GENERAL LAYOUT PLAN, WIEW, SECTIONS & TYP. DETAILS	123A90-DDL-AR-DL-10015
"B-400" GENERAL ARRANGEMENT DRAWING	1724000049-AR-DA-00017
"B-400" GENERAL ARRANGEMENT DRAWING	1724000049-AR-DD-00021
"B-400" HVAC SYSTEM G.A. and DETAILS	1724000049-HV-DA-00067

KEY PLAN



REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
03	04/10/24	VBA	LCA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
02	27/05/24	MGA	LCA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	22/01/24	VBA	LCA	DLO	ISSUE FOR REVIEW (IFR)
00	07/11/23	VBA	LCA	DLO	ISSUE FOR REVIEW (IFR)

VALID FOR CONSTRUCTION
FDL DWG: 123A90-FDL-IN-DL-40012
REV.: 3_A | DATE: 07/10/24 | SIGNATURE: G.Randi
ROSETTI MARINO SpA

CROSSWIND | ROSETTI MARINO

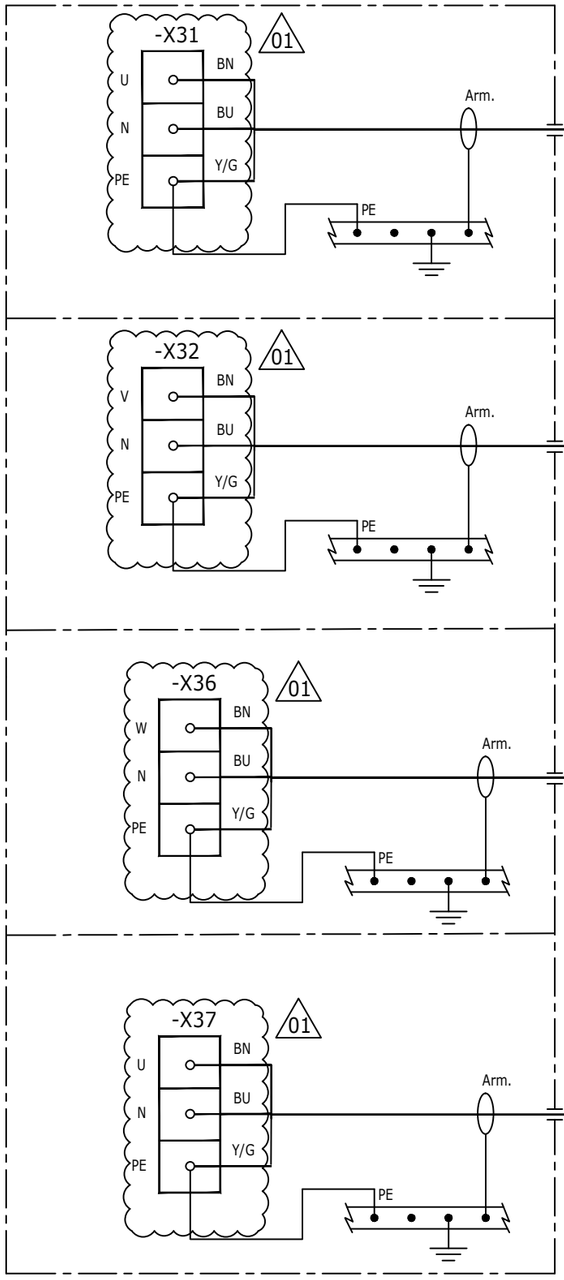
TITLE : BASE LOAD POWER HUB (BLPH) OFF-SHORE ITER EQUIPMENT LAYOUT

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK			SCALE 1:33,3
DRAWN MGA	CHECKED LCA	APPROVED DLO	DATE 27/05/24
A1	DRAWING NO. 123A90-DDL-IN-DL-40012	SHEET 001	REV. 03

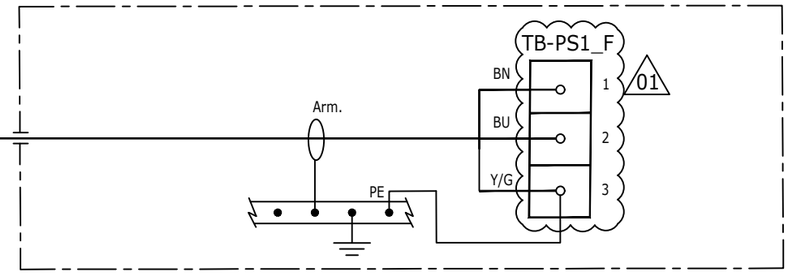
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FROM	TO

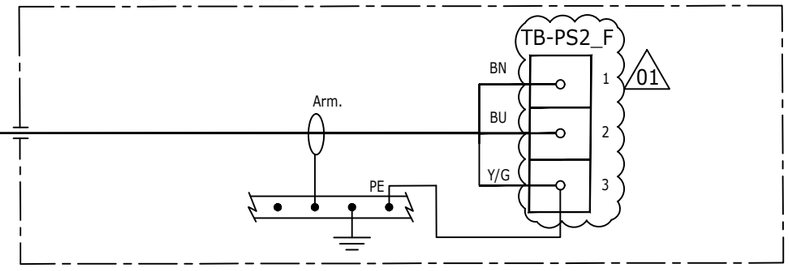
DESCRIPTION: AC UPS - F&G DB
TAG NUMBER: DP-200F4



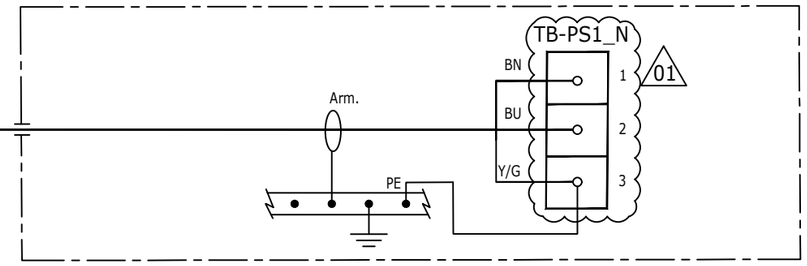
DESCRIPTION: FGS FIRE & GAS PANEL - LINE A
TAG NUMBER: B400-FGS-001



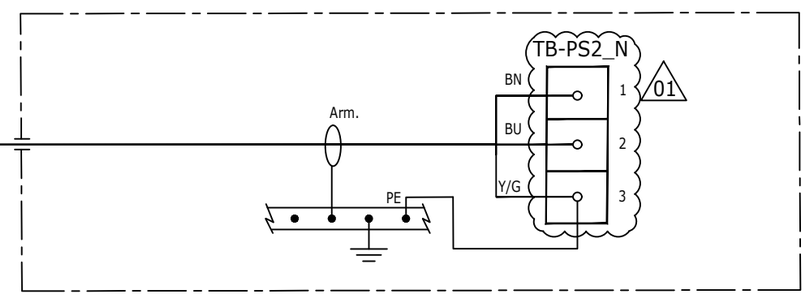
DESCRIPTION: FGS FIRE & GAS PANEL - LINE B
TAG NUMBER: B400-FGS-001



DESCRIPTION: SYSTEM SERVER / NETWORK CABINET - LINE A
TAG NUMBER: B400-NET-001



DESCRIPTION: SYSTEM SERVER / NETWORK CABINET - LINE B
TAG NUMBER: B400-NET-001



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

REV.:	DATE:	SIGNATURE:
1_A	17/10/24	G.Randi

ROSETTI MARINO SpA

CROSSWIND

ROSETTI MARINO

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
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)

TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL INTERCONNECTING WIRING DIAGRAM
AC UPS – F&G DB (DP-200F4)

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

SCALE : 1:X

A3

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

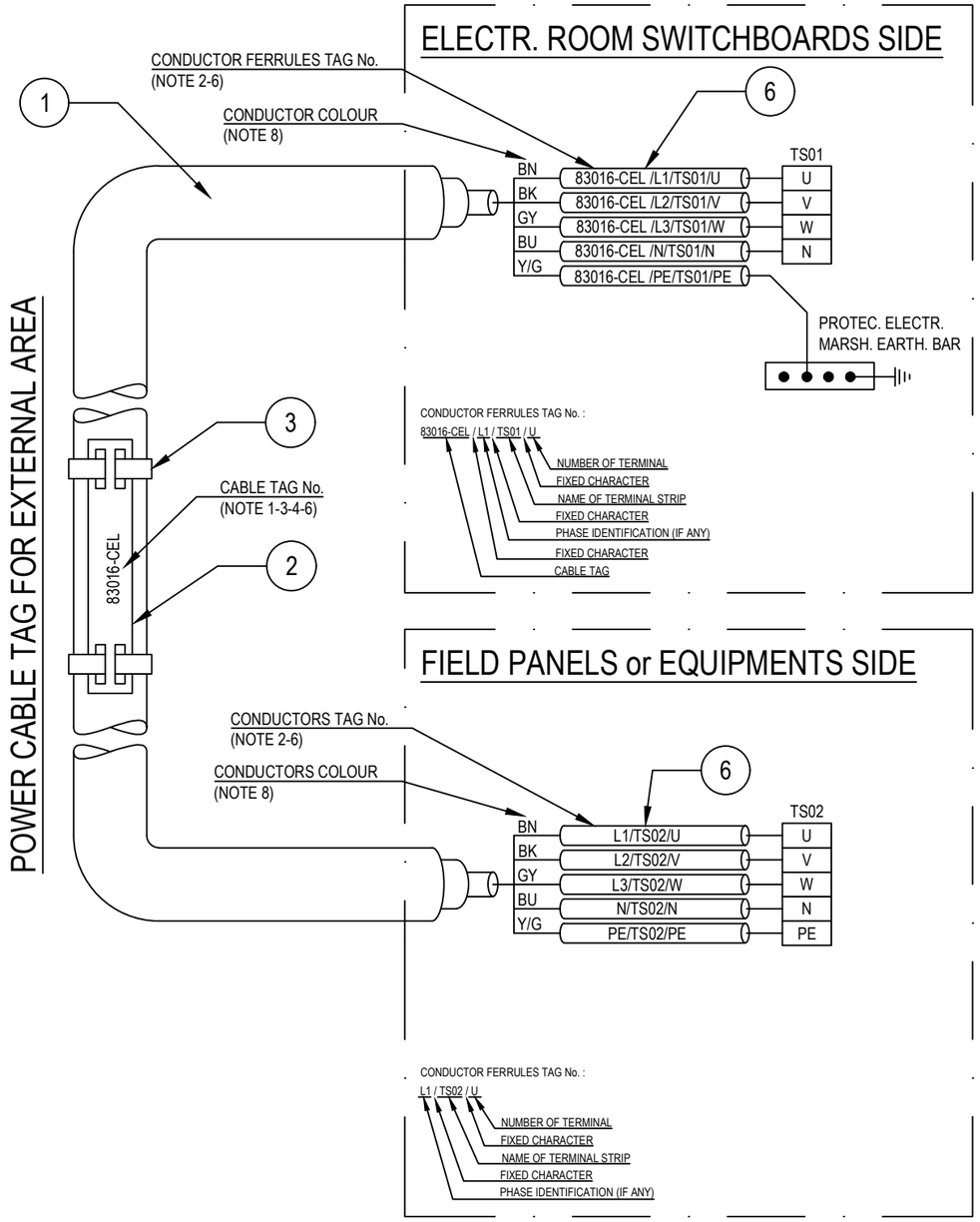
SHEET 043

REV. 01

F.to UNI A3: 420mmx297mm

File Name : 123A90-DDL-EL-DG-20162 Rev. 01

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.

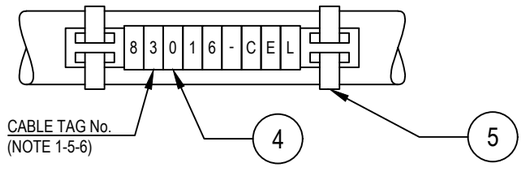
5) THE CABLE TAG FOR INTERNAL AREA SHALL BE DONE BY ENGRAVED PLASTIC SLIP ON CHARACTERS ONTO PLASTIC TIE, BLACK LETTER (H=5mm) ON WHITE.

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.: 2_A | DATE: 28/08/24 | SIGNATURE: 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

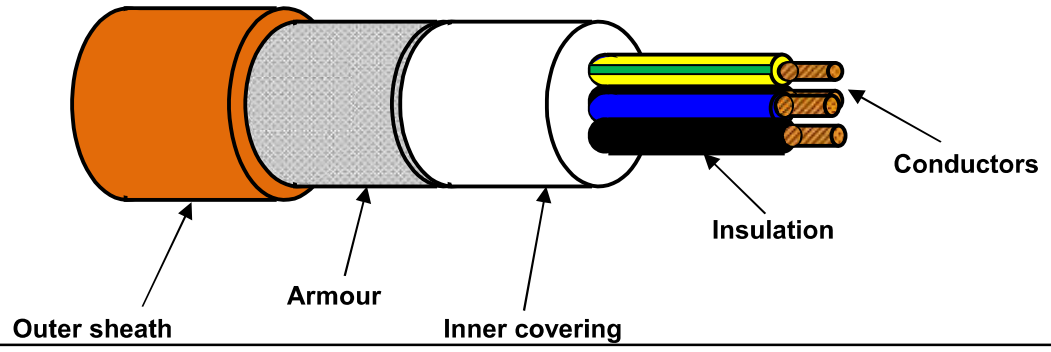
F.to UNI A3: 420mmx297mm

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
84404-CEL	Cable	EL	VFC	123A90-DDL-EL-LIS-20148						DP-200F4	AC UPS 15 kVA Distribution Board	Lower Deck (B-300)	B400-NET-001	Network Cabinet / EMCS System	Lower Deck (B-400)	ELECV19-3G2,5	Cable Cu Cl.2/MGT/EPR/LSZH/GSWB/LSZH 0,6/1kV 3G2,5mm² - Orange	M20	T2_M20_Double			n.a.				L-450-101-LVT-043 / L-600-101-LVT-035 / E-MCT-302 / L-450-101-LVT-005 / L-600-101-LVT-010 / L-750-101-LVT-015 / L-300-101-LVT-007 / E-MCT-402 / L-300-101-LVT-065 / L-300-101-LVT-066 / L-300-101-LVT-067 / L-150-101-LVT-148

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

3G2,5 - L.V. POWER CABLE - Fire Resistant & Flame Retardant - ARMOURED



TECHNICAL FEATURES

Conductors :	**STRANDED** plain/bare annealed copper wires	IEC 60228 Class 2
Insulation :	Mica/Glass Tape (MGT) plus EPR compound, quality to IEC 60092.360, Nominal Thickness 1,0 mm	
Cores colour code :	**Brown - 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 1,0 mm	
Inner covering color code:	**Black or Natural**	
Armour :	**Galvanized Steel Wire Braid Armour (coverage ≥ 90%)**	
Outer sheath :	Extruded LSZH Thermoplastic Compound (O.I. ≥ 30%), type **SHF1** to IEC 60093.360, Average Thickness 1,3 mm	
Outer sheath color code:	**Orange**	
Outer printing (INKJET) :	**FLEI - ELECTRIC CABLE - 1000V - 3G2,5 SQMM - MGT/EPR/LSZH/GSWB/LSZH - 0,6/1 KV - IEC 60331.21 - IEC 60332.1.2 - IEC 60332.3.22 - Year of Manufacture - CE + Meter Marking**	
Under Armour diameter :	(11,7 ± 10%) mm	
Over Armour diameter :	(12,9 ± 10%) mm	
Outer diameter :	(15,5 ± 10%) mm	
Bending radius :	cable outer diameter x 10	(in fixed installation)
Voltage test :	3,5 kV a.c. for 5' (Between Cores - Armour)	
Conductors DC Resistance :		IEC 60228 Class 2
Insulation Resistance :	≥ 940 MΩ x Km (@ 20°C)	
Applicable Standards		
Design Guidelines :	**IEC 60092.353**	
ON COMPLETE CABLE		
Fire Resistant test :	**IEC 60331.21**	
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			
Checked :	29/03/2024	Spaccasassi			
Approved :	29/03/2024	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	83108-CEL	: Lighting & Small Power DB BoP / System Server / Network Cabinet - Auxiliary			Dwg	123A90-DDL-EL-LIS-20148
	S/Sys	86-00	: Data Networks			Module	LD_B-200/LD_B-400
TASK	code	C10000627	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 3G2.5 Color Grey

From DP-200N1 To B400-NET-001

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.	OK
6	Confirm cable glands suit for cable type, correctly mounted and tightened.	NA
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	OK
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	83108-CEL	: Lighting & Small Power DB BoP / System Server / Network Cabinet - Auxiliary			Dwg	123A90-DDL-EL-LIS-20148
	S/Sys	86-00	: Data Networks			Module	LD_B-200/LD_B-400
TASK	code	C10000627		Location	Onshore Activities	User	Rosetti Marino Quality Control
FORM	Process	MC	Activity CCK	Discipline	Electrical	Form	CPX09 LV Power Cable

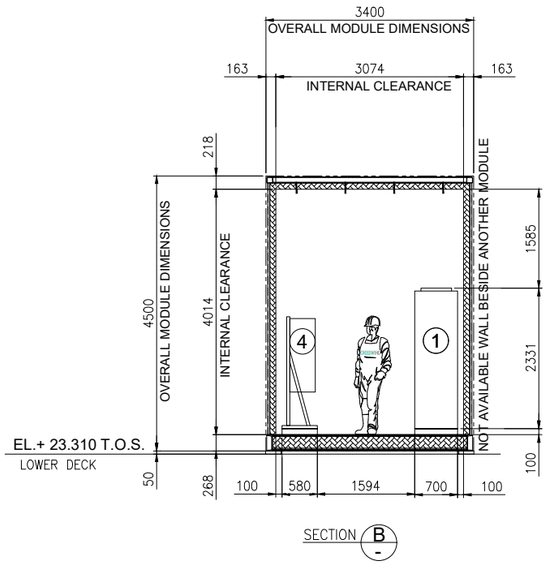
CONTINUITY				
5	CORE CONTINUITY Ω	PH 1	0,5	
6		PH 2	0,5	
7		PH 3	NA	
8	ARMOUR CONTINUITY Ω		NA	
9	PROTECTIVE CONDUCTOR CONTINUITY Ω		0,4	
INSULATION				
10	CORES / ARMOUR+EARTH MΩ	PH1 / PH2-PH3-A-E	>1999	
11		PH2 / PH1-PH3-A-E	>1999	
12		PH3 / PH1-PH2-A-E	NA	
13	CABLE IS CORRECTLY RE-CONNECTED.		Yes	

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

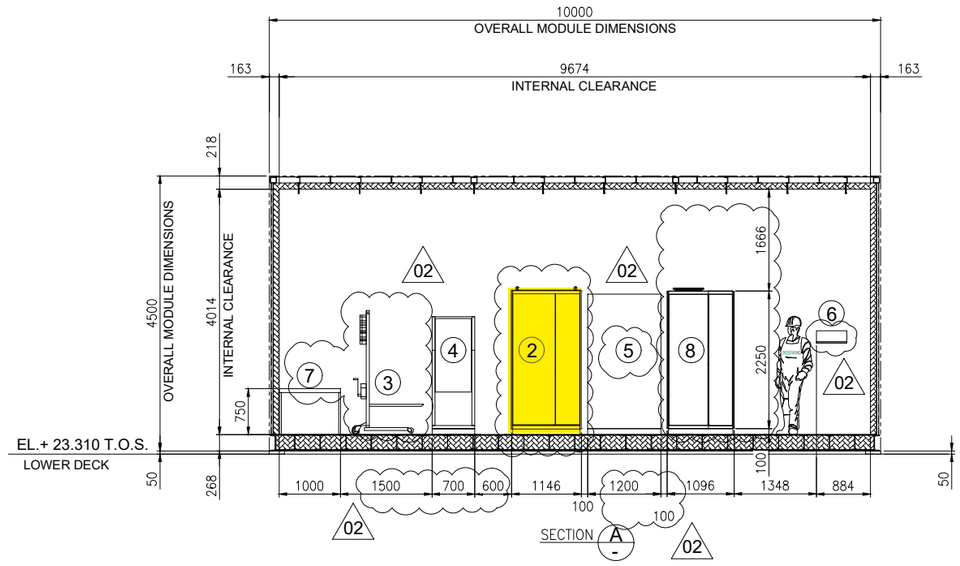
Comments:

	Performed by	● WITNESS ☐ REVIEW	☐ WITNESS ☐ REVIEW
Company	ICS IMPIANTI	RM (Rosetti Marino)	
Name	Carmelo Bongiovanni	Giovanni Tangianu	
Date	2024-11-06	2024-11-09	
Signature	PROVERLIS Digitaly signed by Carmelo Bongiovanni 2024-11-06T17:18:02.037Z	PROVERLIS Digitaly signed by Giovanni Tangianu 2024-11-09T10:13:12.757Z	

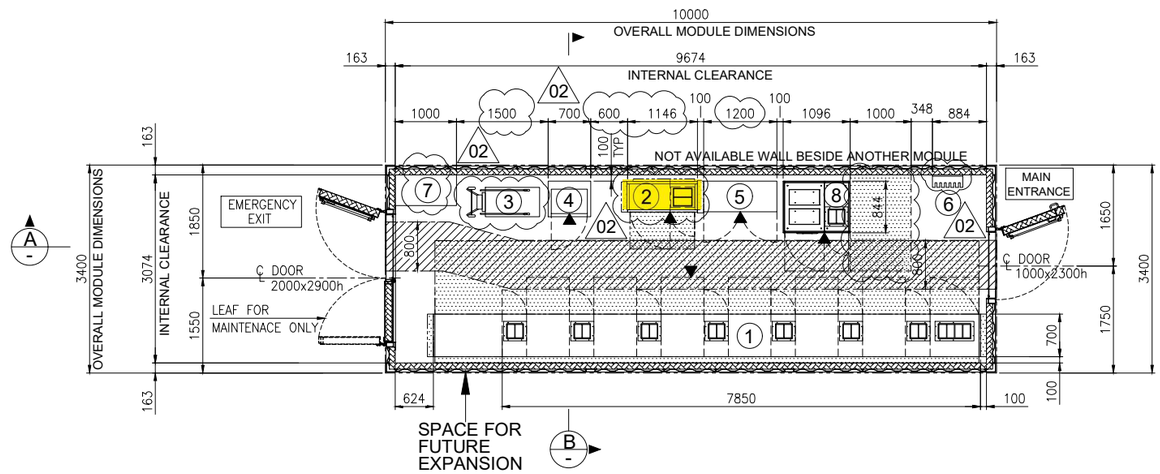
DRAWING NO. 123A90-DDL-EL-DL-20105 | REV. 02



SECTION B



SECTION A



A

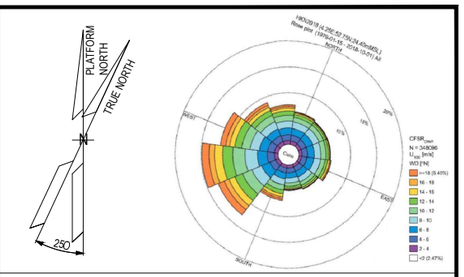
B

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

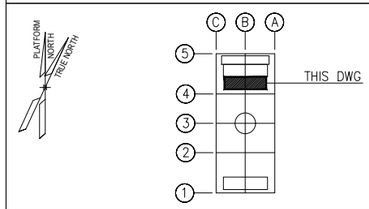
U.N.O. _____ UNLESS NOTED OTHERWISE
T.O.S. _____ TOP OF STEEL
_____ ESCAPE CORRIDOR - WIDTH 800mm.
_____ MAINTENANCE AREA - VENDOR REQUIREMENT
_____ SWITCHGEAR ROOM ENCLOUSURE
_____ FRONT OF EQUIPMENT

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



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

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

ROSETTI MARINO SpA

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	OYFO/MDO	ISSUE FOR REVIEW (IFR)

CROSSWIND | ROSETTI MARINO

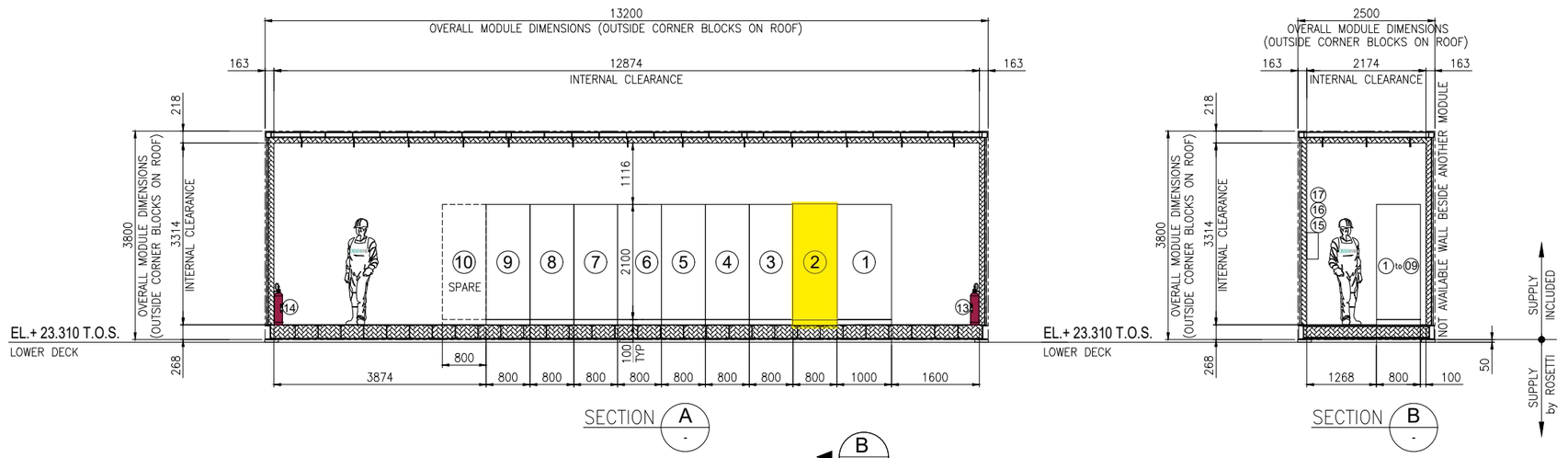
TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL EQUIPMENT LAYOUT
LV SWITCHROOM

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

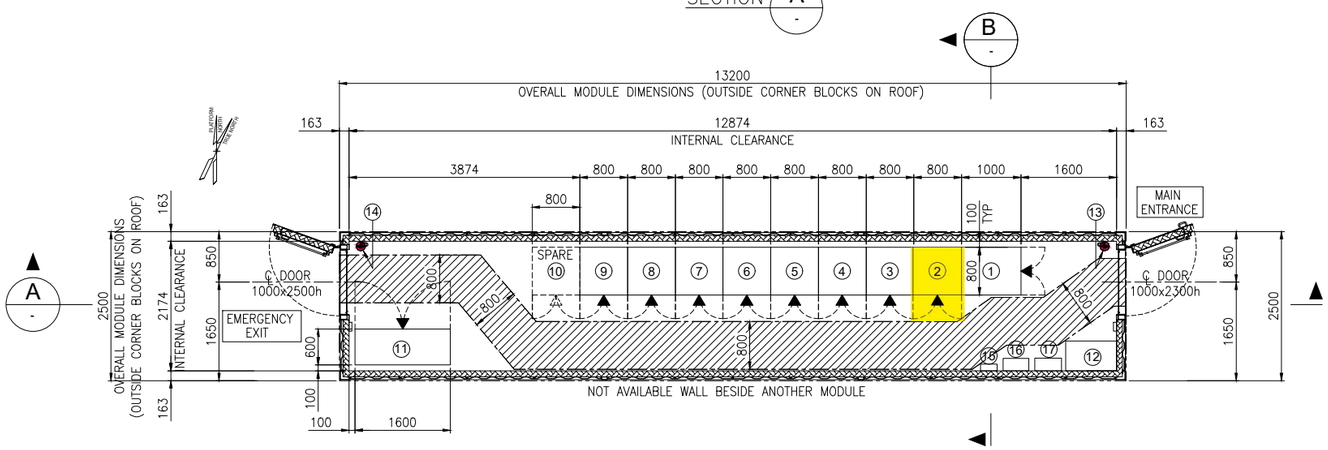
DRAWING NO. 123A90-DDL-IN-DL-40012

REV. 03



SECTION A -

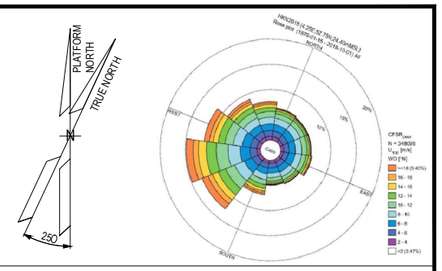
SECTION B -



EQUIPMENT LAYOUT
"B-400" I&T EQUIPMENT ROOM
BOTTOM PLAN

EQUIPMENT LIST

REF.	TAG No.	DESCRIPTION	LENGTH (mm)	WIDTH (mm)	HEIGHT (mm)	NOTE
1	B400-SRV-001	SERVER CABINET	1000	800	2100	
2	B400-NET-001	NETWORK CABINET	800	800	2100	
3	B400-EMCS-001	EMCS SYSTEM CABINET	800	800	2100	
4	B400-PCS-002	PCS MARSHALLING CABINET	800	800	2100	
5	B400-PCS-001	PCS SYSTEM CABINET 03	800	800	2100	
6	B400-FGS-003	FGS MARSHALLING CABINET 2	800	800	2100	
7	B400-FGS-002	FGS MARSHALLING CABINET 1	800	800	2100	
8	B400-FGS-001	FGS SYSTEM CABINET	800	800	2100	
9	B400-SIS-001	SIS SYSTEM/MARSHALLING CABINET	800	800	2100	
10	-	SPARE				
11	B400-HSB-001	DISTRIBUTION & HVAC PANEL - I&T ROOM	1600	600	2300	
12	-	TABLE	850	500	750	
13	-	PORTABLE EXTINGUISHER (CO2) 5 Kg.	150	150	750	
14	-	PORTABLE EXTINGUISHER (CO2) 5 Kg.	150	150	750	
15	-	FIRST AID KIT	280	115	200	
16	-	RESUSCITATION UNIT	430	210	480	
17	-	CABINET INCLUDED N.10 ESCAPE MASK	448	213	422	



NOTES

1. U.N.O. ALL DIMENSIONS ARE IN MILLIMETERS.
2. DOCUMENT VALID ONLY FOR INSTRUMENT COMPONENT, FOR OTHER SCOPE LOCATION AND INFORMATION, PLEASE REFER TO VENDORS AND PROJECT DOCUMENTS.

LEGEND

U.N.O. _____ UNLESS NOTED OTHERWISE
T.O.S. _____ TOP OF STEEL
_____ ESCAPE CORRIDOR – WIDTH 800mm.
_____ EQUIPMENT ROOM ENCLOUSURE
_____ FRONT OF EQUIPMENT

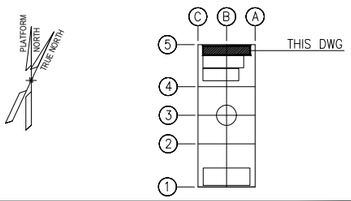
HOLDS

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REFERENCE

DOCUMENT TITLE	DOCUMENT NUMBER
Control System Architecture Detailed Drawings	123A90-DDL-IN-DD-40096
Data Network Architecture Drawings	123A90-DDL-IN-DD-40019
Earthing layouts drawings (CCR, ITER)	123A90-DDL-IN-DL-40013
Instrument and Telecom MCT Layout – Lower Deck	123A90-DDL-IN-DL-40086
"B-400" I&T Equipment Room – Architectural Layout	123A90-DDL-AR-DL-10015
"B-400" ARCHITECTURAL GENERAL LAYOUT PLAN, WIEW, SECTIONS & TYP. DETAILS	123A90-DDL-AR-DL-10015
"B-400" GENERAL ARRANGEMENT DRAWING	1724000049-AR-DA-00017
"B-400" GENERAL ARRANGEMENT DRAWING	1724000049-AR-DD-00021
"B-400" HVAC SYSTEM G.A. and DETAILS	1724000049-HV-DA-00067

KEY PLAN



REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
03	04/10/24	VBA	LCA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
02	27/05/24	MGA	LCA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	22/01/24	VBA	LCA	DLO	ISSUE FOR REVIEW (IFR)
00	07/11/23	VBA	LCA	DLO	ISSUE FOR REVIEW (IFR)

VALID FOR CONSTRUCTION
FDL DWG: 123A90-FDL-IN-DL-40012

REV.:	DATE:	SIGNATURE:
3_A	07/10/24	G.Randi

ROSETTI MARINO SpA

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
OFF-SHORE ITER
EQUIPMENT LAYOUT

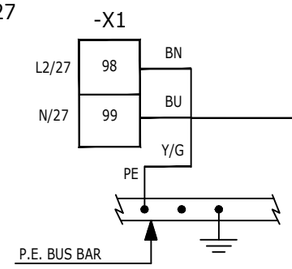
CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK			SCALE 1:33,3
DRAWN MGA	CHECKED LCA	APPROVED DLO	DATE 27/05/24
A1	DRAWING NO. 123A90-DDL-IN-DL-40012	SHEET 001	REV. 03

File Name : 123A90-DDL-IN-DL-40012 Rev.03.dwg

FROM	TO

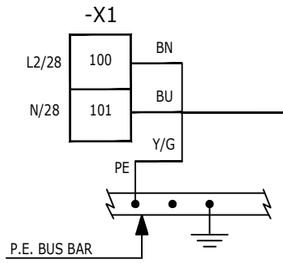
DESCRIPTION: LIGHTING & SMALL POWER DB BOP
TAG NUMBER: DP-200N1

CUBICLE/CB: +03/Q27



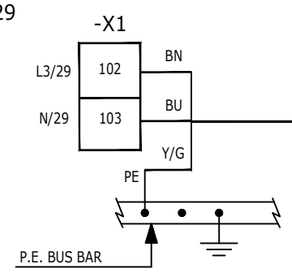
83108-CEL
3G2.5 mm²

CUBICLE/CB: +03/Q28



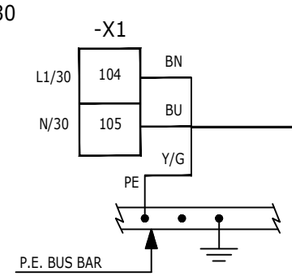
83109-CEL
3G2.5 mm²

CUBICLE/CB: +03/Q29



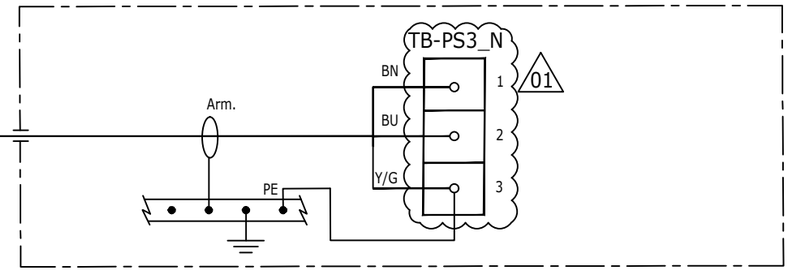
83110-CEL
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CUBICLE/CB: +03/Q30

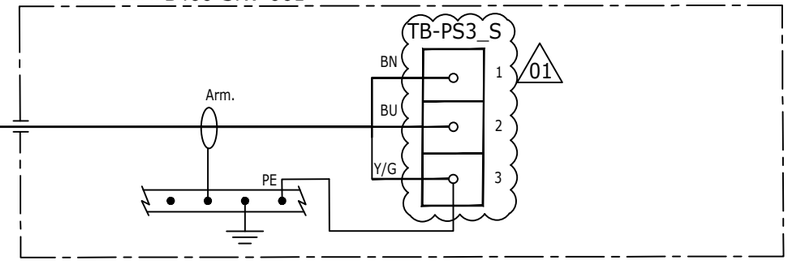


83111-CEL
3G2.5 mm²

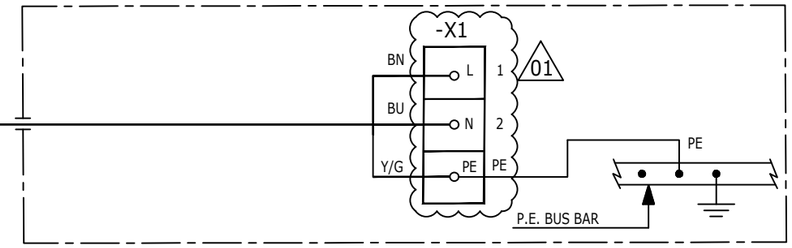
DESCRIPTION: SYSTEM SERVER / NETWORK CABINET - AUXILIARY
TAG NUMBER: B400-NET-001



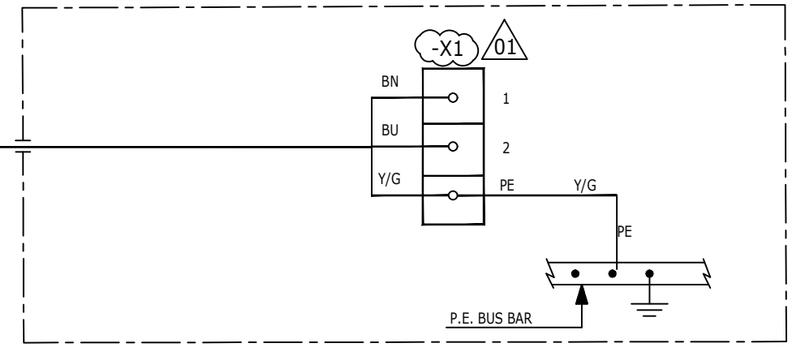
DESCRIPTION: SERVER CABINER ITER - AUXILIARY
TAG NUMBER: B400-SRV-001



DESCRIPTION: UCP - INSTRUMENT AIR PACKAGE -A-63000 - AUXILIARY
TAG NUMBER: CP-630E1



DESCRIPTION: UCP - N2 PACKAGE - AUXILIARY
TAG NUMBER: CP-640F1



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

REV.:	DATE:	SIGNATURE:
1_A	17/10/24	G.Randi

ROSETTI MARINO SpA

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
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
LIGHTING & SMALL POWER DB BOP

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

SCALE : 1:X

A3

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

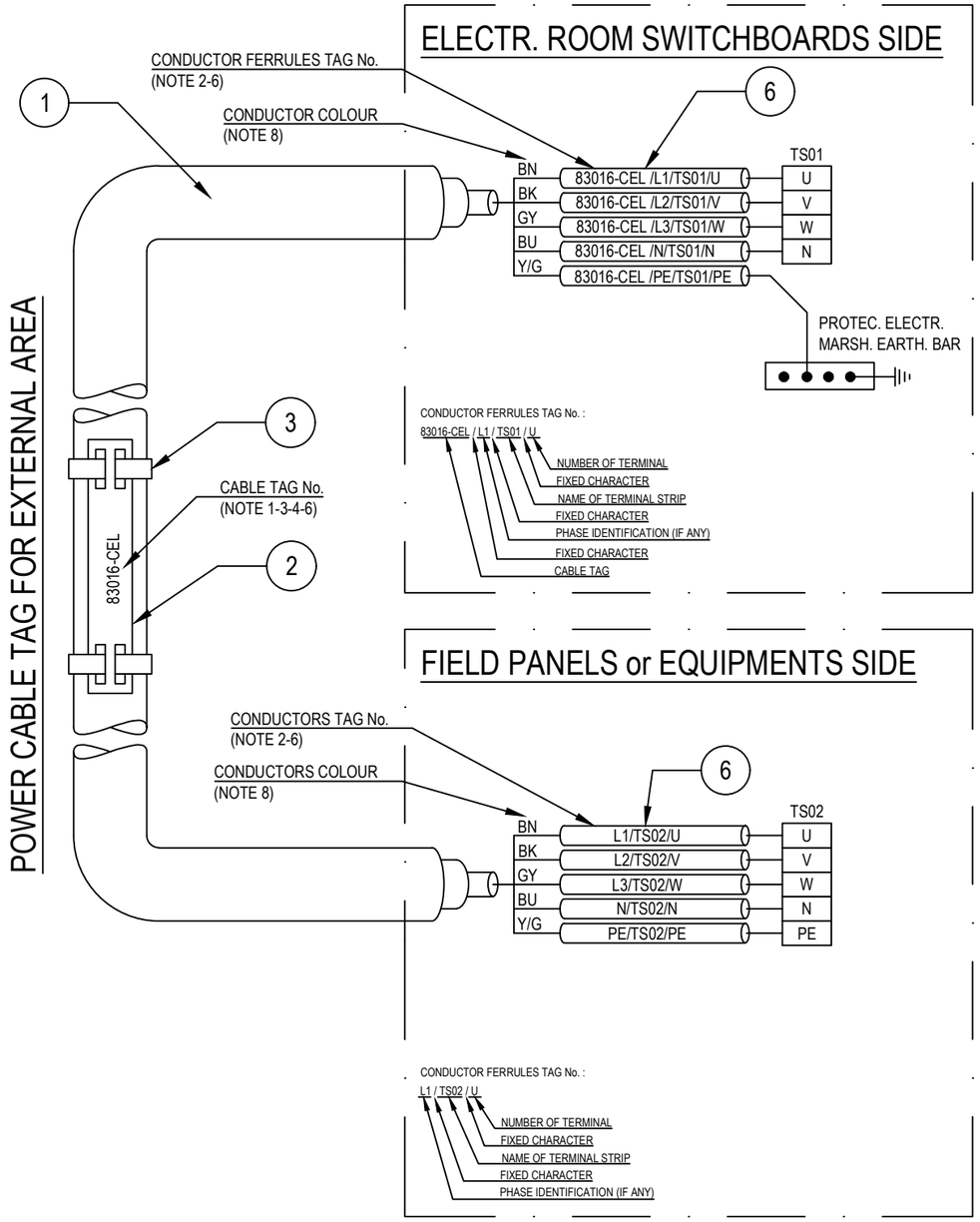
SHEET 053

REV. 01

F.to UNI A3: 420mmx297mm

File Name : 123A90-DDL-EL-DG-20162 Rev. 01

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.

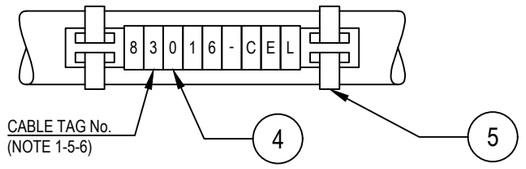
5) THE CABLE TAG FOR INTERNAL AREA SHALL BE DONE BY ENGRAVED PLASTIC SLIP ON CHARACTERS ONTO PLASTIC TIE, BLACK LETTER (H=5mm) ON WHITE.

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.: 2_A | DATE: 28/08/24 | SIGNATURE: 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

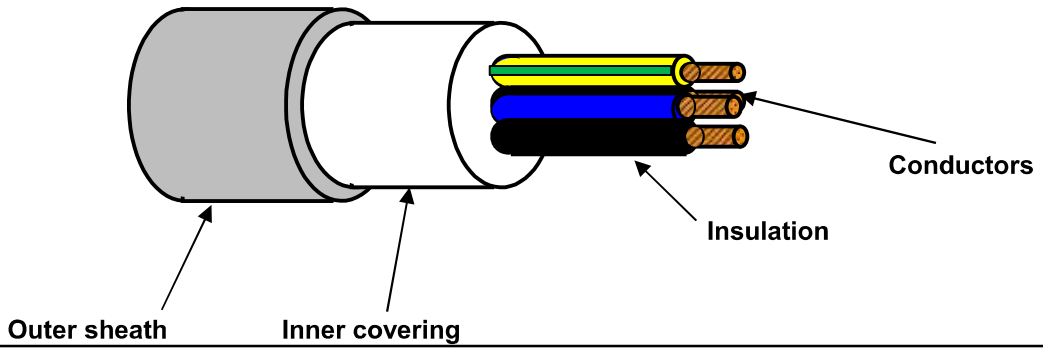
File Name : 123A90-DDL-EL-DD-20092 REV.02.DWG

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
83108-CEL	Cable	EL	VFC	123A90-DDL-EL-LIS-20148						DP-200N1	LV 0,4 / 0,23 kV Distribution Switchgear	Lower Deck (B-200)	B400-NET-001	Network Cabinet / EMCS System	Lower Deck (B-400)	ELECV06-3G2,5	Cable Cu Cl.2/EPR/LSZH 0,6/1kV 3G2,5mm² - Grey	M20	n.a.			n.a.				L-450-101-LVT-030 / L-600-101-LVT-020 / L-600-101-LVT-018 / L-600-101-LVT-017 / E-MCT-201 / L-750-101-LVT-011 / L-450-101-LVT-008 / L-300-101-LVT-009 / E-MCT-401 / L-300-101-LVT-065 / L-300-101-LVT-066 / L-300-101-LVT-067 / L-150-101-LVT-148

FLEI s.r.l.

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

3G2,5 - L.V. POWER CABLE - Flame Retardant



TECHNICAL FEATURES

Conductors :	**STRANDED** plain/bare annealed copper wires	IEC 60228 Class 2
Insulation :	EPR compound, quality to IEC 60092.360, Nominal Thickness 1,0 mm	
Cores colour code :	**Brown - 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 1,0 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 1,2 mm	
Outer sheath color code:	**Grey**	
Outer printing (INKJET) :	**FLEI - ELECTRIC CABLE - 1000V - 3G2,5 SQMM - EPR/LSZH - 0,6/1 KV - IEC 60332.1.2 - IEC 60332.3.22 -**	
	Year of Manufacture - CE + Meter Marking	
Outer diameter :	(13,0 ± 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 :	≥ 1100 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			
Checked :	29/03/2024	Spaccasassi			
Approved :	29/03/2024	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.

All proprietary rights reserved according to law. This document shall be not reproduced without written permission. FLEI reserves the right to change characteristics and technical data of product shown at any time.

ITEM	Tag	83109-CEL	: Lighting & Small Power DB BoP / Server cabiner ITER - Auxiliary			Dwg	123A90-DDL-EL-LIS-20148
	S/Sys	86-00	: Data Networks			Module	LD_B-200/LD_B-400
TASK	code	C10000628		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 3G2.5 Color Grey

From DP-200N1 To B400-SRV-001

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.	OK
6	Confirm cable glands suit for cable type, correctly mounted and tightened.	NA
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	OK
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	83109-CEL	: Lighting & Small Power DB BoP / Server cabiner ITER - Auxiliary			Dwg	123A90-DDL-EL-LIS-20148
	S/Sys	86-00	: Data Networks			Module	LD_B-200/LD_B-400
TASK	code	C10000628	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	0,4	
6		PH 2	0,4	
7		PH 3	NA	
8	ARMOUR CONTINUITY Ω		NA	
9	PROTECTIVE CONDUCTOR CONTINUITY Ω		0,5	
INSULATION				
10	CORES / ARMOUR+EARTH MΩ	PH1 / PH2-PH3-A-E	>1999	
11		PH2 / PH1-PH3-A-E	>1999	
12		PH3 / PH1-PH2-A-E	NA	
13	CABLE IS CORRECTLY RE-CONNECTED.		Yes	

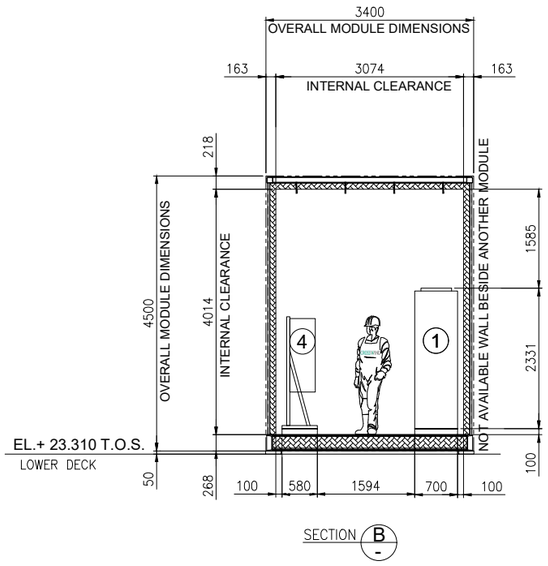
TESTING INSTRUMENTS USED

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

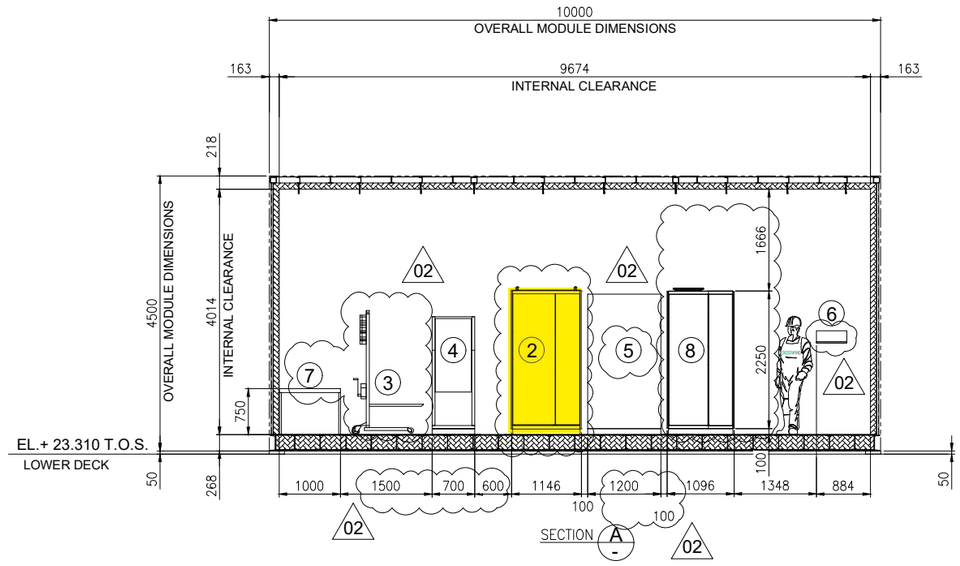
Comments:

	Performed by	☉ WITNESS ☐ REVIEW	☐ WITNESS ☐ REVIEW
Company	ICS IMPIANTI	RM (Rosetti Marino)	
Name	Carmelo Bongiovanni	Giovanni Tangianu	
Date	2024-11-06	2024-11-09	
Signature	PROVERLIS Digitaly signed by Carmelo Bongiovanni 2024-11-06T17:18:13.834Z	PROVERLIS Digitaly signed by Giovanni Tangianu 2024-11-09T10:11:58.934Z	

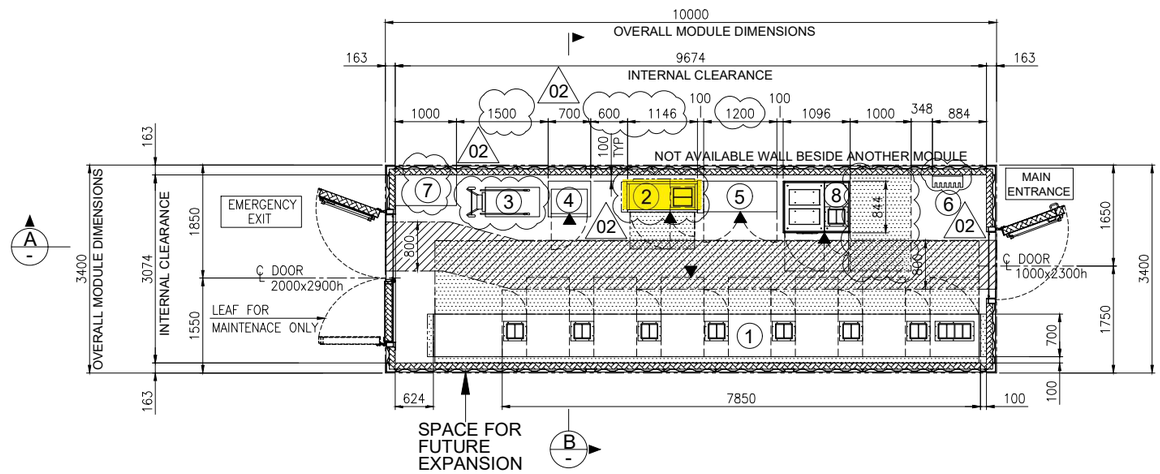
DRAWING NO. 123A90-DDL-EL-DL-20105 | REV. 02



SECTION B



SECTION A



A

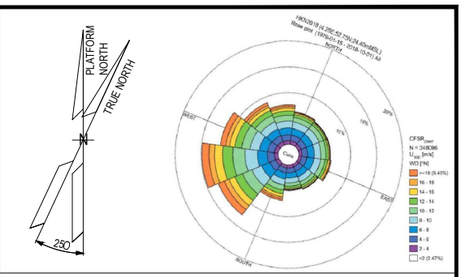
B

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

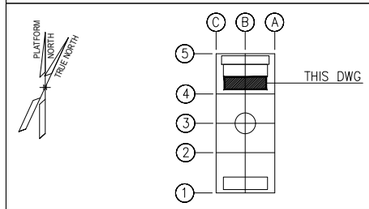
U.N.O. _____ UNLESS NOTED OTHERWISE
T.O.S. _____ TOP OF STEEL
_____ ESCAPE CORRIDOR - WIDTH 800mm.
_____ MAINTENANCE AREA - VENDOR REQUIREMENT
_____ SWITCHGEAR ROOM ENCLOUSURE
_____ FRONT OF EQUIPMENT

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



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

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

ROSETTI MARINO SpA

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	OYFO/MDO	ISSUE FOR REVIEW (IFR)

CROSSWIND | ROSETTI MARINO

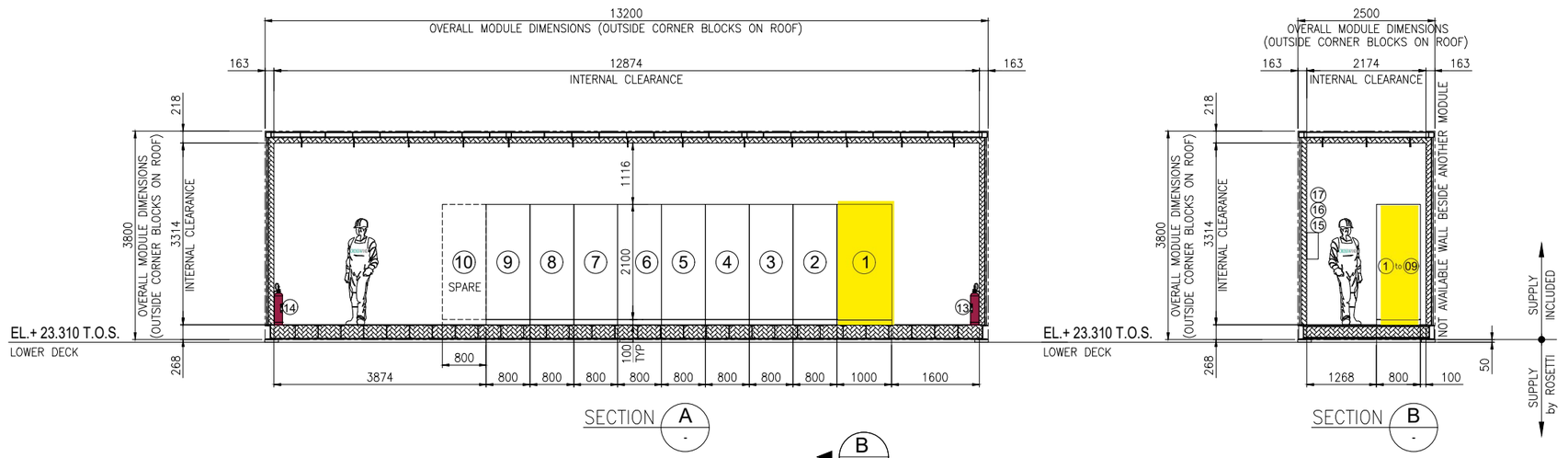
TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL EQUIPMENT LAYOUT
LV SWITCHROOM

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

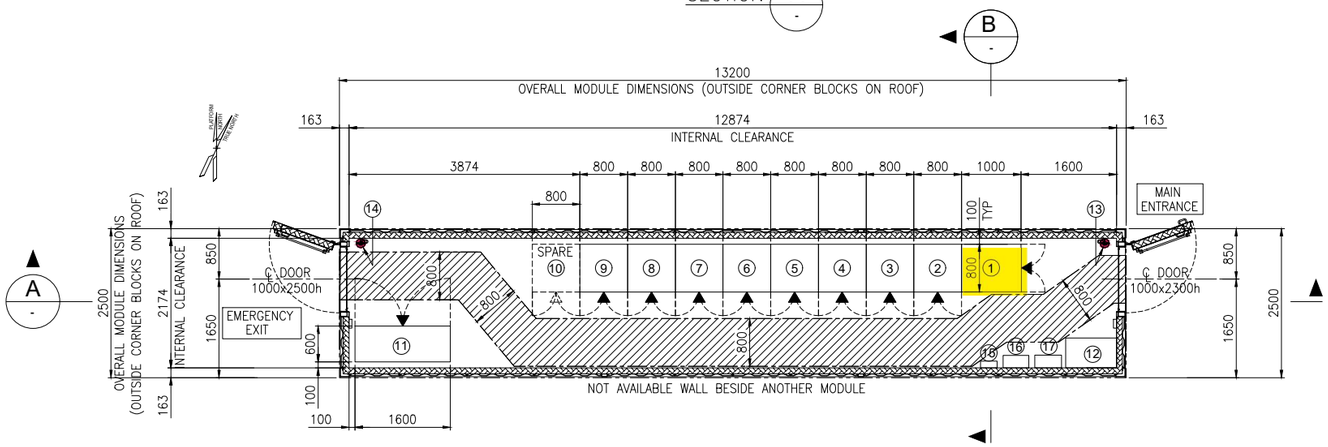
DRAWING NO. 123A90-DDL-IN-DL-40012

REV. 03



SECTION A -

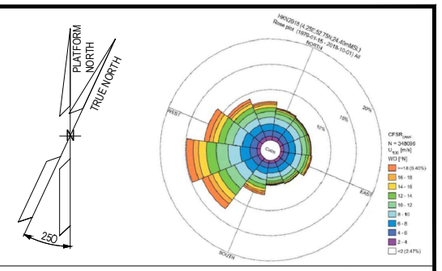
SECTION B -



EQUIPMENT LAYOUT
"B-400" I&T EQUIPMENT ROOM
BOTTOM PLAN

EQUIPMENT LIST

REF.	TAG No.	DESCRIPTION	LENGTH (mm)	WIDTH (mm)	HEIGHT (mm)	NOTE
1	B400-SRV-001	SERVER CABINET	1000	800	2100	
2	B400-NET-001	NETWORK CABINET	800	800	2100	
3	B400-EMCS-001	EMCS SYSTEM CABINET	800	800	2100	
4	B400-PCS-002	PCS MARSHALLING CABINET	800	800	2100	
5	B400-PCS-001	PCS SYSTEM CABINET 03	800	800	2100	
6	B400-FGS-003	FGS MARSHALLING CABINET 2	800	800	2100	
7	B400-FGS-002	FGS MARSHALLING CABINET 1	800	800	2100	
8	B400-FGS-001	FGS SYSTEM CABINET	800	800	2100	
9	B400-SIS-001	SIS SYSTEM/MARSHALLING CABINET	800	800	2100	
10	-	SPARE				
11	B400-HSB-001	DISTRIBUTION & HVAC PANEL - I&T ROOM	1600	600	2300	
12	-	TABLE	850	500	750	
13	-	PORTABLE EXTINGUISHER (CO2) 5 Kg.	150	150	750	
14	-	PORTABLE EXTINGUISHER (CO2) 5 Kg.	150	150	750	
15	-	FIRST AID KIT	280	115	200	
16	-	RESUSCITATION UNIT	430	210	480	
17	-	CABINET INCLUDED N.10 ESCAPE MASK	448	213	422	



NOTES

1. U.N.O. ALL DIMENSIONS ARE IN MILLIMETERS.
2. DOCUMENT VALID ONLY FOR INSTRUMENT COMPONENT, FOR OTHER SCOPE LOCATION AND INFORMATION, PLEASE REFER TO VENDORS AND PROJECT DOCUMENTS.

LEGEND

U.N.O. _____ UNLESS NOTED OTHERWISE
T.O.S. _____ TOP OF STEEL
_____ ESCAPE CORRIDOR – WIDTH 800mm.
_____ EQUIPMENT ROOM ENCLOUSURE
_____ FRONT OF EQUIPMENT

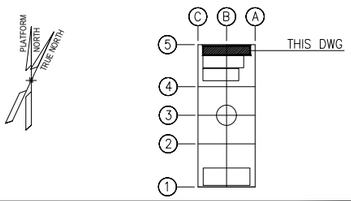
HOLDS

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REFERENCE

DOCUMENT TITLE	DOCUMENT NUMBER
Control System Architecture Detailed Drawings	123A90-DDL-IN-DD-40096
Data Network Architecture Drawings	123A90-DDL-IN-DD-40019
Earthing layouts drawings (CCR, ITER)	123A90-DDL-IN-DL-40013
Instrument and Telecom MCT Layout – Lower Deck	123A90-DDL-IN-DL-40086
"B-400" I&T Equipment Room – Architectural Layout	123A90-DDL-AR-DL-10015
"B-400" ARCHITECTURAL GENERAL LAYOUT PLAN, WIEW, SECTIONS & TYP. DETAILS	123A90-DDL-AR-DL-10015
"B-400" GENERAL ARRANGEMENT DRAWING	1724000049-AR-DA-00017
"B-400" GENERAL ARRANGEMENT DRAWING	1724000049-AR-DD-00021
"B-400" HVAC SYSTEM G.A. and DETAILS	1724000049-HV-DA-00067

KEY PLAN



REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
03	04/10/24	VBA	LCA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
02	27/05/24	MGA	LCA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	22/01/24	VBA	LCA	DLO	ISSUE FOR REVIEW (IFR)
00	07/11/23	VBA	LCA	DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND

ROSETTI MARINO

VALID FOR CONSTRUCTION
FDL DWG: 123A90-FDL-IN-DL-40012
REV.: 3_A | DATE: 07/10/24 | SIGNATURE: G.Randi
ROSETTI MARINO SpA

TITLE : BASE LOAD POWER HUB (BLPH) OFF-SHORE ITER EQUIPMENT LAYOUT

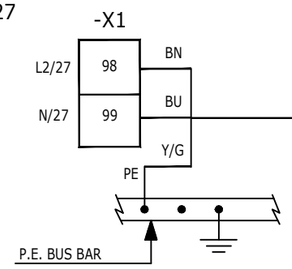
CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK			SCALE 1:33,3
DRAWN MGA	CHECKED LCA	APPROVED DLO	DATE 27/05/24
A1	DRAWING NO. 123A90-DDL-IN-DL-40012	SHEET 001	REV. 03

File Name : 123A90-DDL-IN-DL-40012 Rev.03.dwg

FROM	TO

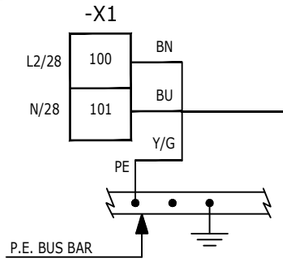
DESCRIPTION: LIGHTING & SMALL POWER DB BOP
TAG NUMBER: DP-200N1

CUBICLE/CB: +03/Q27



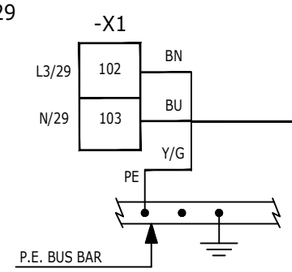
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3G2.5 mm²

CUBICLE/CB: +03/Q28



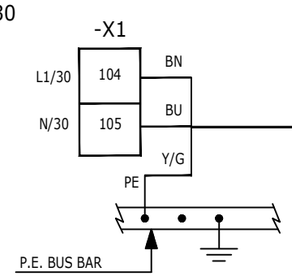
83109-CEL
3G2.5 mm²

CUBICLE/CB: +03/Q29



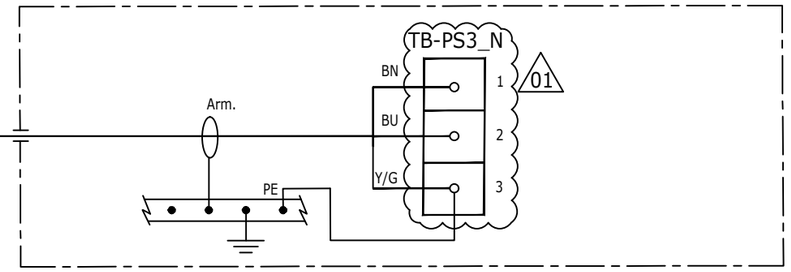
83110-CEL
3G2.5 mm²

CUBICLE/CB: +03/Q30

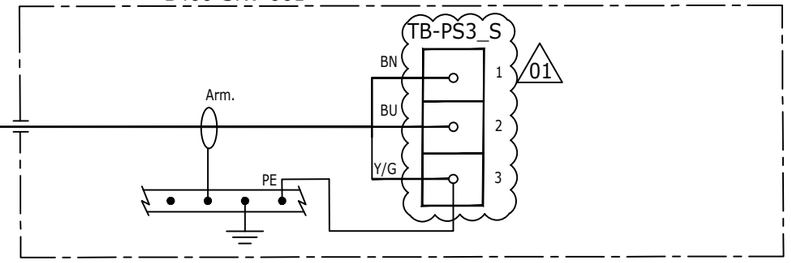


83111-CEL
3G2.5 mm²

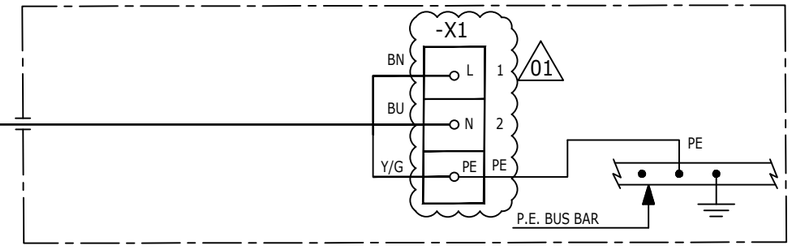
DESCRIPTION: SYSTEM SERVER / NETWORK CABINET - AUXILIARY
TAG NUMBER: B400-NET-001



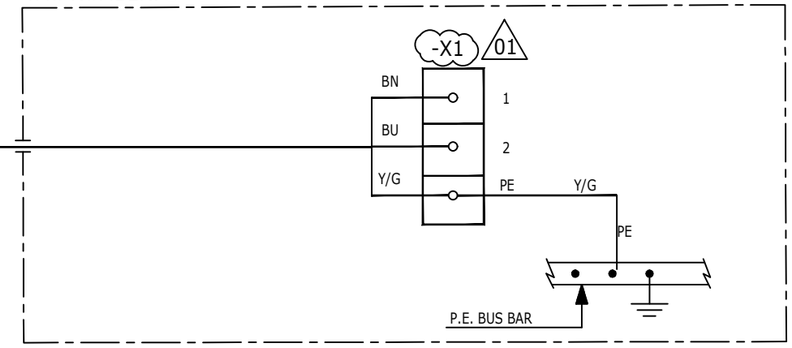
DESCRIPTION: SERVER CABINER ITER - AUXILIARY
TAG NUMBER: B400-SRV-001



DESCRIPTION: UCP - INSTRUMENT AIR PACKAGE -A-63000 - AUXILIARY
TAG NUMBER: CP-630E1



DESCRIPTION: UCP - N2 PACKAGE - AUXILIARY
TAG NUMBER: CP-640F1



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

REV.:	DATE:	SIGNATURE:
1_A	17/10/24	G.Randi

ROSETTI MARINO SpA

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
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
LIGHTING & SMALL POWER DB BOP

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

SCALE : 1:X

A3

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

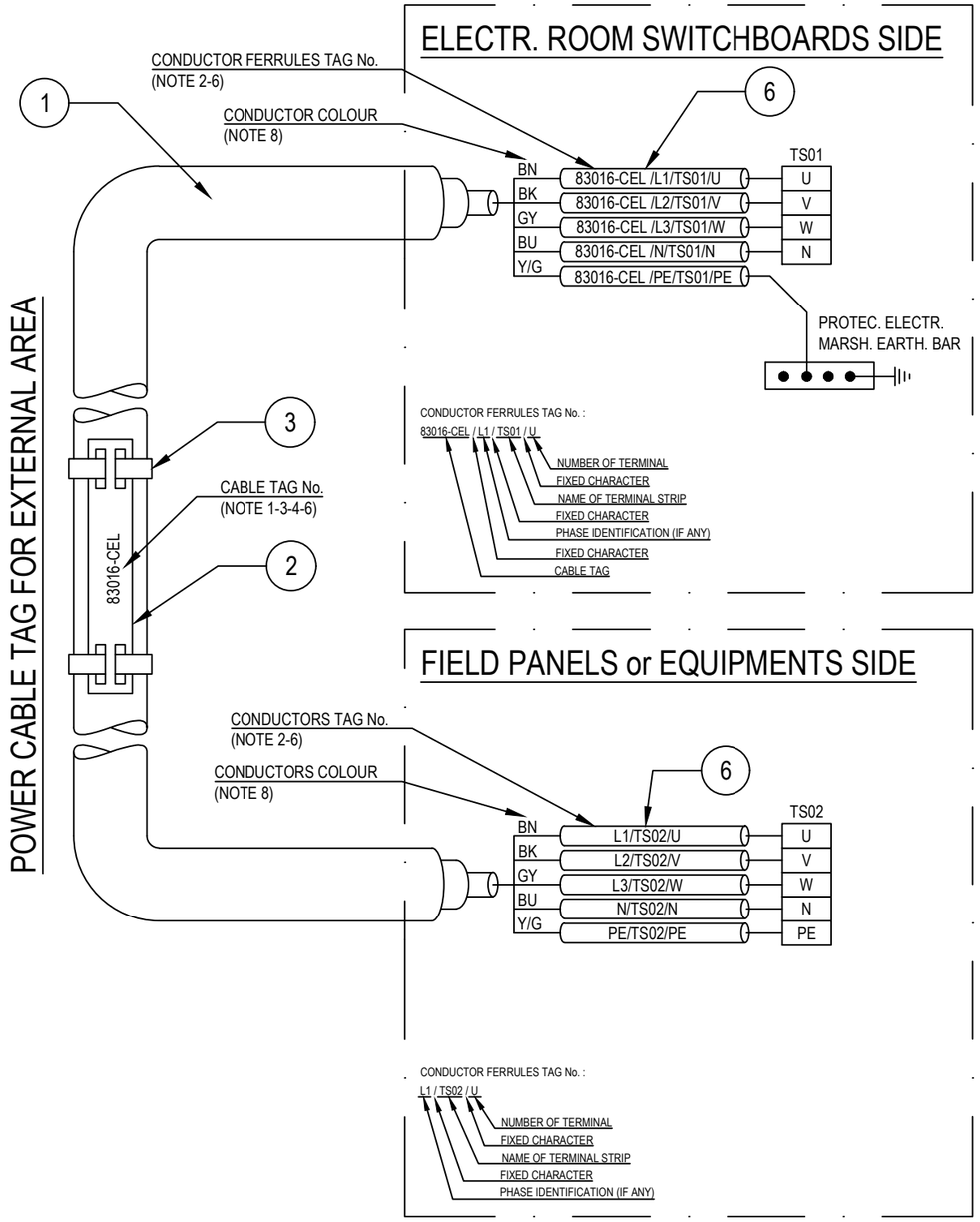
SHEET 053

REV. 01

F.to UNI A3: 420mmx297mm

File Name : 123A90-DDL-EL-DG-20162 Rev. 01

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.

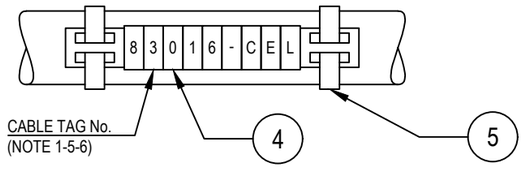
5) THE CABLE TAG FOR INTERNAL AREA SHALL BE DONE BY ENGRAVED PLASTIC SLIP ON CHARACTERS ONTO PLASTIC TIE, BLACK LETTER (H=5mm) ON WHITE.

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.: 2_A | DATE: 28/08/24 | SIGNATURE: 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

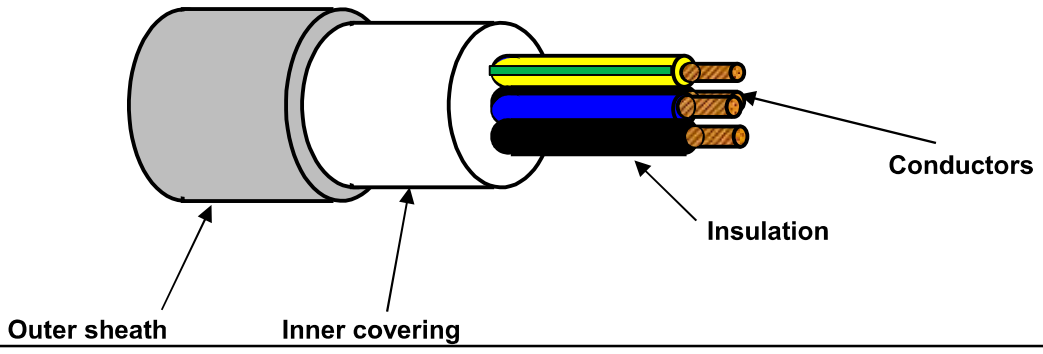
File Name : 123A90-DDL-EL-DD-20092 REV.02.DWG

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
83109-CEL	Cable	EL	VFC	123A90-DDL-EL-LIS-20148						DP-200N1	LV 0,4 / 0,23 kV Distribution Switchgear	Lower Deck (B-200)	B400-SRV-001	Server Cabinet ITER	Lower Deck (B-400)	ELECV06-3G2,5	Cable Cu Cl.2/EPR/LSZH 0,6/1kV 3G2,5mm² - Grey	M20	n.a.			n.a.				L-450-101-LVT-030 / L-600-101-LVT-020 / L-600-101-LVT-018 / L-600-101-LVT-017 / E-MCT-201 / L-750-101-LVT-011 / L-450-101-LVT-008 / L-300-101-LVT-009 / E-MCT-401 / L-300-101-LVT-065 / L-300-101-LVT-066 / L-300-101-LVT-067 / L-150-101-LVT-147

FLEI s.r.l.

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

3G2,5 - L.V. POWER CABLE - Flame Retardant



TECHNICAL FEATURES

Conductors :	**STRANDED** plain/bare annealed copper wires	IEC 60228 Class 2
Insulation :	EPR compound, quality to IEC 60092.360, Nominal Thickness 1,0 mm	
Cores colour code :	**Brown - 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 1,0 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 1,2 mm	
Outer sheath color code:	**Grey**	
Outer printing (INKJET) :	**FLEI - ELECTRIC CABLE - 1000V - 3G2,5 SQMM - EPR/LSZH - 0,6/1 KV - IEC 60332.1.2 - IEC 60332.3.22 -**	
	Year of Manufacture - CE + Meter Marking	
Outer diameter :	(13,0 ± 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 :	≥ 1100 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			
Checked :	29/03/2024	Spaccasassi			
Approved :	29/03/2024	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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Section 6 MECHANICAL COMPLETION STATUS INDEX - INSTRUMENTAL DISCIPLINE

CROSSWIND

ROSETTI MARINO

Project CROSSWIND

STATUS INDEX DETAIL

Filtered on subsystem: 86-00 & process: MC & discipline : I

Instrumental	86-00 Data Networks						
ITEM		TASK					
Code	Description	Location	Code	Form	Progress	Date	Certificate
B400-NET-001	Network Cabinet	ONSHORE	C10000841	CJX48	100	2024-11-20	RFC 1
B400-SRV-001	Server Cabinet ITER	ONSHORE	C10000845	CJX48	100	2024-11-20	RFC 1
GPSANT	Antenna GPS	ONSHORE	C10004720	CJX00	100	2024-11-29	RFC 2

ITEM	Tag	B400-NET-001	: Network Cabinet			Dwg	123A90-DDL-IN-DL-40012
	S/Sys	86-00	: Data Networks			Module	LD_B-400
TASK	code	C10000841		Location	Onshore Activities	User	Rosetti Marino Quality Control
FORM	Process	MC	Activity CCK	Discipline	Instrumental Form CJX48		Indoor Cabinet/Panel

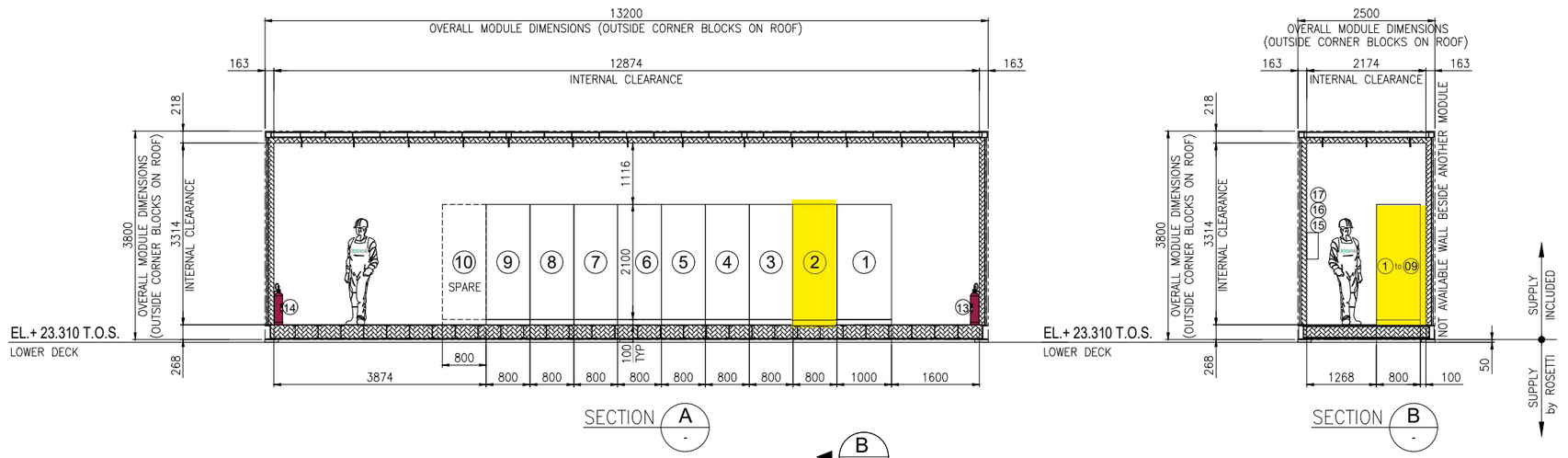
1	Check for mechanical damage (Panel and internal items).	OK
2	Check that the Panel is de-energized and safe.	OK
3	Check identification (tag number, tag plates).	OK
4	Check supporting and protection against vibrations.	OK
5	Check door handles (type, locking, …).	Note
6	Check data sheet and general arrangement are conforms to drawings.	Note
7	Check internal layout conforms to drawings.	Note
8	Check signals segregation conforms to specifications.	OK
9	Check that anti-condensation heaters are ready to be energized.	OK
10	Check earthing connections are properly fixed and tightened.	OK
11	Check incoming cables identification .	Note
12	Check if accessibility and maintenance are possible and safe.	OK
13	If required produce Red Line Mark Up for "AS BUILT"	

Comments: Note :Refer to punch list raised during FAT

Note 5 : C30000394
Note 6 : C30000367
Note 7: C30000360 / C30000362 / C30000367
Note 11: C30000356

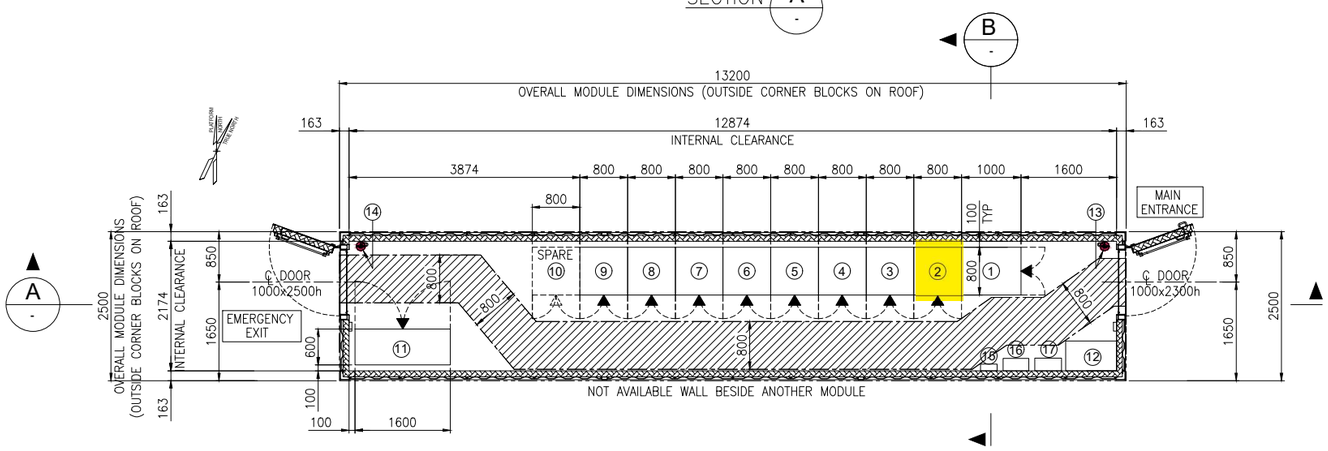
	Performed by	● WITNESS ☐ REVIEW	☐ WITNESS ☐ REVIEW
Company	ICS IMPIANTI	RM (ROSETTI MARINO)	
Name	Carmelo Bongiovanni	Giovanni Tangianu	
Date	2024-11-06	2024-11-20	
Signature	PROVERLIS Digitaly signed by Carmelo Bongiovanni 2024-11-06T17:18:49.460Z	PROVERLIS Digitaly signed by Giovanni Tangianu 2024-11-20T13:43:29.308Z	

DRAWING NO. 123A90-DDL-IN-DL-40012 REV. 03



SECTION A -

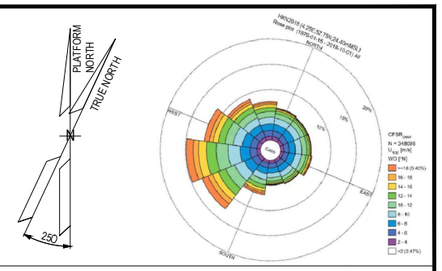
SECTION B -



EQUIPMENT LAYOUT
"B-400" I&T EQUIPMENT ROOM
BOTTOM PLAN

EQUIPMENT LIST

REF.	TAG No.	DESCRIPTION	LENGTH (mm)	WIDTH (mm)	HEIGHT (mm)	NOTE
1	B400-SRV-001	SERVER CABINET	1000	800	2100	
2	B400-NET-001	NETWORK CABINET	800	800	2100	
3	B400-EMCS-001	EMCS SYSTEM CABINET	800	800	2100	
4	B400-PCS-002	PCS MARSHALLING CABINET	800	800	2100	
5	B400-PCS-001	PCS SYSTEM CABINET 03	800	800	2100	
6	B400-FGS-003	FGS MARSHALLING CABINET 2	800	800	2100	
7	B400-FGS-002	FGS MARSHALLING CABINET 1	800	800	2100	
8	B400-FGS-001	FGS SYSTEM CABINET	800	800	2100	
9	B400-SIS-001	SIS SYSTEM/MARSHALLING CABINET	800	800	2100	
10	-	SPARE				
11	B400-HSB-001	DISTRIBUTION & HVAC PANEL - I&T ROOM	1600	600	2300	
12	-	TABLE	850	500	750	
13	-	PORTABLE EXTINGUISHER (CO2) 5 Kg.	150	150	750	
14	-	PORTABLE EXTINGUISHER (CO2) 5 Kg.	150	150	750	
15	-	FIRST AID KIT	280	115	200	
16	-	RESUSCITATION UNIT	430	210	480	
17	-	CABINET INCLUDED N.10 ESCAPE MASK	448	213	422	



NOTES

1. U.N.O. ALL DIMENSIONS ARE IN MILLIMETERS.
2. DOCUMENT VALID ONLY FOR INSTRUMENT COMPONENT, FOR OTHER SCOPE LOCATION AND INFORMATION, PLEASE REFER TO VENDORS AND PROJECT DOCUMENTS.

LEGEND

U.N.O. _____ UNLESS NOTED OTHERWISE
T.O.S. _____ TOP OF STEEL
_____ ESCAPE CORRIDOR – WIDTH 800mm.
_____ EQUIPMENT ROOM ENCLOUSURE
_____ FRONT OF EQUIPMENT

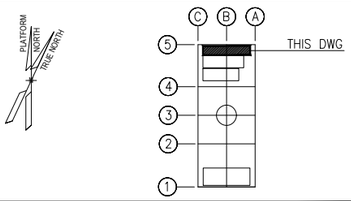
HOLDS

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REFERENCE

DOCUMENT TITLE	DOCUMENT NUMBER
Control System Architecture Detailed Drawings	123A90-DDL-IN-DD-40096
Data Network Architecture Drawings	123A90-DDL-IN-DD-40019
Earthing layouts drawings (CCR, ITER)	123A90-DDL-IN-DL-40013
Instrument and Telecom MCT Layout – Lower Deck	123A90-DDL-IN-DL-40086
"B-400" I&T Equipment Room – Architectural Layout	123A90-DDL-AR-DL-10015
"B-400" ARCHITECTURAL GENERAL LAYOUT PLAN, WIEW, SECTIONS & TYP. DETAILS	123A90-DDL-AR-DL-10015
"B-400" GENERAL ARRANGEMENT DRAWING	1724000049-AR-DA-00017
"B-400" GENERAL ARRANGEMENT DRAWING	1724000049-AR-DD-00021
"B-400" HVAC SYSTEM G.A. and DETAILS	1724000049-HV-DA-00067

KEY PLAN



REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
03	04/10/24	VBA	LCA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
02	27/05/24	MGA	LCA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	22/01/24	VBA	LCA	DLO	ISSUE FOR REVIEW (IFR)
00	07/11/23	VBA	LCA	DLO	ISSUE FOR REVIEW (IFR)

VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-IN-DL-40012**

REV.:	DATE:	SIGNATURE:
3_A	07/10/24	G.Randi

ROSETTI MARINO SpA

CROSSWIND | ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
OFF-SHORE ITER
EQUIPMENT LAYOUT

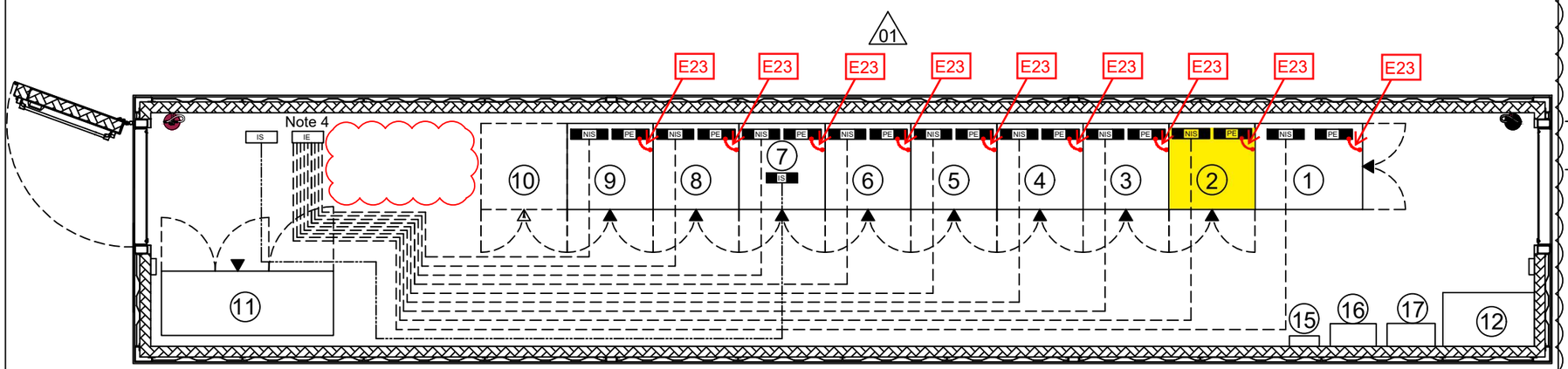
CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK			SCALE 1:33,3
DRAWN MGA	CHECKED LCA	APPROVED DLO	DATE 27/05/24
A1	DRAWING NO. 123A90-DDL-IN-DL-40012	SHEET 001	REV. 03

File Name : 123A90-DDL-IN-DL-40012 Rev.03.dwg

INSTRUMENT EQUIPMENT LIST		
REF.	TAG No.	DESCRIPTION
1	B400-SRV-001	SERVER CABINET
2	B400-NET-001	NETWORK CABINET
3	B400-EMCS-001	EMCS SYSTEM CABINET
4	B400-PCS-001	PCS SYSTEM CABINET
5	B400-PCS-002	PCS MARSHALLING CABINET
6	B400-FGS-001	FGS SYSTEM CABINET
7	B400-FGS-002	FGS MARSHALLING CABINET 1
8	B400-FGS-003	FGS MARSHALLING CABINET 2
9	B400-SIS-001	SIS SYSTEM/MARSHALLING CABINET
10	-	SPARE
11	B400-HSB-001	DISTRIBUTION & HVAC PANEL - I&T ROOM
12	-	TABLE
13	-	PORTABLE EXTINGUISHER (CO2) 5 Kg.
14	-	PORTABLE EXTINGUISHER (CO2) 5 Kg.
15	-	FIRST AID KIT
16	-	RESUSCITATION UNIT
17	-	CABINET INCLUDED N.10 ESCAPE MASK

NOTES

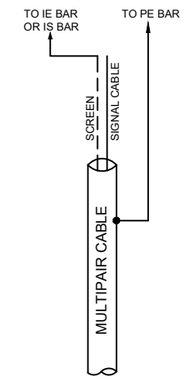
1 - THIS DOCUMENT IS VALID ONLY FOR EARTHING LAYOUT.
2 - THE CABLE SIZE SHALL BE CONFIRMED
3 - THE EXACT POSITION OF EARTHING/MARSHALLING BUS BAR SHALL BE DEFINED IN FIELD.
4 - THE EARTHING BUS BARS INSTALLATION SHALL BE PREFERABLY IN VERTICAL MODE.
5 - FOR EARTHING TYPICAL DETAILS AND Y/G CONDUCTOR CROSS SECTION SEE DOC. 123A90-DDL-EL-DD-20090 "ELECTRICAL TYPICAL INSTALLATION DETAILS - EARTHING SYSTEM".
6 - DUE TO THE TOP CABLE ENTRIES THE EARTHING BUS BAR INSIDE THE CABINETS SHALL BE INSTALLED AT THE TOP OF THE CABINETS THEMSELVES.
7 - IN CASE OF CABLE CONNECTIONS BETWEEN TWO CABINETS, THE CABLE SCREEN SHALL BE CONNECTED TO IE AT MARSHALLING SIDE ONLY.



LEGEND

- PE — EARTHING BUS BAR AISI 316L
- NIS — INSULATED INSTRUMENT EARTH BUS BAR NOT INTRINSIC SAFETY DIM. 450x60x5mm AISI 316L
- IS — INSULATED INSTRUMENT EARTH BUS BAR INTRINSIC SAFETY DIM. 450x60x5mm AISI 316L
- 35sqmm Y/G INSULATED COPPER CONDUCTOR FOR PE (SEE NOTE 2)
- 35sqmm Y/G INSULATED COPPER CONDUCTOR FOR I.S. & NON I.S. (SEE NOTE 2)
- EARTHING BUS BAR 60x5mm AISI 316L (SEE NOTE 3)
- PE — PROTECTIVE EARTH
- IE — INSTRUMENT EARTH
- IS — INTRINSICALLY SAFE EARTH

KEY



VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-IN-DL-40013**

REV.:	DATE:	SIGNATURE:
1_B	11/11/24	G.Randi

ROSETTI MARINO SpA

01

CROSSWIND

ROSETTI MARINO

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	14/05/24	MGA	LCA	DLO	ACCEPTED FOR CONSTRUCTION
00	19/01/24	INVIRAJ	AMBE/LCA	OYFO/MDO	ISSUE FOR REVIEW (IFR)

TITLE : BASE LOAD POWER HUB (BLPH)
EARTHING LAYOUT DRAWINGS(OFFSHORE ITER)
EQUIPMENT LAYOUT

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

SCALE : NTS

A3

DRAWING NO. 123A90-DDL-IN-DL-40013

SHEET 003

REV. 01

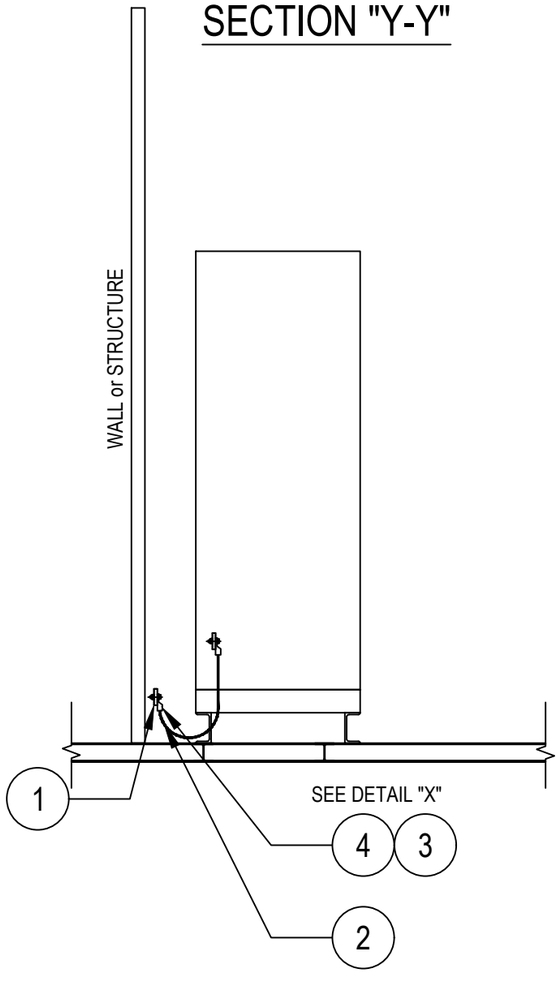
F.to UNI A3: 420mmx297mm

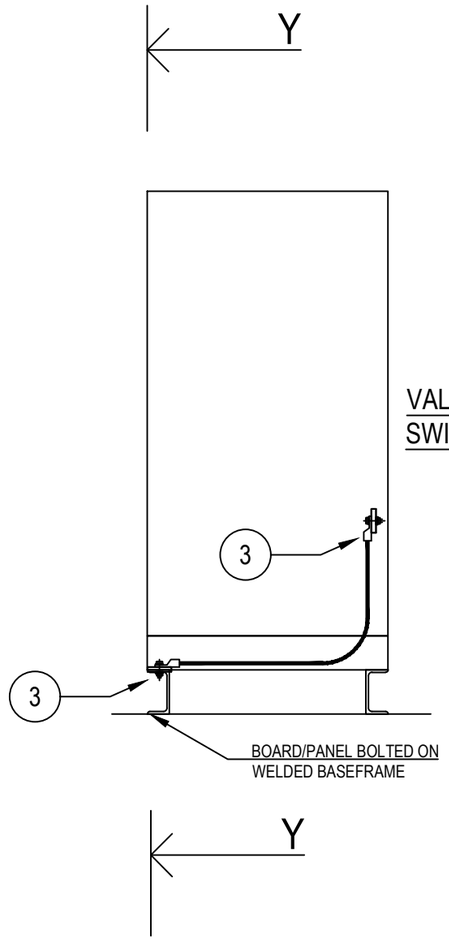
File Name : 123A90-DDL-IN-DL-430013 Rev. 01

E23

POS.	DESCRIPTION	MATERIAL	SIZE	Q.TY	NOTE
1	MARSHALLING EARTHING BAR	TINNED COPPER	50X5		NOTE 1
2	Y/G INSULATING COPPER CONDUCTOR	COPPER	35mm² SEE NOTE 1		NOTE 1
3	COMPRESSION TYPE LUG FOR INSULATION COPPER CONDUCTOR	TINNED COPPER	35mm² SEE NOTE 1	4	NOTE 1
4	BOLT, PLANE WASHER, GROWER SPRING WASHER AND NUT	AISI 316L	M10X30	4	

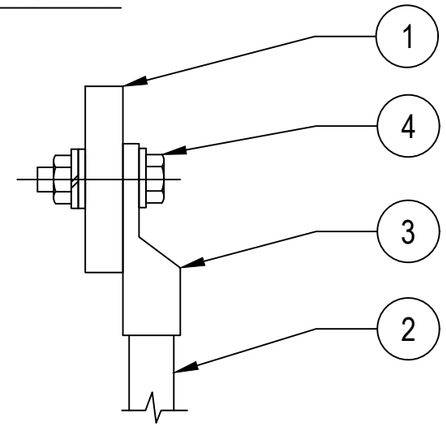
SECTION "Y-Y"





VALID FOR HV/LV SWITCHGEAR

DETAIL "X"



NOTES:

1) FOR SIZE OF THE EARTHING CABLE SEE ALSO EARTHING LAYOUT DRAWINGS OF RESPECTIVE AREAS

VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DD-20090**

REV.:	DATE:	SIGNATURE:
2_I	07/11/24	G.Randi

ROSETTI MARINO SpA

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	26/08/24	GRA	AMA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	10/06/24	SPS	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–EARTHING SYSTEM
EARTHING FOR PANELS/BOARDS IN TECHNICAL ROOM

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

A3	DRAWING NO.	SHEET	REV.
	123A90–DDL–EL–DD–20090	011	02

F.to UNI A3: 420mmx297mm

File Name : 123A90-DDL-EL-DD-20090 REV.02.DWG

BASE LOAD POWER HUB (BLPH)
NET. AND SERV. CABINET IN ITER
GENERAL ARRANGEMENT DRAWINGS AND INTERNAL LAYOUT

2	19.09.2024	A.G.	A.B.	S.C.	ACCEPTED FOR CONSTRUCTION (AFC)
1	10.07.2024	A.G.	A.B.	S.C.	ISSUE FOR REVIEW (IFR)
0	10.07.2024	A.G.	A.B.	S.C.	ISSUE FOR REVIEW (IFR)
REV	DATE	PREPARED	CHECKED	APPROVED	DESCRIPTION

YOKOGAWA◆ PROJECT Nr. E36672C00
DESCRIPTION: E366772C00-ITER_NLO

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)

COVER PAGE

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

SCALE : 1

A3

DRAWING NO. 1724000594-IN-DA-00011

SHEET 001

REV. 02

PAG. NR.	REVISION 0	1	2	3	4	5	6	7	8	TITLE
001	X	X	X							BASE LOAD POWER HUB (BLPH) COVER PAGE
002	X	X	X							BASE LOAD POWER HUB (BLPH) INDEX
003	X	X	X							BASE LOAD POWER HUB (BLPH) DATA SHEET
004	X		X							BASE LOAD POWER HUB (BLPH) INTERNAL WIRING INFORMATION
005		X	X							BASE LOAD POWER HUB (BLPH) TYPICAL WIRE MARKING & EARTH BAR CONNECTION DETAILS
006		X	X							BASE LOAD POWER HUB (BLPH) SERVER & NETWORK - EXTERNAL FRONT VIEW
007		X	X							BASE LOAD POWER HUB (BLPH) SERVER & NETWORK - EXTERNAL REAR VIEW
008		X	X							BASE LOAD POWER HUB (BLPH) SERVER & NETWORK - LEFT SIDE AND RIGHT SIDE VIEW
009		X	X							BASE LOAD POWER HUB (BLPH) SERVER & NETWORK - EXTERNAL & INTERNAL TOP VIEW
010		X	X							BASE LOAD POWER HUB (BLPH) SERVER & NETWORK - LIFTING DETAILS
011	X	X	X							BASE LOAD POWER HUB (BLPH) SERVER - EXTERNAL FRONT VIEW & FRONT DOOR OPENED VIEW
012	X		X							BASE LOAD POWER HUB (BLPH) SERVER - EXTERNAL LEFT SIDE & RIGHT SIDE VIEW
013	X		X							BASE LOAD POWER HUB (BLPH) SERVER - EXTERNAL LEFT SIDE & RIGHT SIDE VIEW WHITOUT PANEL
014	X	X	X							BASE LOAD POWER HUB (BLPH) SERVER - EXTERNAL REAR VIEW
015	X	X	X							BASE LOAD POWER HUB (BLPH) SERVER - BASEPLATE DETAILS
016	X	X	X							BASE LOAD POWER HUB (BLPH) SERVER - EXTERNAL & INTERNAL TOP VIEW
017	X		X							BASE LOAD POWER HUB (BLPH) SERVER - EXTERNAL TOP VIEW DOOR OPEN
018	X	X	X							BASE LOAD POWER HUB (BLPH) SERVER - FRONT SIDE INTERNAL VIEWS
019	X		X							BASE LOAD POWER HUB (BLPH) SERVER - SPARE PAGE
020	X	X	X							BASE LOAD POWER HUB (BLPH) NETWORK - EXTERNAL FRONT VIEW & FRONT DOOR OPENED VIEW

PAG. NR.	REVISION 0	1	2	3	4	5	6	7	8	TITLE
021	X	X	X							BASE LOAD POWER HUB (BLPH) NETWORK - EXTERNAL LEFT SIDE & RIGHT SIDE VIEW
022	X	X	X							BASE LOAD POWER HUB (BLPH) NETWORK - EXTERNAL LEFT SIDE & RIGHT SIDE VIEW WHITOUT PANEL
023	X	X	X							BASE LOAD POWER HUB (BLPH) NETWORK - EXTERNAL REAR VIEW
024	X	X	X							BASE LOAD POWER HUB (BLPH) NETWORK - BASEPLATE DETAILS
025	X	X	X							BASE LOAD POWER HUB (BLPH) NETWORK - EXTERNAL & INTERNAL TOP VIEW
026	X	X	X							BASE LOAD POWER HUB (BLPH) NETWORK - FRONT DOOR CUT-OUT DETAILS
027	X	X	X							BASE LOAD POWER HUB (BLPH) NETWORK - FRONT SIDE INTERNAL VIEWS
028	X		X							BASE LOAD POWER HUB (BLPH) NETWORK - FRONT SIDE INTERNAL VIEWS
029	X		X							BASE LOAD POWER HUB (BLPH) NETWORK - SPARE PAGE
030	X		X							BASE LOAD POWER HUB (BLPH) BH AND MANUFACTURER LABEL DETAILS
031	X		X							BASE LOAD POWER HUB (BLPH) SERVER AND NETWORK SECTION IDENTIFIER NAMEPLATE DETAILS
032	X		X							BASE LOAD POWER HUB (BLPH) SPARE PAGE
033	X		X							BASE LOAD POWER HUB (BLPH) CERTIFICATION LABEL
034	X	X	X							BASE LOAD POWER HUB (BLPH) SERVER MAIN COMPONENT LIST
035	X		X							BASE LOAD POWER HUB (BLPH) SERVER MAIN COMPONENT LIST
036	X	X	X							BASE LOAD POWER HUB (BLPH) NETWORK MAIN COMPONENT LIST
037	X		X							BASE LOAD POWER HUB (BLPH) NETWORK MAIN COMPONENT LIST
038	X		X							BASE LOAD POWER HUB (BLPH) NETWORK MAIN COMPONENT LIST

PAG. NR.	REVISION 0	1	2	3	4	5	6	7	8	TITLE

REV	DATE	PREPARED	CHECKED	APPROVED	DESCRIPTION
2	19.09.2024	A.G.	A.B.	S.C.	ACCEPTED FOR CONSTRUCTION (AFC)
1	10.07.2024	A.G.	A.B.	S.C.	ISSUE FOR REVIEW (IFR)
0	10.07.2024	A.G.	A.B.	S.C.	ISSUE FOR REVIEW (IFR)

YOKOGAWA◆ PROJECT Nr. E36672C00
DESCRIPTION: E366772C00-ITER_NLO

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH) & WIRING DIAGRAM INDEX

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

SCALE : 1

A3

DRAWING NO. 1724000594-IN-DA-00011

SHEET 002

REV. 02

A - GENERAL DATA

A1	TYPE	☐ MANUFACTURER STANDARD	■ AUGER	
A2	REFERENCE CODE	■ IEC	☐ IEC NORTH AMERICA SUITABLE (THIRD PARTY CERTIFIED)	
A3	CONTRACTUAL LANGUAGE	■ ENGLISH	☐	
A4	INSTALLATION	SAFE AREA, AIR CONDITIONING CONTROL ROOM/CAB HEAVY INDUSTRY ENVIRONMENT		
A5	OPERATING TEMPERATURE	+5°C TO +45 °C		
A6	OPERATING HUMIDITY	10 TO 93 % RH NOT CONDENSING		
A7	MARSHALLING TERMINAL STRIP	■ WITH	☐ WITHOUT	
A8	TERMINAL STRIP <1>	■ MIRROR OF JUNCTION BOX	☐ NOT MIRROR OF JUNCTION BOX	
A9	SPARE TERMINALS	☐ NO	■ YES, NOT WIRED	☐ YES, JUMPERED TO I.E. OR I.S. BAR
A10	CABLES & CABLE TRAYS	☐ PVC	■ HALOGEN FREE AND LOW SMOKE <1>	
A11	INTRINSICALLY SAFE BARRIERS/ISOLATORS	■ NO	☐ YES	
A12	SURGE ARRESTORS	■ NO	☐ YES, ONLY FOR POWER SUPPLY LINE IN	
A13	POLLUTION DEGREE	■ 2 AS PER IEC60664-1		
A14	STORAGE TEMPERATURE	-20°C TO 50°C UP TO 80% HUMIDITY		
A15	MATERIAL	■ CARBON STEEL	☐ STAINLESS STEEL AISI 304	☐ STAINLESS STEEL AISI 316

B - MECHANICAL DATA

B1	OVERALL DIMENSION	800 mm x 1000mm x 2100mm (L x D x H) 800 mm x 800 mm x 2100 mm (L x D x H) (NOTE B1)		
B2	PROTECTION DEGREE	■ IP 43	☐ IP 55	
B3	STEEL THICKNESS	■ STRUCTURE: 1.5 mm	■ DOORS: 2 mm	
B4	CABLE ENTRY	■ TOP	☐ BOTTOM	
B5	CABLE ENTRY FIXING	☐ REMOVABLE PLATES	☐ CLAMPS	■ MCTs <1> (NOTE B2)
B6	ACCESSIBILITY	■ FRONT ONLY	☐ FRONT / REAR	
B7	LIFTING SYSTEM	■ EYE BOLTS	☐ LIFTING BAR "L" TYPE	
B8	BASE PLINTH	■ SEPARATE PIECES		
B9	DOOR LOCKS	■ KEY LOCKED WITH UNIQUE KEY PER UCP		
B10	APPROXIMATIVE WEIGHT	400 Kg for each panel		

NOTE B1 :ALLOWED TOLERANCE FOR PANEL HEIGHT/DEPTH: +/-5mm;
ALLOWED TOLERANCE FOR PANEL STRUCTURES AND SUPPORTS: +/-2mm;
ALLOWED TOLERANCE FOR TOTAL PANEL LENGTH : +/-2% OF TOTAL PANEL LENGTH;
(IN ANY CASE, MAXIMUM LENGTH TOLERANCE ALLOWED FOR PANEL WITH 2 OR MORE COLUMNS IS +/-50mm)

<1> NOTE B2 :MCTs ON TOP OF THE PANEL
REMOVABLE BOTTOM PLATE, FOR PANEL FIXING ON CUSTOMER COUNTER FRAME, SHALL BE PROVIDED

C - PAINTING

C1	REFERENCE SPECIFICATIONS		■ AUGER STANDARD	☐ JOB SPECIFIC	☐ MFR STANDARD
C2	EXTERIOR	TYPE	☐ SMOOTH	■ PEEL TYPE	
		COLOUR	■ RAL 7035	☐ RAL 7032	☐ RAL 7030
C3	BASE PLINTH		■ AS EXTERIOR		
C4	INTERIOR		■ GALVANISED (ALUZINC)		
C5	INTERNAL MOUNTING PLATES		■ GALVANISED (ALUZINC)		

D - ELECTRICAL DATA

.	SUPPLY LINE	UPS LINE 1	UPS LINE 2	NON-UPS LINE 3
D1	SUPPLY VOLTAGE	230Vac	230Vac	230Vac
D2	FREQUENCY	50Hz	50Hz	50Hz
D3	LOAD	T.B.D.	T.B.D.	T.B.D.
D4	INTERNAL LIGHTING WITH DOOR LIMIT SWITCH OPERATION	■ LED (230Vac - 50Hz) <1>		
D5	ANTI CONDENSING HEATER WITH TEMPERATURE THERMOSTAT	■ YES		
D6	VENTILATION FAN WITH FLOW SWITCH AND TEMPERATURE THERMOSTAT	■ YES		
D7	SERVICE SOCKET	■ YES		

E - NAMEPLATES

.	.	EXTERNAL PANEL	INTERNAL PANEL
E1	MATERIAL	■ TRAFFOLYTE	■ TAPE
E2	BACKGROUND COLOUR	■ WHITE	■ WHITE
E3	TEXT COLOUR	■ BLACK	■ BLACK
E4	FIXING	■ WITH SCREWS	■ SELF-ADHESIVE
E5	WARNING LABELS	■ SELF-ADHESIVE	■ SELF-ADHESIVE
E6	LANGUAGE	■ ENGLISH	■ ENGLISH

REV	DATE	PREPARED	CHECKED	APPROVED	DESCRIPTION
2	19.09.2024	A.G.	A.B.	S.C.	ACCEPTED FOR CONSTRUCTION (AFC)
1	10.07.2024	A.G.	A.B.	S.C.	ISSUE FOR REVIEW (IFR)
0	10.07.2024	A.G.	A.B.	S.C.	ISSUE FOR REVIEW (IFR)

YOKOGAWA◆ PROJECT Nr. E36672C00
DESCRIPTION: E366772C00-ITER_NLO

CROSSWIND ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH) & WIRING DIAGRAM DATA SHEET

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

SCALE : 1

A3

DRAWING NO. 1724000594-IN-DA-00011

SHEET 003

REV. 02

A - PANEL CONTROL CABLES

CABLE FUNCTION	CONDUCTOR SIZE	CONDUCTOR COLORS	OUTER SHEATH COLOR NON Intrinsically Safe Circuit	OUTER SHEATH COLOR Intrinsically Safe Circuit
BIPOLAR ANALOG SIGNALS (NOTE A1)	(2x0.5) + Shield	BLACK (BK) - WHITE (WH)	GREY (GR)	BLUE (BL)
TRIPOLAR ANALOG SIGNALS (NOTE A1)	(3x0.5) + Shield	BLACK (BK) - WHITE (WH) RED (RD)	GREY (GR)	BLUE (BL)

NOTE A1 :FOR THE ABOVE MENTIONED ANALOG SIGNALS, PAIRS OR TRIADS SHIELDED SPIRAL CABLES SHALL BE USED,
WITH THE EXCEPTION OF THOSE "SINK" INPUTS OR OUTPUTS OF THE CONTROLLER WHERE AN EXTERNAL FEED IS NEEDED.
ONLY FOR THIS SPECIFIC CASE, SINGLE WIRE CABLE SHALL BE USED.

C-GROUNDING CONNECTIONS

EARTH TYPE	CONDUCTOR SIZE Cable size shall not exceed max allowable section as per device's manufacturer recommendation	WIRE COLOR	ID RING COLOR
P.E. (PROTECTIVE EARTH)	(1x2.5) - (1x6) - (1x16) - (1x25)	YELLOW/GREEN (YG)	-
I.E. (INSTRUMENT EARTH)	(1x2.5) - (1x6) - (1x16) - (1x25)	GREEN (GN)	-
I.S.E. (INTRINSICALLY SAFE EARTH)	(1x2.5) - (1x6) - (1x16) - (1x25)	WHITE (WH)	-

B -PANEL SINGLE-CORE CABLES

SINGLE-CORE CABLE FUNCTION	CONDUCTOR SIZE Cable size shall not exceed max allowable section as per device's manufacturer recommendation	WIRE COLOR NON Intrinsically Safe Circuit	WIRE COLOR Intrinsically Safe Circuit
AC LINE	(1x2.5) - (1x4) - (1x6)	BROWN (BR)	N/A
AC NEUTRAL	(1x2.5) - (1x4) - (1x6)	LIGHT BLUE (LB)	N/A
DC 24Vdc (POSITIVE)	(1x2.5) - (1x4) - (1x6)	RED (RD)	N/A
DC 24Vdc (NEGATIVE)	(1x2.5) - (1x4) - (1x6)	BLUE (BU)	N/A
DIGITAL SIGNALS (POSITIVE)	(1x0.5)	BLACK (BK)	N/A
DIGITAL SIGNALS (NEGATIVE)	(1x0.5)	WHITE (WH)	N/A
ANALOG SIGNALS (2 WIRE POSITIVE)	(1x0.5)	BLACK (BK)	N/A
ANALOG SIGNALS (2 WIRE NEGATIVE)	(1x0.5)	WHITE (WH)	N/A
ANALOG SIGNALS (3 WIRE POSITIVE)	(1x0.5)	BLACK (BK)	N/A
ANALOG SIGNALS (3 WIRE NEGATIVE)	(1x0.5)	RED (RD)	N/A
ANALOG SIGNALS (3 WIRE SIGNAL)	(1x0.5)	WHITE (WH)	N/A

GENERAL NOTE :MINIMUM SECTION 1.5 mm² FOR CPU PANEL INTERNAL LAMPS, LIMIT SWITCHES, FANS, THERMOSTATS, ISOLATORS POWER SUPPLY

REV	DATE	PREPARED	CHECKED	APPROVED	DESCRIPTION
2	19.09.2024	A.G.	A.B.	S.C.	ACCEPTED FOR CONSTRUCTION (AFC)
1	10.07.2024	A.G.	A.B.	S.C.	ISSUE FOR REVIEW (IFR)
0	10.07.2024	A.G.	A.B.	S.C.	ISSUE FOR REVIEW (IFR)

YOKOGAWA◆ PROJECT Nr. E36672C00
DESCRIPTION: E366772C00-ITER_NLO

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
& WIRING DIAGRAM
INTERNAL WIRING INFORMATION

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

SCALE : 1

A3

DRAWING NO. 1724000594-IN-DA-00011

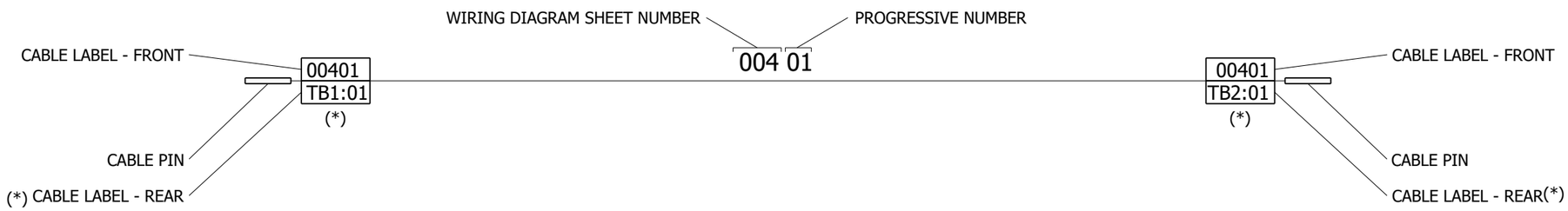
SHEET 004

REV. 02

COLOR ACRONYMS LIST :

RD - RED
BK - BLACK
BL - BLUE
LB - LIGHT BLUE
GR - GREY
GN - GREEN
YE - YELLOW
Y/G - YELLOW/GREEN
BR - BROWN
WH - WHITE

TYPICAL WIRE MARKING



EARTH CONNECTION RESUME TABLE:

		CABINET
	P.E. EARTH	○○○○○○○○○○○○○○○
<1>	I.E. EARTH	○○○○○○○○○○○○○○○
	I.S.E. EARTH	○○○○○○○○○○○○○○○

EARTH ACRONYMS LEGEND :

P.E. (GND) - PROTECTION EARTH (GROUND, FRAME CHASSIS)
I.E. (F.E.) - INSTRUMENT EARTH (NOISELESS), FUNCTIONAL EARTH
I.S. (I.S.E.)- INTRINSICALLY SAFE EARTH

REV	DATE	PREPARED	CHECKED	APPROVED	DESCRIPTION
2	19.09.2024	A.G.	A.B.	S.C.	ACCEPTED FOR CONSTRUCTION (AFC)
1	10.07.2024	A.G.	A.B.	S.C.	ISSUE FOR REVIEW (IFR)
0	10.07.2024	A.G.	A.B.	S.C.	ISSUE FOR REVIEW (IFR)

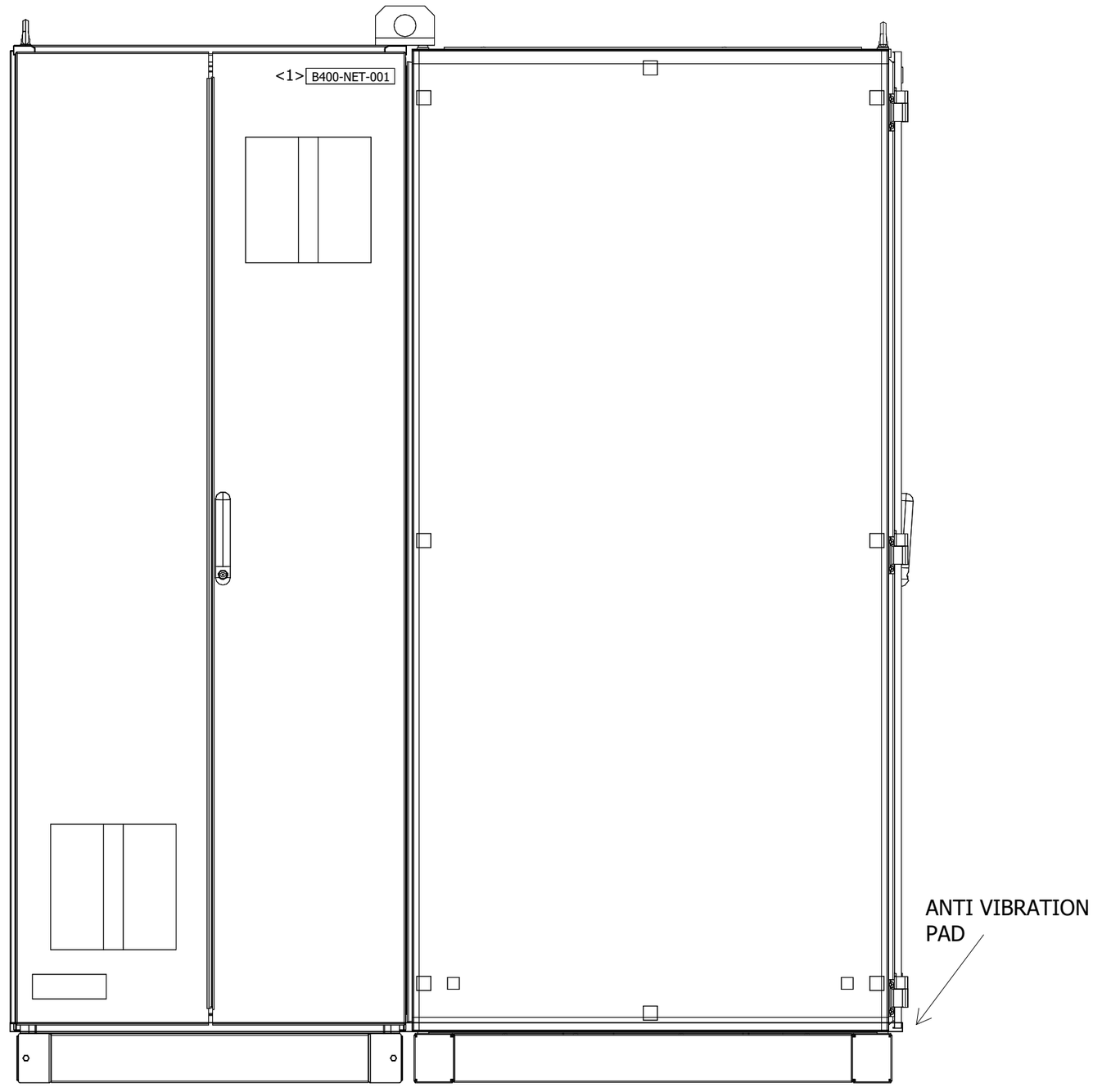
YOKOGAWA◆ PROJECT Nr. E36672C00
DESCRIPTION: E366772C00-ITER_NLO
CROSSWIND
ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
& WIRING DIAGRAM
TYPICAL WIRE MARKING & EARTH BAR CONNECTION DETAILS

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

A3
DRAWING NO. 1724000594-IN-DA-00011
SHEET 005
REV. 02

SERVER & NETWORK - EXTERNAL FRONT VIEW



DRAWING SCALE 1:10

REV	DATE	PREPARED	CHECKED	APPROVED	DESCRIPTION
2	19.09.2024	A.G.	A.B.	S.C.	ACCEPTED FOR CONSTRUCTION (AFC)
1	10.07.2024	A.G.	A.B.	S.C.	ISSUE FOR REVIEW (IFR)
0	10.07.2024	A.G.	A.B.	S.C.	ISSUE FOR REVIEW (IFR)

YOKOGAWA◆ PROJECT Nr. E36672C00
DESCRIPTION: E366772C00-ITER_NLO

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
& WIRING DIAGRAM
SERVER & NETWORK - EXTERNAL FRONT VIEW

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

SCALE : 1

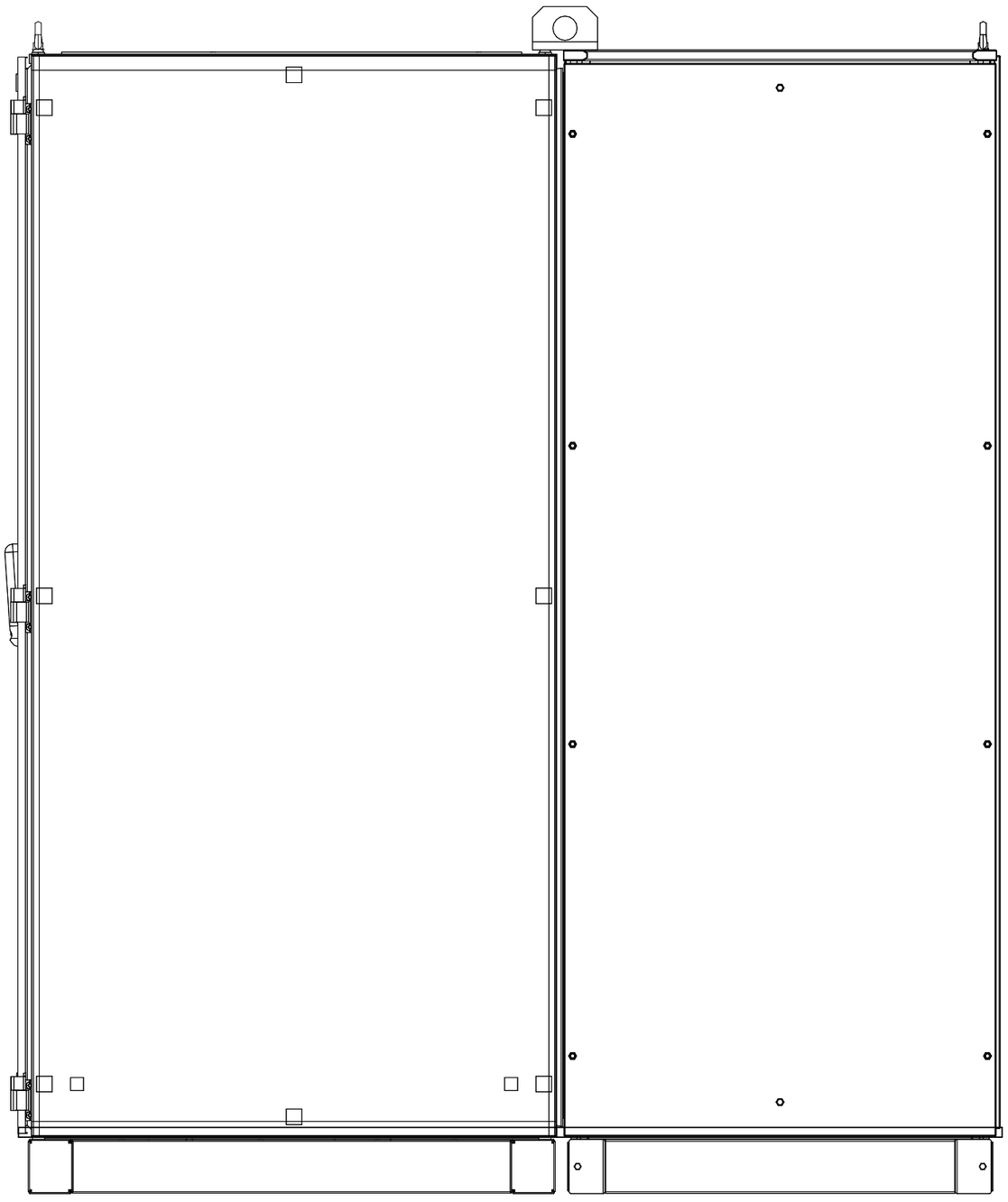
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DRAWING NO. 1724000594-IN-DA-00011

SHEET 006

REV. 02

SERVER & NETWORK - EXTERNAL REAR VIEW



DRAWING SCALE 1:10

REV	DATE	PREPARED	CHECKED	APPROVED	DESCRIPTION
2	19.09.2024	A.G.	A.B.	S.C.	ACCEPTED FOR CONSTRUCTION (AFC)
1	10.07.2024	A.G.	A.B.	S.C.	ISSUE FOR REVIEW (IFR)
0	10.07.2024	A.G.	A.B.	S.C.	ISSUE FOR REVIEW (IFR)

YOKOGAWA◆ PROJECT Nr. E36672C00
DESCRIPTION: E366772C00-ITER_NLO

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
& WIRING DIAGRAM
SERVER & NETWORK - EXTERNAL REAR VIEW

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

SCALE : 1

A3

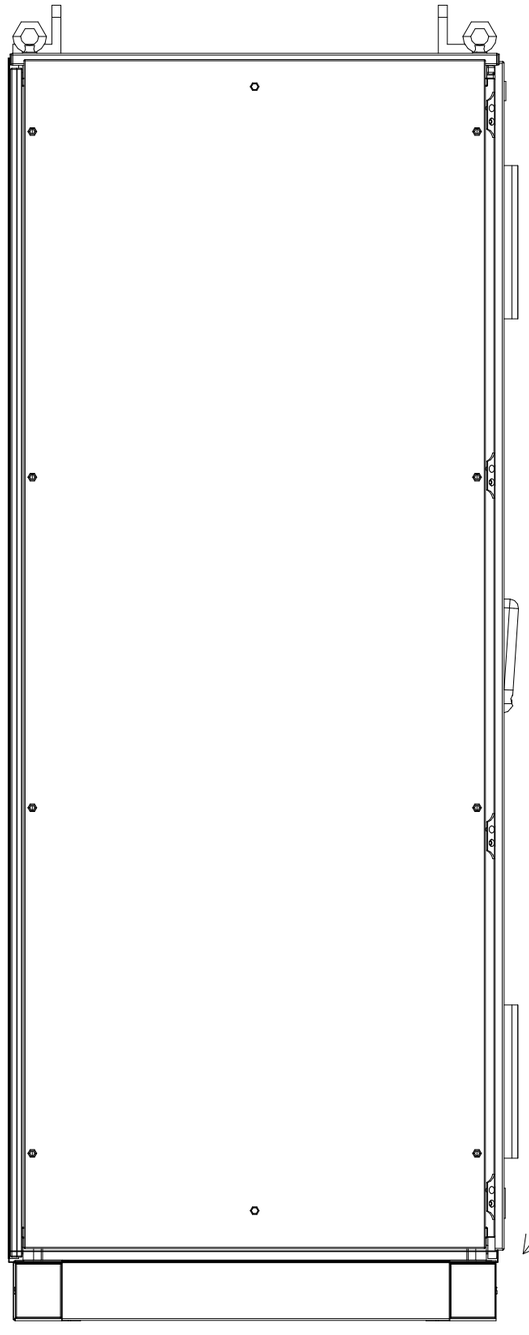
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SHEET 007

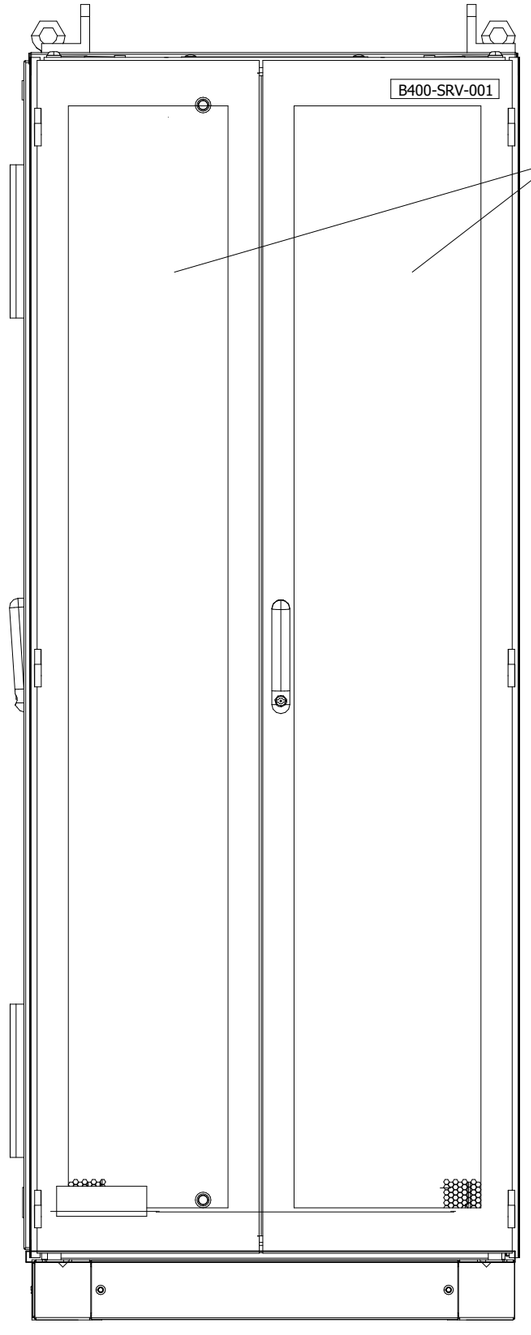
REV. 02

SERVER & NETWORK - LEFT SIDE AND RIGHT SIDE VIEW

LEFT SIDE



RIGHT SIDE



DRAWING SCALE 1:10

REV	DATE	PREPARED	CHECKED	APPROVED	DESCRIPTION
2	19.09.2024	A.G.	A.B.	S.C.	ACCEPTED FOR CONSTRUCTION (AFC)
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YOKOGAWA◆ PROJECT Nr. E36672C00
DESCRIPTION: E366772C00-ITER_NLO

CROSSWIND ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
& WIRING DIAGRAM
SERVER & NETWORK - LEFT SIDE AND RIGHT SIDE VIEW

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

SCALE : 1

A3

DRAWING NO. 1724000594-IN-DA-00011

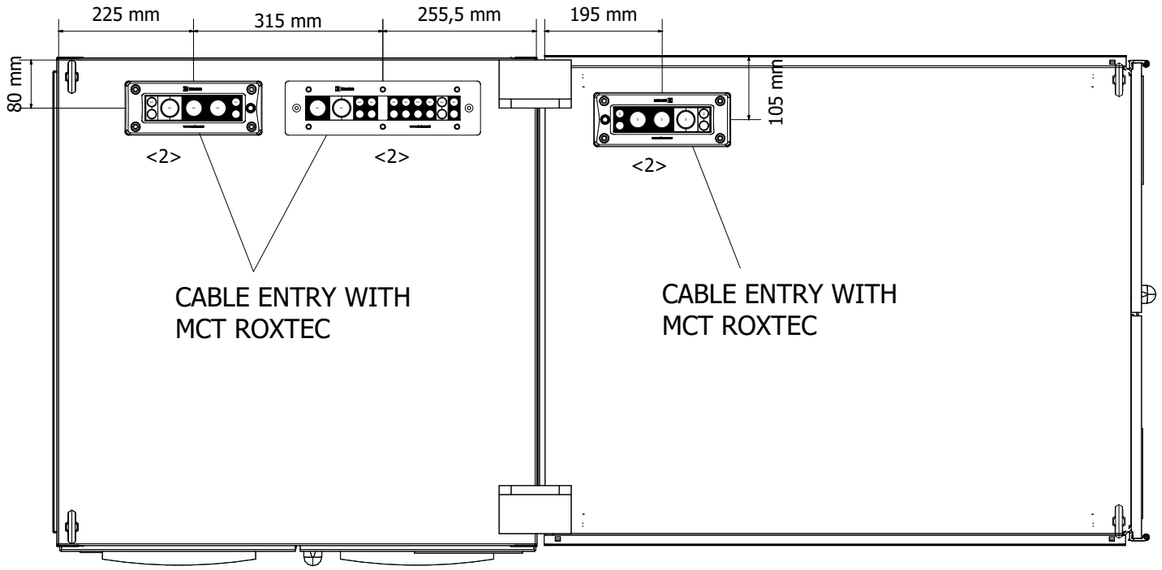
SHEET 008

REV. 02

SERVER & NETWORK - EXTERNAL & INTERNAL TOP VIEW

EXTERNAL TOP VIEW

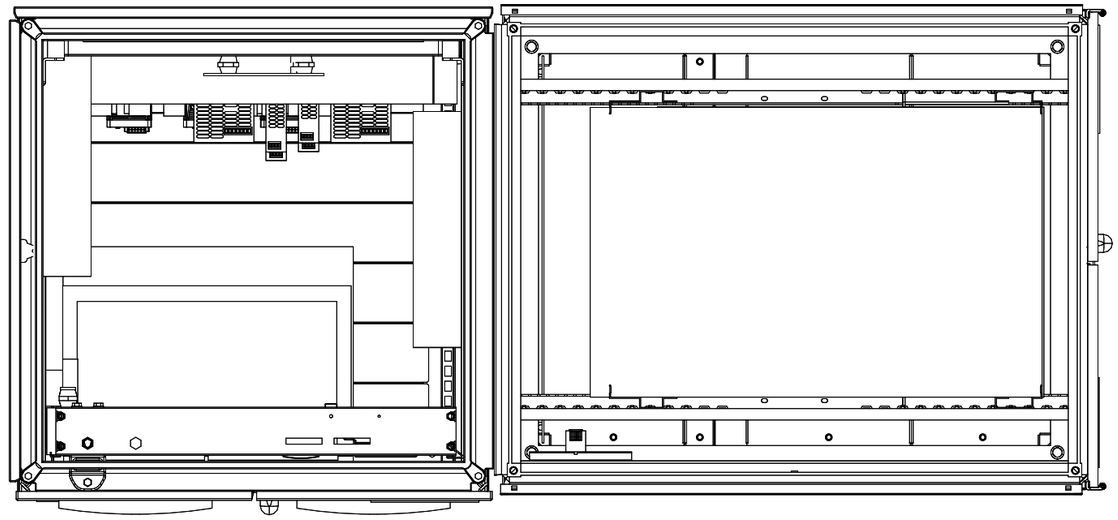
REAR



FRONT

INTERNAL TOP VIEW

REAR



FRONT

DRAWING SCALE 1:10

REV	DATE	PREPARED	CHECKED	APPROVED	DESCRIPTION
2	19.09.2024	A.G.	A.B.	S.C.	ACCEPTED FOR CONSTRUCTION (AFC)
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0	10.07.2024	A.G.	A.B.	S.C.	ISSUE FOR REVIEW (IFR)

YOKOGAWA◆ PROJECT Nr. E36672C00
DESCRIPTION: E366772C00-ITER_NLO

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
& WIRING DIAGRAM
SERVER & NETWORK - EXTERNAL & INTERNAL TOP VIEW

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

SCALE : 1

A3

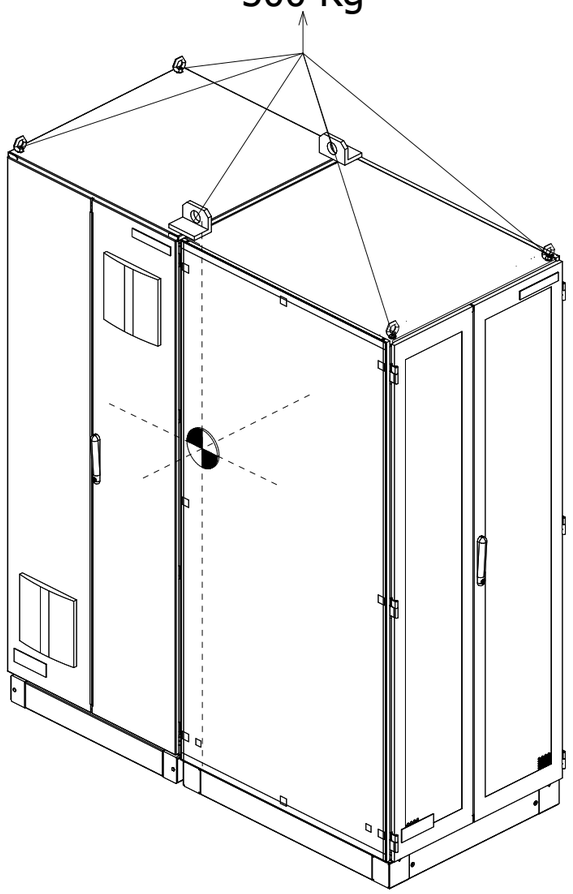
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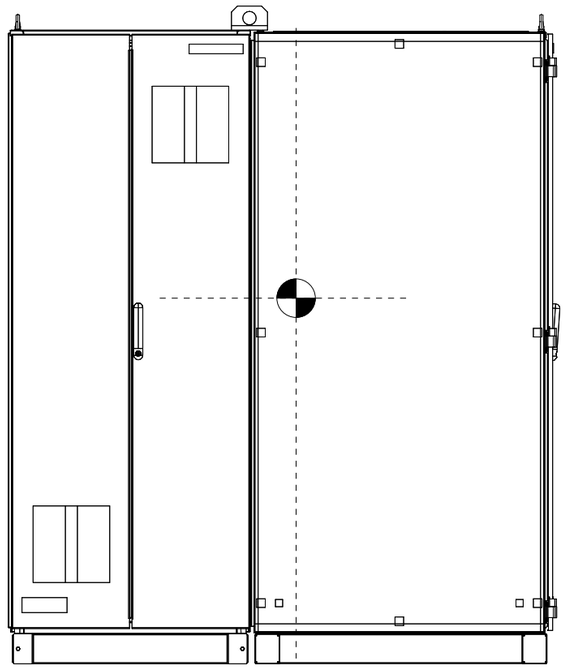
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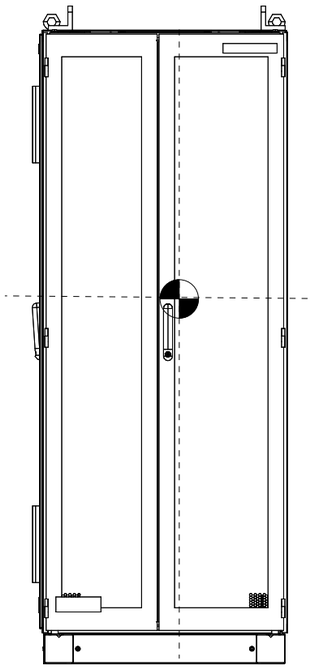
REV. 02

SERVER PANEL - LIFTING DETAILS

500 Kg







= CENTER OF GRAVITY

DRAWING SCALE 1:20
ALL QUOTES SHOWN ARE APPROXIMATE VALUE

REV	DATE	PREPARED	CHECKED	APPROVED	DESCRIPTION
2	19.09.2024	A.G.	A.B.	S.C.	ACCEPTED FOR CONSTRUCTION (AFC)
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YOKOGAWA◆ PROJECT Nr. E36672C00
DESCRIPTION: E366772C00-ITER_NLO

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
& WIRING DIAGRAM
SERVER & NETWORK - LIFTING DETAILS

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

SCALE : 1

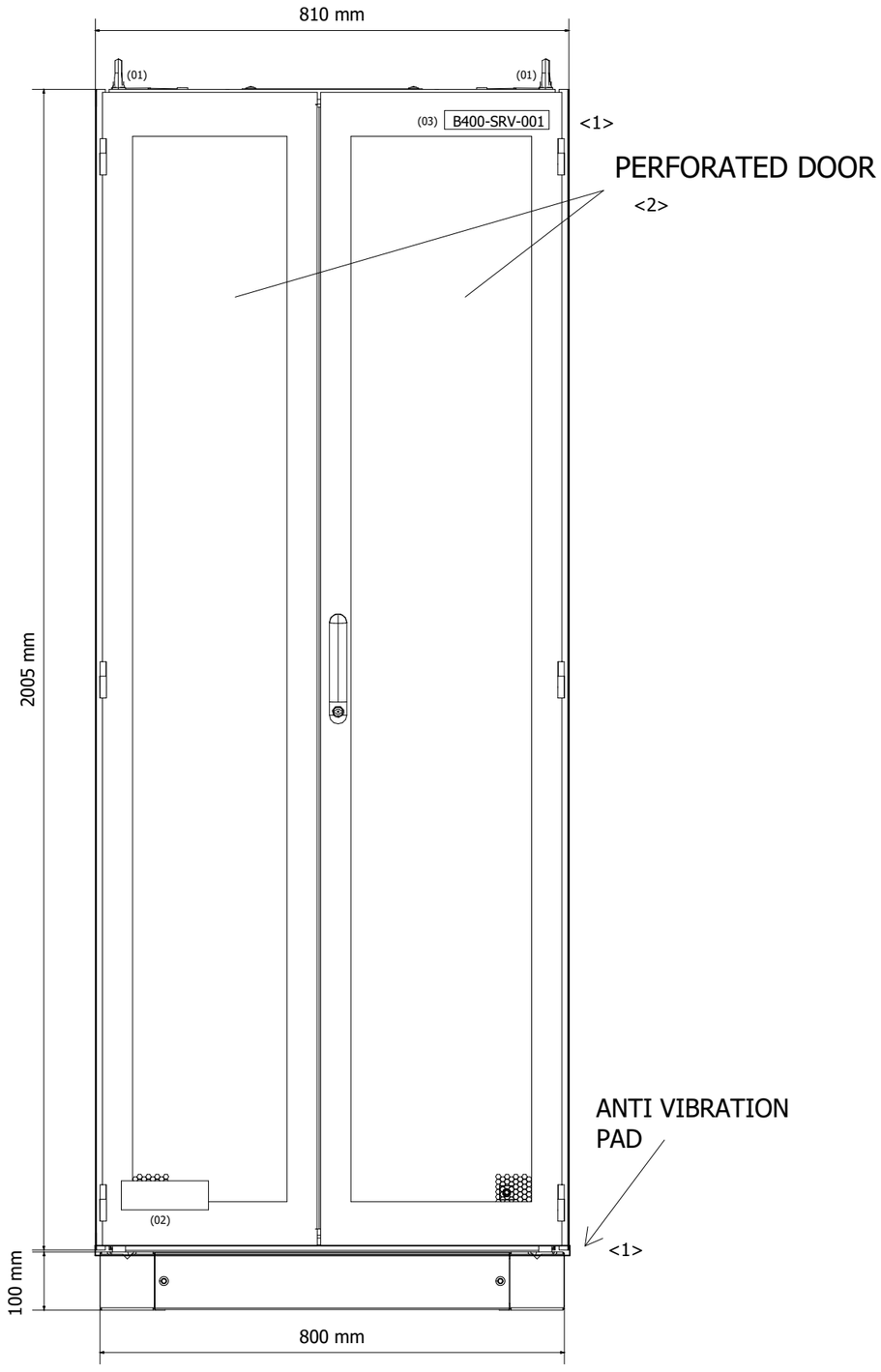
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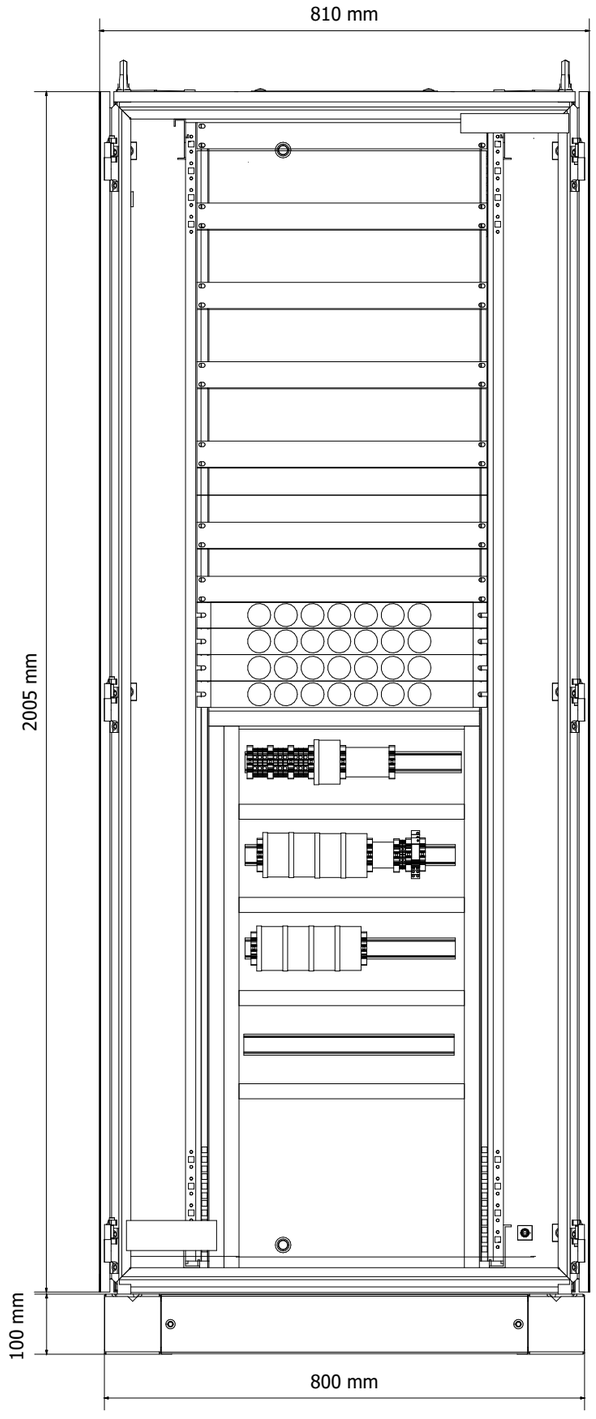
DRAWING NO. 1724000594-IN-DA-00011

SHEET 010

REV. 02

SERVER PANEL - EXTERNAL FRONT VIEW & FRONT DOOR OPENED VIEW





DRAWING SCALE 1:10

REV	DATE	PREPARED	CHECKED	APPROVED	DESCRIPTION
2	19.09.2024	A.G.	A.B.	S.C.	ACCEPTED FOR CONSTRUCTION (AFC)
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0	10.07.2024	A.G.	A.B.	S.C.	ISSUE FOR REVIEW (IFR)

YOKOGAWA◆ PROJECT Nr. E36672C00
DESCRIPTION: E366772C00-ITER_NLO

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
& WIRING DIAGRAM
SERVER - EXTERNAL FRONT VIEW & FRONT DOOR OPENED VIEW

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

SCALE : 1

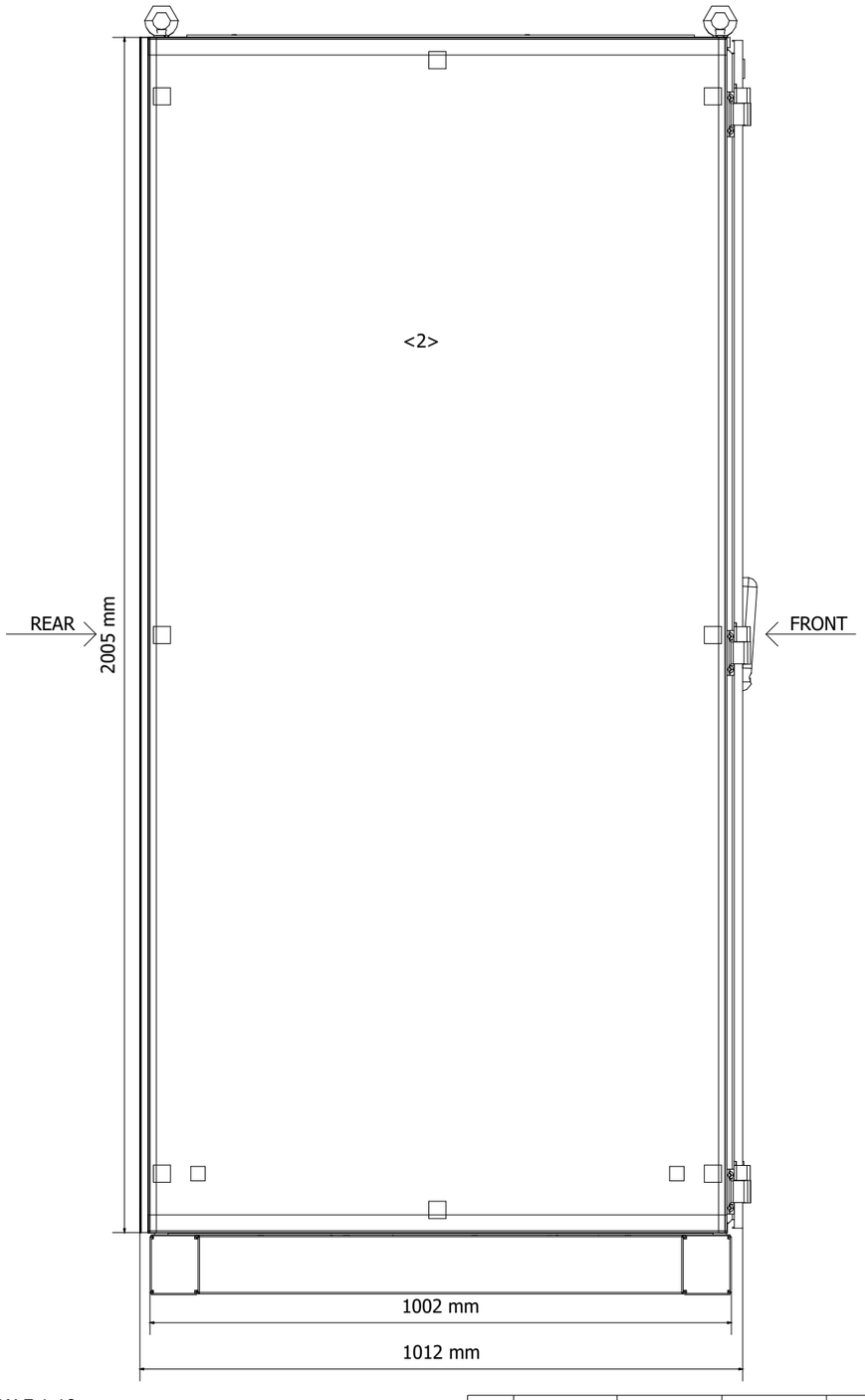
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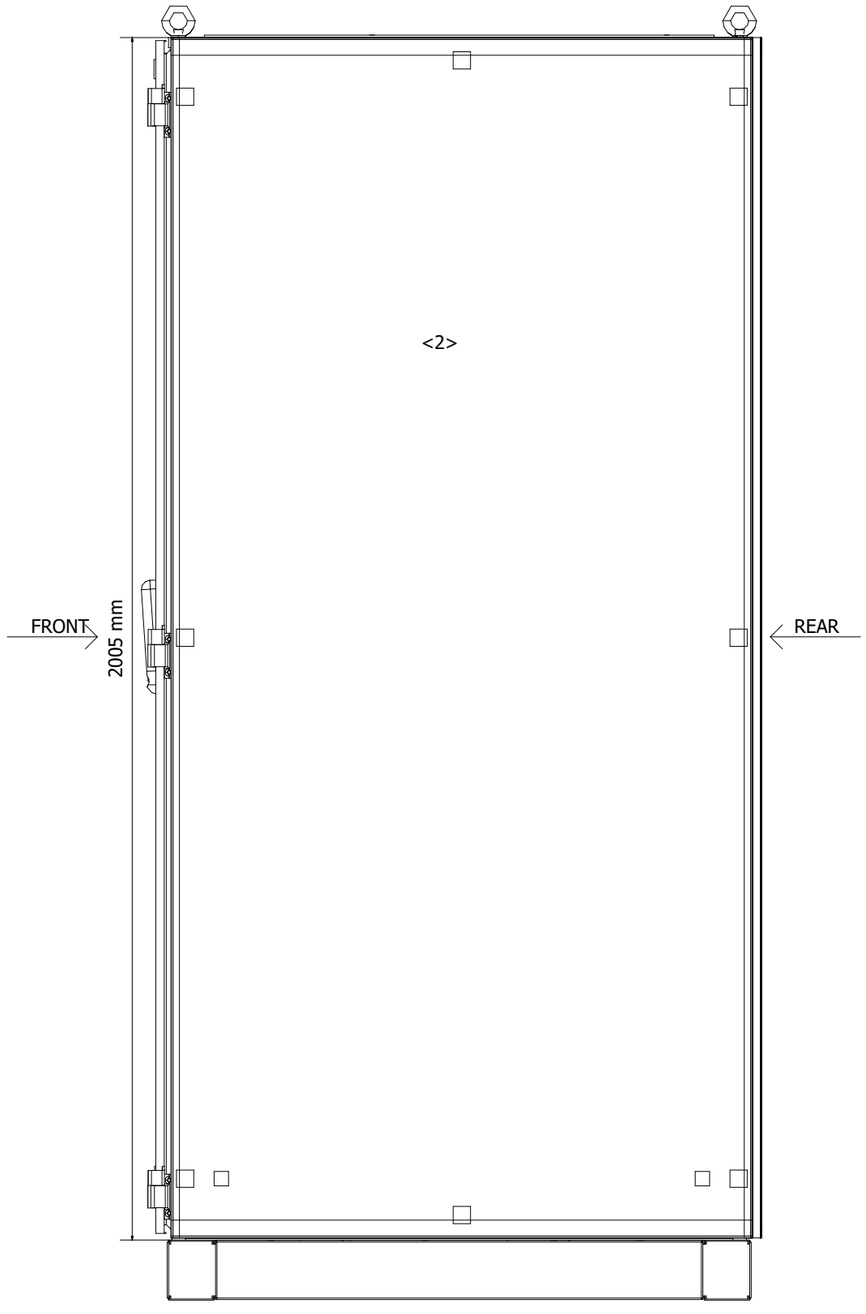
DRAWING NO. 1724000594-IN-DA-00011

SHEET 011

REV. 02

SERVER PANEL - EXTERNAL LEFT SIDE & RIGHT SIDE VIEW





DRAWING SCALE 1:10

REV	DATE	PREPARED	CHECKED	APPROVED	DESCRIPTION
2	19.09.2024	A.G.	A.B.	S.C.	ACCEPTED FOR CONSTRUCTION (AFC)
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0	10.07.2024	A.G.	A.B.	S.C.	ISSUE FOR REVIEW (IFR)

YOKOGAWA◆ PROJECT Nr. E36672C00
DESCRIPTION: E366772C00-ITER_NLO

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
& WIRING DIAGRAM
SERVER - EXTERNAL LEFT SIDE & RIGHT SIDE VIEW

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

SCALE : 1

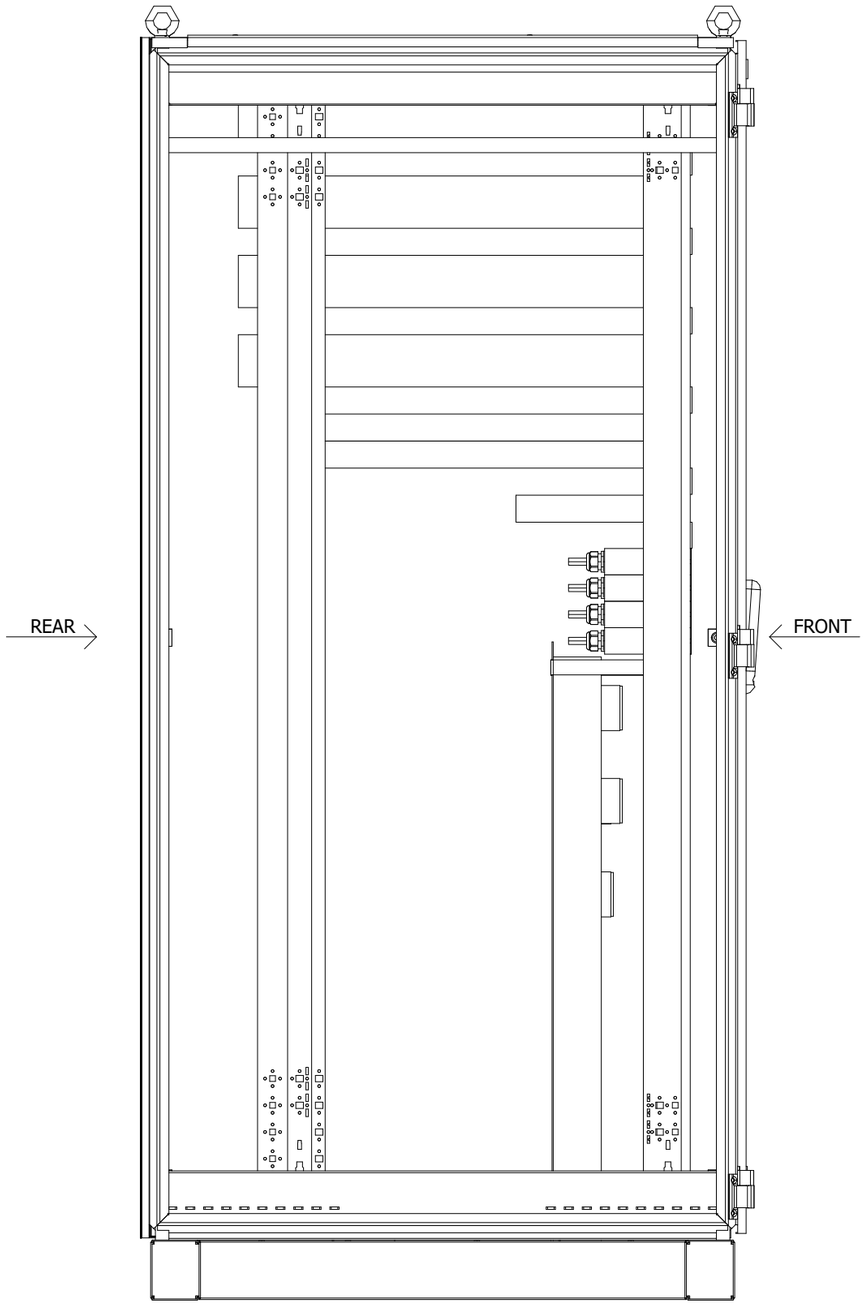
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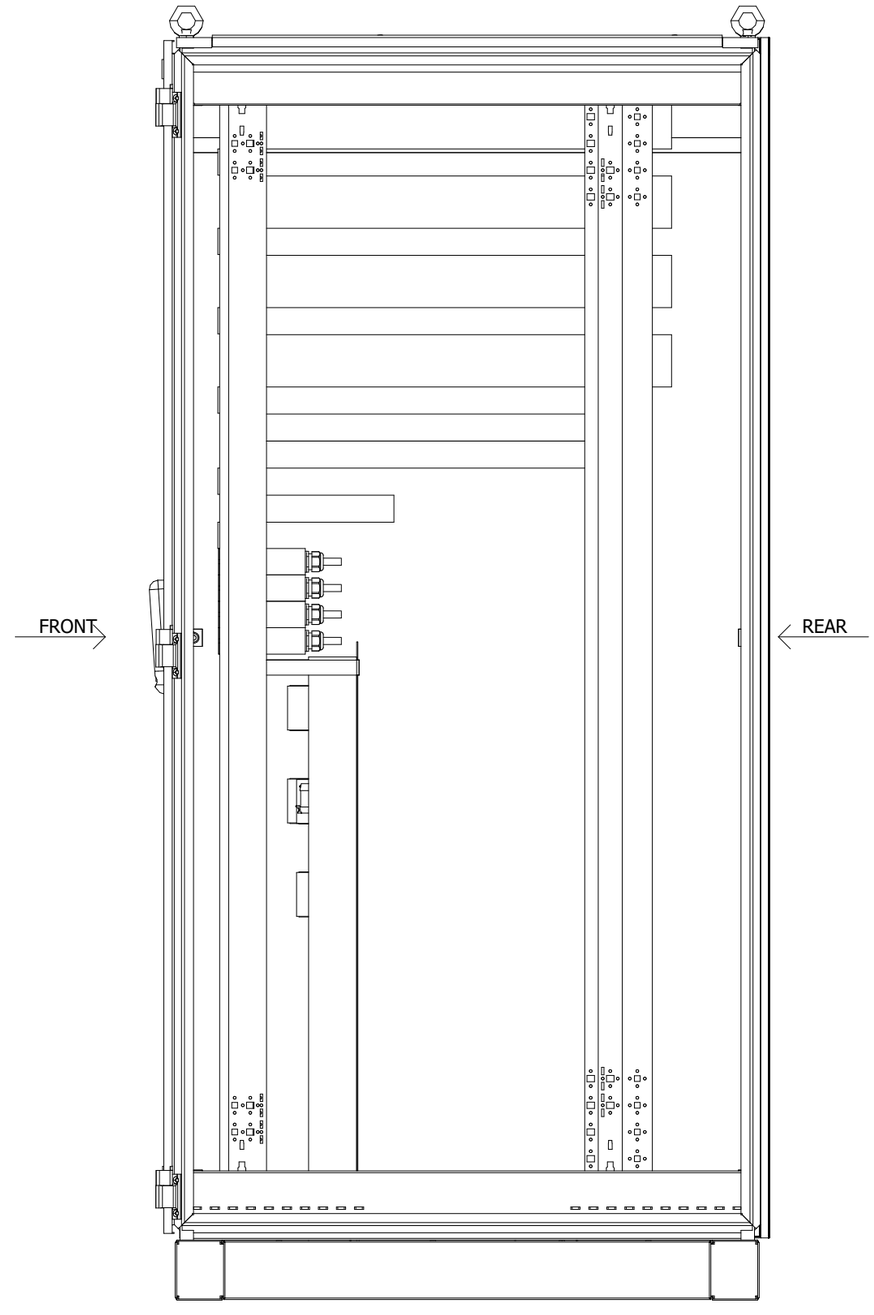
DRAWING NO. 1724000594-IN-DA-00011

SHEET 012

REV. 02

SERVER PANEL - EXTERNAL LEFT SIDE & RIGHT SIDE WHITOUT PANEL





DRAWING SCALE 1:10

REV	DATE	PREPARED	CHECKED	APPROVED	DESCRIPTION
2	19.09.2024	A.G.	A.B.	S.C.	ACCEPTED FOR CONSTRUCTION (AFC)
1	10.07.2024	A.G.	A.B.	S.C.	ISSUE FOR REVIEW (IFR)
0	10.07.2024	A.G.	A.B.	S.C.	ISSUE FOR REVIEW (IFR)

YOKOGAWA◆ PROJECT Nr. E36672C00
DESCRIPTION: E366772C00-ITER_NLO

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
& WIRING DIAGRAM
SERVER - EXTERNAL LEFT SIDE & RIGHT SIDE VIEW WHITOUT PANEL

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

SCALE : 1

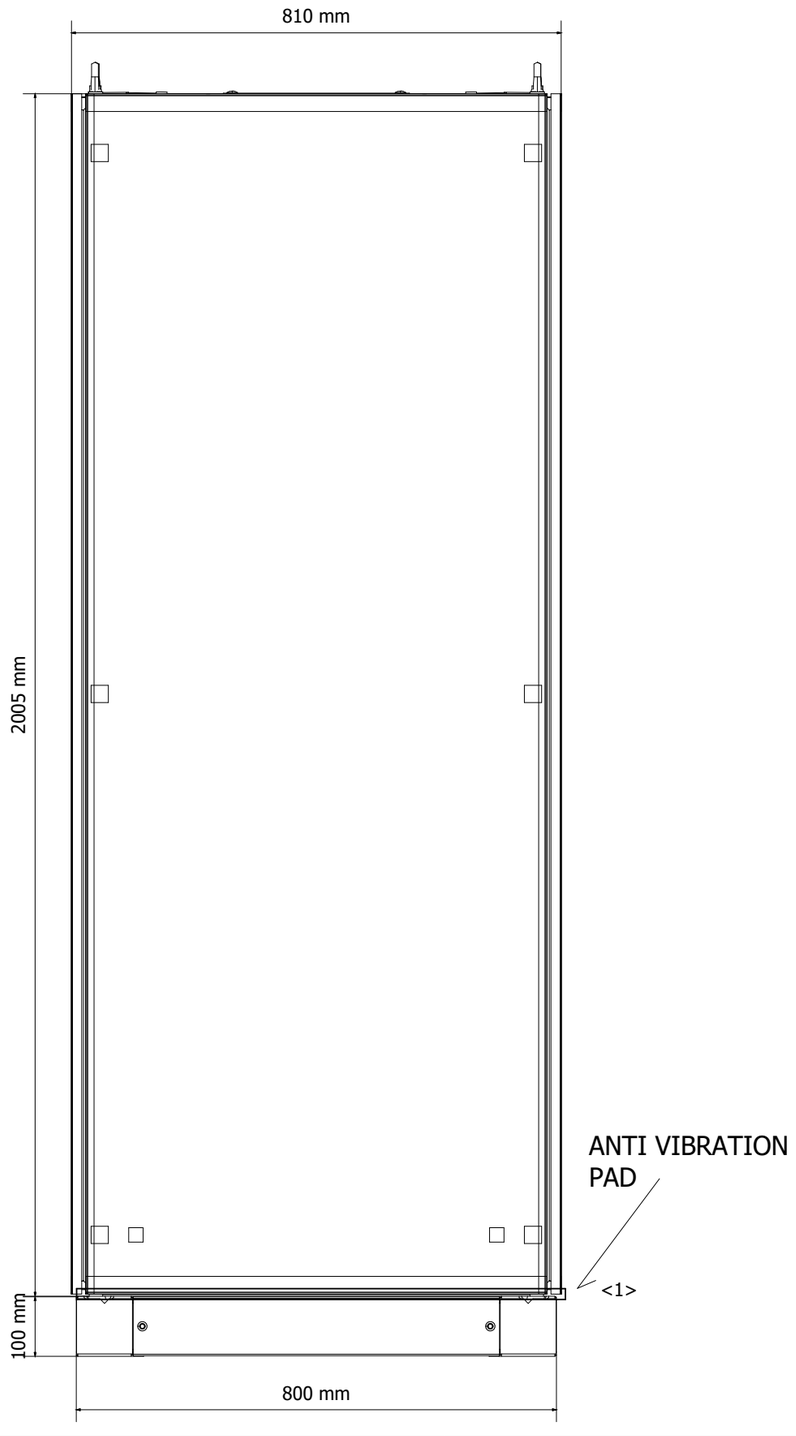
A3

DRAWING NO. 1724000594-IN-DA-00011

SHEET 013

REV. 02

SERVER PANEL - EXTERNAL REAR VIEW



DRAWING SCALE 1:10

REV	DATE	PREPARED	CHECKED	APPROVED	DESCRIPTION
2	19.09.2024	A.G.	A.B.	S.C.	ACCEPTED FOR CONSTRUCTION (AFC)
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YOKOGAWA◆ PROJECT Nr. E36672C00
DESCRIPTION: E366772C00-ITER_NLO

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
& WIRING DIAGRAM
SERVER - EXTERNAL REAR VIEW

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

SCALE : 1

A3

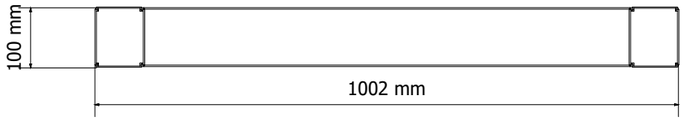
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SHEET 014

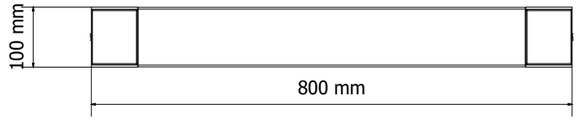
REV. 02

SERVER PANEL - BASEPLATE DETAILS

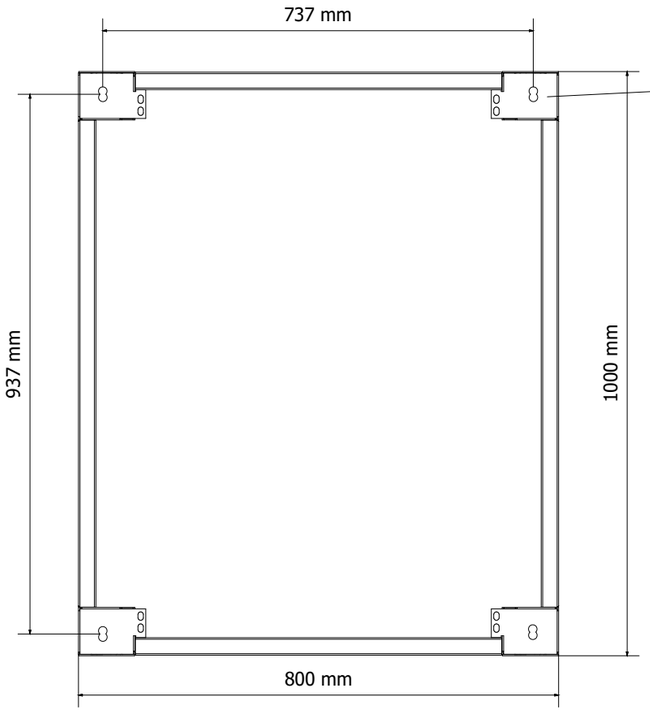
BASEPLATE SIDE VIEW

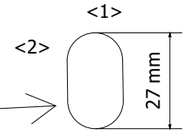


BASEPLATE FRONT VIEW



BASEPLATE BOTTOM VIEW
REAR SIDE





DETAIL OF FIXING HOLE:
Ø 16mm

BASEPLATE TOP VIEW
REAR SIDE

<1>

DRAWING SCALE 1:10

REV	DATE	PREPARED	CHECKED	APPROVED	DESCRIPTION
2	19.09.2024	A.G.	A.B.	S.C.	ACCEPTED FOR CONSTRUCTION (AFC)
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YOKOGAWA◆ PROJECT Nr. E36672C00
DESCRIPTION: E366772C00-ITER_NLO

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
& WIRING DIAGRAM
SERVER - BASEPLATE DETAILS

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

SCALE : 1

A3

DRAWING NO. 1724000594-IN-DA-00011

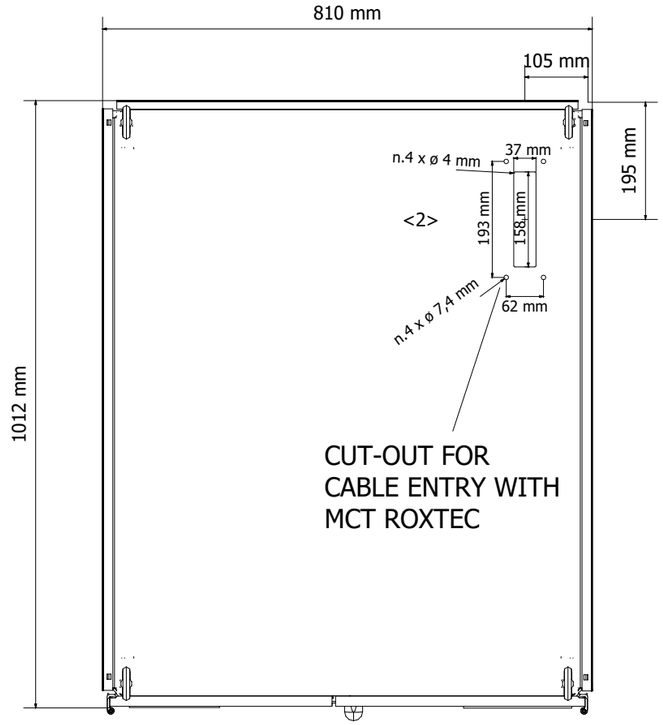
SHEET 015

REV. 02

SERVER PANEL - EXTERNAL & INTERNAL TOP VIEW

EXTERNAL TOP VIEW

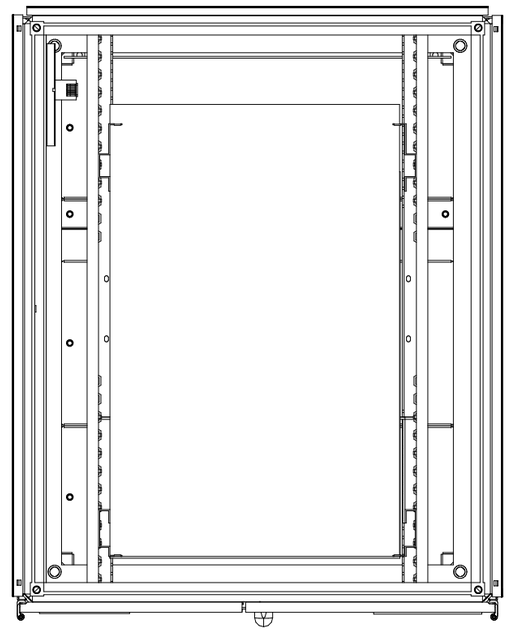
REAR



FRONT

INTERNAL TOP VIEW

REAR



FRONT

DRAWING SCALE 1:10

REV	DATE	PREPARED	CHECKED	APPROVED	DESCRIPTION
2	19.09.2024	A.G.	A.B.	S.C.	ACCEPTED FOR CONSTRUCTION (AFC)
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0	10.07.2024	A.G.	A.B.	S.C.	ISSUE FOR REVIEW (IFR)

YOKOGAWA◆ PROJECT Nr. E36672C00
DESCRIPTION: E366772C00-ITER_NLO

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
& WIRING DIAGRAM
SERVER - EXTERNAL & INTERNAL TOP VIEW

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

SCALE : 1

A3

DRAWING NO. 1724000594-IN-DA-00011

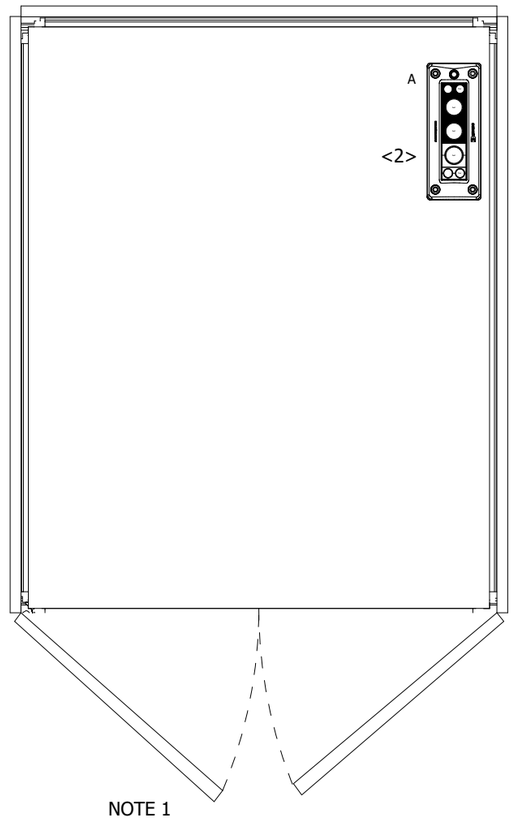
SHEET 016

REV. 02

SERVER PANEL - EXTERNAL TOP VIEW DOOR OPEN

EXTERNAL TOP VIEW
(DOOR OPEN)

REAR



NOTE 1

FRONT

<2>

CABLE TAG	CABLE TYPE	OUTER CABLE DIAMETER (mm)	MCT SIZE	POSITION
84307-CEL	3G6	18.3	40x40	A
84308-CEL	3G6	18.3	40x40	A
83109-CEL	3G2.5	13	20x40	A

NOTES :

NOTE 1: DOORS LOCK AT 90°

DRAWING SCALE 1:10

REV	DATE	PREPARED	CHECKED	APPROVED	DESCRIPTION
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YOKOGAWA◆ PROJECT Nr. E36672C00
DESCRIPTION: E366772C00-ITER_NLO

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
& WIRING DIAGRAM
SERVER - EXTERNAL TOP VIEW DOOR OPEN

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

SCALE : 1

A3

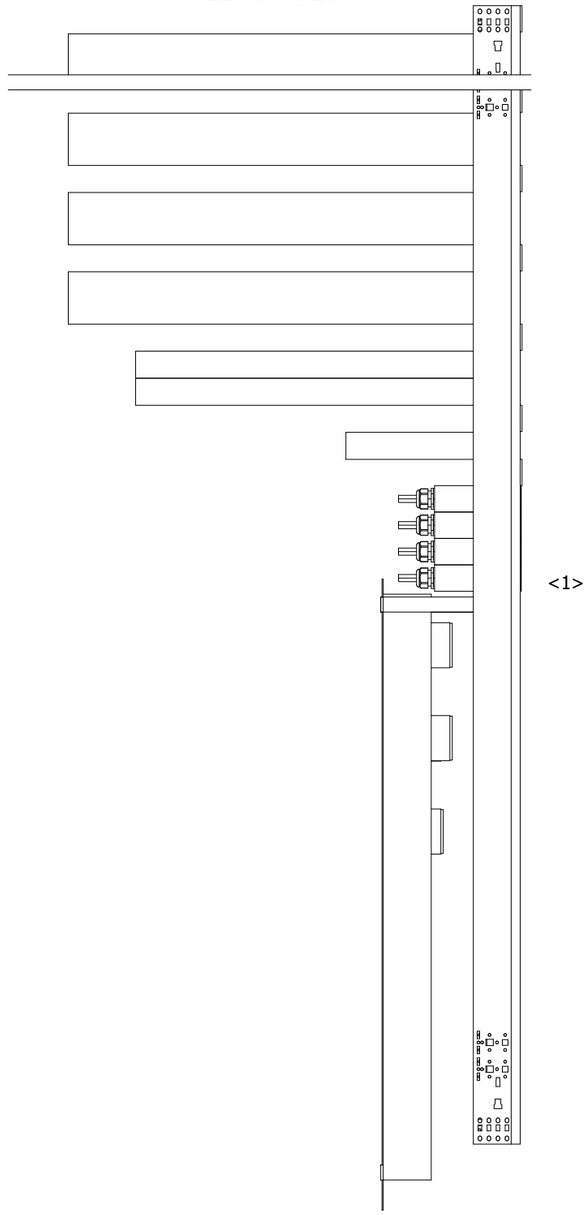
DRAWING NO. 1724000594-IN-DA-00011

SHEET 017

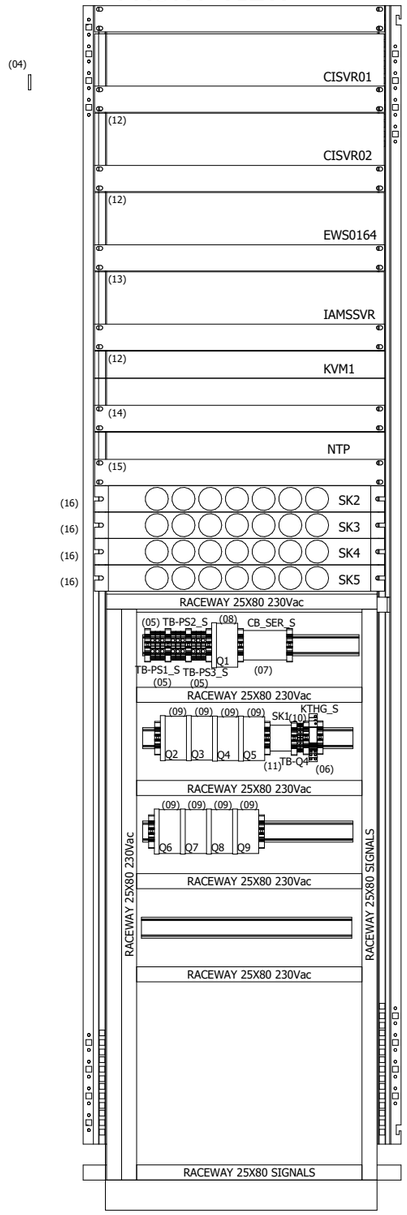
REV. 02

SERVER PANEL - FRONT SIDE INTERNAL VIEW

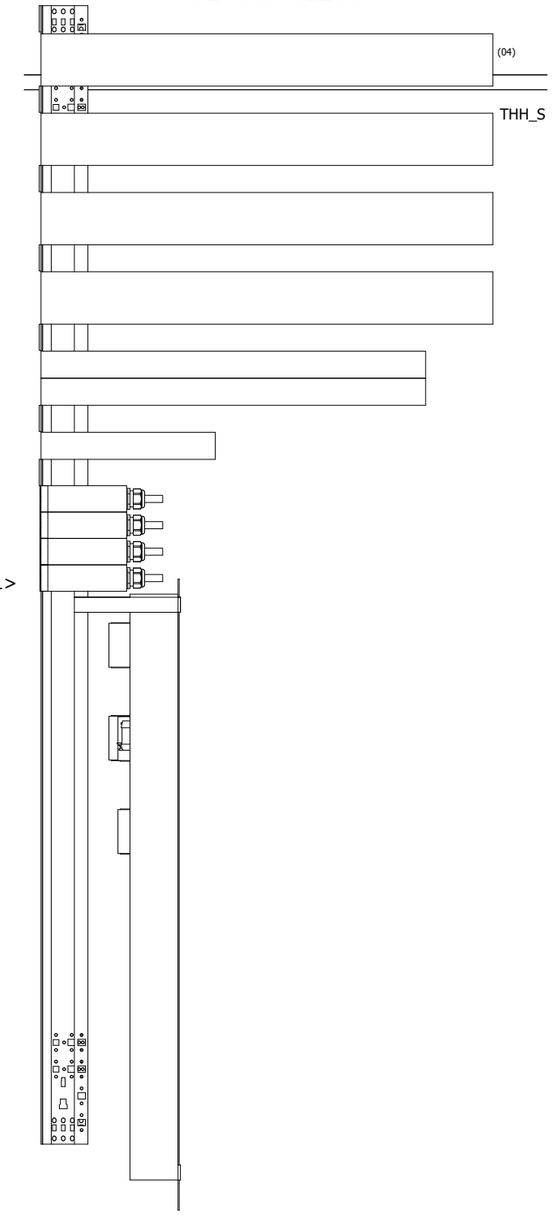
LEFT VIEW



FRONT VIEW



RIGHT VIEW



DRAWING SCALE 1:10

REV	DATE	PREPARED	CHECKED	APPROVED	DESCRIPTION
2	19.09.2024	A.G.	A.B.	S.C.	ACCEPTED FOR CONSTRUCTION (AFC)
1	10.07.2024	A.G.	A.B.	S.C.	ISSUE FOR REVIEW (IFR)
0	10.07.2024	A.G.	A.B.	S.C.	ISSUE FOR REVIEW (IFR)

YOKOGAWA◆ PROJECT Nr. E36672C00
DESCRIPTION: E366772C00-ITER_NLO

CROSSWIND | ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH) & WIRING DIAGRAM
SERVER - FRONT SIDE INTERNAL VIEWS

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

SCALE : 1

A3

DRAWING NO. 1724000594-IN-DA-00011

SHEET 018

REV. 02

SHEET LEFT INTENTIONALLY BLANK

2	19.09.2024	A.G.	A.B.	S.C.	ACCEPTED FOR CONSTRUCTION (AFC)
1	10.07.2024	A.G.	A.B.	S.C.	ISSUE FOR REVIEW (IFR)
0	10.07.2024	A.G.	A.B.	S.C.	ISSUE FOR REVIEW (IFR)
REV	DATE	PREPARED	CHECKED	APPROVED	DESCRIPTION

YOKOGAWA◆ PROJECT Nr. E36672C00
DESCRIPTION: E366772C00-ITER_NLO

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
& WIRING DIAGRAM
SERVER - SPARE PAGE

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

SCALE : 1

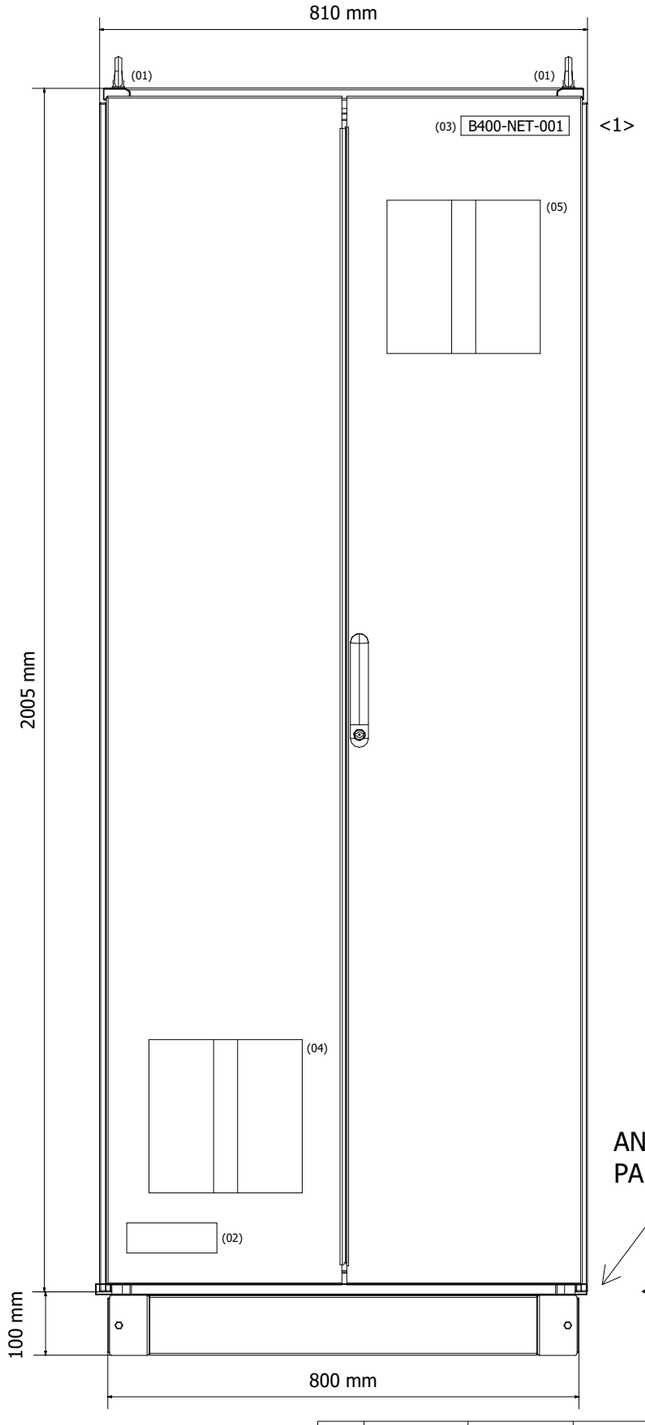
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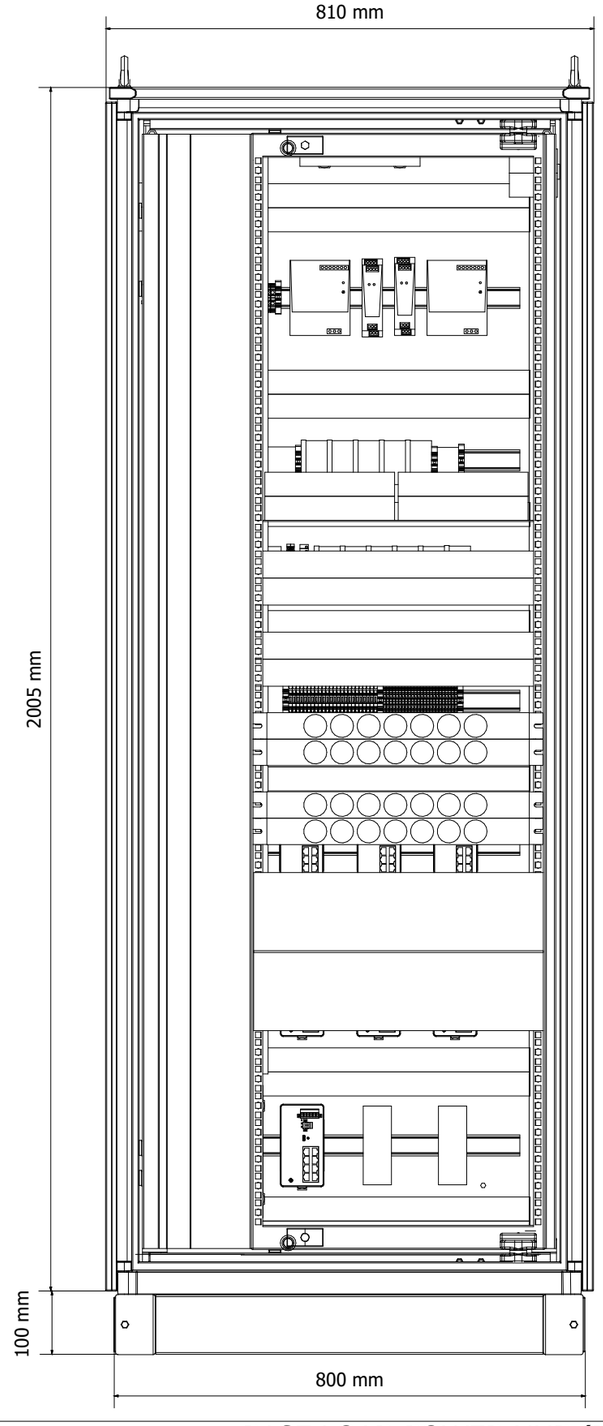
DRAWING NO. 1724000594-IN-DA-00011

SHEET 019

REV. 02

NETWORK PANEL - EXTERNAL FRONT VIEW & FRONT DOOR OPENED VIEW





DRAWING SCALE 1:10

REV	DATE	PREPARED	CHECKED	APPROVED	DESCRIPTION
2	19.09.2024	A.G.	A.B.	S.C.	ACCEPTED FOR CONSTRUCTION (AFC)
1	10.07.2024	A.G.	A.B.	S.C.	ISSUE FOR REVIEW (IFR)
0	10.07.2024	A.G.	A.B.	S.C.	ISSUE FOR REVIEW (IFR)

YOKOGAWA◆ PROJECT Nr. E36672C00
DESCRIPTION: E366772C00-ITER_NLO

CROSSWIND ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH) & WIRING DIAGRAM
NETWORK - EXTERNAL FRONT VIEW & FRONT DOOR OPENED VIEW

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

SCALE : 1

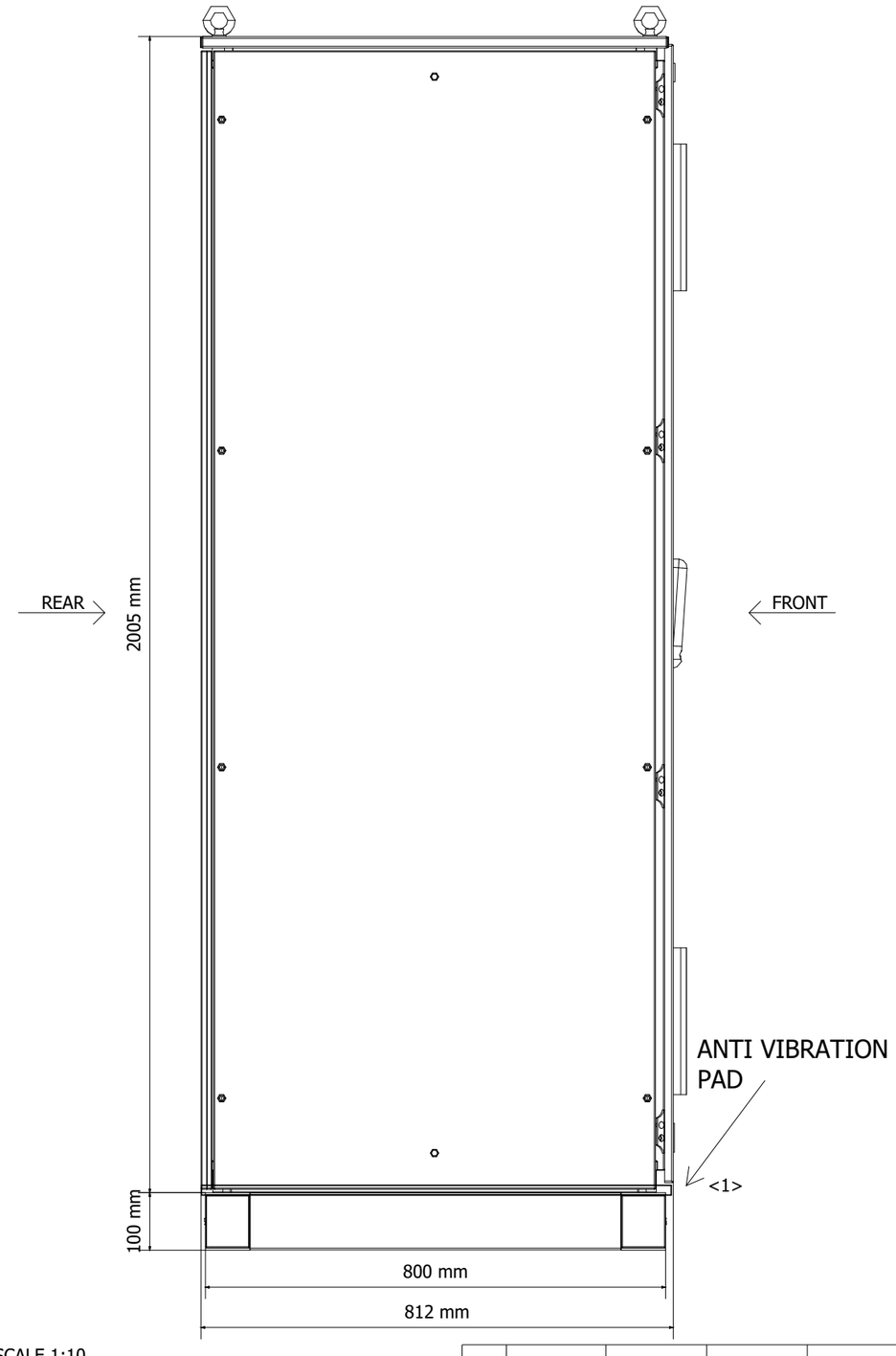
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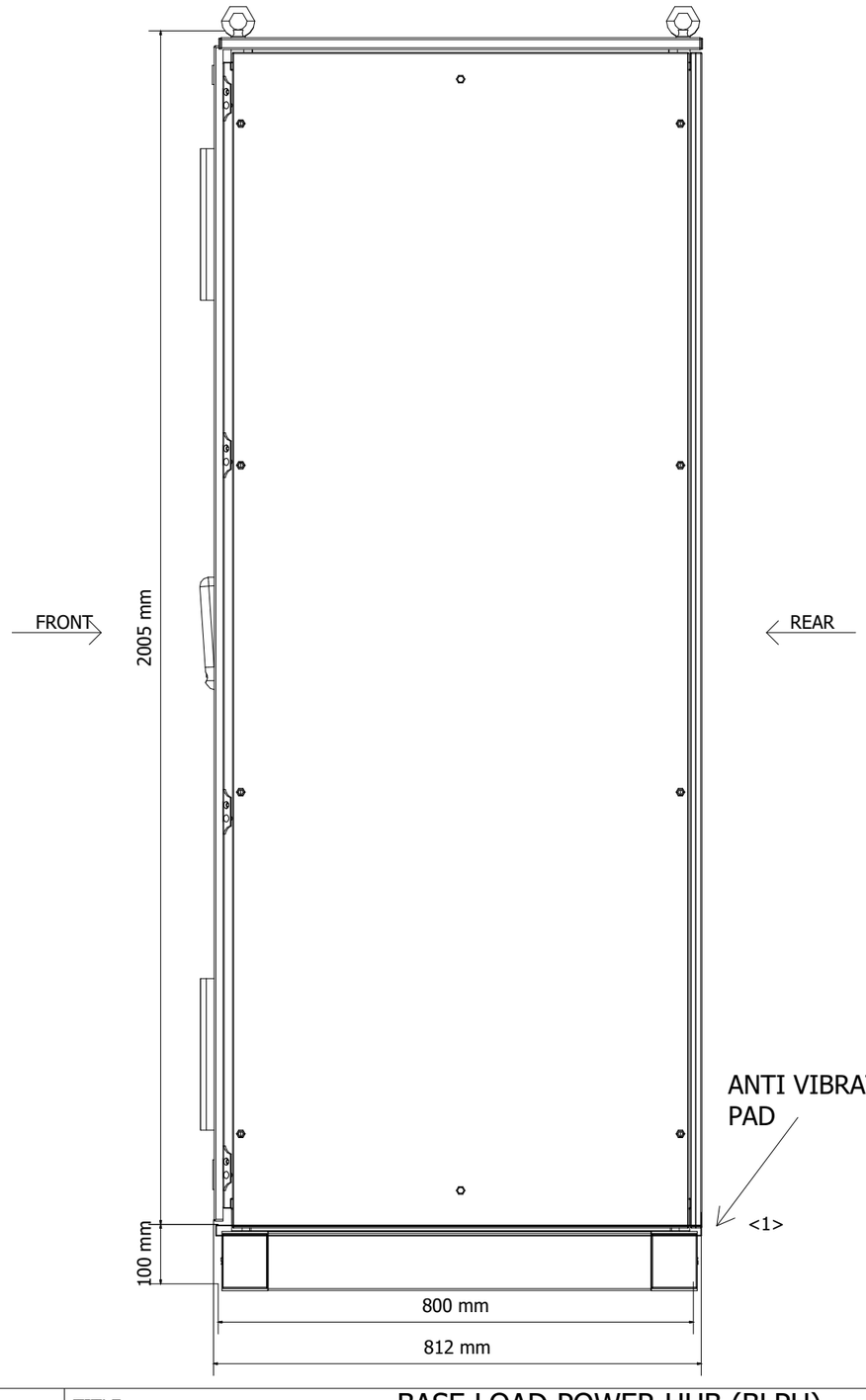
DRAWING NO. 1724000594-IN-DA-00011

SHEET 020

REV. 02

NETWORK PANEL - EXTERNAL LEFT SIDE & RIGHT SIDE VIEW





DRAWING SCALE 1:10

REV	DATE	PREPARED	CHECKED	APPROVED	DESCRIPTION
2	19.09.2024	A.G.	A.B.	S.C.	ACCEPTED FOR CONSTRUCTION (AFC)
1	10.07.2024	A.G.	A.B.	S.C.	ISSUE FOR REVIEW (IFR)
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YOKOGAWA◆ PROJECT Nr. E36672C00
DESCRIPTION: E366772C00-ITER_NLO

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
& WIRING DIAGRAM
NETWORK - EXTERNAL LEFT SIDE & RIGHT SIDE VIEW

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

SCALE : 1

A3

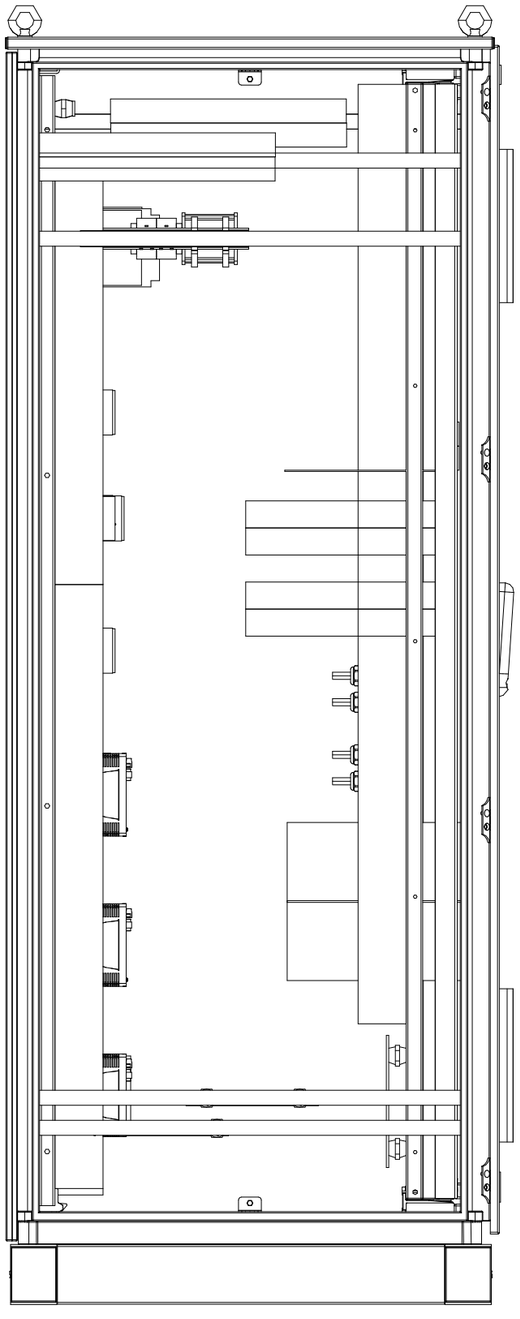
DRAWING NO. 1724000594-IN-DA-00011

SHEET 021

REV. 02

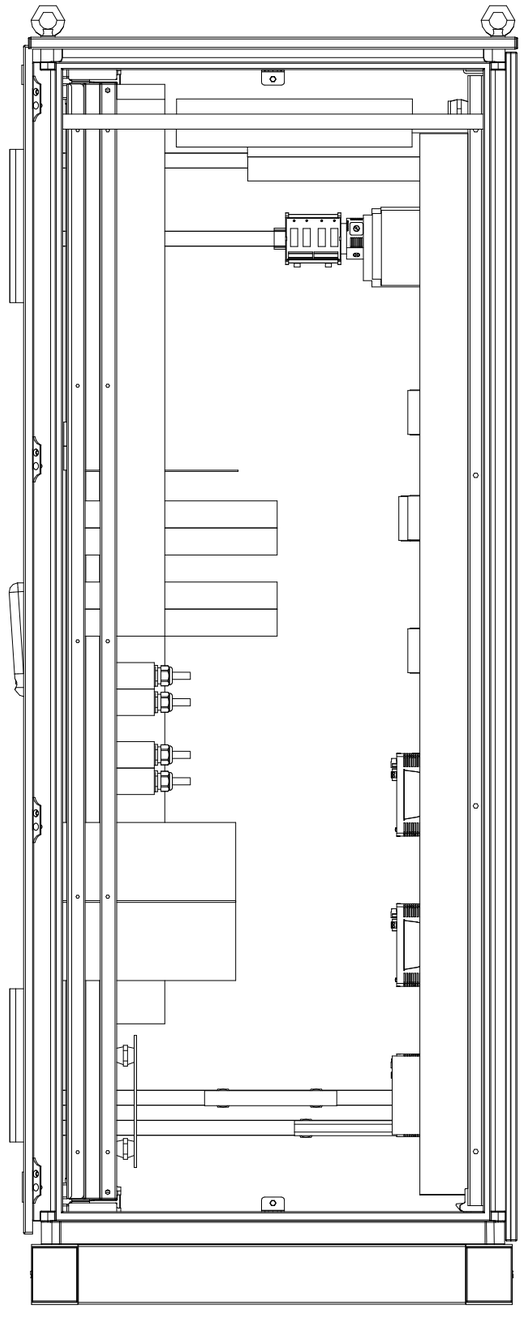
NETWORK PANEL - EXTERNAL LEFT SIDE & RIGHT SIDE WHITOUT PANEL

REAR



FRONT

FRONT



REAR

DRAWING SCALE 1:10

REV	DATE	PREPARED	CHECKED	APPROVED	DESCRIPTION
2	19.09.2024	A.G.	A.B.	S.C.	ACCEPTED FOR CONSTRUCTION (AFC)
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YOKOGAWA◆ PROJECT Nr. E36672C00
DESCRIPTION: E366772C00-ITER_NLO

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
& WIRING DIAGRAM
NETWORK - EXTERNAL LEFT SIDE & RIGHT SIDE VIEW WHITOUT PANEL

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

SCALE : 1

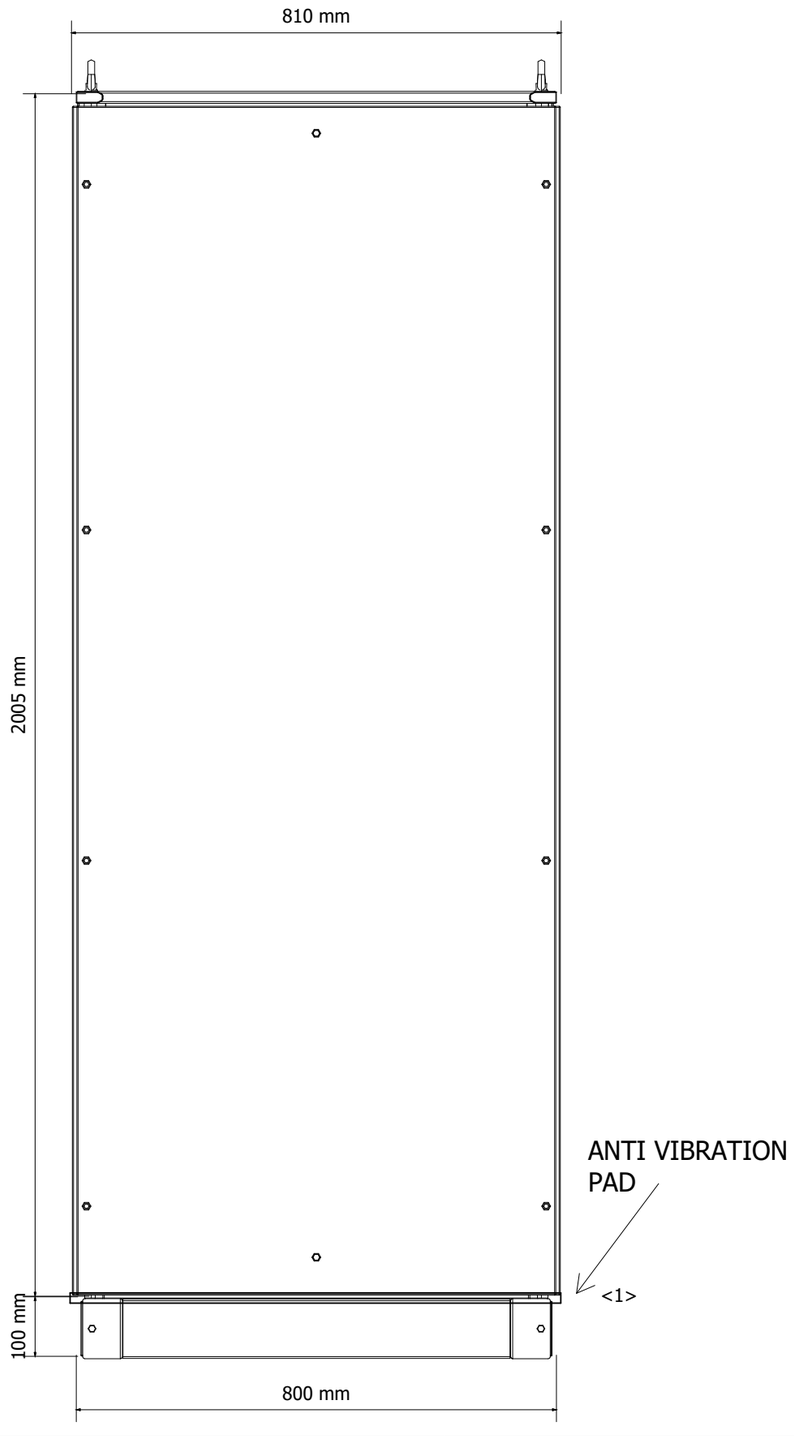
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DRAWING NO. 1724000594-IN-DA-00011

SHEET 022

REV. 02

NETWORK PANEL - EXTERNAL REAR VIEW



DRAWING SCALE 1:10

REV	DATE	PREPARED	CHECKED	APPROVED	DESCRIPTION
2	19.09.2024	A.G.	A.B.	S.C.	ACCEPTED FOR CONSTRUCTION (AFC)
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YOKOGAWA◆ PROJECT Nr. E36672C00
DESCRIPTION: E366772C00-ITER_NLO

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
& WIRING DIAGRAM
NETWORK - EXTERNAL REAR VIEW

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

SCALE : 1

A3

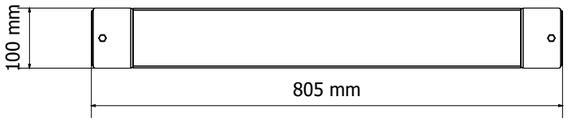
DRAWING NO. 1724000594-IN-DA-00011

SHEET 023

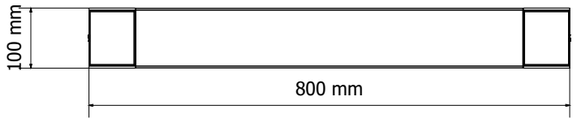
REV. 02

NETWORK PANEL - BASEPLATE DETAILS

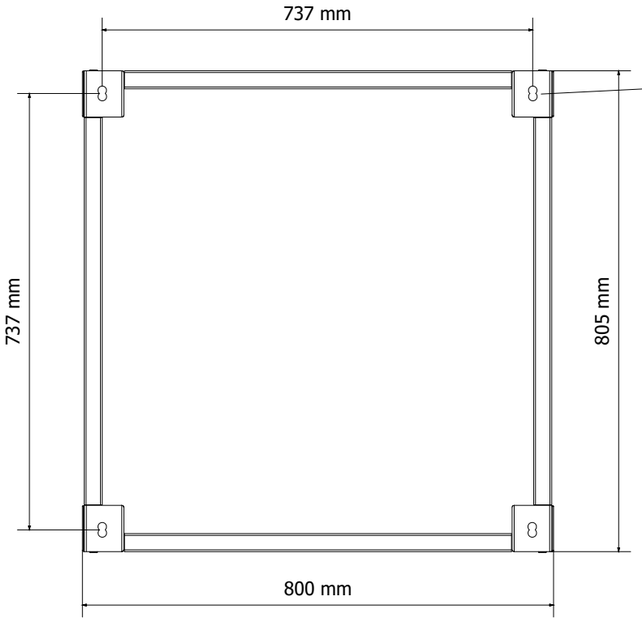
BASEPLATE SIDE VIEW



BASEPLATE FRONT VIEW

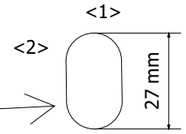


BASEPLATE BOTTOM VIEW
REAR SIDE



FRONT SIDE

BASEPLATE TOP VIEW
REAR SIDE



DETAIL OF FIXING HOLE:

Ø 16mm

<1>

DRAWING SCALE 1:10

REV	DATE	PREPARED	CHECKED	APPROVED	DESCRIPTION
2	19.09.2024	A.G.	A.B.	S.C.	ACCEPTED FOR CONSTRUCTION (AFC)
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YOKOGAWA◆ PROJECT Nr. E36672C00
DESCRIPTION: E366772C00-ITER_NLO

CROSSWIND ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
& WIRING DIAGRAM
NETWORK - BASEPLATE DETAILS

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

SCALE : 1

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DRAWING NO. 1724000594-IN-DA-00011

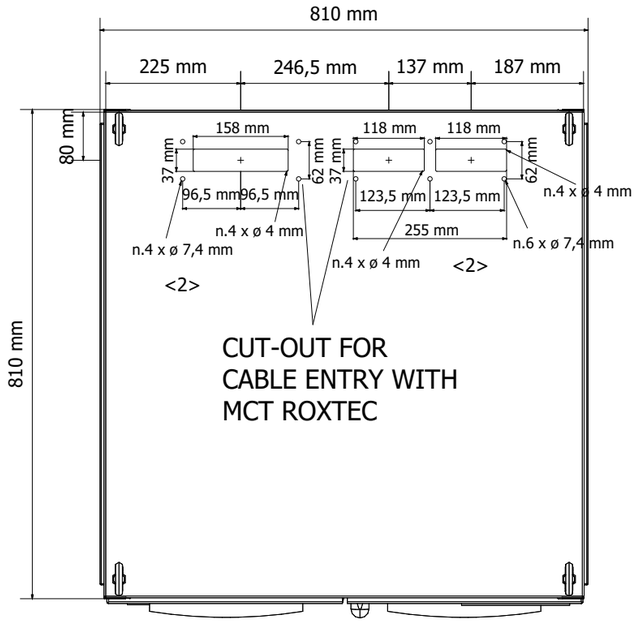
SHEET 024

REV. 02

NETWORK PANEL - EXTERNAL & INTERNAL TOP VIEW

EXTERNAL TOP VIEW

REAR



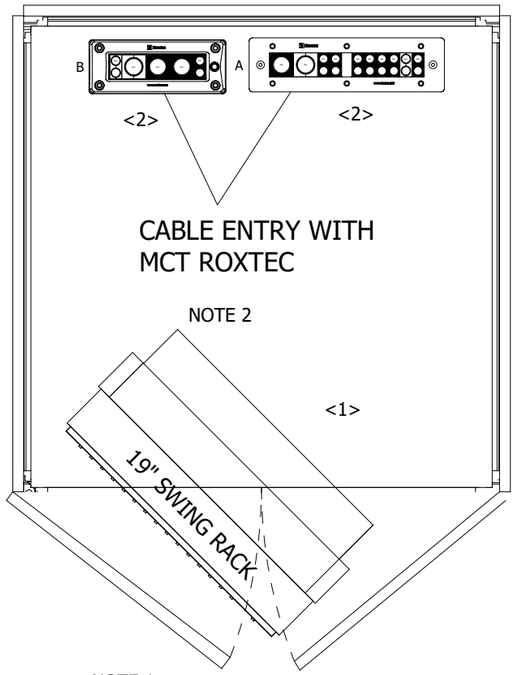
FRONT

<2>

CABLE TAG	CABLE TYPE	OUTER CABLE DIAMETER (mm)	MCT SIZE	POSITION
B100-HSB-001/B400-NET-001	CAT.6A 4x2xAWG23, Sh+ShT+ARM, F.Ret, GREEN, NIS	10.7	20x40	A
B200-HSB-001/B400-NET-001	CAT.6A 4x2xAWG23, Sh+ShT+ARM, F.Ret, GREEN, NIS	10.7	20x40	A
B300-HSB-001/B400-NET-001	CAT.6A 4x2xAWG23, Sh+ShT+ARM, F.Ret, GREEN, NIS	10.7	20x40	A
P320PLC/B400-NET-001.01	CAT.6A 4x2xAWG23, Sh+ShT+ARM, F.Ret, GREEN, NIS	10.7	20x40	A
P320PLC/B400-NET-001.02	CAT.6A 4x2xAWG23, Sh+ShT+ARM, F.Ret, GREEN, NIS	10.7	20x40	A
20-UCP-001/B400-NET-001.01	CAT.6A 4x2xAWG23, Sh+ShT+ARM, F.Ret, GREEN, NIS	10.7	20x40	A
20-UCP-001/B400-NET-001.02	CAT.6A 4x2xAWG23, Sh+ShT+ARM, F.Ret, GREEN, NIS	10.7	20x40	A
80-UCP-001/B400-NET-001.01	CAT.6A 4x2xAWG23, Sh+ShT+ARM, F.Ret, GREEN, NIS	10.7	20x40	A
80-UCP-001/B400-NET-001.02	CAT.6A 4x2xAWG23, Sh+ShT+ARM, F.Ret, GREEN, NIS	10.7	20x40	A
50-LP-001/B400-NET-001	CAT.6A 4x2xAWG23, Sh+ShT+ARM, F.Ret, GREEN, NIS	10.7	20x40	A
63-LP-001/B400-NET-001	CAT.6A 4x2xAWG23, Sh+ShT+ARM, F.Ret, GREEN, NIS	10.7	20x40	A
64-LP-001/B400-NET-001	CAT.6A 4x2xAWG23, Sh+ShT+ARM, F.Ret, GREEN, NIS	10.7	20x40	A
HNA6/B400-NET-001	FO12 OS2, ARM, F.Ret, YELLOW, NIS	8.5	20x40	A
X-FAULT-NET/B400-NET-001	6x2x0.75mm2,Sh+ShT+ARM,F.Ret,GREY,NIS	19.4	40x40	A
84403-CEL	3G2.5	15.5	40x40	B
84404-CEL	3G2.5	15.5	40x40	B
83108-CEL	3G2.5	13	20x40	B

EXTERNAL TOP VIEW (DOOR OPEN)

REAR

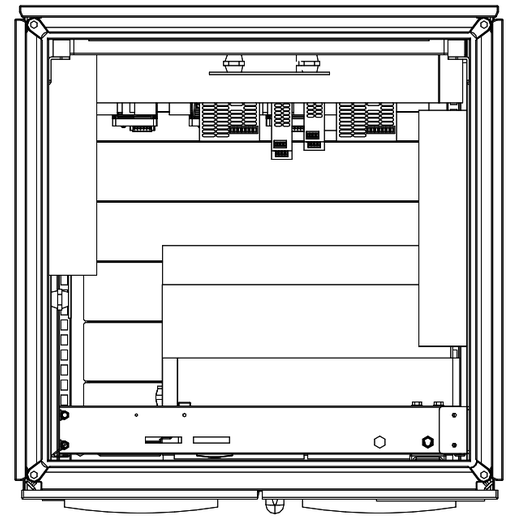


NOTE 1

FRONT

INTERNAL TOP VIEW

REAR



FRONT

NOTE 1: DOOR LOCK AT 130°
NOTE 2: DOOR LOCK AT 110°

DRAWING SCALE 1:10

REV	DATE	PREPARED	CHECKED	APPROVED	DESCRIPTION
2	19.09.2024	A.G.	A.B.	S.C.	ACCEPTED FOR CONSTRUCTION (AFC)
1	10.07.2024	A.G.	A.B.	S.C.	ISSUE FOR REVIEW (IFR)
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YOKOGAWA◆ PROJECT Nr. E36672C00
DESCRIPTION: E366772C00-ITER_NLO

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH) & WIRING DIAGRAM NETWORK - EXTERNAL & INTERNAL TOP VIEW

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

SCALE : 1

A3

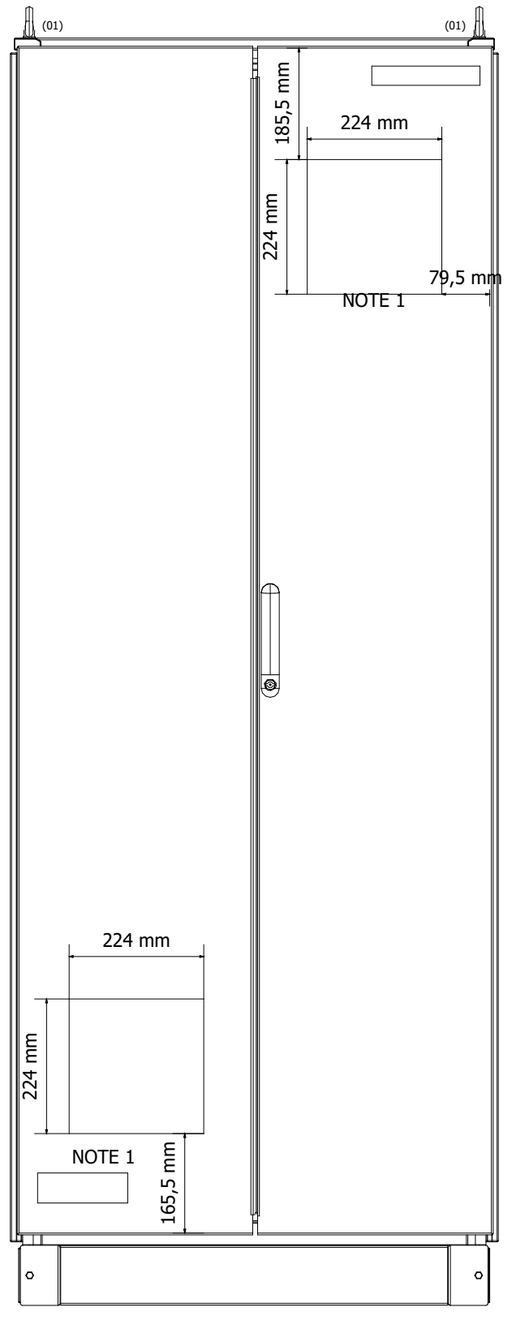
DRAWING NO. 1724000594-IN-DA-00011

SHEET 025

REV. 02

NETWORK PANEL - FRONT DOOR CUT-OUT DETAILS

<1>



NOTE 1 : CUT-OUT FOR AIR VENTILATION FILTER

<1>

<1>

DRAWING SCALE 1:10

YOKOGAWA◆ PROJECT Nr. E36672C00
DESCRIPTION: E366772C00-ITER_NLO

CROSSWIND | ROSETTI MARINO

REV	DATE	PREPARED	CHECKED	APPROVED	DESCRIPTION
2	19.09.2024	A.G.	A.B.	S.C.	ACCEPTED FOR CONSTRUCTION (AFC)
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TITLE : BASE LOAD POWER HUB (BLPH)
& WIRING DIAGRAM
NETWORK - FRONT DOOR CUT-OUT DETAILS

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

SCALE : 1

A3

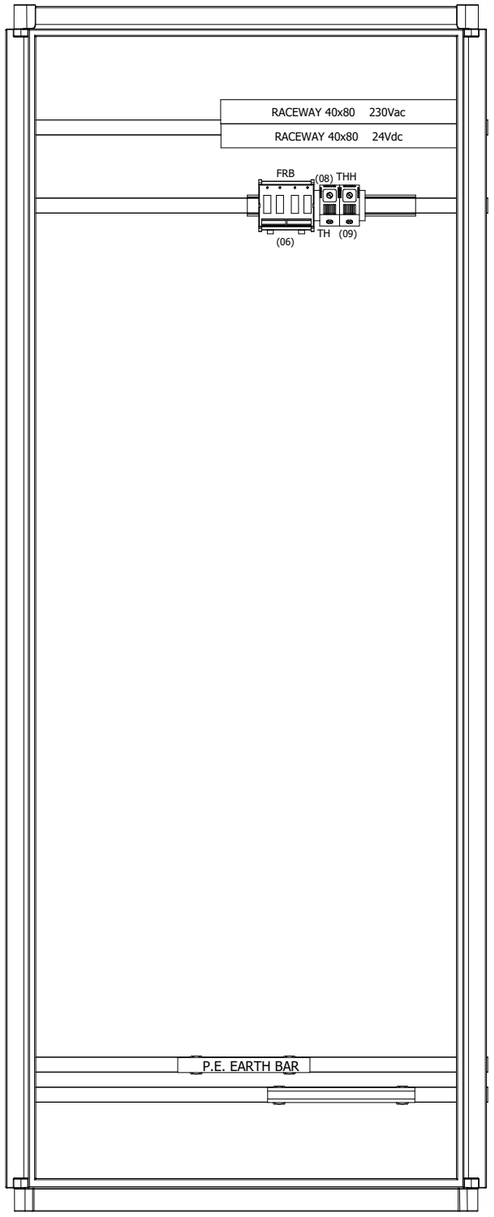
DRAWING NO. 1724000594-IN-DA-00011

SHEET 026

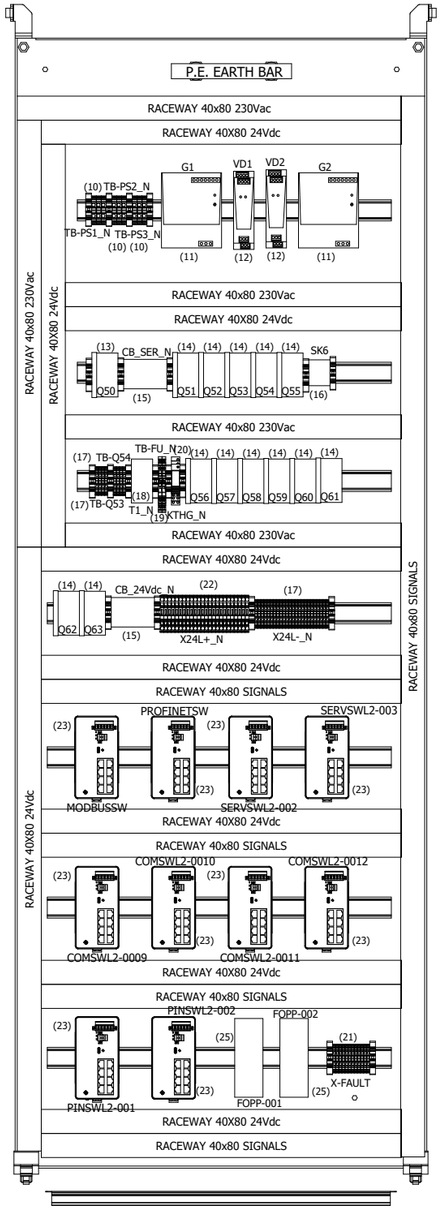
REV. 02

NETWORK PANEL - FRONT SIDE INTERNAL VIEW

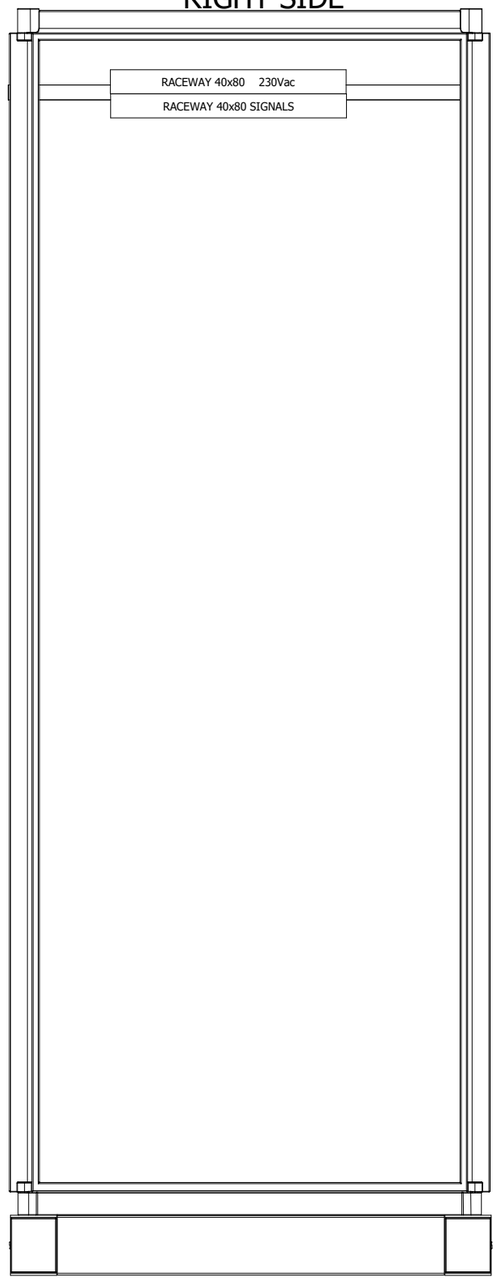
LEFT SIDE



FRONT PLATE



RIGHT SIDE



DRAWING SCALE 1:10

REV	DATE	PREPARED	CHECKED	APPROVED	DESCRIPTION
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YOKOGAWA◆ PROJECT Nr. E36672C00
DESCRIPTION: E366772C00-ITER_NLO

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
& WIRING DIAGRAM
NETWORK - FRONT SIDE INTERNAL VIEWS

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

SCALE : 1

A3

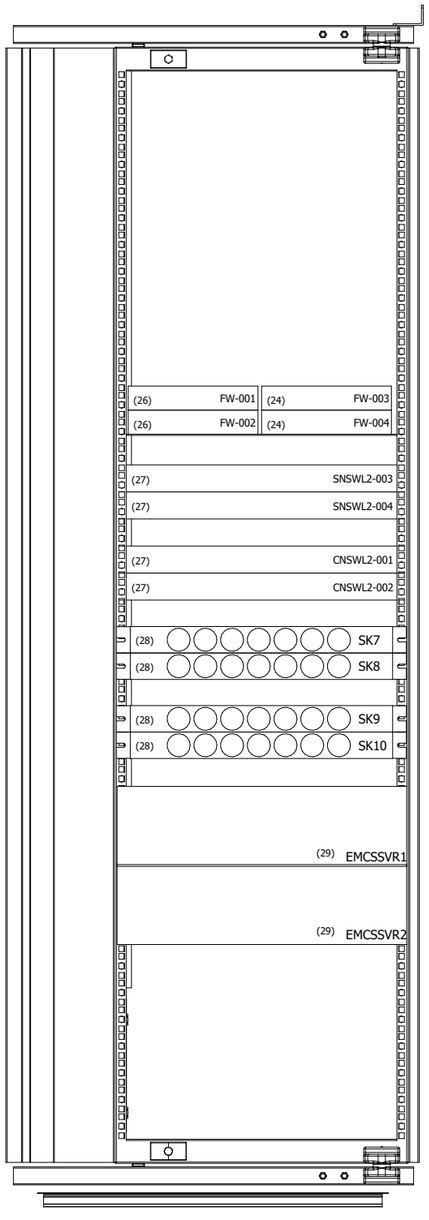
DRAWING NO. 1724000594-IN-DA-00011

SHEET 027

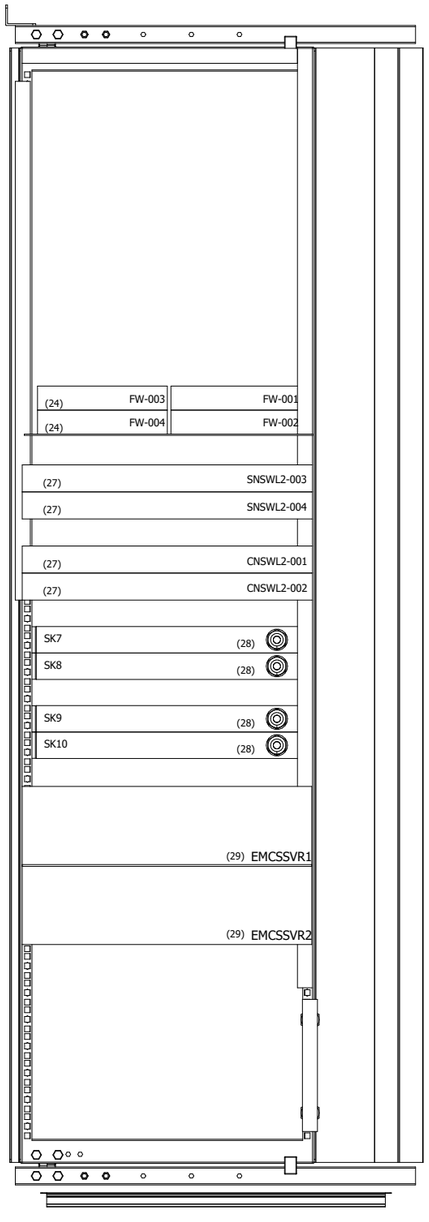
REV. 02

NETWORK PANEL - FRONT SIDE SWING RACK INTERNAL VIEW

FRONT RACK



REAR RACK



DRAWING SCALE 1:10

REV	DATE	PREPARED	CHECKED	APPROVED	DESCRIPTION
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YOKOGAWA◆ PROJECT Nr. E36672C00
DESCRIPTION: E366772C00-ITER_NLO

CROSSWIND | ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
& WIRING DIAGRAM
NETWORK - FRONT SIDE INTERNAL VIEWS

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

SCALE : 1

A3

DRAWING NO. 1724000594-IN-DA-00011

SHEET 028

REV. 02

SHEET LEFT INTENTIONALLY BLANK

2	19.09.2024	A.G.	A.B.	S.C.	ACCEPTED FOR CONSTRUCTION (AFC)
1	10.07.2024	A.G.	A.B.	S.C.	ISSUE FOR REVIEW (IFR)
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REV	DATE	PREPARED	CHECKED	APPROVED	DESCRIPTION

YOKOGAWA◆ PROJECT Nr. E36672C00
DESCRIPTION: E366772C00-ITER_NLO

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
& WIRING DIAGRAM
NETWORK - SPARE PAGE

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

SCALE : 1

A3

DRAWING NO. 1724000594-IN-DA-00011

SHEET 029

REV. 02

TYPICAL 01



TYPICAL 01

MANUFACTURER LABEL ITEM (02)

MATERIAL	:	ALUMINIUM
DIMENSION	:	150mm x 50mm (lxh)
BACKGROUND COLOUR	:	ALUMINIUM
TEXT COLOUR	:	BLACK & GREEN
FIXING	:	BY STAINLESS STEEL SCREWS

DRAWING SCALE 1:1

YOKOGAWA◆ PROJECT Nr. E36672C00
DESCRIPTION: E366772C00-ITER_NLO

CROSSWIND | ROSETTI MARINO

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TITLE : BASE LOAD POWER HUB (BLPH)
& WIRING DIAGRAM
BH AND MANUFACTURER LABEL DETAILS

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

SCALE : 1

A3

DRAWING NO. 1724000594-IN-DA-00011

SHEET 030

REV. 02

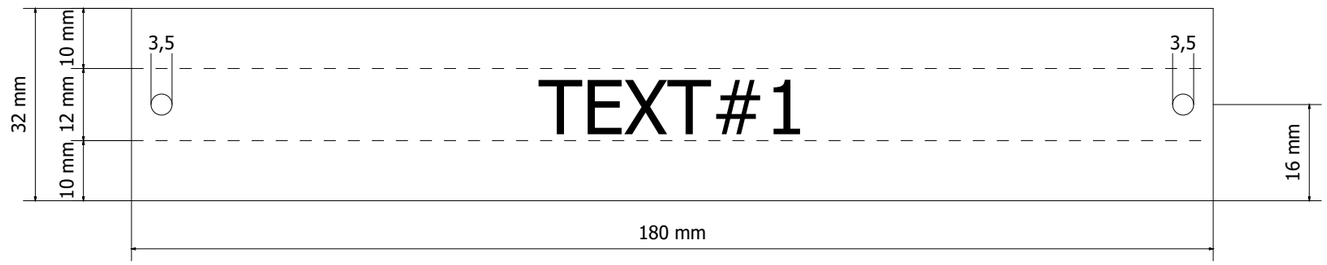
SERVER AND NETWORK PANEL - SECTION IDENTIFIER NAMEPLATE DETAILS

TYPICAL 02

LABEL FOR SECTION IDENTIFIER ITEM (03)

MATERIAL	:	TRAFOLYTE
DIMENSION	:	200mm x 45mm (lxh)
BACKGROUND COLOUR	:	TRAFOLYTE
TEXT COLOUR	:	BLACK
TEXT HEIGHT	:	15 mm / 10 mm
TEXT FONT	:	ARIAL
FIXING	:	BY STAINLESS STEEL SCREWS

TYPICAL 02



CABINET	TEXT#1
SERVER	B400-SRV-001
NETWORK	B400-NET-001

DRAWING SCALE 1:1

REV	DATE	PREPARED	CHECKED	APPROVED	DESCRIPTION
2	19.09.2024	A.G.	A.B.	S.C.	ACCEPTED FOR CONSTRUCTION (AFC)
1	10.07.2024	A.G.	A.B.	S.C.	ISSUE FOR REVIEW (IFR)
0	10.07.2024	A.G.	A.B.	S.C.	ISSUE FOR REVIEW (IFR)

YOKOGAWA◆ PROJECT Nr. E36672C00
DESCRIPTION: E366772C00-ITER_NLO

CROSSWIND ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
& WIRING DIAGRAM
SERVER AND NETWORK SECTION IDENTIFIER NAMEPLATE DETAILS

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

SCALE : 1

A3

DRAWING NO. 1724000594-IN-DA-00011

SHEET 031

REV. 02

SHEET LEFT INTENTIONALLY BLANK

DRAWING SCALE 1:1

REV	DATE	PREPARED	CHECKED	APPROVED	DESCRIPTION
2	19.09.2024	A.G.	A.B.	S.C.	ACCEPTED FOR CONSTRUCTION (AFC)
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YOKOGAWA◆ PROJECT Nr. E36672C00
DESCRIPTION: E366772C00-ITER_NLO

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
& WIRING DIAGRAM
SPARE PAGE

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

SCALE : 1

A3

DRAWING NO. 1724000594-IN-DA-00011

SHEET 032

REV. 02

CERTIFICATION LABELS DETAILS

TYPICAL 05

LABEL FOR ITEM IDENTIFIER : ITEM (25)

MATERIAL	:	TRAFFOLYTE
DIMENSION	:	150mm x 150mm (lxh)
BACKGROUND COLOUR	:	WHITE
TEXT COLOUR	:	BLACK
TEXT HEIGHT	:	4 mm
TEXT FONT	:	ARIAL
FIXING	:	SS316L SCREWS OR RIVETS

T.B.D.

DRAWING SCALE 1:1
ALL QUOTES SHOWN ARE IN MILLIMETERS

REV	DATE	PREPARED	CHECKED	APPROVED	DESCRIPTION
2	19.09.2024	A.G.	A.B.	S.C.	ACCEPTED FOR CONSTRUCTION (AFC)
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YOKOGAWA◆ PROJECT Nr. E36672C00
DESCRIPTION: E366772C00-ITER_NLO

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
& WIRING DIAGRAM
CERTIFICATION LABEL

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

SCALE : 1

A3

DRAWING NO. 1724000594-IN-DA-00011

SHEET 033

REV. 02

SERVER PANEL COMPONENT LIST

POS.	DESCRIPTION	MANUFACTURER TYPE & MODEL	SHIPPING BOM MARK	Q.TY	NAMEPLATE
01	REMOVABLE LIFTING LUGS -	MANUFACTURER STANDARD	NA001_01	4	MECHANICAL PART NAMEPLATE NOT REQUIRED
02	CABINET MANUFACTURER LABEL -	MANUFACTURER STANDARD	NA001_02	1	DETAILS ON SHEET 033 <1> TYPICAL 02
03	SECTION IDENTIFICATION LABEL -	MANUFACTURER STANDARD	NA001_03	1	DETAILS ON SHEET 028 TYPICAL 03
04	- <2> -	- <2>	- <2>	- <2>	- - <2>
05	FEED-THROUGH TYPE TERMINAL SCREW TYPE - GREY COLOUR - SECTION 6mm²	PHOENIX CONTACT UT 6	NA001_05	9	TB-PS1_S ÷ TB-PS3_S (INTERNAL LABEL) EXTERNAL LABEL NOT REQUIRED
06	INTERPOSING RELAY FOR HEATER CUT-OUT COIL - 240Vac - 50Hz - 2 CONTACTS	PHOENIX CONTACT PLC-RCS-230UC/21-21 PXC.2967099	NA001_06	1	KTHG_S (INTERNAL LABEL) EXTERNAL LABEL NOT REQUIRED
07	2 POLES COMMON BOX - 7 CONNECTION EACH POLE -	CABUR QBLOCK2P100A7	NA001_07	1	CB_SER_S (INTERNAL LABEL) EXTERNAL LABEL NOT REQUIRED
08	PURE Id CIRCUIT BREAKER WITH AUXILIARY CONTACT 2 POLES - 240Vac - 50Hz - 25A - Id: 30mA	EATON FAZ SERIES	NA001_08	1	Q1 (INTERNAL LABEL) EXTERNAL LABEL NOT REQUIRED
09	AUTOMATIC MAGNETO-THERMAL CIRCUIT BREAKER - 115Vac / 240Vac <2> WHIT AUXILIARY CONTACT	EATON FAZ SERIES	NA001_09	8	Q2 ÷ Q9 (INTERNAL LABEL) EXTERNAL LABEL NOT REQUIRED
10	DISTRIBUTION TERMINALS - SCREW TYPE - SECTION 2.5mm² FEED THROUGH TYPE - GREY COLOUR	PHOENIX CONTACT UT 2.5 PXC.3044076	NA001_10	2	TB-Q4 (INTERNAL LABLE) EXTERNAL LABEL NOT REQUIRED
11	SERVICE SOCKET INCLUDING SOCKET DIN MOUNTING KIT	MANUFACTURER STANDARD	NA001_11	1	SK1 (INTERNAL LABEL) EXTERNAL LABEL NOT REQUIRED
12	SERVER (CI-CORE & IAMS) -	<2> DELL GP4SY	NA001_12	3	<2> CISVR01-CISVR02-IAMSSVR (INTERNAL LABEL) EXTERNAL LABEL NOT REQUIRED
13	SERVER (PCS + SIS, FGS) <2> -	<2> DELL GP4SY	NA001_13	1	<2> EWS0164 (INTERNAL LABEL) EXTERNAL LABEL NOT REQUIRED
14	8-PORT SLIDEAWAY 17" LCDKVM SWITCH -	ATEN CL1008M	NA001_14	1	KVM1 (INTERNAL LABEL) EXTERNAL LABEL NOT REQUIRED

REV	DATE	PREPARED	CHECKED	APPROVED	DESCRIPTION
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YOKOGAWA◆ PROJECT Nr. E36672C00
DESCRIPTION: E366772C00-ITER_NLO

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
& WIRING DIAGRAM
SERVER MAIN COMPONENT LIST

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

SCALE : 1

A3

DRAWING NO. 1724000594-IN-DA-00011

SHEET 034

REV. 02

SERVER PANEL COMPONENT LIST

POS.	DESCRIPTION	MANUFACTURER TYPE & MODEL	SHIPPING BOM MARK	Q.TY	NAMEPLATE
15	LANTIME NTP SERVER INCOL.2x 10/100 MBIT PORTS + GPS ANTENNA -	<2> MEINBERG LANTIME M1000-IMS	NA001_15	1	<2> NTP (INTERNAL LABEL) EXTERNAL LABEL NOT REQUIRED
16	RACKMOUNT DISTRIBUTION SOCKETS -	MANUFACTURER STANDARD	NA001_16	4 <2>	<2> SK2÷SK5 (INTERNAL LABEL) EXTERNAL LABEL NOT REQUIRED
17	- -	-	-	-	- -
18	- -	-	-	-	- -
19	- -	-	-	-	- -
20	- -	-	-	-	- -
21	- -	-	-	-	- -
22	- -	-	-	-	- -
23	- -	-	-	-	- -
24	- -	-	-	-	- -
25	- -	-	-	-	- -
26	- -	-	-	-	- -
27	- -	-	-	-	- -
28	- -	-	-	-	- -

REV	DATE	PREPARED	CHECKED	APPROVED	DESCRIPTION
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YOKOGAWA◆ PROJECT Nr. E36672C00
DESCRIPTION: E366772C00-ITER_NLO

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
& WIRING DIAGRAM
SERVER MAIN COMPONENT LIST

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

SCALE : 1

A3

DRAWING NO. 1724000594-IN-DA-00011

SHEET 035

REV. 02

NETWORK PANEL COMPONENT LIST

POS.	DESCRIPTION	MANUFACTURER TYPE & MODEL	SHIPPING BOM MARK	Q.TY	NAMEPLATE
01	REMOVABLE LIFTING LUGS -	MANUFACTURER STANDARD	NA001_01	4	MECHANICAL PART NAMEPLATE NOT REQUIRED
02	CABINET MANUFACTURER LABEL -	MANUFACTURER STANDARD	NA001_02	1	DETAILS ON SHEET 033 <1> TYPICAL 02
03	SECTION IDENTIFICATION LABEL -	MANUFACTURER STANDARD	NA001_03	1	DETAILS ON SHEET 028 TYPICAL 03
04	AIR INLET FILTER -	AUGER STANDARD	NA001_04	1	MECHANICAL PART NAMEPLATE NOT REQUIRED
05	FRONT-MOUNTED AIR EXTRACTOR FAN (SUPPLIED WITH AIR FILTER) -	AUGER STANDARD	NA001_05	1	EV (INTERNAL LABEL) EXTERNAL LABEL NOT REQUIRED
06	PRE-ASSEMBLED RELAY BOARD FOR FAN FAULT CIRCUIT -	PREI	NA001_06	1	FRB (INTERNAL LABEL) EXTERNAL LABEL NOT REQUIRED
07	- <1> -	- <1>	- <1>	- <1>	- <1> -
08	THERMOSTAT FOR FAN ON/OFF CIRCUIT -	MANUFACTURER STANDAR	NA001_08	1	<1> TH (INTERNAL LABEL) EXTERNAL LABEL NOT REQUIRED
09	THERMOSTAT FOR HIGH TEMPERATURE ALARM -	MANUFACTURER STANDARD	NA001_09	1	<1> THH (INTERNAL LABEL) EXTERNAL LABEL NOT REQUIRED
10	FEED-THROUGH TYPE TERMINAL SCREW TYPE - GREY COLOUR - SECTION 6mm²	PHOENIX CONTACT UT 6	NA001_10	9	TB-PS1_N ÷ TB-PS3_N (INTERNAL LABEL) EXTERNAL LABEL NOT REQUIRED
11	POWER SUPPLY FEEDER MODULE INPUT 230Vac (AUTO-RANGING) - OUTPUT 24Vdc-20a	WEIDMULLER QUINT4-PS/1AC/24DC/20 WDM.1469510000	NA001_11	2	G1 ÷ G2 (INTERNAL LABEL) EXTERNAL LABLE NOT REQUIRED
12	DECOUPLING & PROTECTIVE DIODE FOR REDUNDANCY - 24Vdc -	WEIDMULLER PRO DM 20 WDM.2486080000	NA001_12	2	VD1 - VD2 (INTERNAL LABEL) EXTERNAL LABLE NOT REQUIRED
13	PURE Id CIRCUIT BREAKER WITH AUXILIARY CONTACT 2 POLES - 240Vac - 50Hz - 25A - Id: 30mA	EATON FAZ SERIES	NA001_13	1	Q50 (INTERNAL LABEL) EXTERNAL LABEL NOT REQUIRED
14	AUTOMATIC MAGNETO-THERMAL CIRCUIT BREAKER - 115Vac / 240Vac <1> WHIT AUXILIARY CONTACT	EATON FAZ SERIES	NA001_14	13	Q51 ÷ Q63 (INTERNAL LABEL) EXTERNAL LABEL NOT REQUIRED

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YOKOGAWA◆ PROJECT Nr. E36672C00
DESCRIPTION: E366772C00-ITER_NLO

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
& WIRING DIAGRAM
NETWORK MAIN COMPONENT LIST

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

SCALE : 1

A3

DRAWING NO. 1724000594-IN-DA-00011

SHEET 036

REV. 02

NETWORK PANEL COMPONENT LIST

POS.	DESCRIPTION	MANUFACTURER TYPE & MODEL	SHIPPING BOM MARK	Q.TY	NAMEPLATE
15	2 POLES COMMON BOX - 7 CONNECTION EACH POLE -	CABUR QBLOCK2P100A7	NA001_15	2	CB_SER_N - CB_24Vdc_N (INTERNAL LABEL) EXTERNAL LABEL NOT REQUIRED
16	SERVICE SOCKET INCLUDING SOCKET DIN MOUNTING KIT	MANUFACTURER STANDARD	NA001_16	1	<1> SK6 (INTERNAL LABEL) EXTERNAL LABEL NOT REQUIRED
17	DISTRIBUTION TERMINALS - SCREW TYPE - SECTION 2.5mm² FEED THROUGH TYPE - GREY COLOUR	PHOENIX CONTACT UT 2.5 PXC.3044076	NA001_17	32	TB-Q53 TB-54 - X24L-N (INTERNAL LABLE) EXTERNAL LABEL NOT REQUIRED
18	TRASFORMER 240Vac / 24Vac - 50Hz -	ABB TM10 EA2616	NA001_18	1	T1_N (INTERNAL LABEL) EXTERNAL LABEL NOT REQUIRED
19	TERMINALS - SCREW TYPE - SECTION 4mm² FUSE DISCONNECT TYPE - BLACK COLOUR	PHOENIX CONTACT UT 4 HESI PXC.3046032	NA001_19	2	TB-FU_N (INTERNAL LABEL) EXTERNAL LABEL NOT REQUIRED
20	INTERPOSING RELAY FOR HEATER CUT-OUT COIL - 240Vac - 50Hz - 2 CONTACTS	PHOENIX CONTACT PLC-RCS-230UC/21-21 PXC.2967099	NA001_20	1	KTHG_N (INTERNAL LABEL) EXTERNAL LABEL NOT REQUIRED
21	TERMINALS - SCREW TYPE - SECTION 2.5mm²<1> KNIFE DISCONNECT TYPE - GREY COLOUR <1>	PHOENIX CONTACT UT 2.5 MT <1> PXC.3045362	NA001_21	12 <1>	<1> X-FAULT (INTERNAL LABEL) EXTERNAL LABEL NOT REQUIRED
22	DISTRIBUTION TERMINALS - FUSED TYPE - SECTION 4mm²<1> FUSED TYPE - BLACK COLOUR <1>	PHOENIX CONTACT <1> UT 4-HESI PXC.3046032	NA001_22	24 <1>	<1>X24L+N (INTERNAL LABLE) EXTERNAL LABEL NOT REQUIRED
23	MANAGED SWITCH 24 PORT 2XSFP -	HIRSCHMANN <1> BRS40	NA001_23	10	COMSWL2-0009÷0012-SERVSWL2-002÷003-MODBUSSW <1>PROFINETSW-PINSWL2-001÷002 (INTERNAL LABEL) EXTERNAL LABEL NOT REQUIRED
24	FORTIGATE FIREWALL 8X PORTS -	FORTINET <1> FG-80F	NA001_26	2	<1>FW-003÷FW-004 (INTERNAL LABEL) EXTERNAL LABEL NOT REQUIRED
25	PATCH PANEL 12X LC DUPLEX <1> -	TECNOFIBER <1> TCK-LAN	NA001_25	2	<1>FOPP-001-FOPP-002 (INTERNAL LABEL) EXTERNAL LABEL NOT REQUIRED
26	FORTIGATE FIREWALL 4X PORTS -	FORTINET <1> FG-40F	NA001_26	2	<1>FW-001÷FW-002 (INTERNAL LABEL) EXTERNAL LABEL NOT REQUIRED
27	SWITCH 24 PORT (Vnet / IP) -	YOKOGAWA <1> GRS105	NA001_27	4	<1>SNSWL2-003÷004-CNSWL2-001÷002 (INTERNAL LABEL) EXTERNAL LABEL NOT REQUIRED
28	RACKMOUNT DISTRIBUTION SOCKETS -	MANUFACTURER STANDAR	NA001_28	4	<1>SK7÷SK10 (INTERNAL LABEL) EXTERNAL LABEL NOT REQUIRED

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YOKOGAWA◆ PROJECT Nr. E36672C00
DESCRIPTION: E366772C00-ITER_NLO

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
& WIRING DIAGRAM
NETWORK MAIN COMPONENT LIST

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

SCALE : 1

A3

DRAWING NO. 1724000594-IN-DA-00011

SHEET 037

REV. 02

NETWORK PANEL COMPONENT LIST

POS.	DESCRIPTION	MANUFACTURER TYPE & MODEL	SHIPPING BOM MARK	Q.TY	NAMEPLATE
29	PPC Industrial PC -	SEL <1> SEL-3555	NA001_29	2	<1> EMCSSVR1 - EMCSSVR2 (INTERNAL LABEL) EXTERNAL LABEL NOT REQUIRED
30	- -	-	NA001_30	-	- -
31	- -	-	NA001_31	-	- -
32	- -	-	NA001_32	-	- -
33	- -	-	NA001_33	-	- -
34	- -	-	NA001_34	-	- -
35	- -	-	NA001_35	-	- -
36	- -	-	NA001_36	-	- -
37	- -	-	NA001_37	-	- -
38	- -	-	NA001_38	-	- -
39	- -	-	NA001_39	-	- -
40	- -	-	NA001_40	-	- -
41	- -	-	NA001_41	-	- -
42	- -	-	NA001_42	-	- -

REV	DATE	PREPARED	CHECKED	APPROVED	DESCRIPTION
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YOKOGAWA◆ PROJECT Nr. E36672C00
DESCRIPTION: E366772C00-ITER_NLO

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
& WIRING DIAGRAM
NETWORK MAIN COMPONENT LIST

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

SCALE : 1

A3

DRAWING NO. 1724000594-IN-DA-00011

SHEET 038

REV. 02

LEGEND AND ABBREVIATIONS

SYMBOL	DESCRIPTION
	PCS/SIS/FGS VNET/IP BUS 1
	PCS/SIS/FGS VNET/IP BUS 2
	PIN NETWORK
	SERVICE NETWORK
	NTP CONNECTION
	OPC UA 01
	MODBUS TCP/IP – CCS
	IEC 61850 NETWORK
	PROFINET NETWORK FOR CCS & FOR EMCS
	FO PATCH CORDS (MULTI MODE)
	FO PATCH CORDS (SINGLE MODE)
	SERVER
	TIME SERVER
	EMCS SERVER
	FOPP
	MANAGED SWITCH L2, 8 PORT GB, 2X SFP
	MANAGED SWITCH L2, 24 PORT GB, 2X SFP
	FIREWALL WITH 4X GE RJ45 PORTS
	FIREWALL WITH 12X GE RJ45 PORTS
	L2 SWITCH 24 PORT (Vnet/IP)
	FIELD CONTROL STATION (FCS)
	FIELD CONTROL STATION (FCS)
	SAFETY CONTROL STATION (SCS)
	ELECTRICAL MONITORING & CONTROL STATION (EMCS)
	MANAGED SWITCH 16 PORT
	WORKSTATION
	PRINTER

ACRONYMS	DESCRIPTION
AVSVR	ANTI VIRUS SERVER
BCKSVR	BACKUP SERVER
CIP	COLLABORATIVE INFORMATION PORTAL
CIPO	COLLABORATIVE INFORMATION PORTAL
CIPOSVR	COLLABORATIVE INFORMATION PORTAL SERVER
CISVR	COLLABORATIVE INFORMATION SERVER
CNSW	CONTROL NETWORK SWITCH
CRPRT	COLOUR PRINTER
DCSVR	DOMAIN CONTROLLER SERVER
DMZSW	DE–MILITARIZED ZONE SWITCH
EWS	ENGINEERING WORK STATION
FCS	FIELD CONTROL STATION
FOPP	FIBER OPTIC PATCH PANEL
FW	FIREWALL
IAMSCLT	INSTRUMENT ASSET MANAGEMENT SYSTEM CLIENT
IAMSSVR	INSTRUMENT ASSET MANAGEMENT SYSTEM SERVER
L2	LAYER 2
NMSVR	NETWORK MANAGEMENT SERVER
NU	NODE UNIT
PIN	PLANT INFORMATION NETWORK
PINSW	PIN SWITCH
SCS	SAFETY CONTROL STATION
SERVFW	SERVER FIREWALL
SERVSW	SERVER SWITCH
SNSW	SAFETY NETWORK SWITCH
SVR	SERVER
SW	SWITCH
TMSVR	TIME SERVER
WSUSSVR	WINDOWS SECURITY UPDATE SERVICES SERVER
REWSSVR	REMOTE ENGINEERING WORKSTATION

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CROSSWIND

ROSETTI MARINO

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	26/09/24	SK	MP/AB	SC	ISSUE FOR REVIEW (IFR)
00	31/05/24	SK	MP/AB	SC	ISSUE FOR REVIEW (IFR)

TITLE : BASE LOAD POWER HUB (BLPH)
NETWORK CONNECTION DIAGRAM
LEGEND AND ABBREVIATIONS

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

SCALE : NTS

A3

DRAWING NO. 1724000594–IN–DG–00016

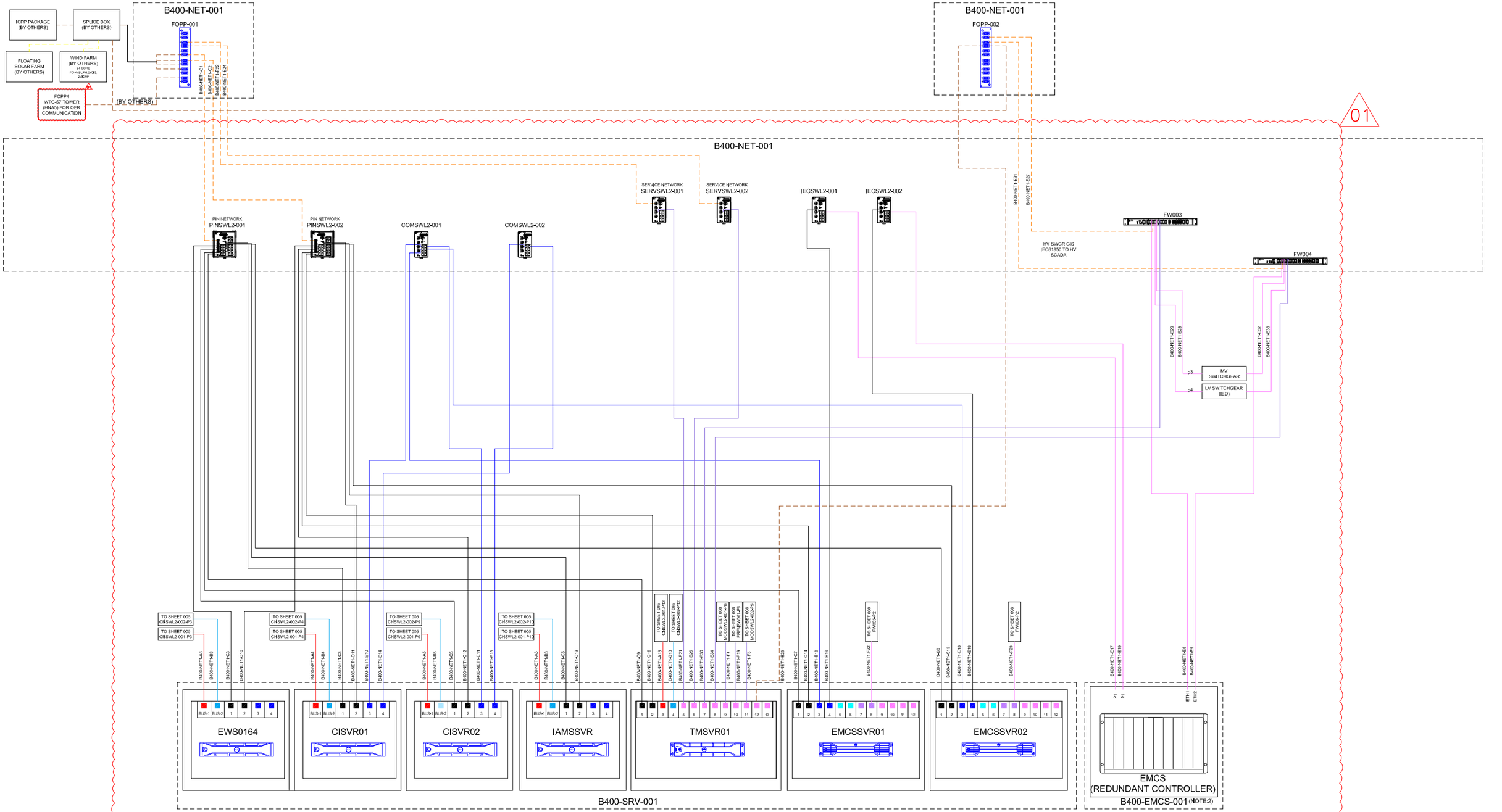
SHEET 003

REV. 01

File Name : 1724000594–IN–DG–00016

F.to UNI A3: 420mmx297mm

NETWORK CONNECTION DIAGRAM (1 of 2) - ITER AREA



REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	26/09/24	SK	MP/AB	SC	ISSUE FOR REVIEW (IFR)
00	31/05/24	SK	MP/AB	SC	ISSUE FOR REVIEW (IFR)

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CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
NETWORK CONNECTION DIAGRAM
NETWORK CONNECTION DIAGRAM (1 of 2) – ITER AREA

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

SCALE : NTS

A3

DRAWING NO. 1724000594-IN-DG-00016

SHEET 004

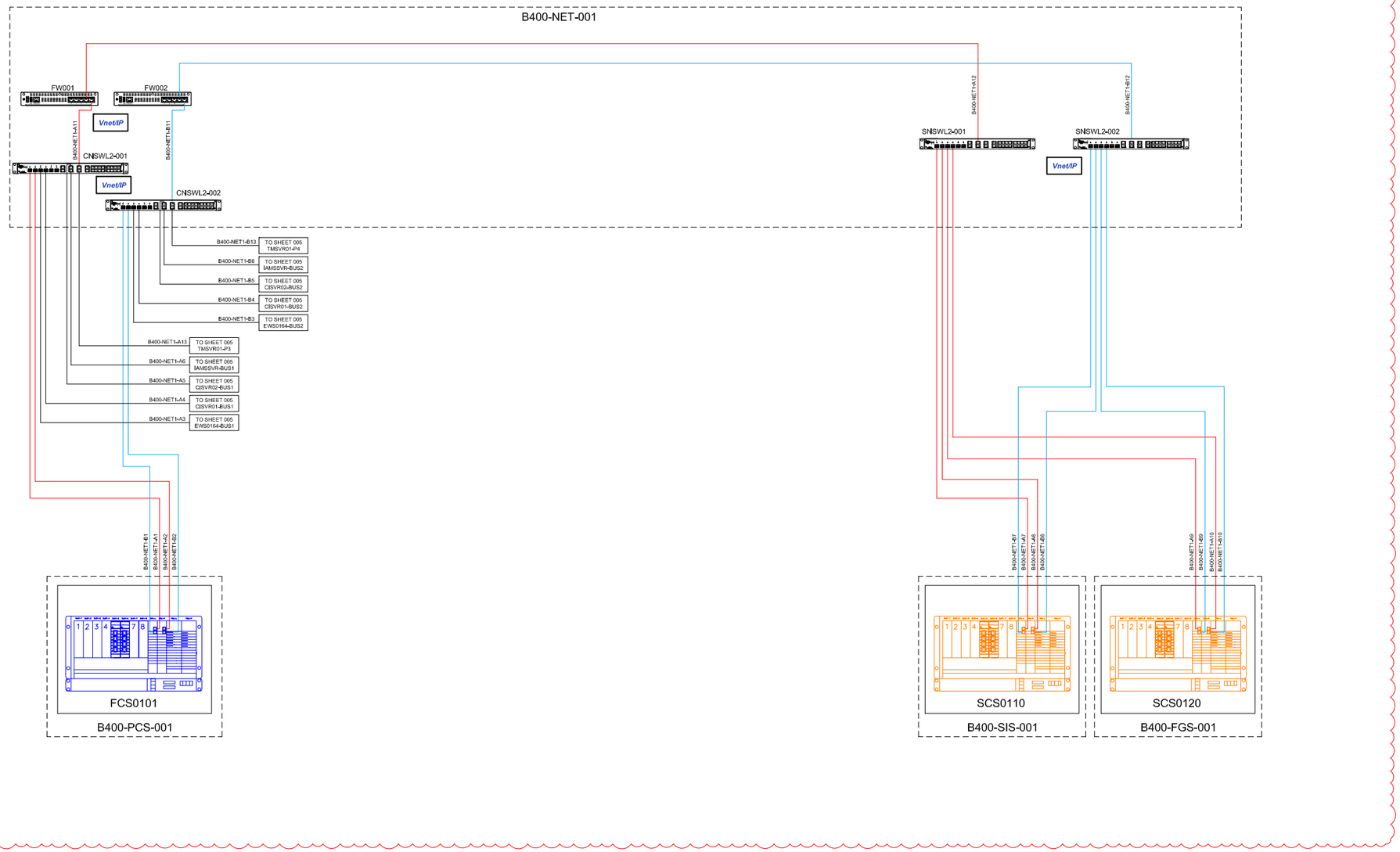
REV. 01

File Name : 1724000594-IN-DG-00016

F.to UNI A3: 420mmx297mm

NETWORK CONNECTION DIAGRAM (2 of 2) - ITER AREA

01



REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	26/09/24	SK	MP/AB	SC	ISSUE FOR REVIEW (IFR)
00	31/05/24	SK	MP/AB	SC	ISSUE FOR REVIEW (IFR)

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CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
NETWORK CONNECTION DIAGRAM
NETWORK CONNECTION DIAGRAM (2 of 2) – ITER AREA

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

SCALE : NTS

A3

DRAWING NO. 1724000594-IN-DG-00016

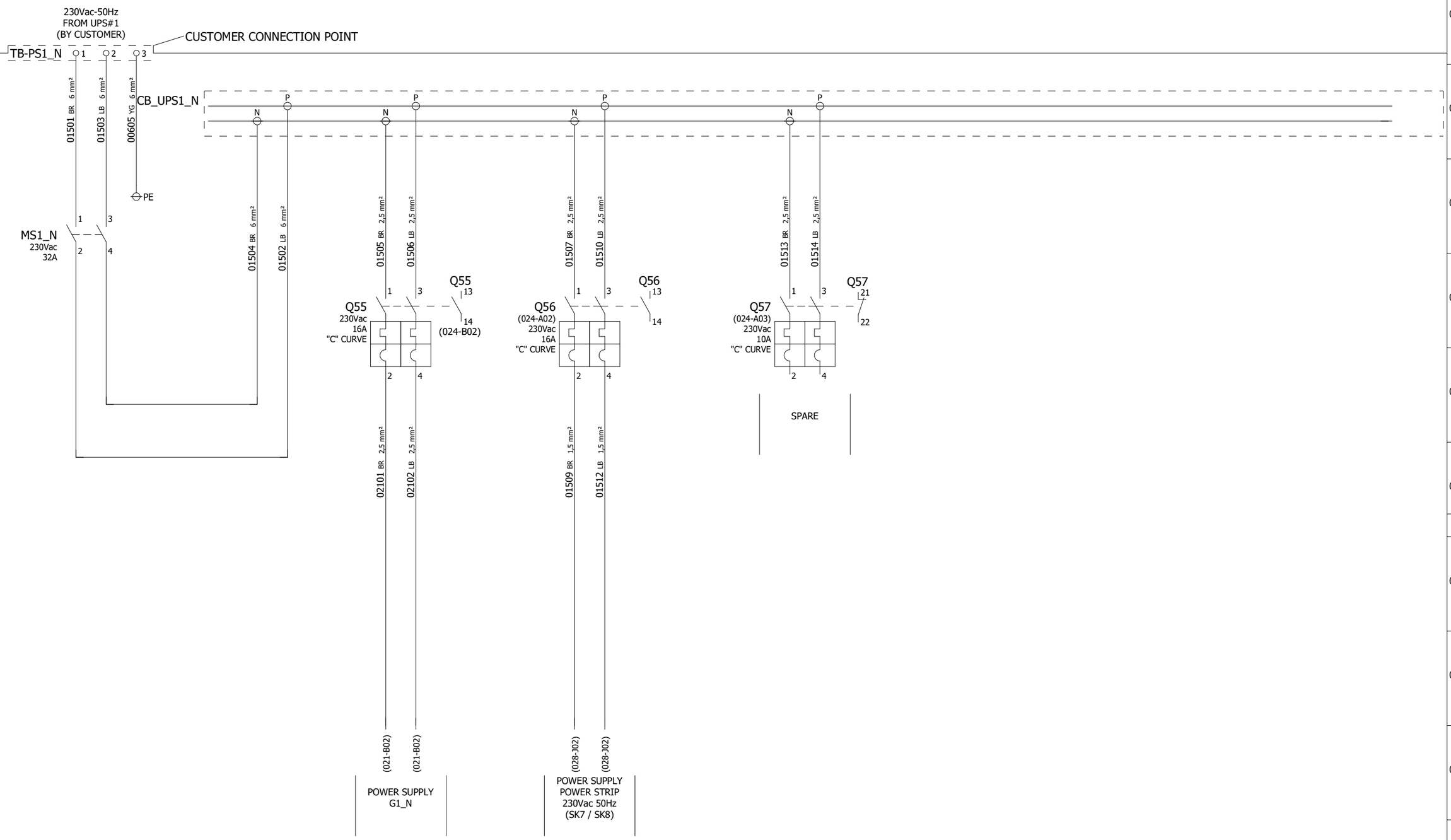
SHEET 005

REV. 01

File Name : 1724000594-IN-DG-00016

F.to UNI A3: 420mmx297mm

NET PANEL - POWER DISTRIBUTION FROM UPS LINE 1



REV	DATE	PREPARED	CHECKED	APPROVED	DESCRIPTION
1	19.09.2024	A.G.	A.B.	S.C.	ISSUE FOR REVIEW (IFR)
0	21.06.2024	A.G.	A.B.	S.C.	ISSUE FOR APPROVAL

YOKOGAWA◆ PROJECT Nr. E36672C00
DESCRIPTION: E366772C00-ITER_NC_WD

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
NET.&SERV. CABINETS IN ITER WIRING DIAGRAMS AND TERMINAL STRIPS
NET. PANEL - 230Vac POWER DISTRIBUTION FROM UPS LINE 1

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

SCALE : 1

A3

DRAWING NO. 1724000594-IN-DG-00022

SHEET 015

REV. 1

NET PANEL - POWER DISTRIBUTION FROM UPS LINE 2

230Vac-50Hz
FROM UPS#2
(BY CUSTOMER)

CUSTOMER CONNECTION POINT

TB-PS2_N 1 2 3

01601 BR 6 mm²
01603 LB 6 mm²
00605 YG 6 mm²

CB_UPS2_N

PE

MS2_N
230Vac
32A

01604 BR 6 mm²
01602 LB 6 mm²

01605 BR 2,5 mm²
01606 LB 2,5 mm²

Q58
230Vac
16A
"C" CURVE
(024-B03)

01607 BR 2,5 mm²
01610 LB 2,5 mm²

Q59
(024-C03)
230Vac
16A
"C" CURVE

01613 BR 2,5 mm²
01614 LB 2,5 mm²

Q60
(021-B08)
230Vac
10A
"C" CURVE

SPARE

02103 BR 2,5 mm² (021-H02)
02104 LB 2,5 mm² (021-H02)

POWER SUPPLY
G2_N

01609 BR 1,5 mm² (028-K02)
01612 LB 1,5 mm² (028-K02)

POWER SUPPLY
POWER STRIP
230Vac 50Hz
(SK9 / SK10)

REV	DATE	PREPARED	CHECKED	APPROVED	DESCRIPTION
1	19.09.2024	A.G.	A.B.	S.C.	ISSUE FOR REVIEW (IFR)
0	21.06.2024	A.G.	A.B.	S.C.	ISSUE FOR APPROVAL

YOKOGAWA◆ PROJECT Nr. E36672C00
DESCRIPTION: E366772C00-ITER_NC_WD

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
NET.&SERV. CABINETS IN ITER WIRING DIAGRAMS AND TERMINAL STRIPS
NET. PANEL - 230Vac POWER DISTRIBUTION FROM UPS LINE 2

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

SCALE : 1

A3

DRAWING NO. 1724000594-IN-DG-00022

SHEET 016

REV. 1

NET PANEL - POWER DISTRIBUTION FROM NON UPS

230Vac-50Hz
FROM MCC
(BY CUSTOMER)

TB-PS3_N 1 2 3 — CUSTOMER CONNECTION POINT

01701 BR 6 mm² — 01703 LB 6 mm² — 00605 YG 6 mm² — PE

CB_SER_N (018-A01)

P N — (018-A01)

P N — (018-A01)

01704 LB 6 mm² — 01702 BR 6 mm²

Q50

Q50 230Vac 25A Id 30mA — (024-G02)

Q51

01705 BR 2.5 mm² — 01707 LB 2.5 mm²

Q51 230Vac 16A "C" CURVE — (024-F02)

01706 BR 2.5 mm² — 01708 LB 2.5 mm²

SK6 — 00605 YG 2,5 mm² — PE

SERVICE SOCKET
230Vac 50Hz

Q52

01709 BR 2.5 mm² — 01713 LB 2.5 mm²

Q52 230Vac 2A "C" CURVE — (024-E02)

01710 BR 1.5 mm²

S1_N 11 12

01711 BR 1.5 mm² — 01712 LB 1.5 mm²

H1_N x1 x2

INTERNAL LIGHT
230Vac 50Hz
TOTAL CONSUMPTION: 15W

Q53

01714 BR 2.5 mm² — 01715 LB 2.5 mm²

Q53 230Vac 4A "C" CURVE — (024-D02)

SPARE

NOTE:
INTERNAL LAMP IS DOUBLE INSULATION DEVICE.
NO EARTH CONNECTION REQUIRED.

REV	DATE	PREPARED	CHECKED	APPROVED	DESCRIPTION
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YOKOGAWA◆ PROJECT Nr. E36672C00
DESCRIPTION: E366772C00-ITER_NC_WD

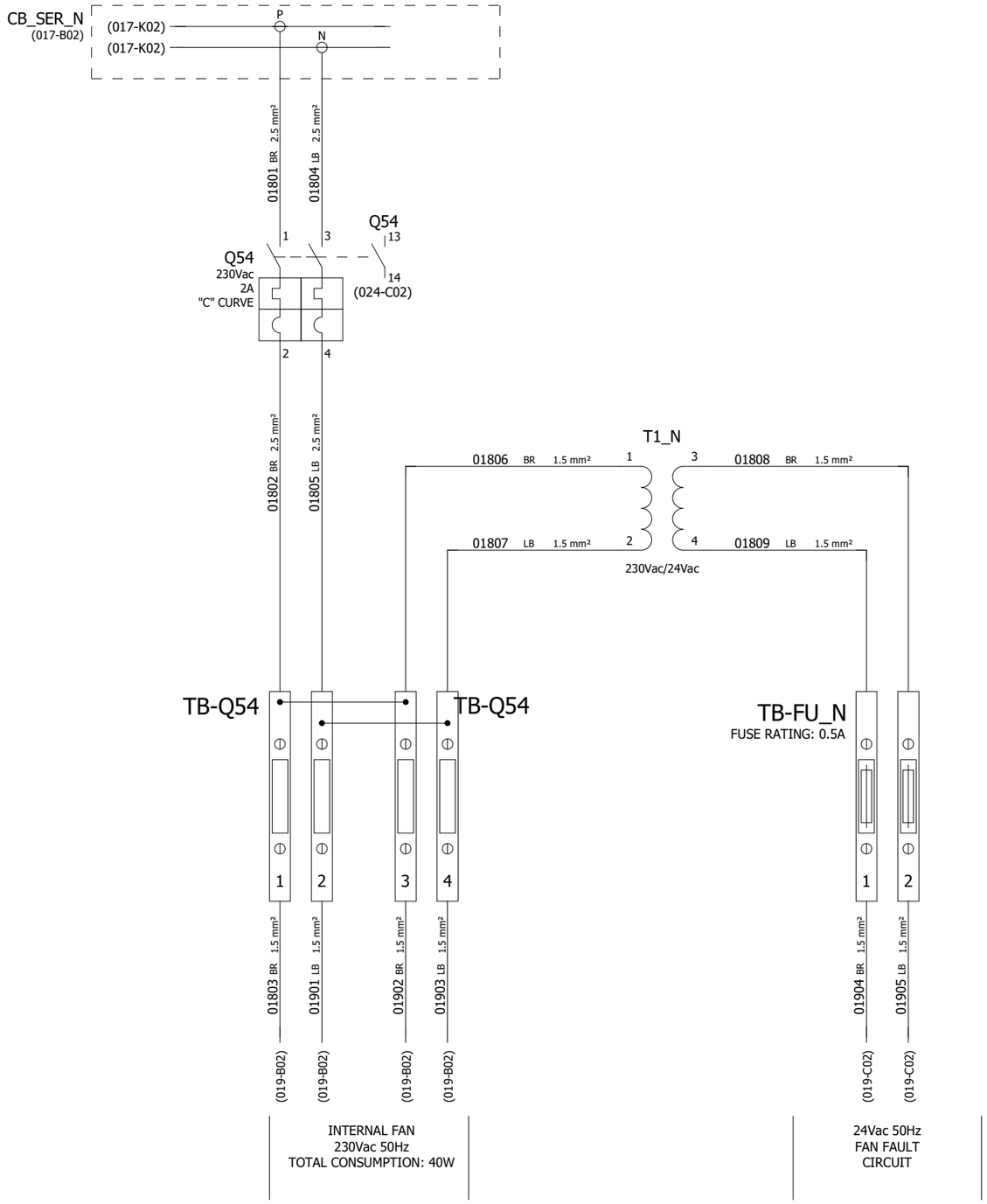
CROSSWIND — ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
NET.&SERV. CABINETS IN ITER WIRING DIAGRAMS AND TERMINAL STRIPS
NET. PANEL - 230Vac POWER DISTRIBUTION FROM NON-UPS

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

A3 — DRAWING NO. 1724000594-IN-DG-00022 — SHEET 017 — REV. 1

NET PANEL - POWER DISTRIBUTION FROM NON UPS



REV	DATE	PREPARED	CHECKED	APPROVED	DESCRIPTION
1	19.09.2024	A.G.	A.B.	S.C.	ISSUE FOR REVIEW (IFR)
0	21.06.2024	A.G.	A.B.	S.C.	ISSUE FOR APPROVAL

YOKOGAWA◆ PROJECT Nr. E36672C00
DESCRIPTION E366772C00-ITER_NC_WD

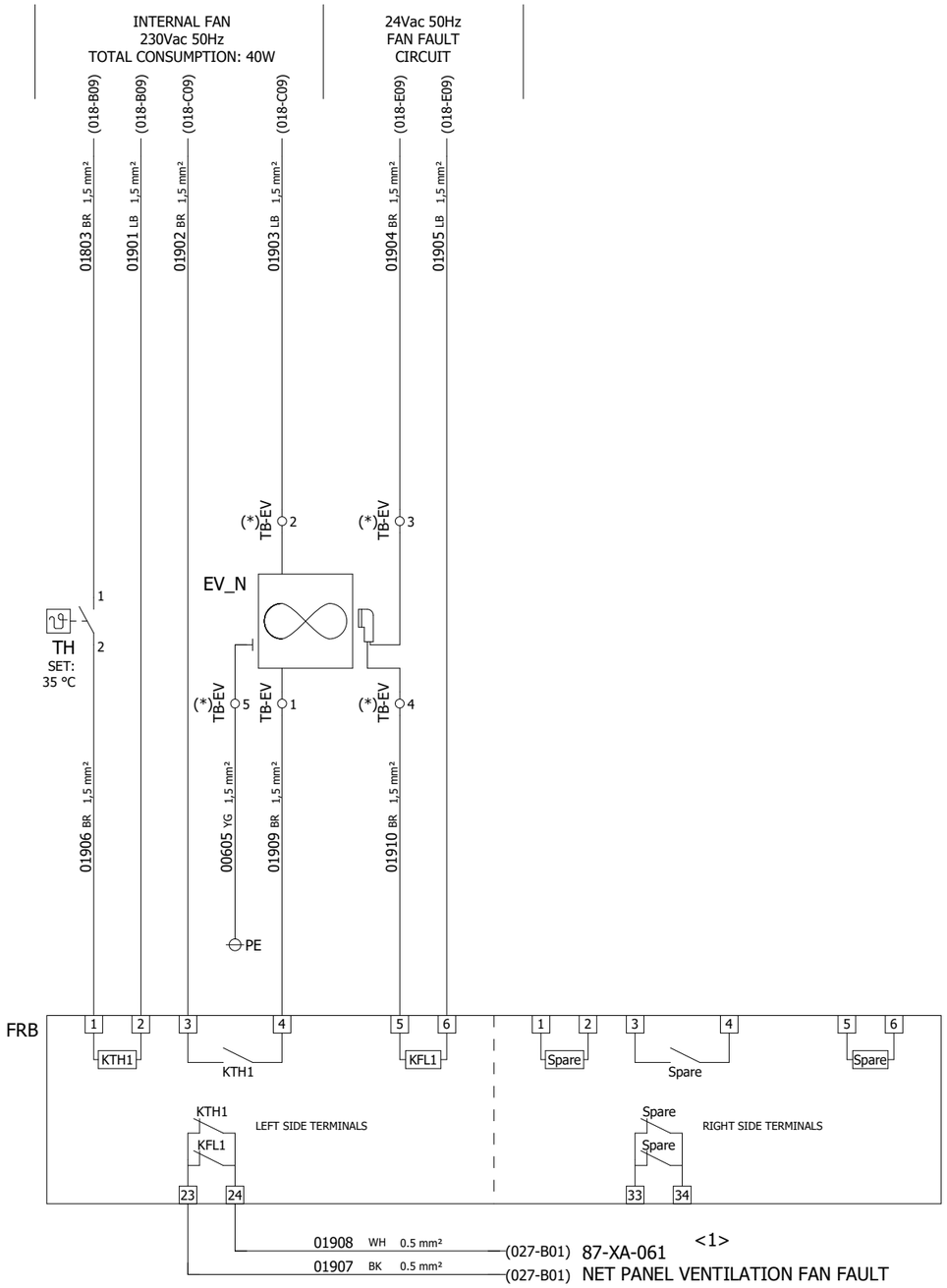
CROSSWIND ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
NET.&SERV. CABINETS IN ITER WIRING DIAGRAMS AND TERMINAL STRIPS
NET. PANEL - 230Vac POWER DISTRIBUTION FROM NON-UPS

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

A3 | DRAWING NO. 1724000594-IN-DG-00022 | SHEET 018 | REV. 1

NET PANEL - 230Vac 50Hz POWER DISTRIBUTION VENTILATION FAN



NOTE (*):
TB-EV IS A FEED THROUGH TERMINAL BOARD FOR
PRE-WIRED ITEMS CONNECTION. FOR THIS REASON,
WIRE NUMBERS WILL BE THE SAME ON BOTH SIDES.

REV	DATE	PREPARED	CHECKED	APPROVED	DESCRIPTION
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YOKOGAWA◆ PROJECT Nr. E36672C00
DESCRIPTION: E366772C00-ITER_NC_WD

CROSSWIND

ROSETTI MARINO

TITLE :
BASE LOAD POWER HUB (BLPH)
NET.&SERV. CABINETS IN ITER WIRING DIAGRAMS AND TERMINAL STRIPS
NET. PANEL - 230Vac 50Hz POWER DISTRIBUTION VENTILATION FAN

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

SCALE : 1

A3

DRAWING NO.
1724000594-IN-DG-00022

SHEET 019

REV. 1

SHEET LEFT INTENTIONALLY BLANK

REV	DATE	PREPARED	CHECKED	APPROVED	DESCRIPTION
1	19.09.2024	A.G.	A.B.	S.C.	ISSUE FOR REVIEW (IFR)
0	21.06.2024	A.G.	A.B.	S.C.	ISSUE FOR APPROVAL

YOKOGAWA◆ PROJECT Nr. E36672C00
DESCRIPTION E366772C00-ITER_NC_WD

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
NET.&SERV. CABINETS IN ITER WIRING DIAGRAMS AND TERMINAL STRIPS SPARE PAGE

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

SCALE : 1

A3

DRAWING NO. 1724000594-IN-DG-00022

SHEET 020

REV. 1

NET PANEL - 230Vac/24Vdc POWER DISTRIBUTION

POWER SUPPLY LINE
230Vac 50Hz
FROM UPS#1

02101 BR 2,5 mm² (015-D09)
02102 LB 2,5 mm² (015-D09)

G1
IN: 230Vac
OUT: 24Vdc
480W
20A
WEIDMULLER PRO ECO
code 1469510000

L(+) N(-) AC DC 13 14 PE + + - -

02113 WH 1 mm² (027-B02)
02114 WH 1 mm²
00605 YG 2,5 mm² PE

02105 RD 4 mm²
02107 BU 4 mm²
02106 RD 4 mm²
02110 BU 4 mm²

VD1
20A
WEIDMULLER PRO DM 20
code 2486080000

IN1+ IN1- IN2+ IN2- 13 14 OUT+ OUT-

02115 WH 1 mm²

02108 RD 6 mm²
02111 BU 6 mm²

Q60
(016-F04)
24Vdc
32A
1 3 2 4 13 14 (024-G04)

Q60

02109 RD 6 mm²
02112 BU 6 mm²

CB_24Vdc_N
(022-A01)
(022-A06)
+ -

<1>
87-XA-062
SYS PANEL POWER SUPPLY
24Vdc FAILURE

POWER SUPPLY LINE
230Vac 50Hz
FROM UPS#2

02103 BR 2,5 mm² (016-D09)
02104 LB 2,5 mm² (016-D09)

G2
IN: 230Vac
OUT: 24Vdc
480W
20A
WEIDMULLER PRO ECO
code 1469510000

L(+) N(-) AC DC 13 14 PE + + - -

02124 WH 1 mm²
00605 YG 2,5 mm² PE

02116 RD 4 mm²
02118 BU 4 mm²
02117 RD 4 mm²
02121 BU 4 mm²

VD2
20A
WEIDMULLER PRO DM 20
code 2486080000

IN1+ IN1- IN2+ IN1- 13 14 OUT+ OUT-

02125 BK 1 mm² (027-B02)

02119 RD 6 mm²
02122 BU 6 mm²

Q61
24Vdc
32A
1 3 2 4 13 14 (024-F04)

Q61

02120 RD 6 mm²
02123 BU 6 mm²

(022-A01)
(022-A06)

<1>
87-XA-062
SYS PANEL POWER SUPPLY
24Vdc FAILURE

REV	DATE	PREPARED	CHECKED	APPROVED	DESCRIPTION
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YOKOGAWA◆ PROJECT Nr. E36672C00
DESCRIPTION E366772C00-ITER_NC_WD

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
NET.&SERV. CABINETS IN ITER WIRING DIAGRAMS AND TERMINAL STRIPS
NET PANEL - 230Vac / 24Vdc POWER DISTRIBUTION

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

SCALE : 1

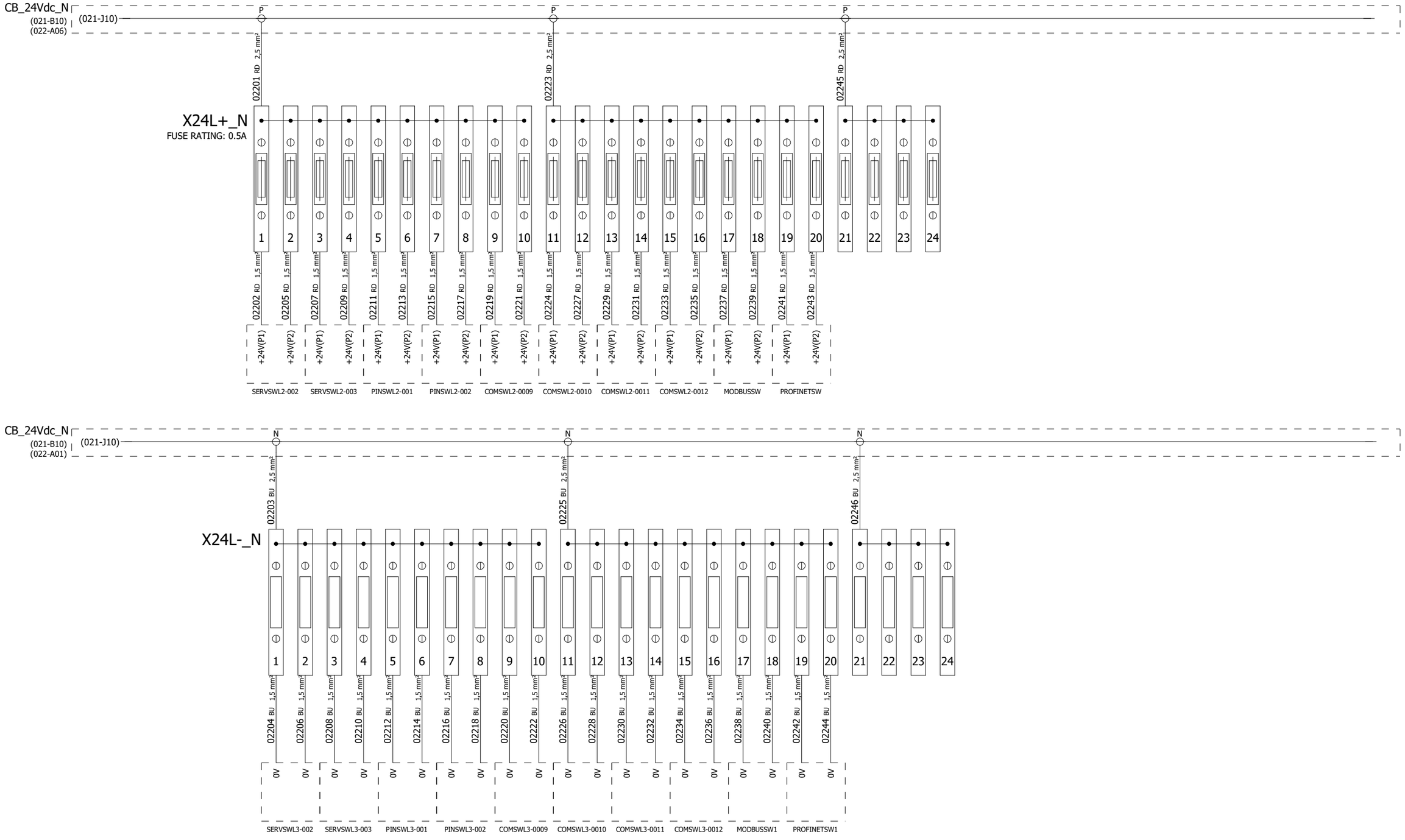
A3

DRAWING NO. 1724000594-IN-DG-00022

SHEET 021

REV. 1

NET PANEL - 230Vac/24Vdc POWER DISTRIBUTION



REV	DATE	PREPARED	CHECKED	APPROVED	DESCRIPTION
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0	21.06.2024	A.G.	A.B.	S.C.	ISSUE FOR APPROVAL

YOKOGAWA◆ PROJECT Nr. E36672C00
DESCRIPTION E366772C00-ITER_NC_WD

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
NET.&SERV. CABINETS IN ITER WIRING DIAGRAMS AND TERMINAL STRIPS
NET. PANEL - POWER STRIPS DISTRIBUTION

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

SCALE : 1

A3

DRAWING NO. 1724000594-IN-DG-00022

SHEET 022

REV. 1

SHEET LEFT INTENTIONALLY BLANK

1	19.09.2024	A.G.	A.B.	S.C.	ISSUE FOR REVIEW (IFR)
0	21.06.2024	A.G.	A.B.	S.C.	ISSUE FOR APPROVAL
REV	DATE	PREPARED	CHECKED	APPROVED	DESCRIPTION

YOKOGAWA◆ PROJECT Nr. E36672C00
DESCRIPTION: E366772C00-ITER_NC_WD

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
NET.&SERV. CABINETS IN ITER WIRING DIAGRAMS AND TERMINAL STRIPS SPARE PAGE

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

SCALE : 1

A3

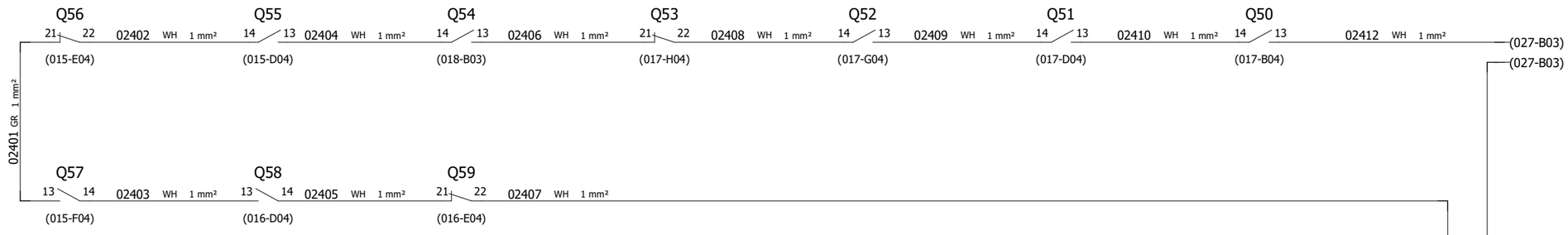
DRAWING NO. 1724000594-IN-DG-00022

SHEET 023

REV. 1

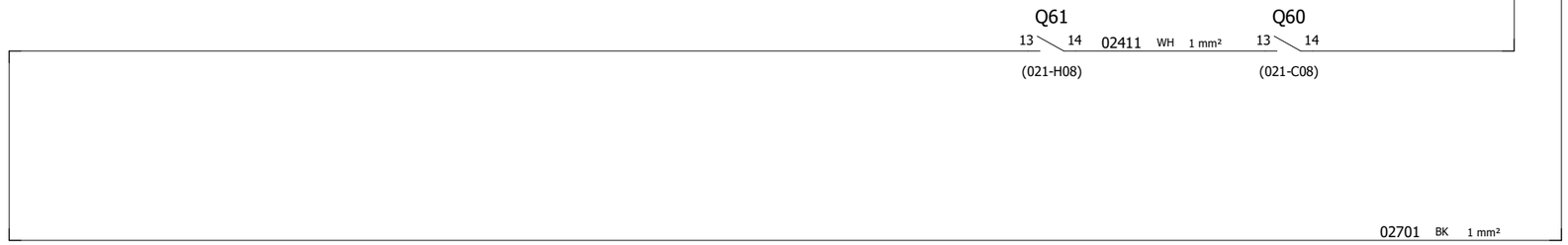
NET PANEL - BRAKER FAULT ALARM CIRCUIT

230Vac CIRCUIT BREAKER



87-XA-063 <1>
SYS PANEL CUMULATIVE
BREAKER FAULT

24Vdc CIRCUIT BREAKER



NOTE : SPARE CIRCUIT BREAKER FAULT CONTACT TO BE CONNECTED ON NORMALLY CLOSE CONTACT.
CHANGE CONNECTION TO NORMALLY OPEN CONTACT WHEN THE BREAKER WILL BE USED

REV	DATE	PREPARED	CHECKED	APPROVED	DESCRIPTION
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YOKOGAWA◆ PROJECT Nr. E36672C00
DESCRIPTION: E366772C00-ITER_NC_WD

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
NET.&SERV. CABINETS IN ITER WIRING DIAGRAMS AND TERMINAL STRIPS
NET PANEL - BREAKER FAULT ALARM CIRCUIT

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

SCALE : 1

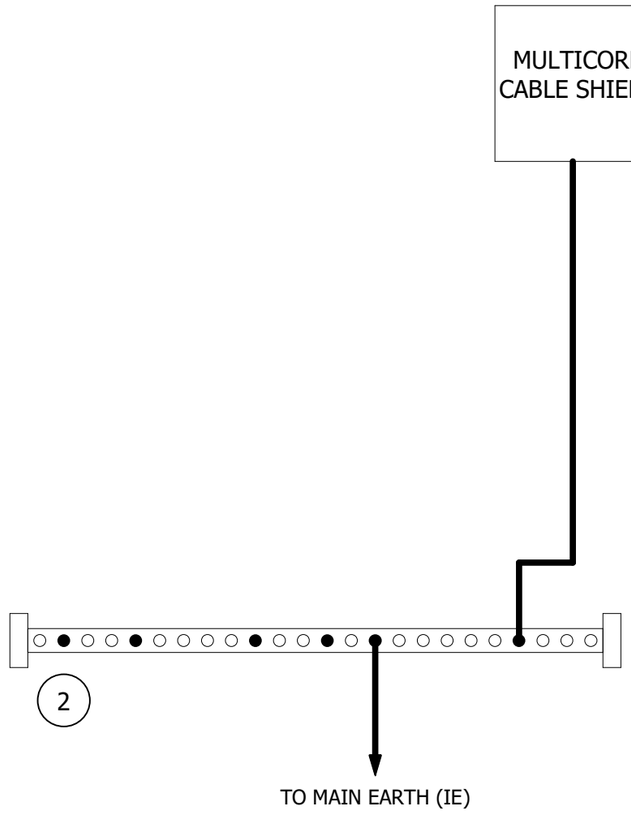
A3

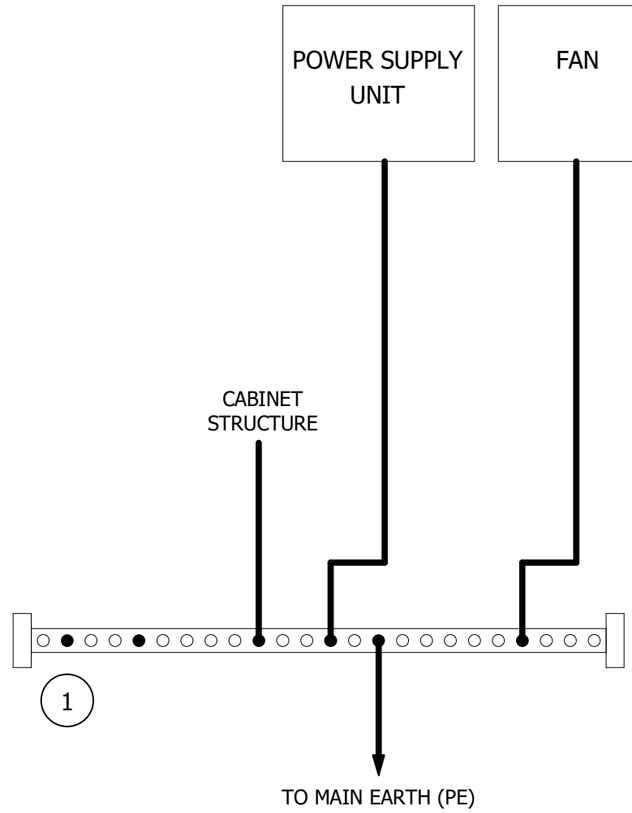
DRAWING NO. 1724000594-IN-DG-00022

SHEET 024

REV. 1

POS.	EARTH TYPE	DESCRIPTION SYSTEM EARTH
1	P.E. EARTH	PROTECTION EARTH (GROUND, FRAME CHASSIS)
2	I.E. EARTH	INSTRUMENTAL EARTH





REV	DATE	PREPARED	CHECKED	APPROVED	DESCRIPTION
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0	21.06.2024	A.G.	A.B.	S.C.	ISSUE FOR APPROVAL

YOKOGAWA◆ PROJECT Nr. E36672C00
DESCRIPTION E366772C00-ITER_NC_WD

CROSSWIND | ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
NET.&SERV. CABINETS IN ITER WIRING DIAGRAMS AND TERMINAL STRIPS
NET PANEL - SHIELD / GROUND CONNECTION

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

A3 | DRAWING NO. 1724000594-IN-DG-00022 | SHEET 025 | REV. 1

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1	19.09.2024	A.G.	A.B.	S.C.	ISSUE FOR REVIEW (IFR)
0	21.06.2024	A.G.	A.B.	S.C.	ISSUE FOR APPROVAL
REV	DATE	PREPARED	CHECKED	APPROVED	DESCRIPTION

YOKOGAWA◆ PROJECT Nr. E36672C00
DESCRIPTION: E366772C00-ITER_NC_WD

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
NET.&SERV. CABINETS IN ITER WIRING DIAGRAMS AND TERMINAL STRIPS SPARE PAGE

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

SCALE : 1

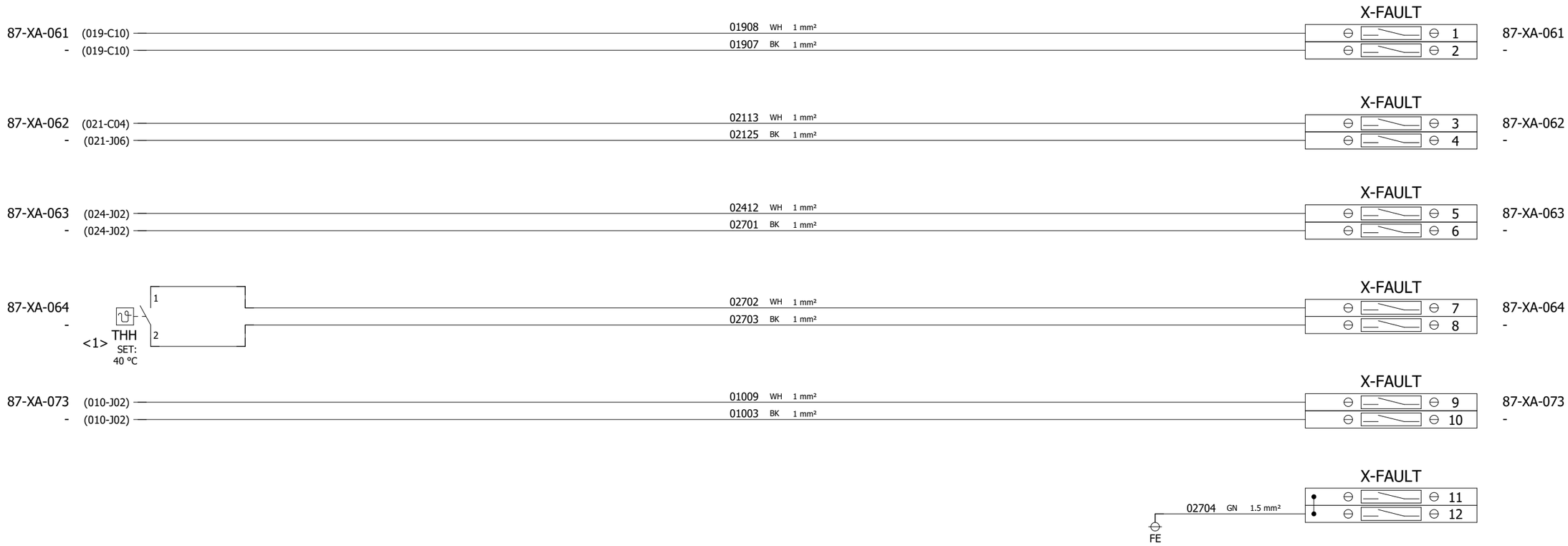
A3

DRAWING NO. 1724000594-IN-DG-00022

SHEET 026

REV. 1

NET PANEL - FAULT ALARM SIGNALS TO PCS



CUSTOMER TAG	SIGNAL DESCRIPTION FROM IO LIST
87-XA-061	NET PANEL VENTILATION FAN FAULT
87-XA-062	NET PANEL POWER SUPPLY & DIODES FAILURE
87-XA-063	NET PANEL CUMULATIVE BREAKER FAULT
87-XA-064	NET PANEL HIGH TEMPERATURE ALARM
87-XA-073	SERV. PANEL CUMULATIVE BREAKER FAULT

CUSTOMER TAG	SIGNAL DESCRIPTION FROM IO LIST
-	-
-	-
-	-
-	-
-	-

REV	DATE	PREPARED	CHECKED	APPROVED	DESCRIPTION
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YOKOGAWA◆ PROJECT Nr. E36672C00
DESCRIPTION: E366772C00-ITER_NC_WD

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
NET.&SERV. CABINETS IN ITER WIRING DIAGRAMS AND TERMINAL STRIPS
NET PANEL - FAULT ALARM SIGNALS TO PCS

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

SCALE : 1

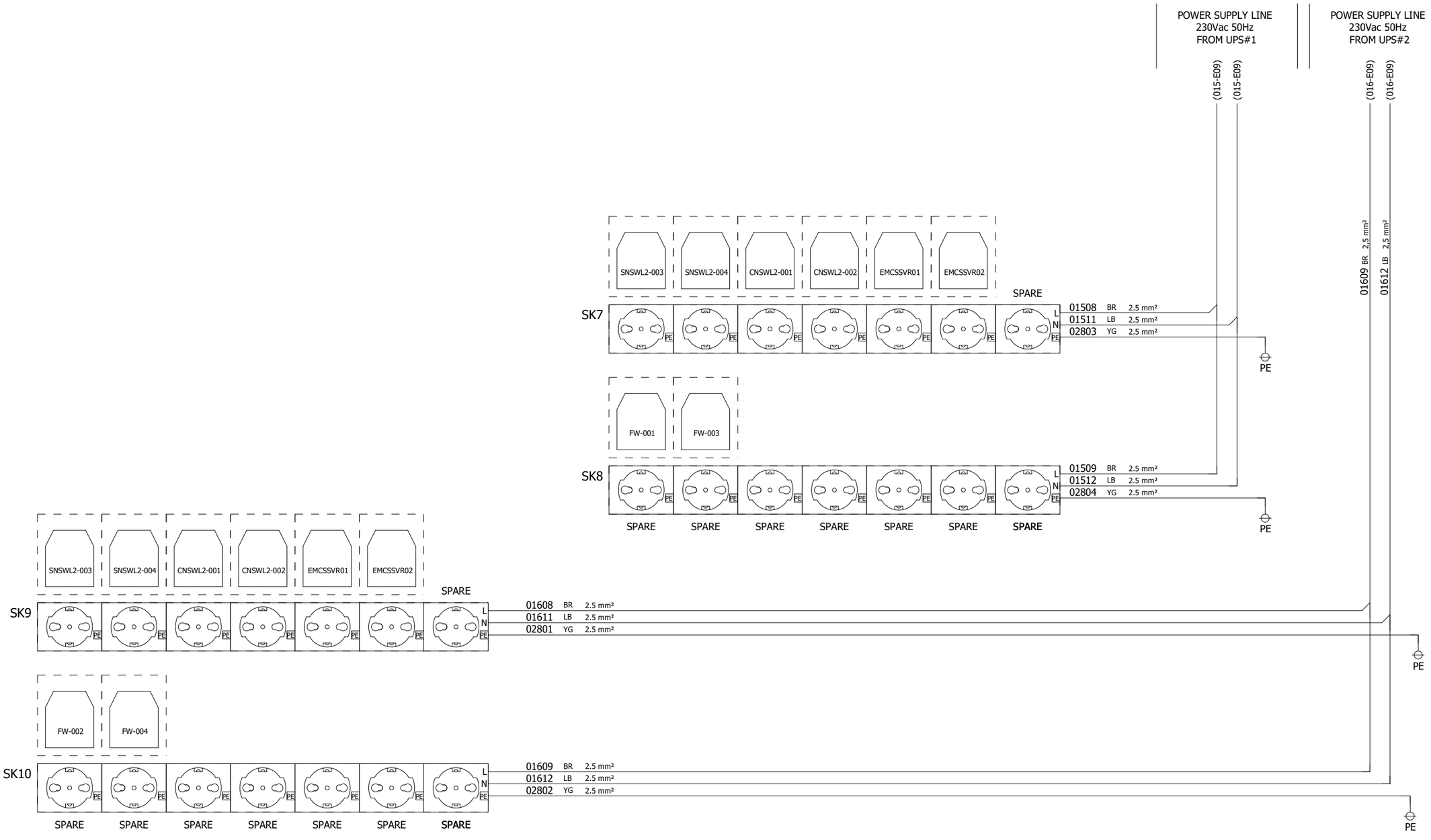
A3

DRAWING NO. 1724000594-IN-DG-00022

SHEET 027

REV. 1

NET PANEL - POWER STRIPS DISTRIBUTION



NOTE 1: For details on network cables connections, refer to doc. "1724000594-IN-DG-00016 - Network Connection Diagram

REV	DATE	PREPARED	CHECKED	APPROVED	DESCRIPTION
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YOKOGAWA◆ PROJECT Nr. E36672C00
DESCRIPTION: E366772C00-ITER_NC_WD

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
NET.&SERV. CABINETS IN ITER WIRING DIAGRAMS AND TERMINAL STRIPS
NET. PANEL - POWER STRIPS DISTRIBUTION

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

SCALE : 1

A3

DRAWING NO. 1724000594-IN-DG-00022

SHEET 028

REV. 1

ITEM	Tag	B400-SRV-001	: Server Cabinet ITER			Dwg	123A90-DDL-IN-DL-40012
	S/Sys	86-00	: Data Networks			Module	LD_B-400
TASK	code	C10000845		Location	Onshore Activities	User	Rosetti Marino Quality Control
FORM	Process	MC	Activity CCK	Discipline	Instrumental Form CJX48		Indoor Cabinet/Panel

1	Check for mechanical damage (Panel and internal items).	OK
2	Check that the Panel is de-energized and safe.	OK
3	Check identification (tag number, tag plates).	OK
4	Check supporting and protection against vibrations.	OK
5	Check door handles (type, locking, …).	PL
6	Check data sheet and general arrangement are conforms to drawings.	PL
7	Check internal layout conforms to drawings.	Note
8	Check signals segregation conforms to specifications.	Note
9	Check that anti-condensation heaters are ready to be energized.	OK
10	Check earthing connections are properly fixed and tightened.	PL
11	Check incoming cables identification .	Note
12	Check if accessibility and maintenance are possible and safe.	OK
13	If required produce Red Line Mark Up for "AS BUILT"	

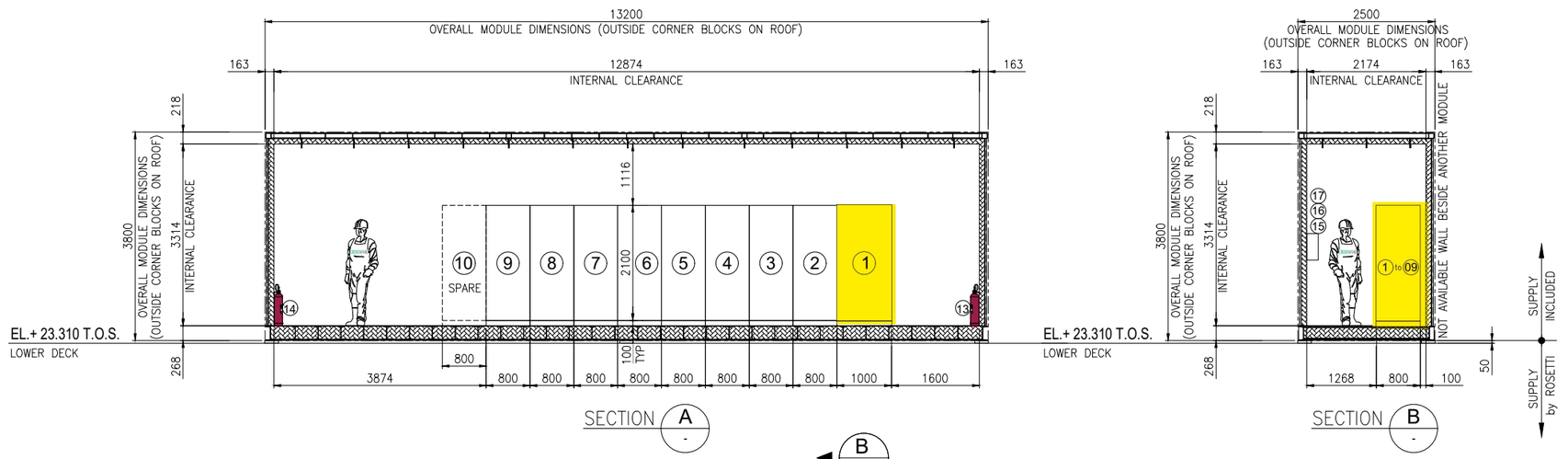
Comments: Note : Refer to punch list raised during FAT

Note 7: C30000366 / C30000368
Note 8: C30000361
Note 11: C30000357 / C30000364

	Performed by	● WITNESS ☐ REVIEW	☐ WITNESS ☐ REVIEW
Company	ICS IMPIANTI	RM (ROSETTI MARINO)	
Name	Carmelo Bongiovanni	Giovanni Tangianu	
Date	2024-11-06	2024-11-20	
Signature	PROVERLIS Digitaly signed by Carmelo Bongiovanni 2024-11-06T17:21:23.853Z	PROVERLIS Digitaly signed by Giovanni Tangianu 2024-11-20T14:27:00.393Z	

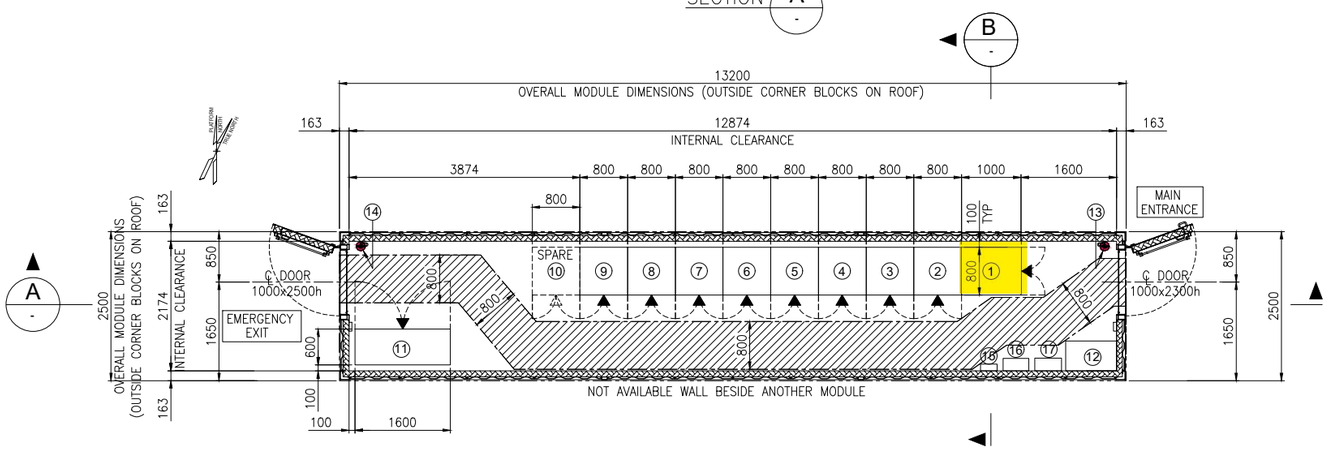
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REV. 03



SECTION A -

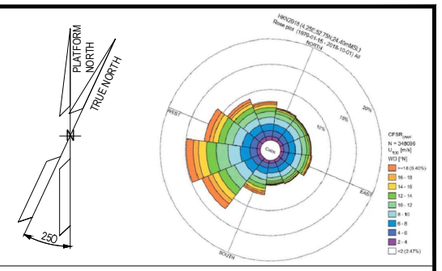
SECTION B -



EQUIPMENT LAYOUT
"B-400" I&T EQUIPMENT ROOM
BOTTOM PLAN

EQUIPMENT LIST

REF.	TAG No.	DESCRIPTION	LENGTH (mm)	WIDTH (mm)	HEIGHT (mm)	NOTE
1	B400-SRV-001	SERVER CABINET	1000	800	2100	
2	B400-NET-001	NETWORK CABINET	800	800	2100	
3	B400-EMCS-001	EMCS SYSTEM CABINET	800	800	2100	
4	B400-PCS-002	PCS MARSHALLING CABINET	800	800	2100	
5	B400-PCS-001	PCS SYSTEM CABINET 03	800	800	2100	
6	B400-FGS-003	FGS MARSHALLING CABINET 2	800	800	2100	
7	B400-FGS-002	FGS MARSHALLING CABINET 1	800	800	2100	
8	B400-FGS-001	FGS SYSTEM CABINET	800	800	2100	
9	B400-SIS-001	SIS SYSTEM/MARSHALLING CABINET	800	800	2100	
10	-	SPARE				
11	B400-HSB-001	DISTRIBUTION & HVAC PANEL - I&T ROOM	1600	600	2300	
12	-	TABLE	850	500	750	
13	-	PORTABLE EXTINGUISHER (CO2) 5 Kg.	150	150	750	
14	-	PORTABLE EXTINGUISHER (CO2) 5 Kg.	150	150	750	
15	-	FIRST AID KIT	280	115	200	
16	-	RESUSCITATION UNIT	430	210	480	
17	-	CABINET INCLUDED N.10 ESCAPE MASK	448	213	422	



NOTES

1. U.N.O. ALL DIMENSIONS ARE IN MILLIMETERS.
2. DOCUMENT VALID ONLY FOR INSTRUMENT COMPONENT, FOR OTHER SCOPE LOCATION AND INFORMATION, PLEASE REFER TO VENDORS AND PROJECT DOCUMENTS.

LEGEND

U.N.O. _____ UNLESS NOTED OTHERWISE
T.O.S. _____ TOP OF STEEL
_____ ESCAPE CORRIDOR – WIDTH 800mm.
_____ EQUIPMENT ROOM ENCLOUSURE
_____ FRONT OF EQUIPMENT

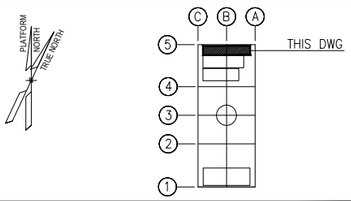
HOLDS

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REFERENCE

DOCUMENT TITLE	DOCUMENT NUMBER
Control System Architecture Detailed Drawings	123A90-DDL-IN-DD-40096
Data Network Architecture Drawings	123A90-DDL-IN-DD-40019
Earthing layouts drawings (CCR, ITER)	123A90-DDL-IN-DL-40013
Instrument and Telecom MCT Layout – Lower Deck	123A90-DDL-IN-DL-40086
"B-400" I&T Equipment Room – Architectural Layout	123A90-DDL-AR-DL-10015
"B-400" ARCHITECTURAL GENERAL LAYOUT PLAN, WIEW, SECTIONS & TYP. DETAILS	123A90-DDL-AR-DL-10015
"B-400" GENERAL ARRANGEMENT DRAWING	1724000049-AR-DA-00017
"B-400" GENERAL ARRANGEMENT DRAWING	1724000049-AR-DD-00021
"B-400" HVAC SYSTEM G.A. and DETAILS	1724000049-HV-DA-00067

KEY PLAN



REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
03	04/10/24	VBA	LCA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
02	27/05/24	MGA	LCA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	22/01/24	VBA	LCA	DLO	ISSUE FOR REVIEW (IFR)
00	07/11/23	VBA	LCA	DLO	ISSUE FOR REVIEW (IFR)

VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-IN-DL-40012**

REV.:	DATE:	SIGNATURE:
3_A	07/10/24	G.Randi

ROSETTI MARINO SpA

CROSSWIND | ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
OFF-SHORE ITER
EQUIPMENT LAYOUT

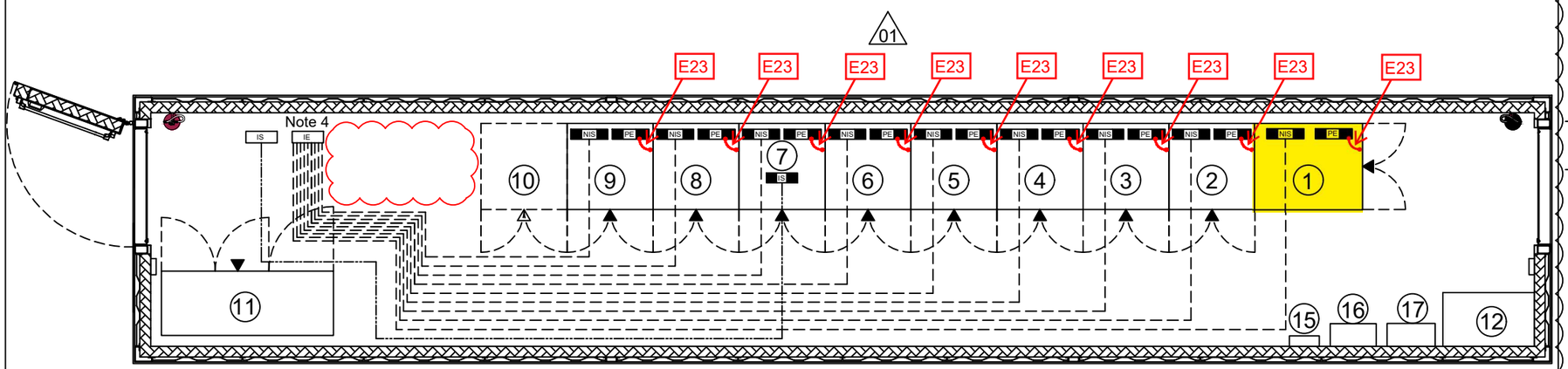
CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK			SCALE 1:33,3
DRAWN MGA	CHECKED LCA	APPROVED DLO	DATE 27/05/24
A1	DRAWING NO. 123A90-DDL-IN-DL-40012	SHEET 001	REV. 03

File Name : 123A90-DDL-IN-DL-40012 Rev.03.dwg

INSTRUMENT EQUIPMENT LIST		
REF.	TAG No.	DESCRIPTION
1	B400-SRV-001	SERVER CABINET
2	B400-NET-001	NETWORK CABINET
3	B400-EMCS-001	EMCS SYSTEM CABINET
4	B400-PCS-001	PCS SYSTEM CABINET
5	B400-PCS-002	PCS MARSHALLING CABINET
6	B400-FGS-001	FGS SYSTEM CABINET
7	B400-FGS-002	FGS MARSHALLING CABINET 1
8	B400-FGS-003	FGS MARSHALLING CABINET 2
9	B400-SIS-001	SIS SYSTEM/MARSHALLING CABINET
10	-	SPARE
11	B400-HSB-001	DISTRIBUTION & HVAC PANEL - I&T ROOM
12	-	TABLE
13	-	PORTABLE EXTINGUISHER (CO2) 5 Kg.
14	-	PORTABLE EXTINGUISHER (CO2) 5 Kg.
15	-	FIRST AID KIT
16	-	RESUSCITATION UNIT
17	-	CABINET INCLUDED N.10 ESCAPE MASK

NOTES

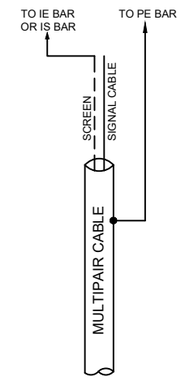
1 - THIS DOCUMENT IS VALID ONLY FOR EARTHING LAYOUT.
2 - THE CABLE SIZE SHALL BE CONFIRMED
3 - THE EXACT POSITION OF EARTHING/MARSHALLING BUS BAR SHALL BE DEFINED IN FIELD.
4 - THE EARTHING BUS BARS INSTALLATION SHALL BE PREFERABLY IN VERTICAL MODE.
5 - FOR EARTHING TYPICAL DETAILS AND Y/G CONDUCTOR CROSS SECTION SEE DOC. 123A90-DDL-EL-DD-20090 "ELECTRICAL TYPICAL INSTALLATION DETAILS - EARTHING SYSTEM".
6 - DUE TO THE TOP CABLE ENTRIES THE EARTHING BUS BAR INSIDE THE CABINETS SHALL BE INSTALLED AT THE TOP OF THE CABINETS THEMSELVES.
7 - IN CASE OF CABLE CONNECTIONS BETWEEN TWO CABINETS, THE CABLE SCREEN SHALL BE CONNECTED TO IE AT MARSHALLING SIDE ONLY.



LEGEND

- PE — EARTHING BUS BAR AISI 316L
- NIS — INSULATED INSTRUMENT EARTH BUS BAR NOT INTRINSIC SAFETY DIM. 450x60x5mm AISI 316L
- IS — INSULATED INSTRUMENT EARTH BUS BAR INTRINSIC SAFETY DIM. 450x60x5mm AISI 316L
- 35sqmm Y/G INSULATED COPPER CONDUCTOR FOR PE (SEE NOTE 2)
- 35sqmm Y/G INSULATED COPPER CONDUCTOR FOR I.S. & NON I.S. (SEE NOTE 2)
- EARTHING BUS BAR 60x5mm AISI 316L (SEE NOTE 3)
- PE — PROTECTIVE EARTH
- IE — INSTRUMENT EARTH
- IS — INTRINSICALLY SAFE EARTH

KEY



VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-IN-DL-40013**

REV.:	DATE:	SIGNATURE:
1_B	11/11/24	G.Randi

ROSETTI MARINO SpA

01

CROSSWIND

ROSETTI MARINO

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	14/05/24	MGA	LCA	DLO	ACCEPTED FOR CONSTRUCTION
00	19/01/24	INVIRAJ	AMBE/LCA	OYFO/MDO	ISSUE FOR REVIEW (IFR)

TITLE : BASE LOAD POWER HUB (BLPH)
EARTHING LAYOUT DRAWINGS(OFFSHORE ITER)
EQUIPMENT LAYOUT

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

SCALE : NTS

A3

DRAWING NO. 123A90-DDL-IN-DL-40013

SHEET 003

REV. 01

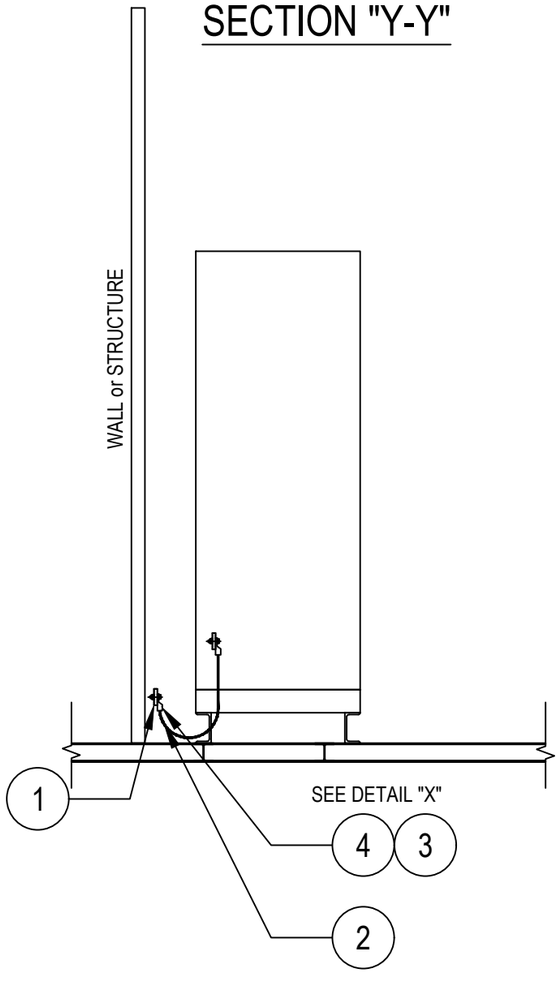
F.to UNI A3: 420mmx297mm

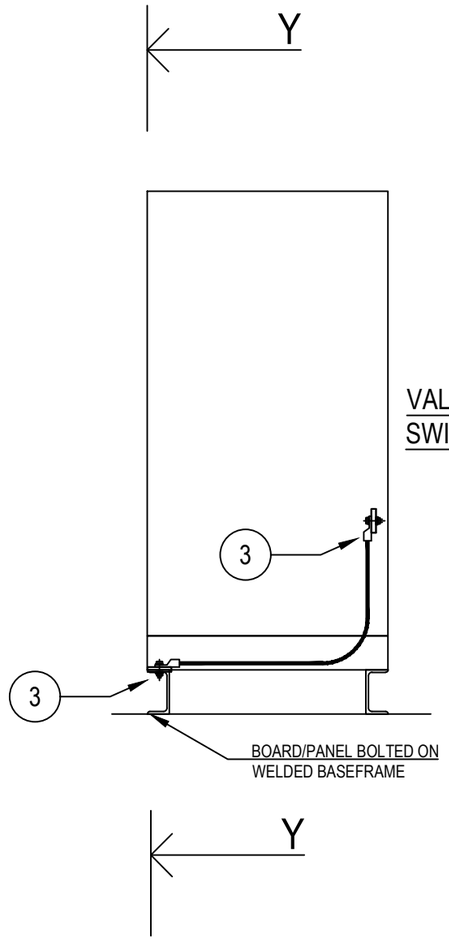
File Name : 123A90-DDL-IN-DL-430013 Rev. 01

E23

POS.	DESCRIPTION	MATERIAL	SIZE	Q.TY	NOTE
1	MARSHALLING EARTHING BAR	TINNED COPPER	50X5		NOTE 1
2	Y/G INSULATING COPPER CONDUCTOR	COPPER	35mm² SEE NOTE 1		NOTE 1
3	COMPRESSION TYPE LUG FOR INSULATION COPPER CONDUCTOR	TINNED COPPER	35mm² SEE NOTE 1	4	NOTE 1
4	BOLT, PLANE WASHER, GROWER SPRING WASHER AND NUT	AISI 316L	M10X30	4	

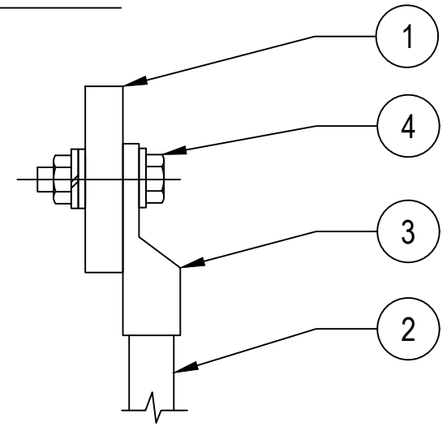
SECTION "Y-Y"





VALID FOR HV/LV SWITCHGEAR

DETAIL "X"



NOTES:

1) FOR SIZE OF THE EARTHING CABLE SEE ALSO EARTHING LAYOUT DRAWINGS OF RESPECTIVE AREAS

VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DD-20090**

REV.:	DATE:	SIGNATURE:
2_I	07/11/24	G.Randi

ROSETTI MARINO SpA

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	26/08/24	GRA	AMA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	10/06/24	SPS	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–EARTHING SYSTEM
EARTHING FOR PANELS/BOARDS IN TECHNICAL ROOM

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

A3	DRAWING NO.	SHEET	REV.
	123A90–DDL–EL–DD–20090	011	02

F.to UNI A3: 420mmx297mm

File Name : 123A90-DDL-EL-DD-20090 REV.02.DWG

BASE LOAD POWER HUB (BLPH)
NET. AND SERV. CABINET IN ITER
GENERAL ARRANGEMENT DRAWINGS AND INTERNAL LAYOUT

2	19.09.2024	A.G.	A.B.	S.C.	ACCEPTED FOR CONSTRUCTION (AFC)
1	10.07.2024	A.G.	A.B.	S.C.	ISSUE FOR REVIEW (IFR)
0	10.07.2024	A.G.	A.B.	S.C.	ISSUE FOR REVIEW (IFR)
REV	DATE	PREPARED	CHECKED	APPROVED	DESCRIPTION

YOKOGAWA◆ PROJECT Nr. E36672C00
DESCRIPTION: E366772C00-ITER_NLO

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)

COVER PAGE

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

SCALE : 1

A3

DRAWING NO. 1724000594-IN-DA-00011

SHEET 001

REV. 02

PAG. NR.	REVISION 0	1	2	3	4	5	6	7	8	TITLE
001	X	X	X							BASE LOAD POWER HUB (BLPH) COVER PAGE
002	X	X	X							BASE LOAD POWER HUB (BLPH) INDEX
003	X	X	X							BASE LOAD POWER HUB (BLPH) DATA SHEET
004	X		X							BASE LOAD POWER HUB (BLPH) INTERNAL WIRING INFORMATION
005		X	X							BASE LOAD POWER HUB (BLPH) TYPICAL WIRE MARKING & EARTH BAR CONNECTION DETAILS
006		X	X							BASE LOAD POWER HUB (BLPH) SERVER & NETWORK - EXTERNAL FRONT VIEW
007		X	X							BASE LOAD POWER HUB (BLPH) SERVER & NETWORK - EXTERNAL REAR VIEW
008		X	X							BASE LOAD POWER HUB (BLPH) SERVER & NETWORK - LEFT SIDE AND RIGHT SIDE VIEW
009		X	X							BASE LOAD POWER HUB (BLPH) SERVER & NETWORK - EXTERNAL & INTERNAL TOP VIEW
010		X	X							BASE LOAD POWER HUB (BLPH) SERVER & NETWORK - LIFTING DETAILS
011	X	X	X							BASE LOAD POWER HUB (BLPH) SERVER - EXTERNAL FRONT VIEW & FRONT DOOR OPENED VIEW
012	X		X							BASE LOAD POWER HUB (BLPH) SERVER - EXTERNAL LEFT SIDE & RIGHT SIDE VIEW
013	X		X							BASE LOAD POWER HUB (BLPH) SERVER - EXTERNAL LEFT SIDE & RIGHT SIDE VIEW WHITOUT PANEL
014	X	X	X							BASE LOAD POWER HUB (BLPH) SERVER - EXTERNAL REAR VIEW
015	X	X	X							BASE LOAD POWER HUB (BLPH) SERVER - BASEPLATE DETAILS
016	X	X	X							BASE LOAD POWER HUB (BLPH) SERVER - EXTERNAL & INTERNAL TOP VIEW
017	X		X							BASE LOAD POWER HUB (BLPH) SERVER - EXTERNAL TOP VIEW DOOR OPEN
018	X	X	X							BASE LOAD POWER HUB (BLPH) SERVER - FRONT SIDE INTERNAL VIEWS
019	X		X							BASE LOAD POWER HUB (BLPH) SERVER - SPARE PAGE
020	X	X	X							BASE LOAD POWER HUB (BLPH) NETWORK - EXTERNAL FRONT VIEW & FRONT DOOR OPENED VIEW

PAG. NR.	REVISION 0	1	2	3	4	5	6	7	8	TITLE
021	X	X	X							BASE LOAD POWER HUB (BLPH) NETWORK - EXTERNAL LEFT SIDE & RIGHT SIDE VIEW
022	X	X	X							BASE LOAD POWER HUB (BLPH) NETWORK - EXTERNAL LEFT SIDE & RIGHT SIDE VIEW WHITOUT PANEL
023	X	X	X							BASE LOAD POWER HUB (BLPH) NETWORK - EXTERNAL REAR VIEW
024	X	X	X							BASE LOAD POWER HUB (BLPH) NETWORK - BASEPLATE DETAILS
025	X	X	X							BASE LOAD POWER HUB (BLPH) NETWORK - EXTERNAL & INTERNAL TOP VIEW
026	X	X	X							BASE LOAD POWER HUB (BLPH) NETWORK - FRONT DOOR CUT-OUT DETAILS
027	X	X	X							BASE LOAD POWER HUB (BLPH) NETWORK - FRONT SIDE INTERNAL VIEWS
028	X		X							BASE LOAD POWER HUB (BLPH) NETWORK - FRONT SIDE INTERNAL VIEWS
029	X		X							BASE LOAD POWER HUB (BLPH) NETWORK - SPARE PAGE
030	X		X							BASE LOAD POWER HUB (BLPH) BH AND MANUFACTURER LABEL DETAILS
031	X		X							BASE LOAD POWER HUB (BLPH) SERVER AND NETWORK SECTION IDENTIFIER NAMEPLATE DETAILS
032	X		X							BASE LOAD POWER HUB (BLPH) SPARE PAGE
033	X		X							BASE LOAD POWER HUB (BLPH) CERTIFICATION LABEL
034	X	X	X							BASE LOAD POWER HUB (BLPH) SERVER MAIN COMPONENT LIST
035	X		X							BASE LOAD POWER HUB (BLPH) SERVER MAIN COMPONENT LIST
036	X	X	X							BASE LOAD POWER HUB (BLPH) NETWORK MAIN COMPONENT LIST
037	X		X							BASE LOAD POWER HUB (BLPH) NETWORK MAIN COMPONENT LIST
038	X		X							BASE LOAD POWER HUB (BLPH) NETWORK MAIN COMPONENT LIST

PAG. NR.	REVISION 0	1	2	3	4	5	6	7	8	TITLE

REV	DATE	PREPARED	CHECKED	APPROVED	DESCRIPTION
2	19.09.2024	A.G.	A.B.	S.C.	ACCEPTED FOR CONSTRUCTION (AFC)
1	10.07.2024	A.G.	A.B.	S.C.	ISSUE FOR REVIEW (IFR)
0	10.07.2024	A.G.	A.B.	S.C.	ISSUE FOR REVIEW (IFR)

YOKOGAWA◆ PROJECT Nr. E36672C00
DESCRIPTION: E366772C00-ITER_NLO

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH) & WIRING DIAGRAM INDEX

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

SCALE : 1

A3

DRAWING NO. 1724000594-IN-DA-00011

SHEET 002

REV. 02

A - GENERAL DATA

A1	TYPE	☐ MANUFACTURER STANDARD	■ AUGER	
A2	REFERENCE CODE	■ IEC	☐ IEC NORTH AMERICA SUITABLE (THIRD PARTY CERTIFIED)	
A3	CONTRACTUAL LANGUAGE	■ ENGLISH	☐	
A4	INSTALLATION	SAFE AREA, AIR CONDITIONING CONTROL ROOM/CAB HEAVY INDUSTRY ENVIRONMENT		
A5	OPERATING TEMPERATURE	+5°C TO +45 °C		
A6	OPERATING HUMIDITY	10 TO 93 % RH NOT CONDENSING		
A7	MARSHALLING TERMINAL STRIP	■ WITH	☐ WITHOUT	
A8	TERMINAL STRIP <1>	■ MIRROR OF JUNCTION BOX	☐ NOT MIRROR OF JUNCTION BOX	
A9	SPARE TERMINALS	☐ NO	■ YES, NOT WIRED	☐ YES, JUMPERED TO I.E. OR I.S. BAR
A10	CABLES & CABLE TRAYS	☐ PVC	■ HALOGEN FREE AND LOW SMOKE <1>	
A11	INTRINSICALLY SAFE BARRIERS/ISOLATORS	■ NO	☐ YES	
A12	SURGE ARRESTORS	■ NO	☐ YES, ONLY FOR POWER SUPPLY LINE IN	
A13	POLLUTION DEGREE	■ 2 AS PER IEC60664-1		
A14	STORAGE TEMPERATURE	-20°C TO 50°C UP TO 80% HUMIDITY		
A15	MATERIAL	■ CARBON STEEL	☐ STAINLESS STEEL AISI 304	☐ STAINLESS STEEL AISI 316

B - MECHANICAL DATA

B1	OVERALL DIMENSION	800 mm x 1000mm x 2100mm (L x D x H) 800 mm x 800 mm x 2100 mm (L x D x H) (NOTE B1)		
B2	PROTECTION DEGREE	■ IP 43	☐ IP 55	
B3	STEEL THICKNESS	■ STRUCTURE: 1.5 mm	■ DOORS: 2 mm	
B4	CABLE ENTRY	■ TOP	☐ BOTTOM	
B5	CABLE ENTRY FIXING	☐ REMOVABLE PLATES	☐ CLAMPS	■ MCTs <1> (NOTE B2)
B6	ACCESSIBILITY	■ FRONT ONLY	☐ FRONT / REAR	
B7	LIFTING SYSTEM	■ EYE BOLTS	☐ LIFTING BAR "L" TYPE	
B8	BASE PLINTH	■ SEPARATE PIECES		
B9	DOOR LOCKS	■ KEY LOCKED WITH UNIQUE KEY PER UCP		
B10	APPROXIMATIVE WEIGHT	400 Kg for each panel		

NOTE B1 :ALLOWED TOLERANCE FOR PANEL HEIGHT/DEPTH: +/-5mm;
ALLOWED TOLERANCE FOR PANEL STRUCTURES AND SUPPORTS: +/-2mm;
ALLOWED TOLERANCE FOR TOTAL PANEL LENGTH : +/-2% OF TOTAL PANEL LENGTH;
(IN ANY CASE, MAXIMUM LENGTH TOLERANCE ALLOWED FOR PANEL WITH 2 OR MORE COLUMNS IS +/-50mm)

<1> NOTE B2 :MCTs ON TOP OF THE PANEL
REMOVABLE BOTTOM PLATE, FOR PANEL FIXING ON CUSTOMER COUNTER FRAME, SHALL BE PROVIDED

C - PAINTING

C1	REFERENCE SPECIFICATIONS		■ AUGER STANDARD	☐ JOB SPECIFIC	☐ MFR STANDARD
C2	EXTERIOR	TYPE	☐ SMOOTH	■ PEEL TYPE	
		COLOUR	■ RAL 7035	☐ RAL 7032	☐ RAL 7030
C3	BASE PLINTH		■ AS EXTERIOR		
C4	INTERIOR		■ GALVANISED (ALUZINC)		
C5	INTERNAL MOUNTING PLATES		■ GALVANISED (ALUZINC)		

D - ELECTRICAL DATA

.	SUPPLY LINE	UPS LINE 1	UPS LINE 2	NON-UPS LINE 3
D1	SUPPLY VOLTAGE	230Vac	230Vac	230Vac
D2	FREQUENCY	50Hz	50Hz	50Hz
D3	LOAD	T.B.D.	T.B.D.	T.B.D.
D4	INTERNAL LIGHTING WITH DOOR LIMIT SWITCH OPERATION	■ LED (230Vac - 50Hz) <1>		
D5	ANTI CONDENSING HEATER WITH TEMPERATURE THERMOSTAT	■ YES		
D6	VENTILATION FAN WITH FLOW SWITCH AND TEMPERATURE THERMOSTAT	■ YES		
D7	SERVICE SOCKET	■ YES		

E - NAMEPLATES

.	.	EXTERNAL PANEL	INTERNAL PANEL
E1	MATERIAL	■ TRAFFOLYTE	■ TAPE
E2	BACKGROUND COLOUR	■ WHITE	■ WHITE
E3	TEXT COLOUR	■ BLACK	■ BLACK
E4	FIXING	■ WITH SCREWS	■ SELF-ADHESIVE
E5	WARNING LABELS	■ SELF-ADHESIVE	■ SELF-ADHESIVE
E6	LANGUAGE	■ ENGLISH	■ ENGLISH

REV	DATE	PREPARED	CHECKED	APPROVED	DESCRIPTION
2	19.09.2024	A.G.	A.B.	S.C.	ACCEPTED FOR CONSTRUCTION (AFC)
1	10.07.2024	A.G.	A.B.	S.C.	ISSUE FOR REVIEW (IFR)
0	10.07.2024	A.G.	A.B.	S.C.	ISSUE FOR REVIEW (IFR)

YOKOGAWA◆ PROJECT Nr. E36672C00
DESCRIPTION: E366772C00-ITER_NLO

CROSSWIND ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH) & WIRING DIAGRAM DATA SHEET

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

SCALE : 1

A3

DRAWING NO. 1724000594-IN-DA-00011

SHEET 003

REV. 02

A - PANEL CONTROL CABLES

CABLE FUNCTION	CONDUCTOR SIZE	CONDUCTOR COLORS	OUTER SHEATH COLOR NON Intrinsically Safe Circuit	OUTER SHEATH COLOR Intrinsically Safe Circuit
BIPOLAR ANALOG SIGNALS (NOTE A1)	(2x0.5) + Shield	BLACK (BK) - WHITE (WH)	GREY (GR)	BLUE (BL)
TRIPOLAR ANALOG SIGNALS (NOTE A1)	(3x0.5) + Shield	BLACK (BK) - WHITE (WH) RED (RD)	GREY (GR)	BLUE (BL)

NOTE A1 :FOR THE ABOVE MENTIONED ANALOG SIGNALS, PAIRS OR TRIADS SHIELDED SPIRAL CABLES SHALL BE USED,
WITH THE EXCEPTION OF THOSE "SINK" INPUTS OR OUTPUTS OF THE CONTROLLER WHERE AN EXTERNAL FEED IS NEEDED.
ONLY FOR THIS SPECIFIC CASE, SINGLE WIRE CABLE SHALL BE USED.

C-GROUNDING CONNECTIONS

EARTH TYPE	CONDUCTOR SIZE Cable size shall not exceed max allowable section as per device's manufacturer recommendation	WIRE COLOR	ID RING COLOR
P.E. (PROTECTIVE EARTH)	(1x2.5) - (1x6) - (1x16) - (1x25)	YELLOW/GREEN (YG)	-
I.E. (INSTRUMENT EARTH)	(1x2.5) - (1x6) - (1x16) - (1x25)	GREEN (GN)	-
I.S.E. (INTRINSICALLY SAFE EARTH)	(1x2.5) - (1x6) - (1x16) - (1x25)	WHITE (WH)	-

B -PANEL SINGLE-CORE CABLES

SINGLE-CORE CABLE FUNCTION	CONDUCTOR SIZE Cable size shall not exceed max allowable section as per device's manufacturer recommendation	WIRE COLOR NON Intrinsically Safe Circuit	WIRE COLOR Intrinsically Safe Circuit
AC LINE	(1x2.5) - (1x4) - (1x6)	BROWN (BR)	N/A
AC NEUTRAL	(1x2.5) - (1x4) - (1x6)	LIGHT BLUE (LB)	N/A
DC 24Vdc (POSITIVE)	(1x2.5) - (1x4) - (1x6)	RED (RD)	N/A
DC 24Vdc (NEGATIVE)	(1x2.5) - (1x4) - (1x6)	BLUE (BU)	N/A
DIGITAL SIGNALS (POSITIVE)	(1x0.5)	BLACK (BK)	N/A
DIGITAL SIGNALS (NEGATIVE)	(1x0.5)	WHITE (WH)	N/A
ANALOG SIGNALS (2 WIRE POSITIVE)	(1x0.5)	BLACK (BK)	N/A
ANALOG SIGNALS (2 WIRE NEGATIVE)	(1x0.5)	WHITE (WH)	N/A
ANALOG SIGNALS (3 WIRE POSITIVE)	(1x0.5)	BLACK (BK)	N/A
ANALOG SIGNALS (3 WIRE NEGATIVE)	(1x0.5)	RED (RD)	N/A
ANALOG SIGNALS (3 WIRE SIGNAL)	(1x0.5)	WHITE (WH)	N/A

GENERAL NOTE :MINIMUM SECTION 1.5 mm² FOR CPU PANEL INTERNAL LAMPS, LIMIT SWITCHES, FANS, THERMOSTATS, ISOLATORS POWER SUPPLY

REV	DATE	PREPARED	CHECKED	APPROVED	DESCRIPTION
2	19.09.2024	A.G.	A.B.	S.C.	ACCEPTED FOR CONSTRUCTION (AFC)
1	10.07.2024	A.G.	A.B.	S.C.	ISSUE FOR REVIEW (IFR)
0	10.07.2024	A.G.	A.B.	S.C.	ISSUE FOR REVIEW (IFR)

YOKOGAWA◆ PROJECT Nr. E36672C00
DESCRIPTION: E366772C00-ITER_NLO

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
& WIRING DIAGRAM
INTERNAL WIRING INFORMATION

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

SCALE : 1

A3

DRAWING NO. 1724000594-IN-DA-00011

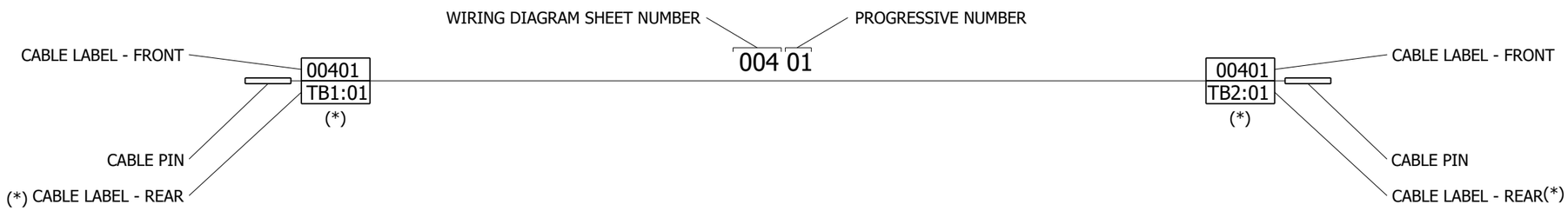
SHEET 004

REV. 02

COLOR ACRONYMS LIST :

RD - RED
BK - BLACK
BL - BLUE
LB - LIGHT BLUE
GR - GREY
GN - GREEN
YE - YELLOW
Y/G - YELLOW/GREEN
BR - BROWN
WH - WHITE

TYPICAL WIRE MARKING



EARTH CONNECTION RESUME TABLE:

		CABINET
	P.E. EARTH	○○○○○○○○○○○○○○○
<1>	I.E. EARTH	○○○○○○○○○○○○○○○
	I.S.E. EARTH	○○○○○○○○○○○○○○○

EARTH ACRONYMS LEGEND :

P.E. (GND) - PROTECTION EARTH (GROUND, FRAME CHASSIS)
I.E. (F.E.) - INSTRUMENT EARTH (NOISELESS), FUNCTIONAL EARTH
I.S. (I.S.E.)- INTRINSICALLY SAFE EARTH

REV	DATE	PREPARED	CHECKED	APPROVED	DESCRIPTION
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0	10.07.2024	A.G.	A.B.	S.C.	ISSUE FOR REVIEW (IFR)

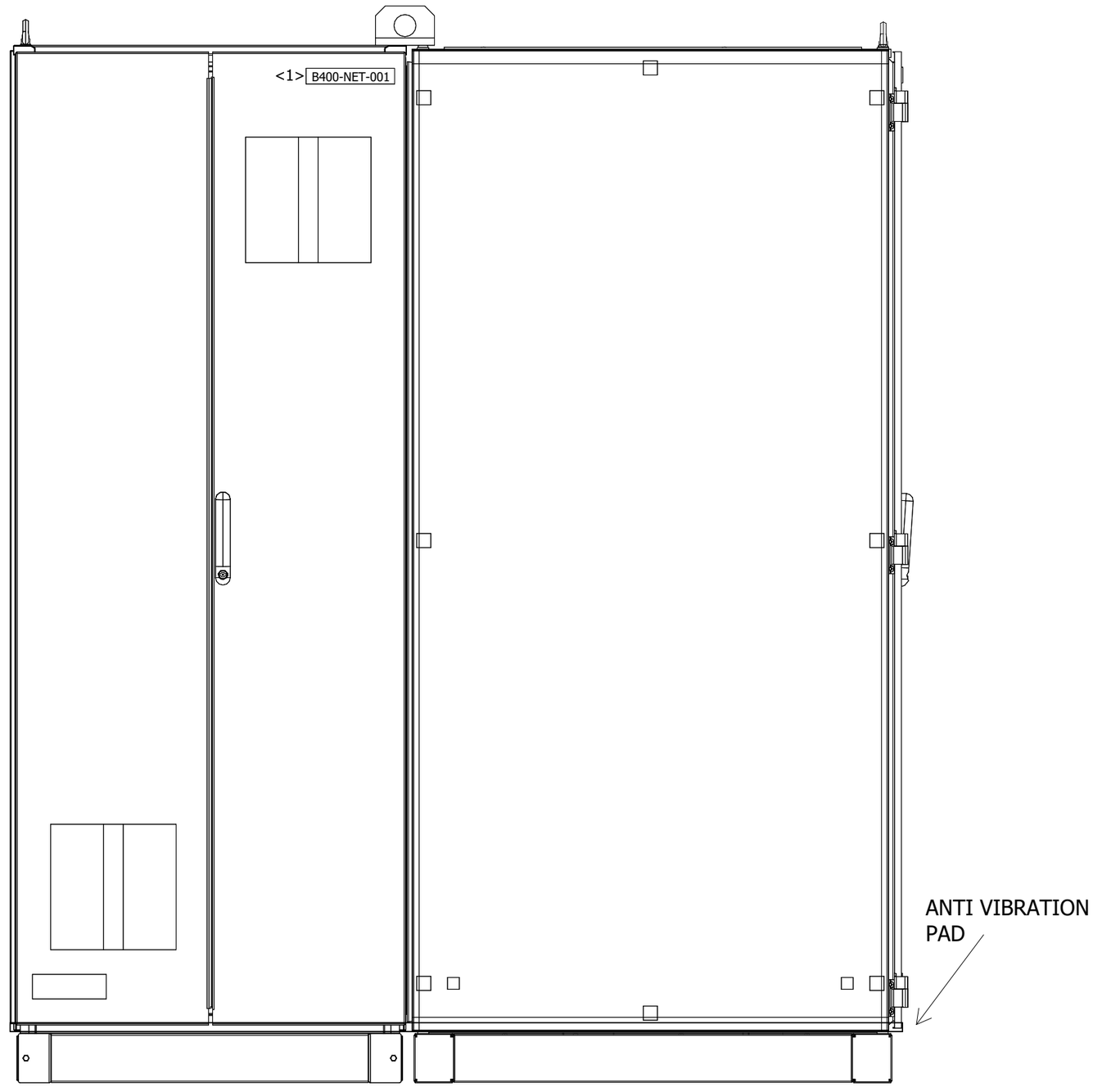
YOKOGAWA◆ PROJECT Nr. E36672C00
DESCRIPTION: E366772C00-ITER_NLO
CROSSWIND
ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
& WIRING DIAGRAM
TYPICAL WIRE MARKING & EARTH BAR CONNECTION DETAILS

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

A3
DRAWING NO. 1724000594-IN-DA-00011
SHEET 005
REV. 02

SERVER & NETWORK - EXTERNAL FRONT VIEW



DRAWING SCALE 1:10

REV	DATE	PREPARED	CHECKED	APPROVED	DESCRIPTION
2	19.09.2024	A.G.	A.B.	S.C.	ACCEPTED FOR CONSTRUCTION (AFC)
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YOKOGAWA◆ PROJECT Nr. E36672C00
DESCRIPTION: E366772C00-ITER_NLO

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
& WIRING DIAGRAM
SERVER & NETWORK - EXTERNAL FRONT VIEW

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

SCALE : 1

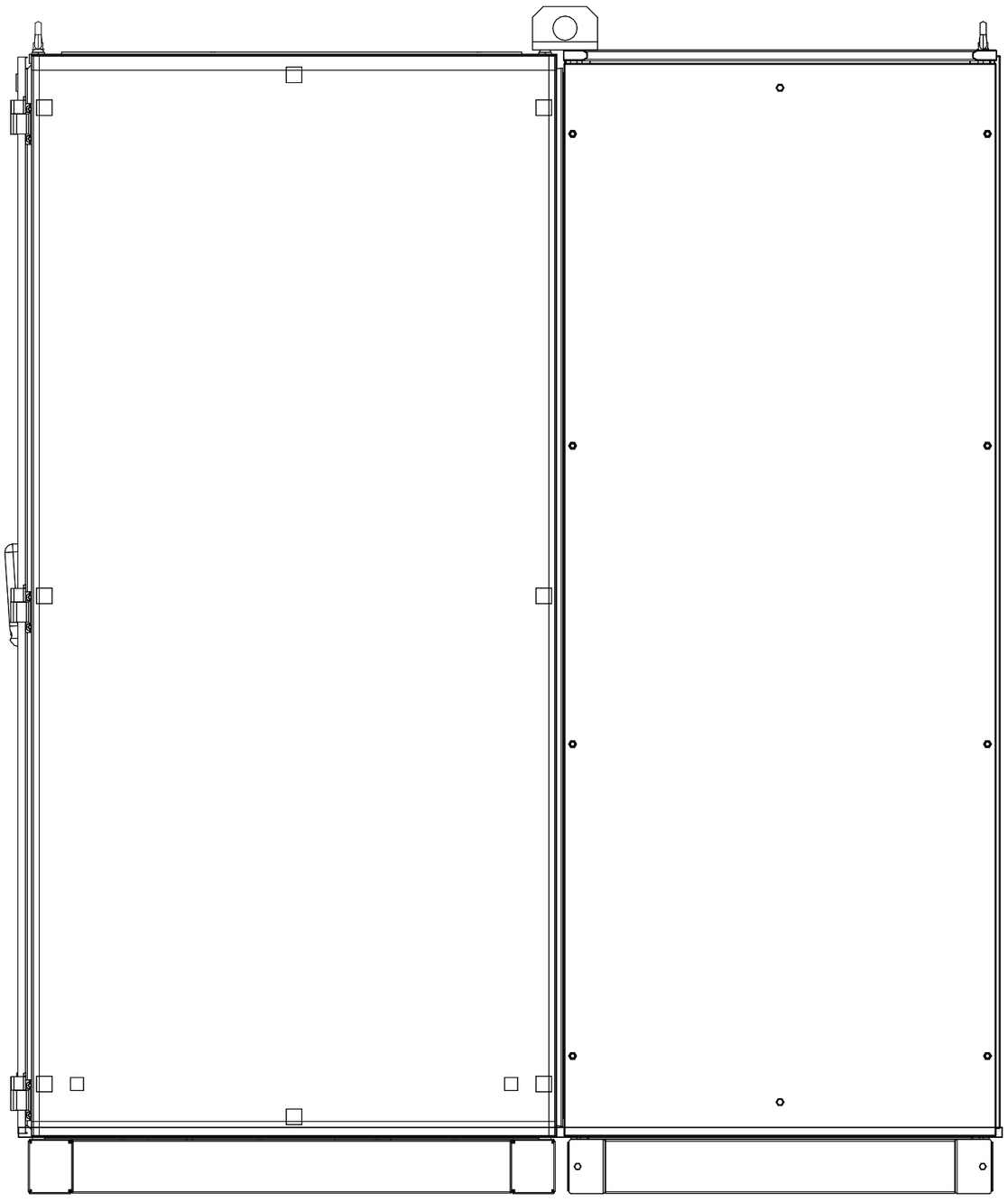
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DRAWING NO. 1724000594-IN-DA-00011

SHEET 006

REV. 02

SERVER & NETWORK - EXTERNAL REAR VIEW



DRAWING SCALE 1:10

REV	DATE	PREPARED	CHECKED	APPROVED	DESCRIPTION
2	19.09.2024	A.G.	A.B.	S.C.	ACCEPTED FOR CONSTRUCTION (AFC)
1	10.07.2024	A.G.	A.B.	S.C.	ISSUE FOR REVIEW (IFR)
0	10.07.2024	A.G.	A.B.	S.C.	ISSUE FOR REVIEW (IFR)

YOKOGAWA◆ PROJECT Nr. E36672C00
DESCRIPTION: E366772C00-ITER_NLO

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
& WIRING DIAGRAM
SERVER & NETWORK - EXTERNAL REAR VIEW

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

SCALE : 1

A3

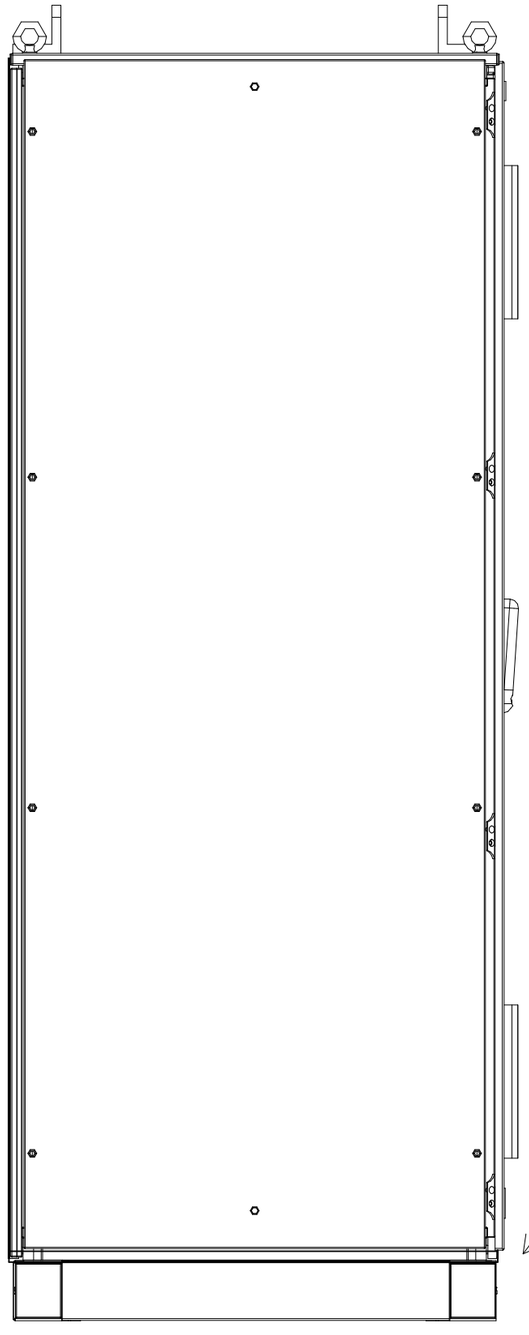
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SHEET 007

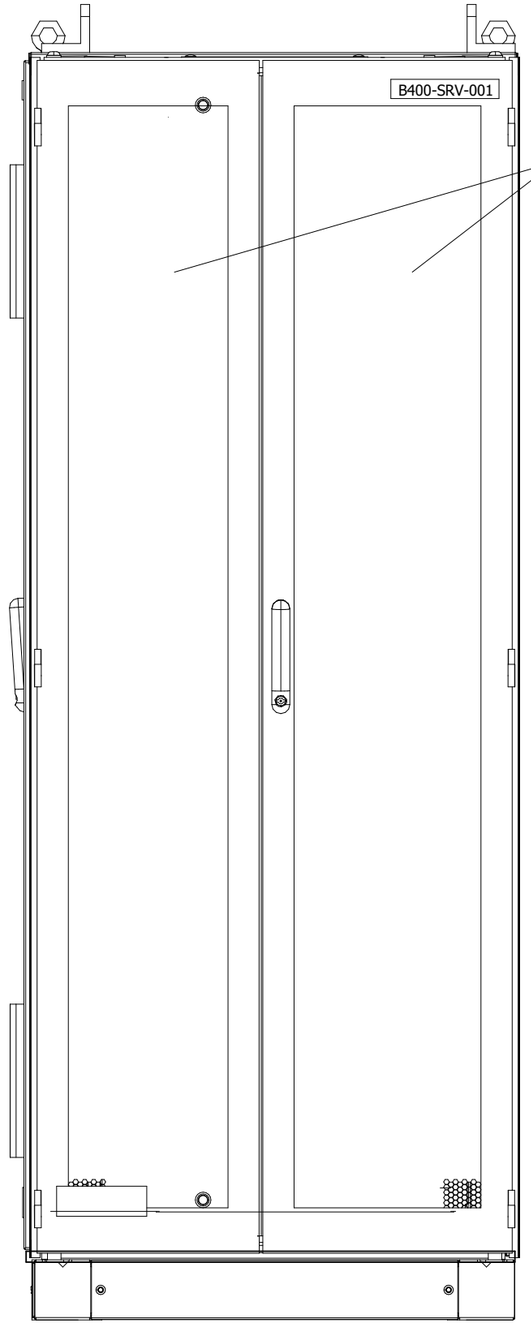
REV. 02

SERVER & NETWORK - LEFT SIDE AND RIGHT SIDE VIEW

LEFT SIDE



RIGHT SIDE



DRAWING SCALE 1:10

REV	DATE	PREPARED	CHECKED	APPROVED	DESCRIPTION
2	19.09.2024	A.G.	A.B.	S.C.	ACCEPTED FOR CONSTRUCTION (AFC)
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YOKOGAWA◆ PROJECT Nr. E36672C00
DESCRIPTION: E366772C00-ITER_NLO

CROSSWIND ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
& WIRING DIAGRAM
SERVER & NETWORK - LEFT SIDE AND RIGHT SIDE VIEW

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

SCALE : 1

A3

DRAWING NO. 1724000594-IN-DA-00011

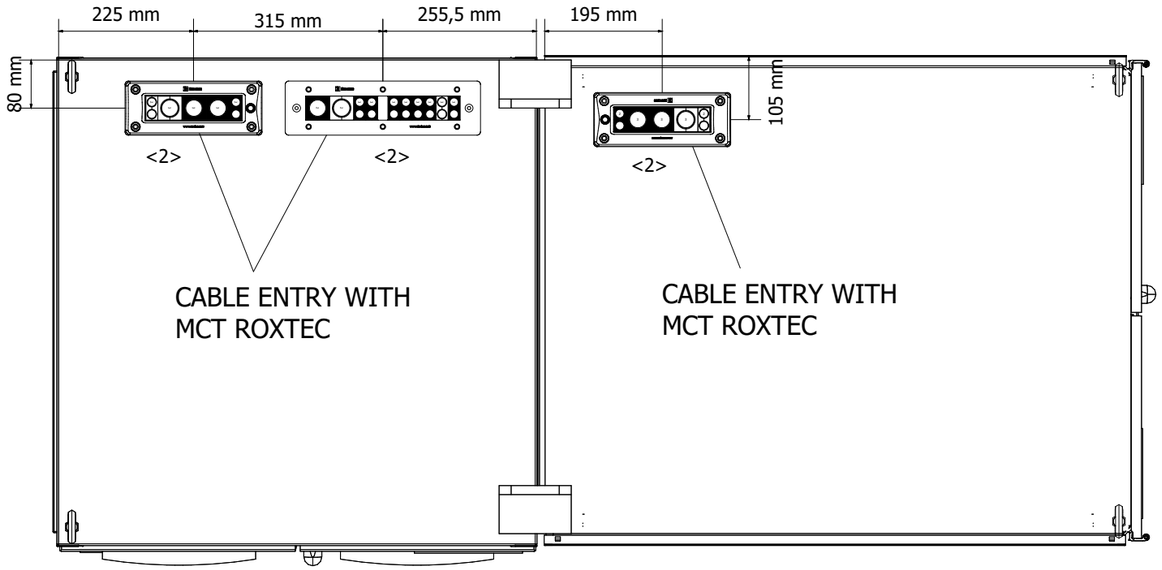
SHEET 008

REV. 02

SERVER & NETWORK - EXTERNAL & INTERNAL TOP VIEW

EXTERNAL TOP VIEW

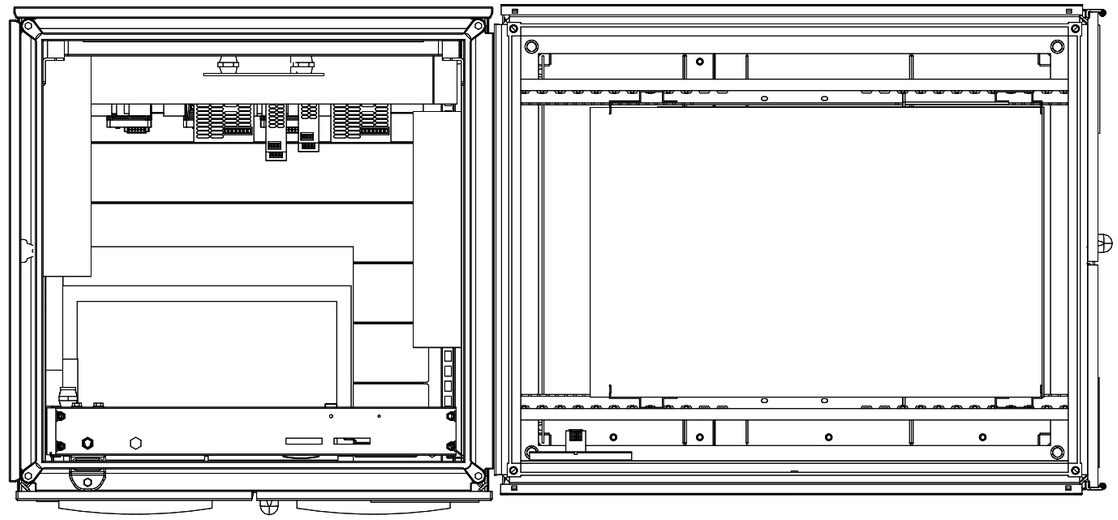
REAR



FRONT

INTERNAL TOP VIEW

REAR



FRONT

DRAWING SCALE 1:10

REV	DATE	PREPARED	CHECKED	APPROVED	DESCRIPTION
2	19.09.2024	A.G.	A.B.	S.C.	ACCEPTED FOR CONSTRUCTION (AFC)
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YOKOGAWA◆ PROJECT Nr. E36672C00
DESCRIPTION: E366772C00-ITER_NLO

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
& WIRING DIAGRAM
SERVER & NETWORK - EXTERNAL & INTERNAL TOP VIEW

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

SCALE : 1

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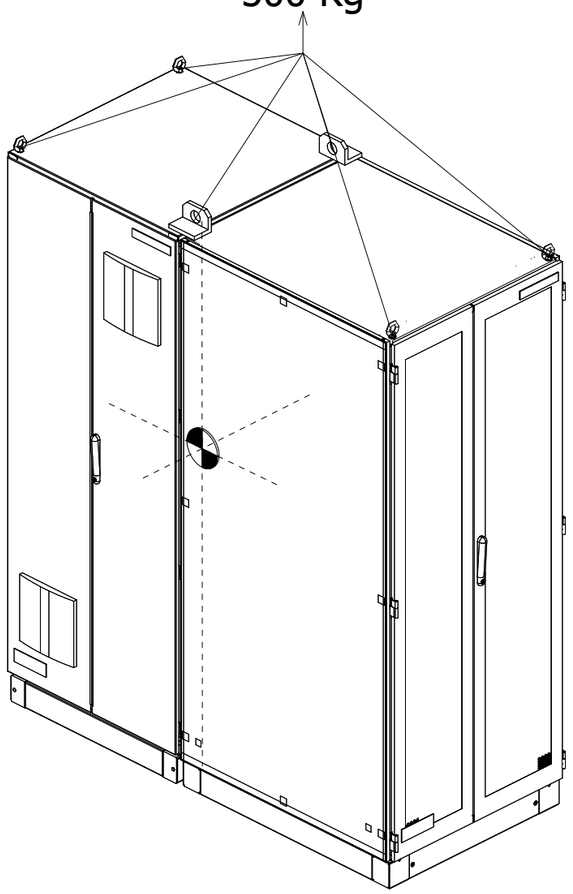
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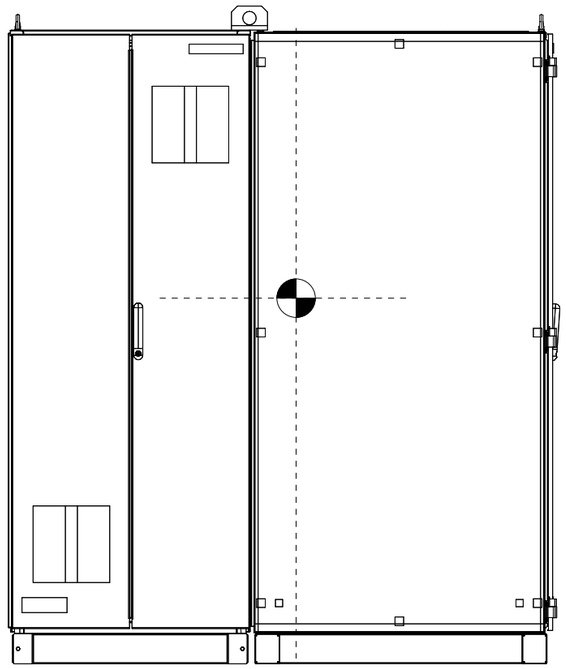
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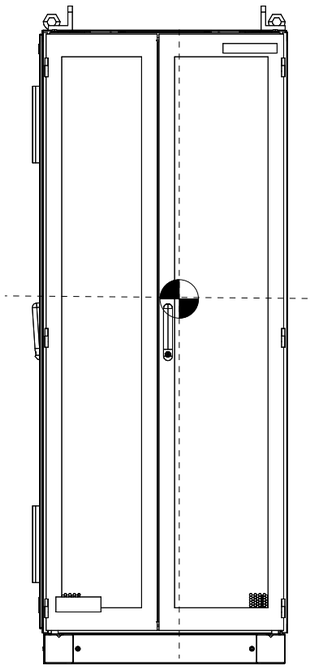
REV. 02

SERVER PANEL - LIFTING DETAILS

500 Kg







= CENTER OF GRAVITY

DRAWING SCALE 1:20
ALL QUOTES SHOWN ARE APPROXIMATE VALUE

REV	DATE	PREPARED	CHECKED	APPROVED	DESCRIPTION
2	19.09.2024	A.G.	A.B.	S.C.	ACCEPTED FOR CONSTRUCTION (AFC)
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YOKOGAWA◆ PROJECT Nr. E36672C00
DESCRIPTION: E366772C00-ITER_NLO

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
& WIRING DIAGRAM
SERVER & NETWORK - LIFTING DETAILS

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

SCALE : 1

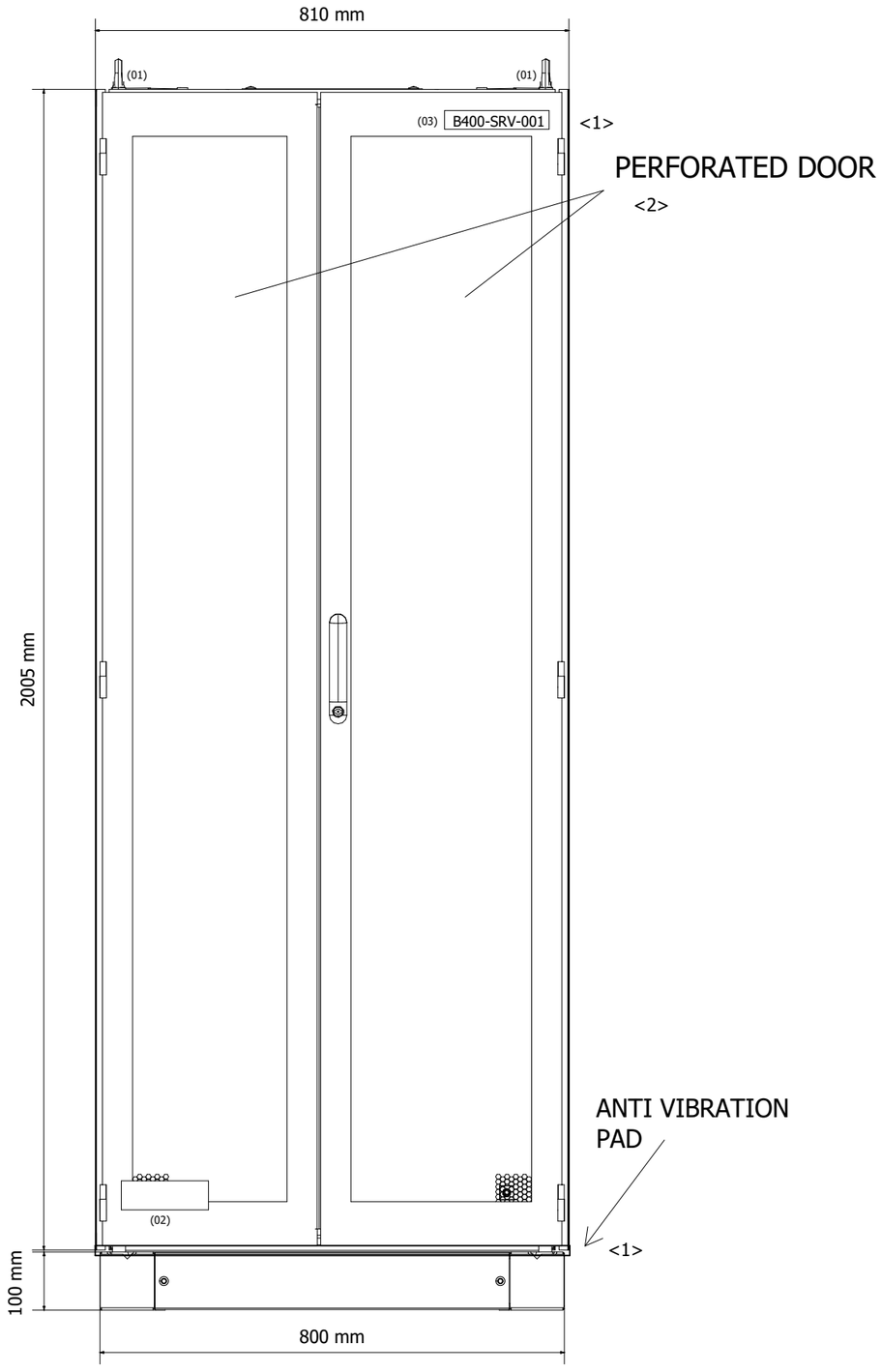
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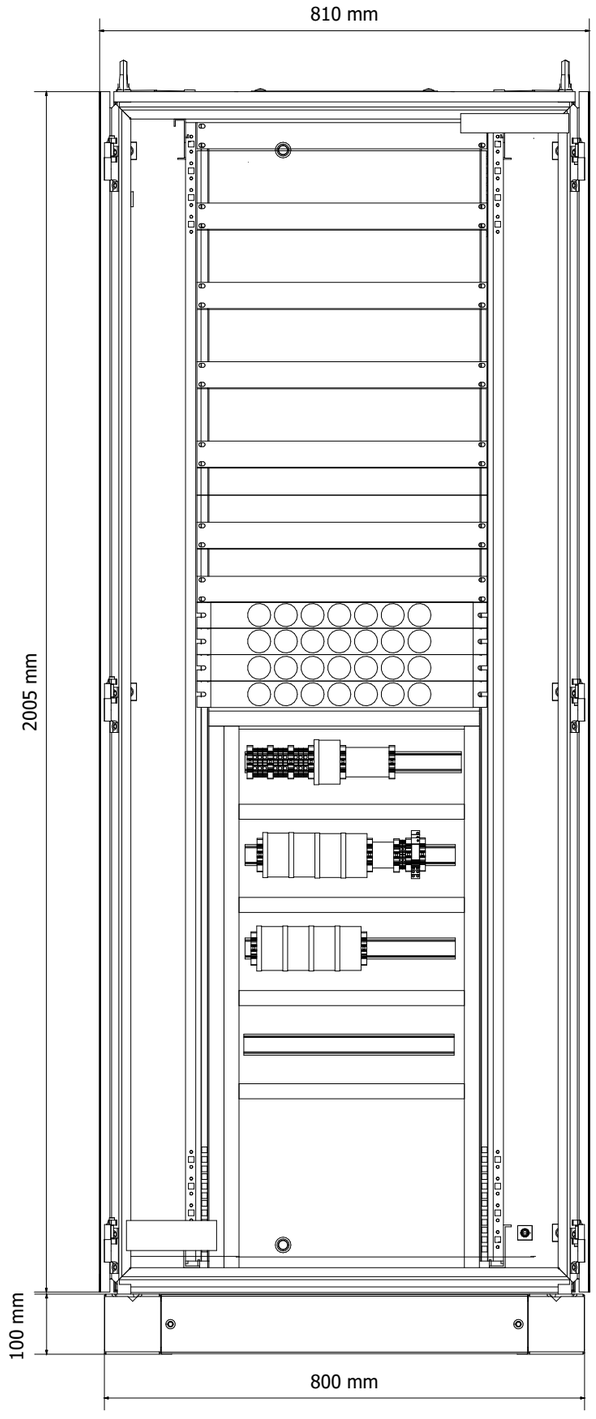
DRAWING NO. 1724000594-IN-DA-00011

SHEET 010

REV. 02

SERVER PANEL - EXTERNAL FRONT VIEW & FRONT DOOR OPENED VIEW





DRAWING SCALE 1:10

REV	DATE	PREPARED	CHECKED	APPROVED	DESCRIPTION
2	19.09.2024	A.G.	A.B.	S.C.	ACCEPTED FOR CONSTRUCTION (AFC)
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YOKOGAWA◆ PROJECT Nr. E36672C00
DESCRIPTION: E366772C00-ITER_NLO

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
& WIRING DIAGRAM
SERVER - EXTERNAL FRONT VIEW & FRONT DOOR OPENED VIEW

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

SCALE : 1

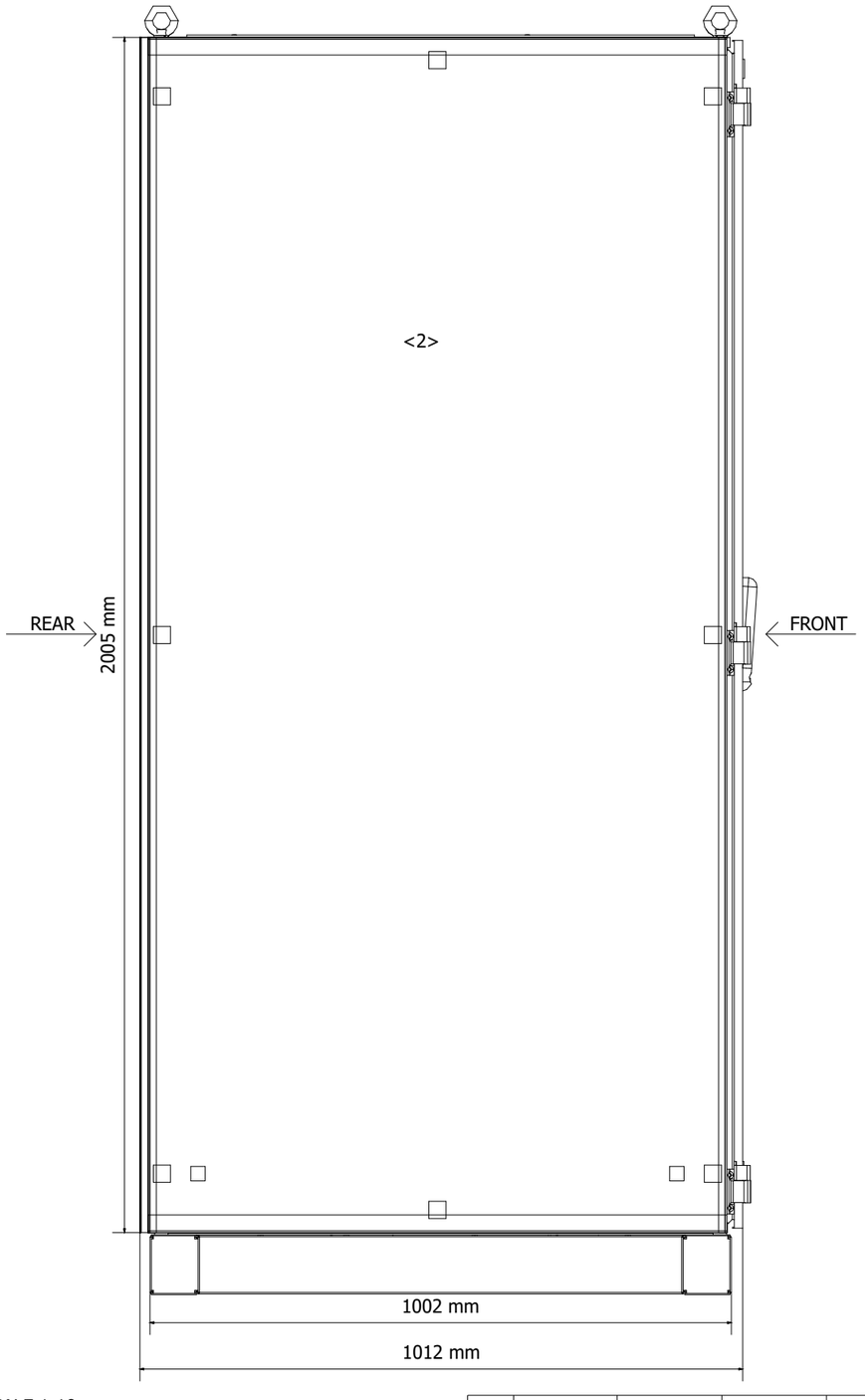
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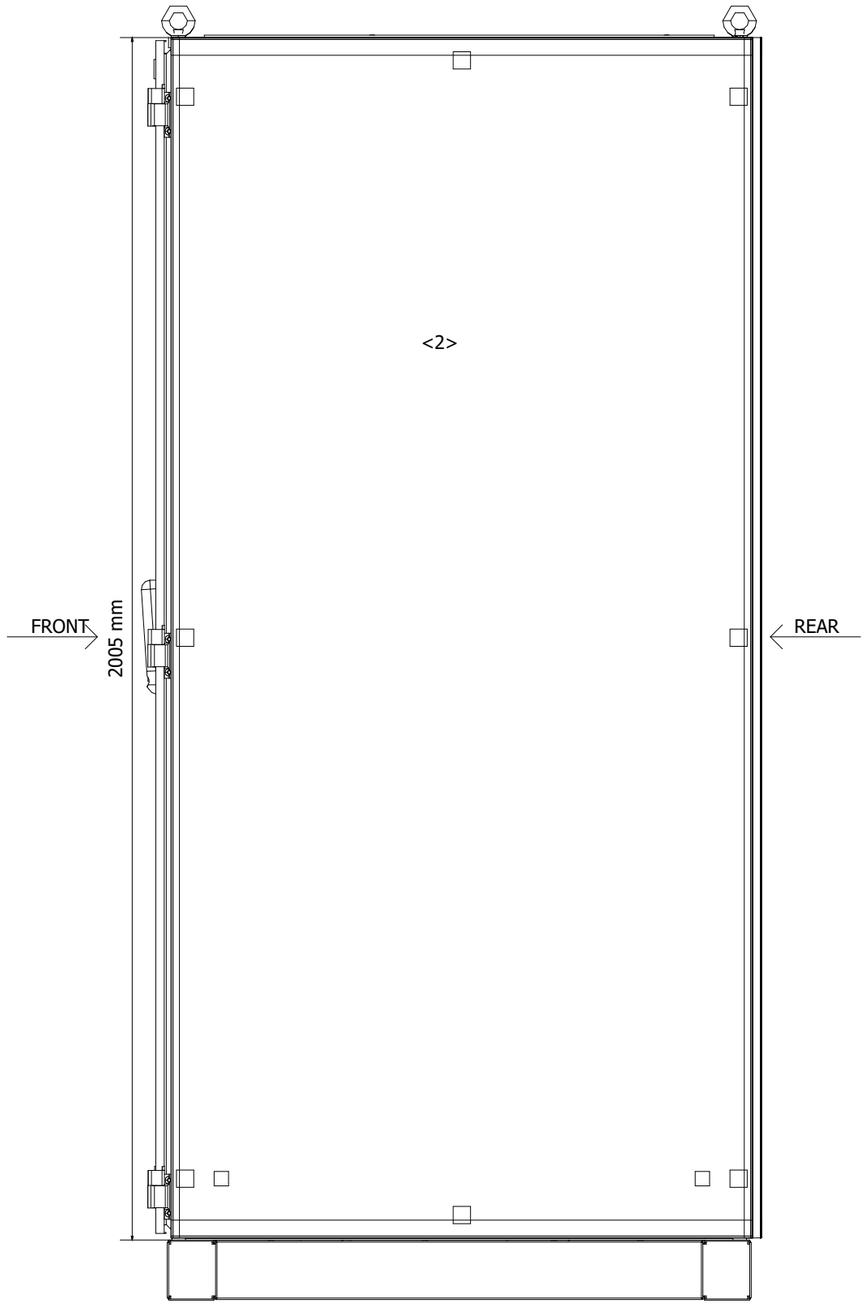
DRAWING NO. 1724000594-IN-DA-00011

SHEET 011

REV. 02

SERVER PANEL - EXTERNAL LEFT SIDE & RIGHT SIDE VIEW





DRAWING SCALE 1:10

REV	DATE	PREPARED	CHECKED	APPROVED	DESCRIPTION
2	19.09.2024	A.G.	A.B.	S.C.	ACCEPTED FOR CONSTRUCTION (AFC)
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YOKOGAWA◆ PROJECT Nr. E36672C00
DESCRIPTION: E366772C00-ITER_NLO

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
& WIRING DIAGRAM
SERVER - EXTERNAL LEFT SIDE & RIGHT SIDE VIEW

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

SCALE : 1

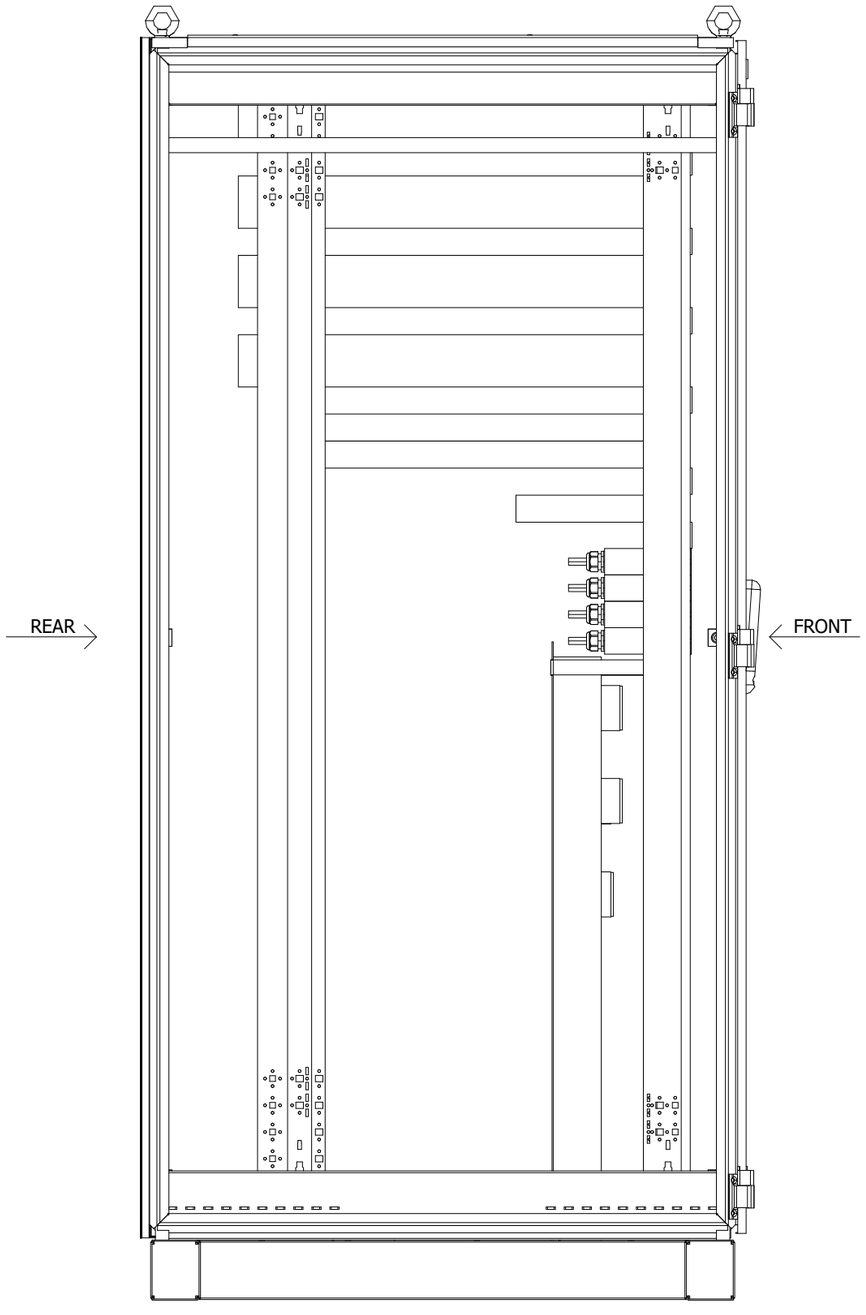
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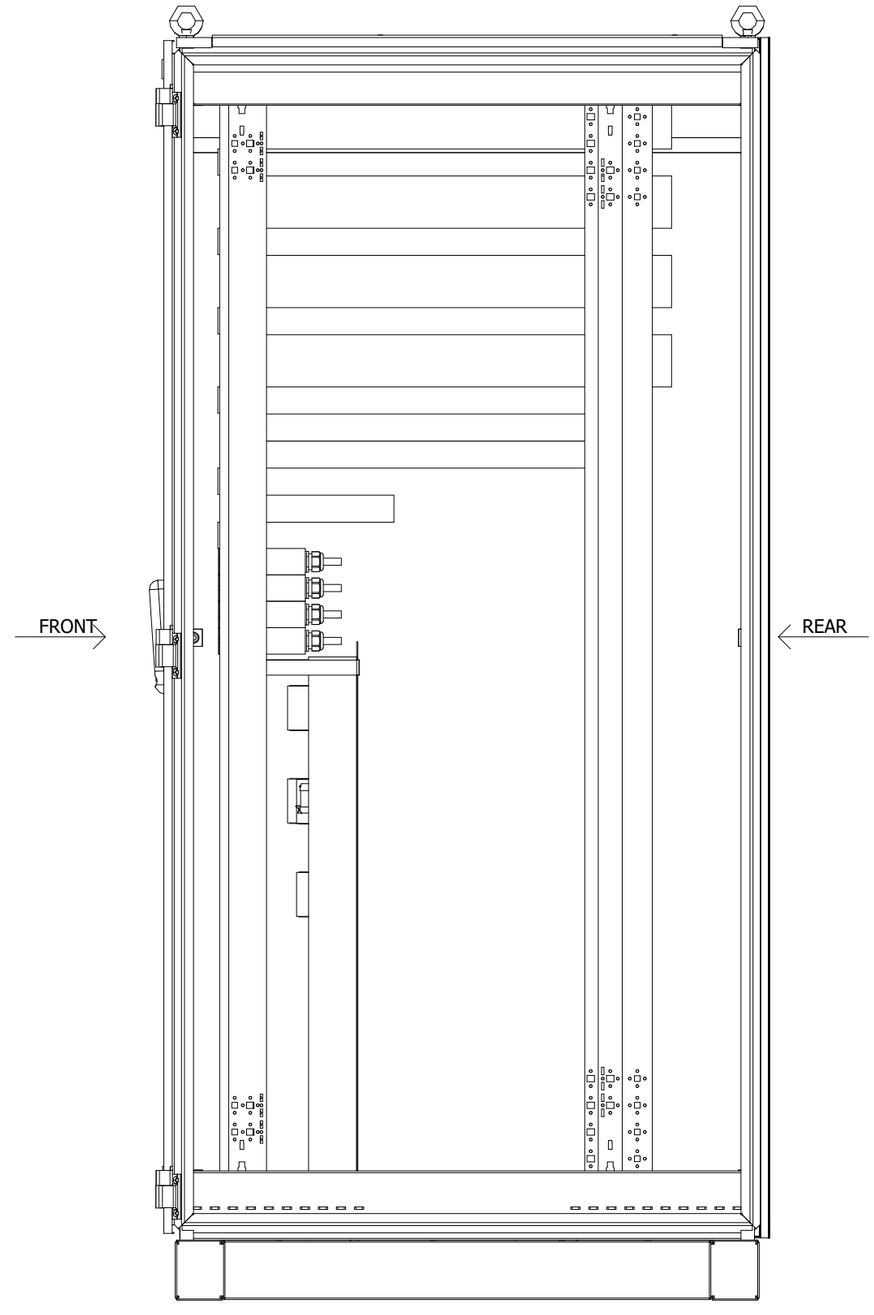
DRAWING NO. 1724000594-IN-DA-00011

SHEET 012

REV. 02

SERVER PANEL - EXTERNAL LEFT SIDE & RIGHT SIDE WHITOUT PANEL





DRAWING SCALE 1:10

REV	DATE	PREPARED	CHECKED	APPROVED	DESCRIPTION
2	19.09.2024	A.G.	A.B.	S.C.	ACCEPTED FOR CONSTRUCTION (AFC)
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YOKOGAWA◆ PROJECT Nr. E36672C00
DESCRIPTION: E366772C00-ITER_NLO

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
& WIRING DIAGRAM
SERVER - EXTERNAL LEFT SIDE & RIGHT SIDE VIEW WHITOUT PANEL

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

SCALE : 1

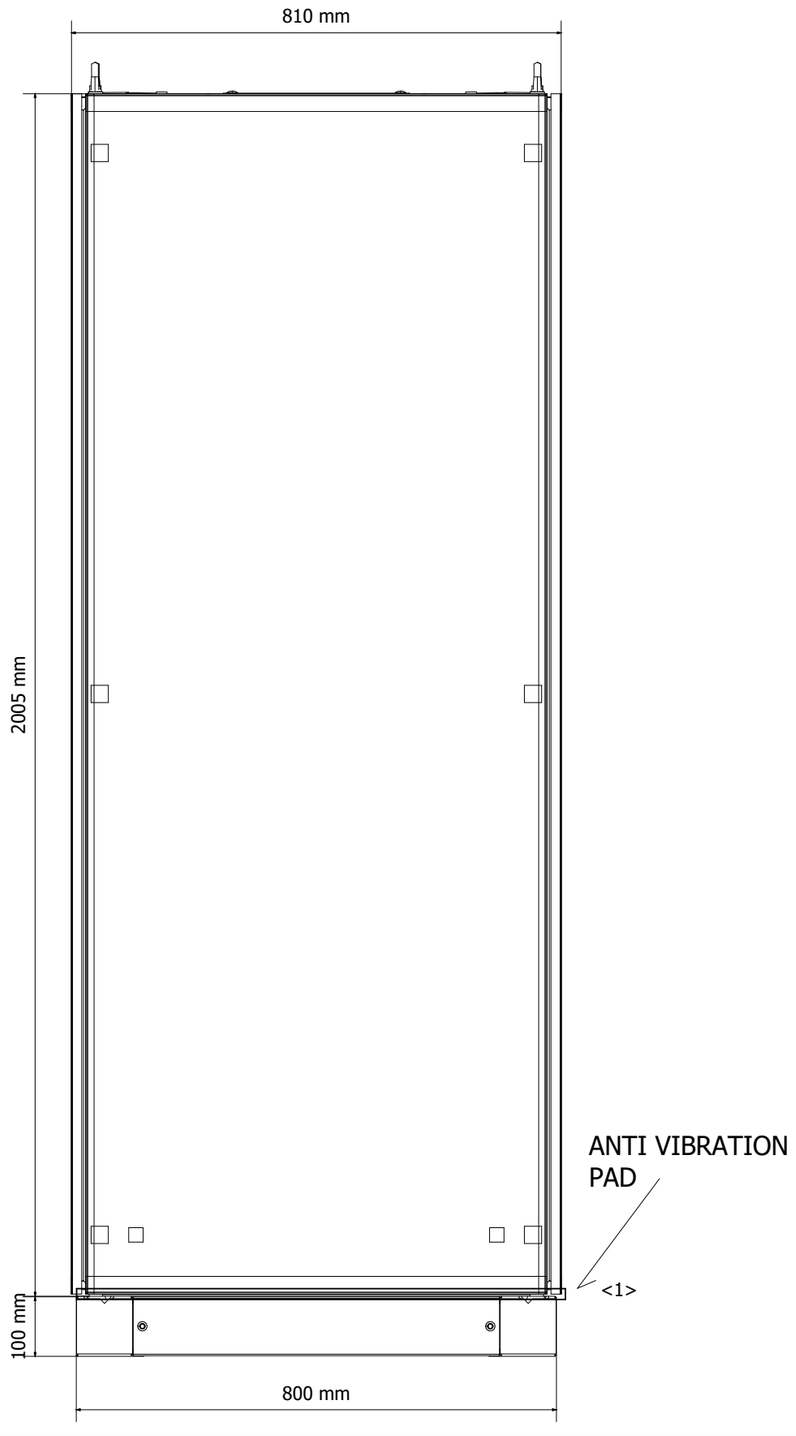
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DRAWING NO. 1724000594-IN-DA-00011

SHEET 013

REV. 02

SERVER PANEL - EXTERNAL REAR VIEW



DRAWING SCALE 1:10

REV	DATE	PREPARED	CHECKED	APPROVED	DESCRIPTION
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YOKOGAWA◆ PROJECT Nr. E36672C00
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CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
& WIRING DIAGRAM
SERVER - EXTERNAL REAR VIEW

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

SCALE : 1

A3

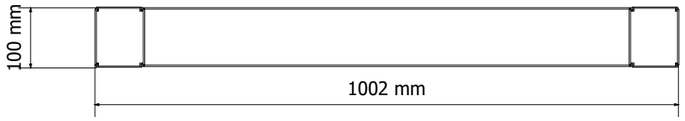
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SHEET 014

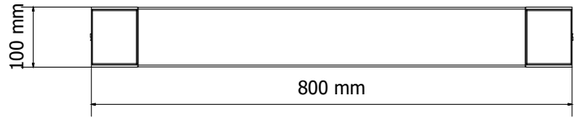
REV. 02

SERVER PANEL - BASEPLATE DETAILS

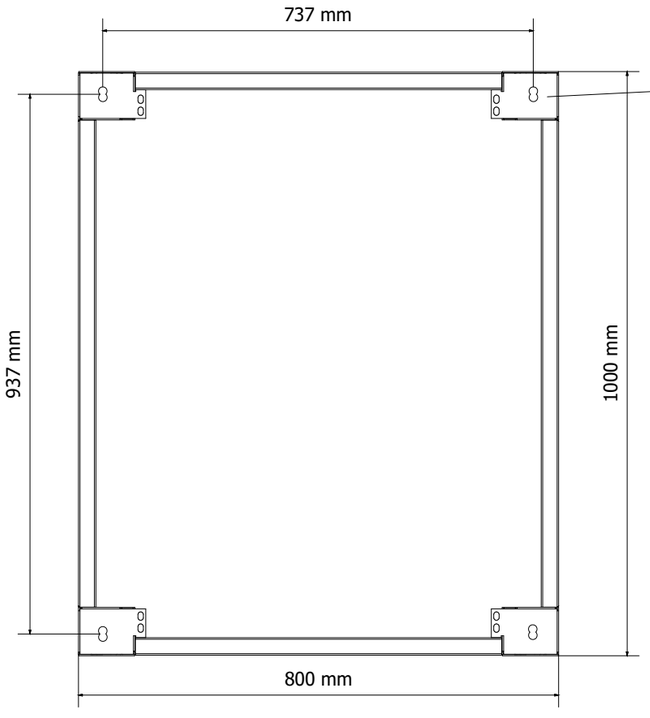
BASEPLATE SIDE VIEW

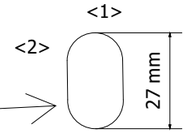


BASEPLATE FRONT VIEW



BASEPLATE BOTTOM VIEW
REAR SIDE





DETAIL OF FIXING HOLE:
Ø 16mm

BASEPLATE TOP VIEW
REAR SIDE

<1>

DRAWING SCALE 1:10

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DESCRIPTION: E366772C00-ITER_NLO

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
& WIRING DIAGRAM
SERVER - BASEPLATE DETAILS

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

SCALE : 1

A3

DRAWING NO. 1724000594-IN-DA-00011

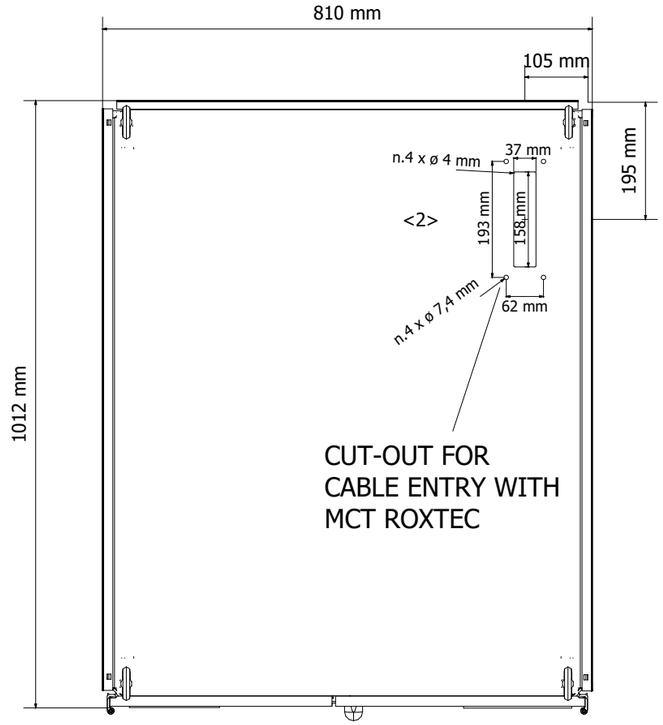
SHEET 015

REV. 02

SERVER PANEL - EXTERNAL & INTERNAL TOP VIEW

EXTERNAL TOP VIEW

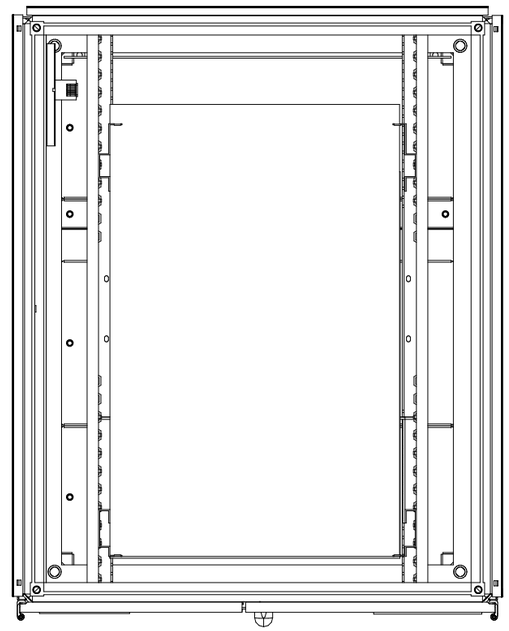
REAR



FRONT

INTERNAL TOP VIEW

REAR



FRONT

DRAWING SCALE 1:10

REV	DATE	PREPARED	CHECKED	APPROVED	DESCRIPTION
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YOKOGAWA◆ PROJECT Nr. E36672C00
DESCRIPTION: E366772C00-ITER_NLO

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
& WIRING DIAGRAM
SERVER - EXTERNAL & INTERNAL TOP VIEW

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

SCALE : 1

A3

DRAWING NO. 1724000594-IN-DA-00011

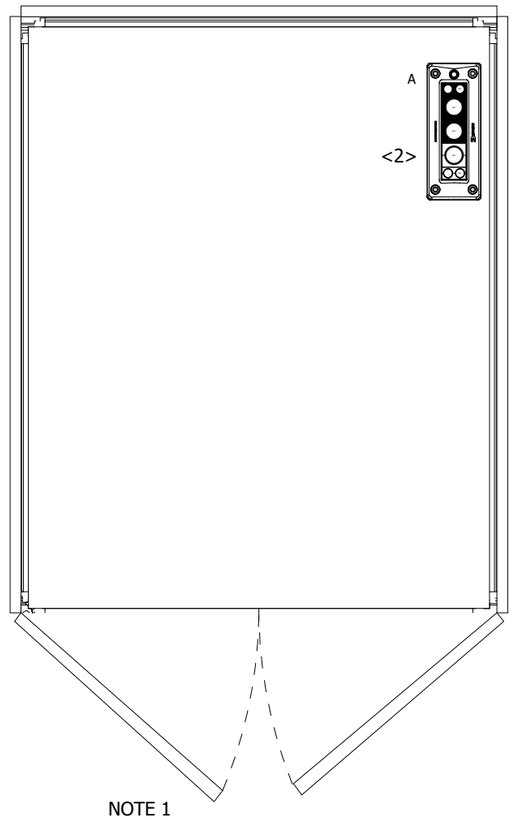
SHEET 016

REV. 02

SERVER PANEL - EXTERNAL TOP VIEW DOOR OPEN

EXTERNAL TOP VIEW
(DOOR OPEN)

REAR



NOTE 1

FRONT

<2>

CABLE TAG	CABLE TYPE	OUTER CABLE DIAMETER (mm)	MCT SIZE	POSITION
84307-CEL	3G6	18.3	40x40	A
84308-CEL	3G6	18.3	40x40	A
83109-CEL	3G2.5	13	20x40	A

NOTES :

NOTE 1: DOORS LOCK AT 90°

DRAWING SCALE 1:10

REV	DATE	PREPARED	CHECKED	APPROVED	DESCRIPTION
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YOKOGAWA◆ PROJECT Nr. E36672C00
DESCRIPTION: E366772C00-ITER_NLO

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
& WIRING DIAGRAM
SERVER - EXTERNAL TOP VIEW DOOR OPEN

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

SCALE : 1

A3

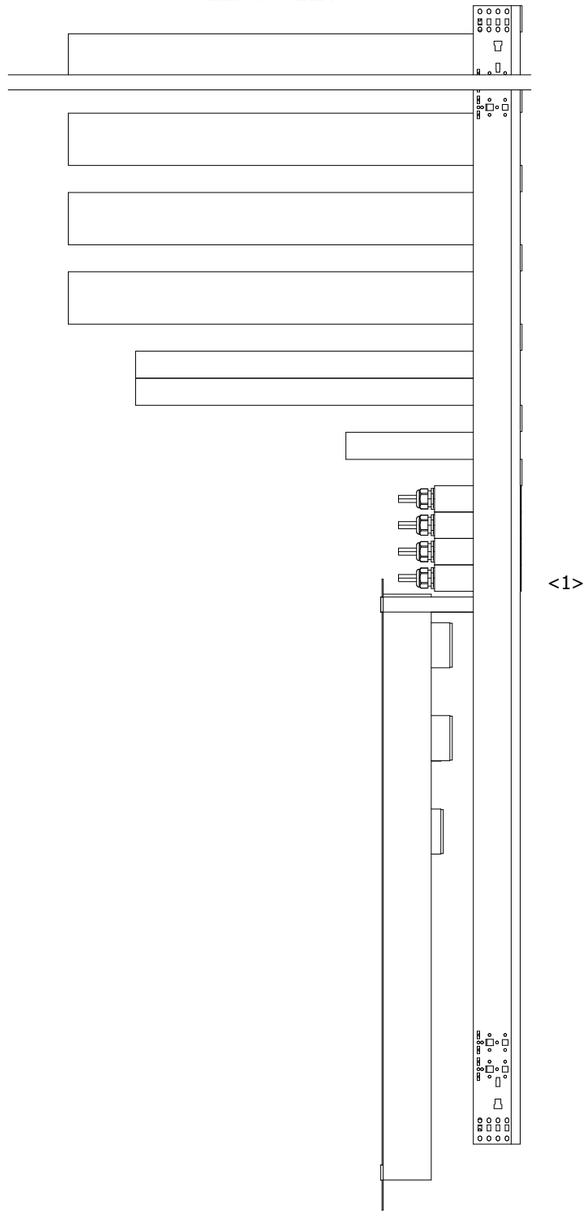
DRAWING NO. 1724000594-IN-DA-00011

SHEET 017

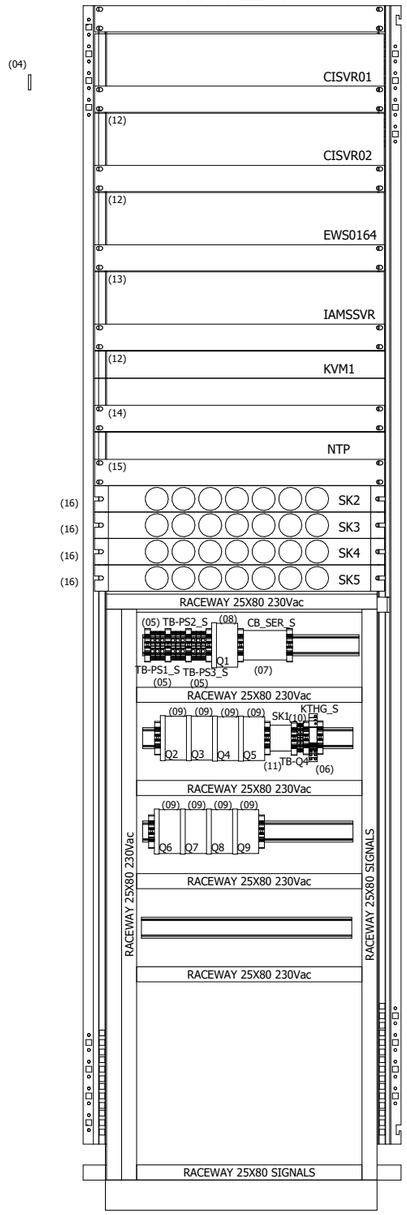
REV. 02

SERVER PANEL - FRONT SIDE INTERNAL VIEW

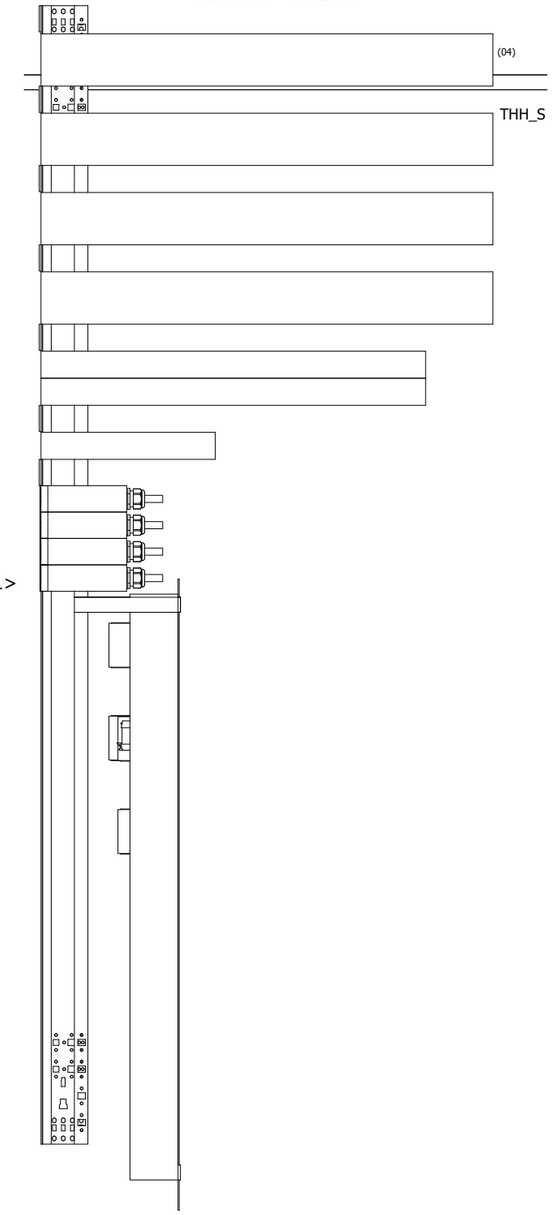
LEFT VIEW



FRONT VIEW



RIGHT VIEW



DRAWING SCALE 1:10

REV	DATE	PREPARED	CHECKED	APPROVED	DESCRIPTION
2	19.09.2024	A.G.	A.B.	S.C.	ACCEPTED FOR CONSTRUCTION (AFC)
1	10.07.2024	A.G.	A.B.	S.C.	ISSUE FOR REVIEW (IFR)
0	10.07.2024	A.G.	A.B.	S.C.	ISSUE FOR REVIEW (IFR)

YOKOGAWA◆ PROJECT Nr. E36672C00
DESCRIPTION: E366772C00-ITER_NLO

CROSSWIND | ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH) & WIRING DIAGRAM
SERVER - FRONT SIDE INTERNAL VIEWS

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

SCALE : 1

A3

DRAWING NO. 1724000594-IN-DA-00011

SHEET 018

REV. 02

SHEET LEFT INTENTIONALLY BLANK

2	19.09.2024	A.G.	A.B.	S.C.	ACCEPTED FOR CONSTRUCTION (AFC)
1	10.07.2024	A.G.	A.B.	S.C.	ISSUE FOR REVIEW (IFR)
0	10.07.2024	A.G.	A.B.	S.C.	ISSUE FOR REVIEW (IFR)
REV	DATE	PREPARED	CHECKED	APPROVED	DESCRIPTION

YOKOGAWA◆ PROJECT Nr. E36672C00
DESCRIPTION: E366772C00-ITER_NLO

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
& WIRING DIAGRAM
SERVER - SPARE PAGE

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

SCALE : 1

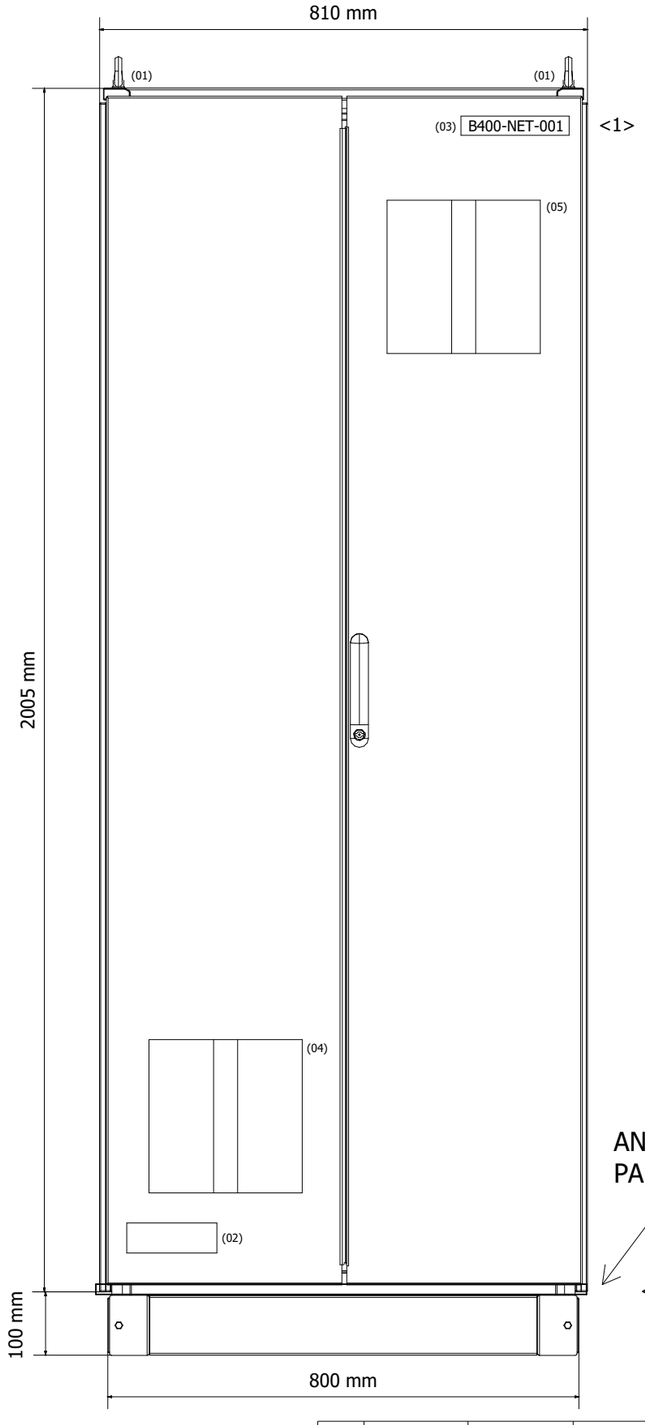
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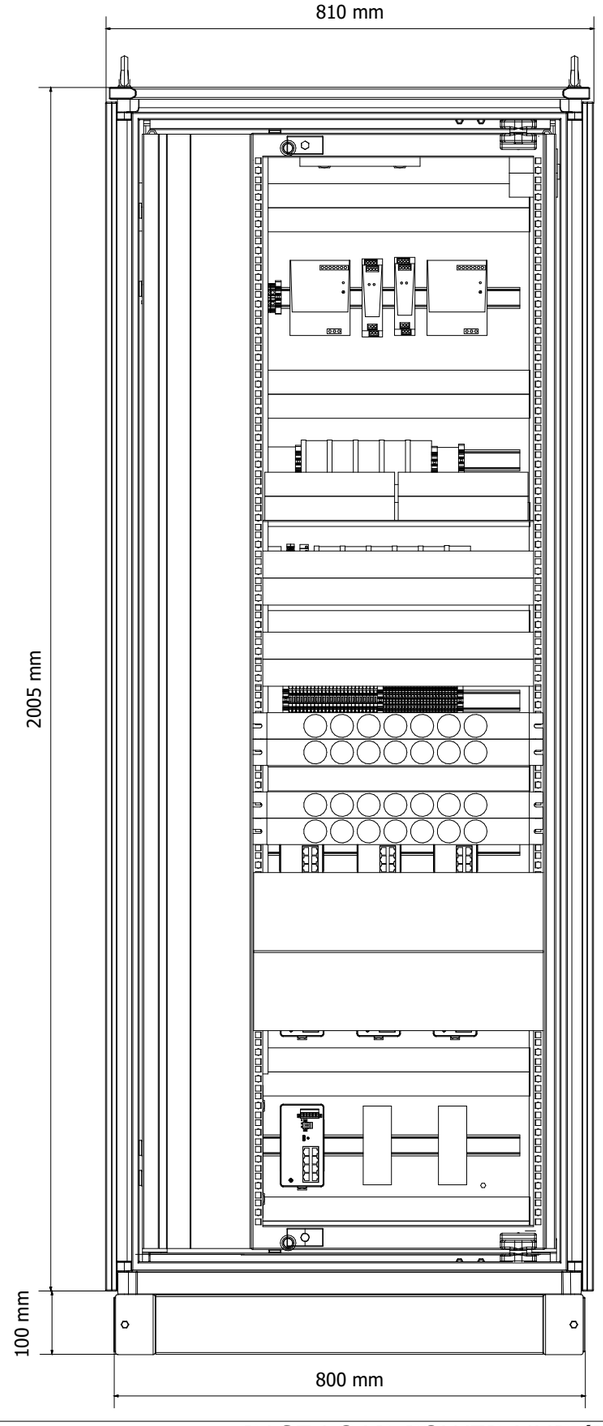
DRAWING NO. 1724000594-IN-DA-00011

SHEET 019

REV. 02

NETWORK PANEL - EXTERNAL FRONT VIEW & FRONT DOOR OPENED VIEW





DRAWING SCALE 1:10

REV	DATE	PREPARED	CHECKED	APPROVED	DESCRIPTION
2	19.09.2024	A.G.	A.B.	S.C.	ACCEPTED FOR CONSTRUCTION (AFC)
1	10.07.2024	A.G.	A.B.	S.C.	ISSUE FOR REVIEW (IFR)
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YOKOGAWA◆ PROJECT Nr. E36672C00
DESCRIPTION: E366772C00-ITER_NLO

CROSSWIND ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH) & WIRING DIAGRAM
NETWORK - EXTERNAL FRONT VIEW & FRONT DOOR OPENED VIEW

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

SCALE : 1

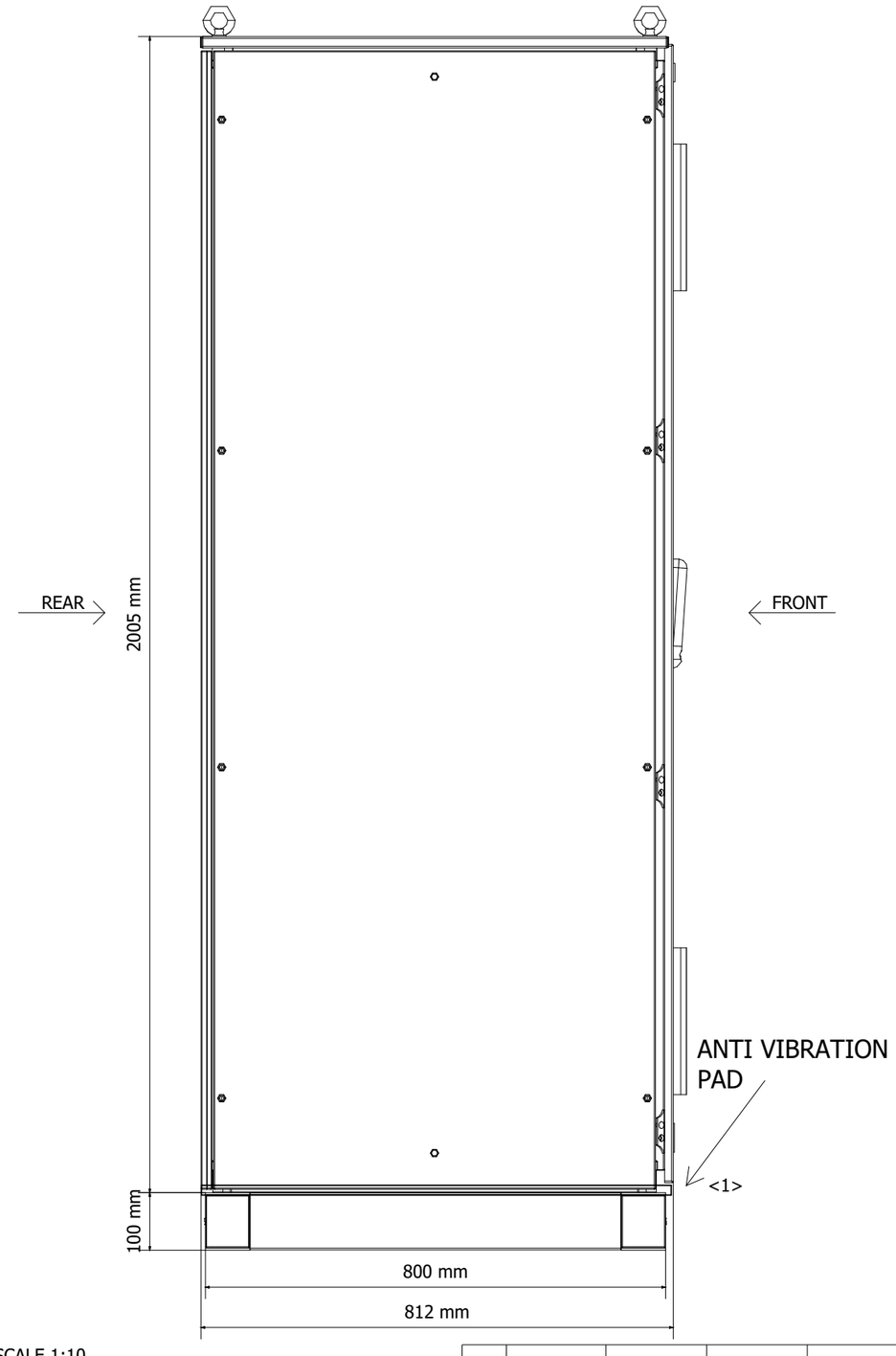
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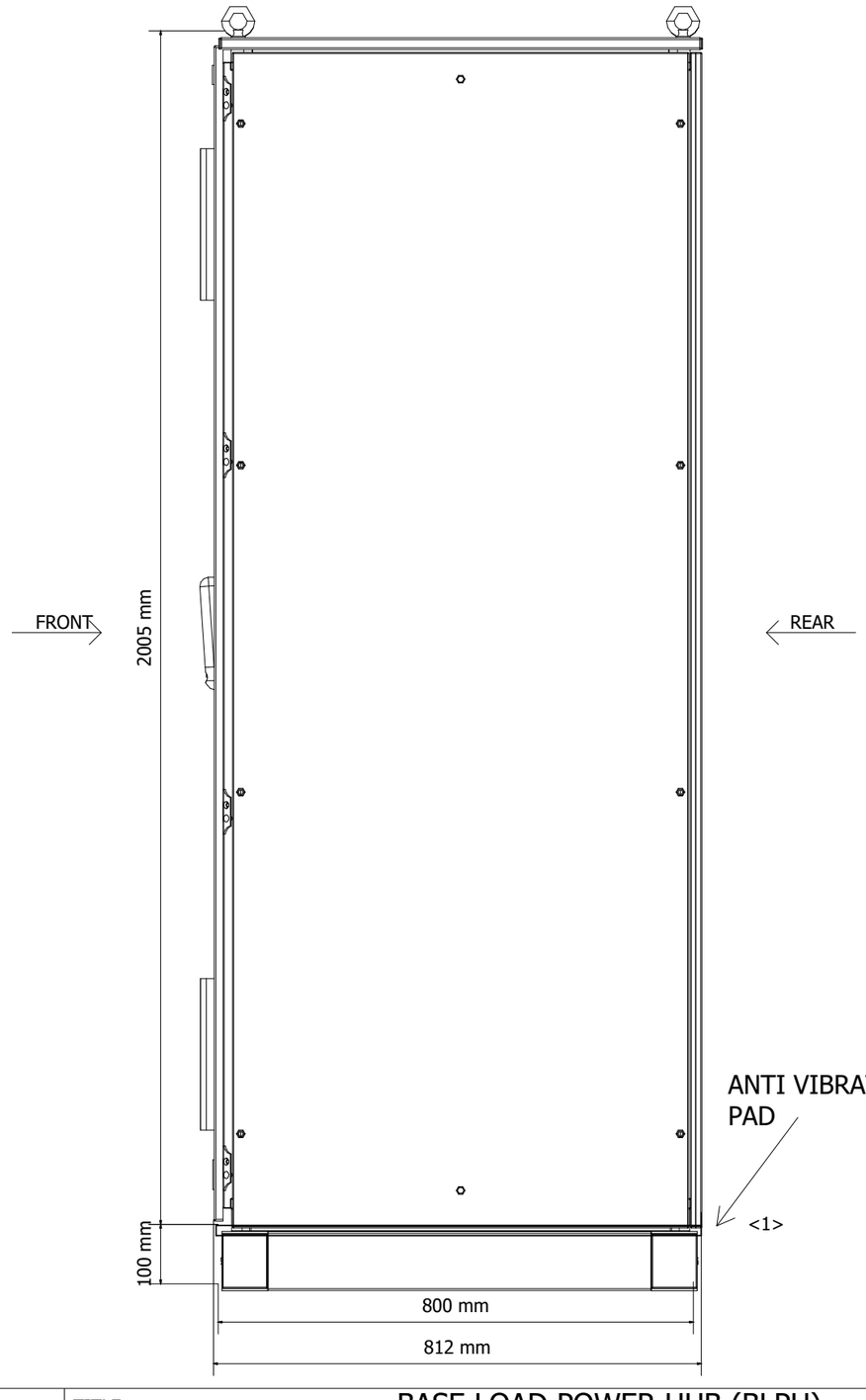
DRAWING NO. 1724000594-IN-DA-00011

SHEET 020

REV. 02

NETWORK PANEL - EXTERNAL LEFT SIDE & RIGHT SIDE VIEW





DRAWING SCALE 1:10

REV	DATE	PREPARED	CHECKED	APPROVED	DESCRIPTION
2	19.09.2024	A.G.	A.B.	S.C.	ACCEPTED FOR CONSTRUCTION (AFC)
1	10.07.2024	A.G.	A.B.	S.C.	ISSUE FOR REVIEW (IFR)
0	10.07.2024	A.G.	A.B.	S.C.	ISSUE FOR REVIEW (IFR)

YOKOGAWA◆ PROJECT Nr. E36672C00
DESCRIPTION: E366772C00-ITER_NLO

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
& WIRING DIAGRAM
NETWORK - EXTERNAL LEFT SIDE & RIGHT SIDE VIEW

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

SCALE : 1

A3

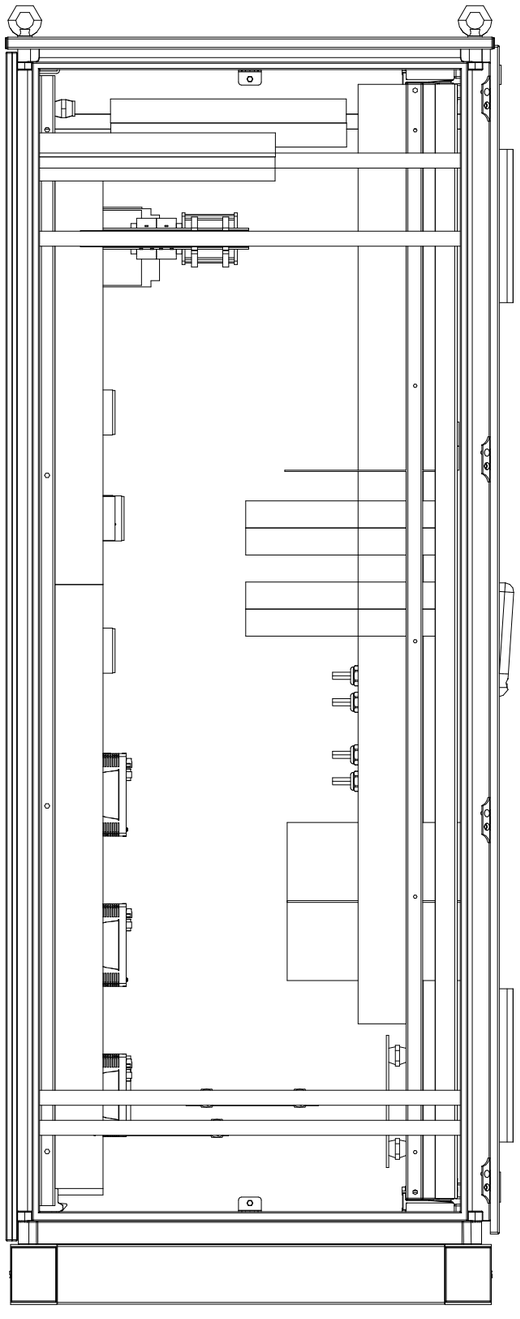
DRAWING NO. 1724000594-IN-DA-00011

SHEET 021

REV. 02

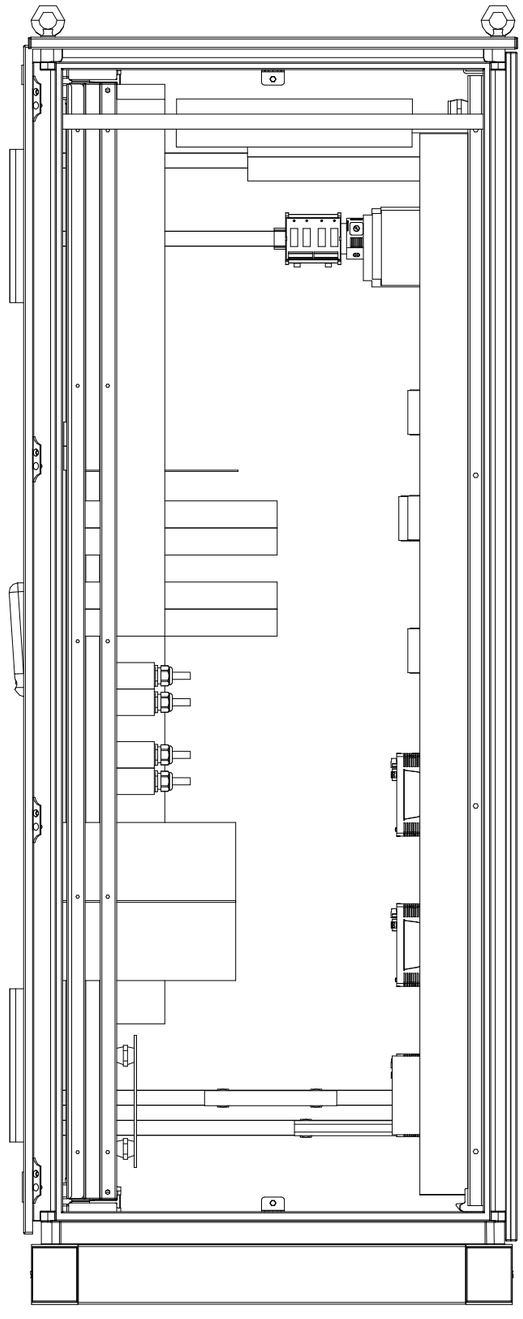
NETWORK PANEL - EXTERNAL LEFT SIDE & RIGHT SIDE WHITOUT PANEL

REAR



FRONT

FRONT



REAR

DRAWING SCALE 1:10

REV	DATE	PREPARED	CHECKED	APPROVED	DESCRIPTION
2	19.09.2024	A.G.	A.B.	S.C.	ACCEPTED FOR CONSTRUCTION (AFC)
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YOKOGAWA◆ PROJECT Nr. E36672C00
DESCRIPTION: E366772C00-ITER_NLO

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
& WIRING DIAGRAM
NETWORK - EXTERNAL LEFT SIDE & RIGHT SIDE VIEW WHITOUT PANEL

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

SCALE : 1

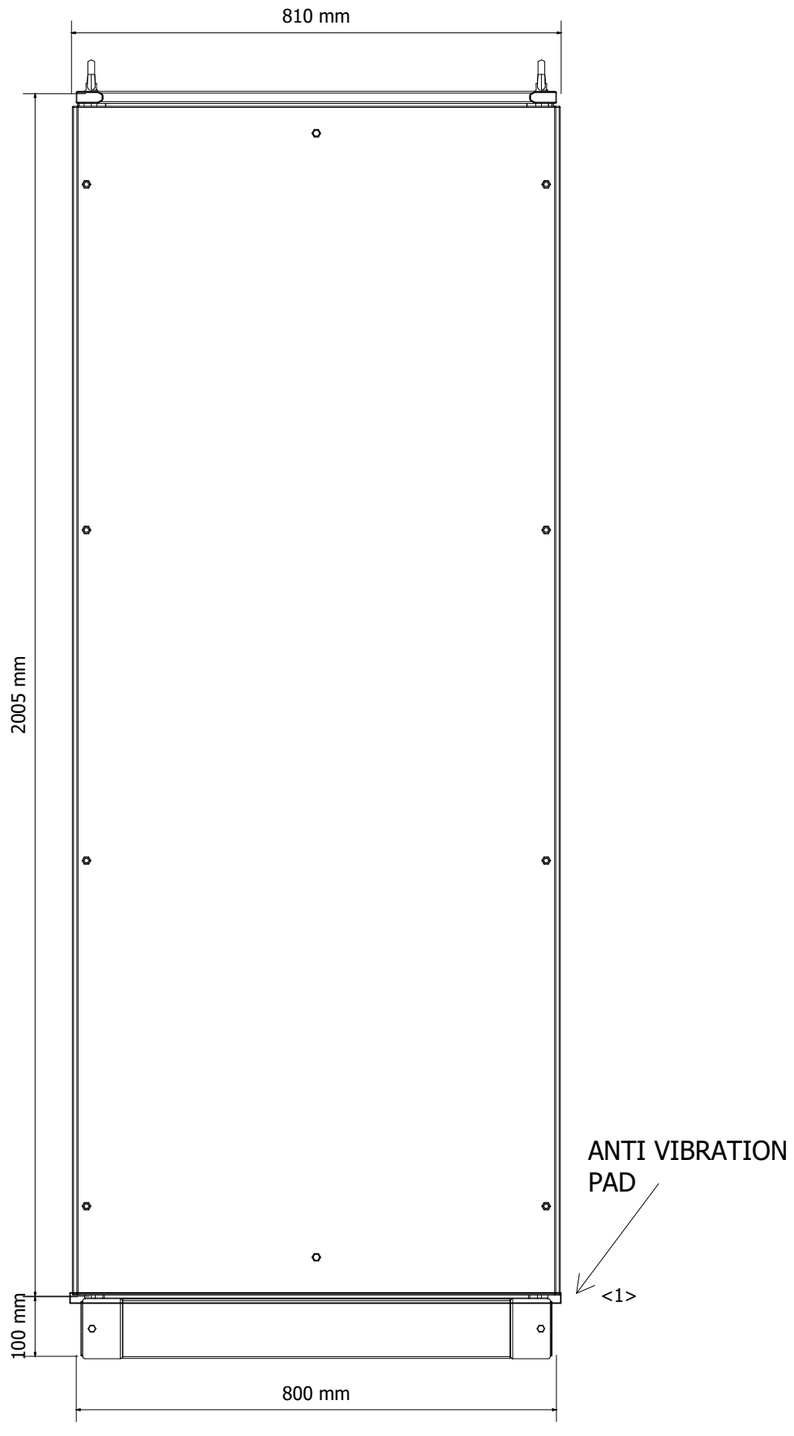
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DRAWING NO. 1724000594-IN-DA-00011

SHEET 022

REV. 02

NETWORK PANEL - EXTERNAL REAR VIEW



DRAWING SCALE 1:10

REV	DATE	PREPARED	CHECKED	APPROVED	DESCRIPTION
2	19.09.2024	A.G.	A.B.	S.C.	ACCEPTED FOR CONSTRUCTION (AFC)
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YOKOGAWA◆ PROJECT Nr. E36672C00
DESCRIPTION: E366772C00-ITER_NLO

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
& WIRING DIAGRAM
NETWORK - EXTERNAL REAR VIEW

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

SCALE : 1

A3

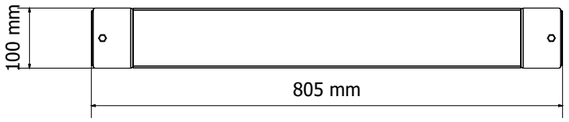
DRAWING NO. 1724000594-IN-DA-00011

SHEET 023

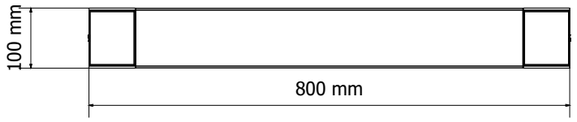
REV. 02

NETWORK PANEL - BASEPLATE DETAILS

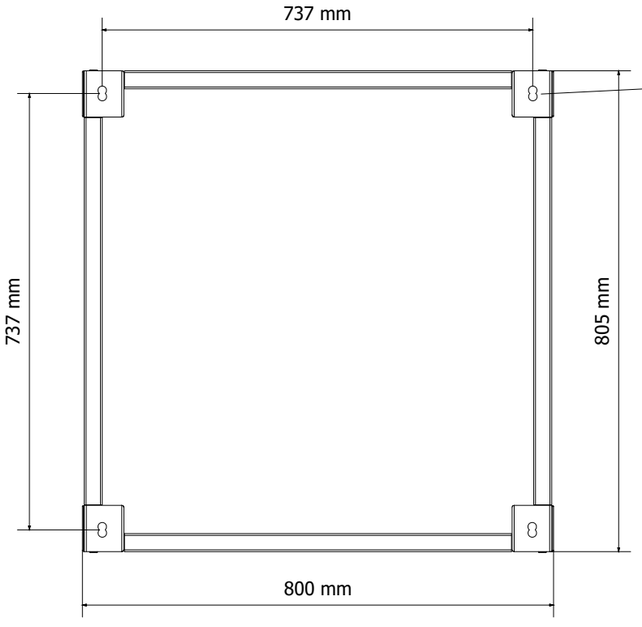
BASEPLATE SIDE VIEW



BASEPLATE FRONT VIEW

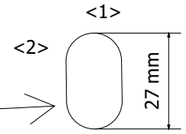


BASEPLATE BOTTOM VIEW
REAR SIDE



FRONT SIDE

BASEPLATE TOP VIEW
REAR SIDE



DETAIL OF FIXING HOLE:

Ø 16mm

<1>

DRAWING SCALE 1:10

REV	DATE	PREPARED	CHECKED	APPROVED	DESCRIPTION
2	19.09.2024	A.G.	A.B.	S.C.	ACCEPTED FOR CONSTRUCTION (AFC)
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YOKOGAWA◆ PROJECT Nr. E36672C00
DESCRIPTION: E366772C00-ITER_NLO

CROSSWIND ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
& WIRING DIAGRAM
NETWORK - BASEPLATE DETAILS

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

SCALE : 1

A3

DRAWING NO. 1724000594-IN-DA-00011

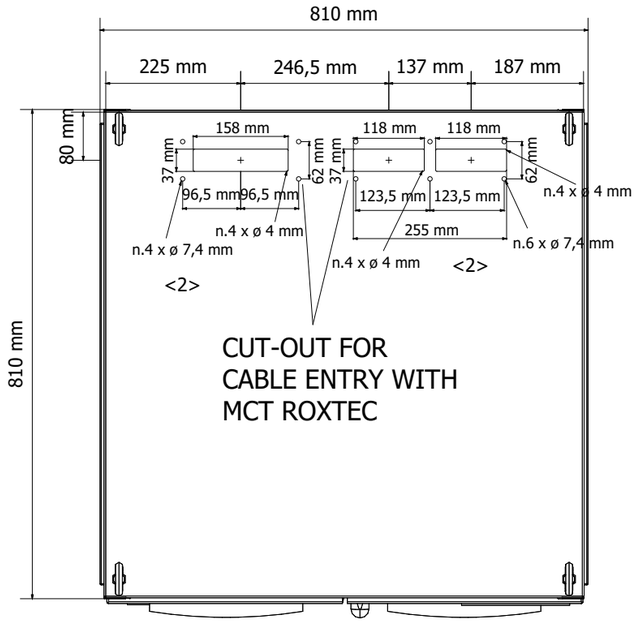
SHEET 024

REV. 02

NETWORK PANEL - EXTERNAL & INTERNAL TOP VIEW

EXTERNAL TOP VIEW

REAR



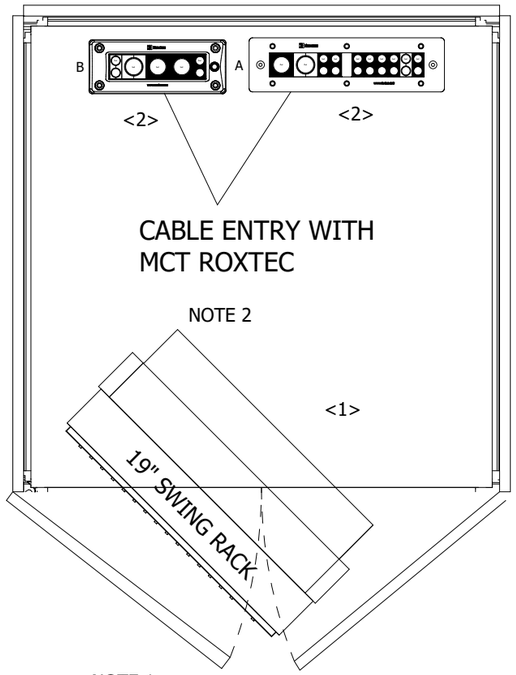
FRONT

<2>

CABLE TAG	CABLE TYPE	OUTER CABLE DIAMETER (mm)	MCT SIZE	POSITION
B100-HSB-001/B400-NET-001	CAT.6A 4x2xAWG23, Sh+ShT+ARM, F.Ret, GREEN, NIS	10.7	20x40	A
B200-HSB-001/B400-NET-001	CAT.6A 4x2xAWG23, Sh+ShT+ARM, F.Ret, GREEN, NIS	10.7	20x40	A
B300-HSB-001/B400-NET-001	CAT.6A 4x2xAWG23, Sh+ShT+ARM, F.Ret, GREEN, NIS	10.7	20x40	A
P320PLC/B400-NET-001.01	CAT.6A 4x2xAWG23, Sh+ShT+ARM, F.Ret, GREEN, NIS	10.7	20x40	A
P320PLC/B400-NET-001.02	CAT.6A 4x2xAWG23, Sh+ShT+ARM, F.Ret, GREEN, NIS	10.7	20x40	A
20-UCP-001/B400-NET-001.01	CAT.6A 4x2xAWG23, Sh+ShT+ARM, F.Ret, GREEN, NIS	10.7	20x40	A
20-UCP-001/B400-NET-001.02	CAT.6A 4x2xAWG23, Sh+ShT+ARM, F.Ret, GREEN, NIS	10.7	20x40	A
80-UCP-001/B400-NET-001.01	CAT.6A 4x2xAWG23, Sh+ShT+ARM, F.Ret, GREEN, NIS	10.7	20x40	A
80-UCP-001/B400-NET-001.02	CAT.6A 4x2xAWG23, Sh+ShT+ARM, F.Ret, GREEN, NIS	10.7	20x40	A
50-LP-001/B400-NET-001	CAT.6A 4x2xAWG23, Sh+ShT+ARM, F.Ret, GREEN, NIS	10.7	20x40	A
63-LP-001/B400-NET-001	CAT.6A 4x2xAWG23, Sh+ShT+ARM, F.Ret, GREEN, NIS	10.7	20x40	A
64-LP-001/B400-NET-001	CAT.6A 4x2xAWG23, Sh+ShT+ARM, F.Ret, GREEN, NIS	10.7	20x40	A
HNA6/B400-NET-001	FO12 OS2, ARM, F.Ret, YELLOW, NIS	8.5	20x40	A
X-FAULT-NET/B400-NET-001	6x2x0.75mm2,Sh+ShT+ARM,F.Ret,GREY,NIS	19.4	40x40	A
84403-CEL	3G2.5	15.5	40x40	B
84404-CEL	3G2.5	15.5	40x40	B
83108-CEL	3G2.5	13	20x40	B

EXTERNAL TOP VIEW (DOOR OPEN)

REAR

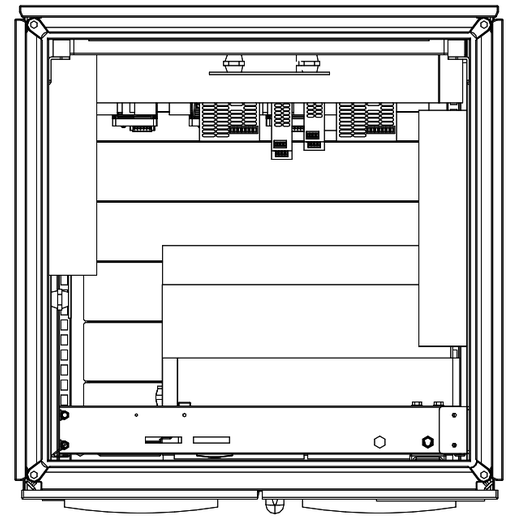


NOTE 1

FRONT

INTERNAL TOP VIEW

REAR



FRONT

NOTE 1: DOOR LOCK AT 130°
NOTE 2: DOOR LOCK AT 110°

DRAWING SCALE 1:10

REV	DATE	PREPARED	CHECKED	APPROVED	DESCRIPTION
2	19.09.2024	A.G.	A.B.	S.C.	ACCEPTED FOR CONSTRUCTION (AFC)
1	10.07.2024	A.G.	A.B.	S.C.	ISSUE FOR REVIEW (IFR)
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YOKOGAWA◆ PROJECT Nr. E36672C00
DESCRIPTION: E366772C00-ITER_NLO

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH) & WIRING DIAGRAM NETWORK - EXTERNAL & INTERNAL TOP VIEW

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

SCALE : 1

A3

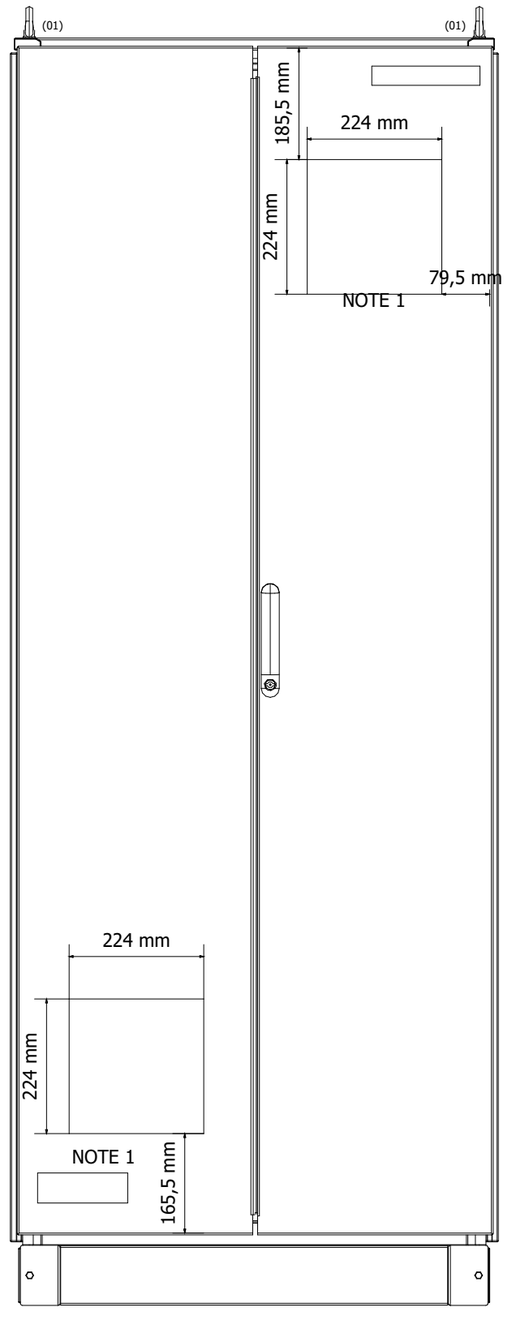
DRAWING NO. 1724000594-IN-DA-00011

SHEET 025

REV. 02

NETWORK PANEL - FRONT DOOR CUT-OUT DETAILS

<1>



NOTE 1 : CUT-OUT FOR AIR VENTILATION FILTER

<1>

<1>

DRAWING SCALE 1:10

YOKOGAWA◆ PROJECT Nr. E36672C00
DESCRIPTION: E366772C00-ITER_NLO

CROSSWIND | ROSETTI MARINO

REV	DATE	PREPARED	CHECKED	APPROVED	DESCRIPTION
2	19.09.2024	A.G.	A.B.	S.C.	ACCEPTED FOR CONSTRUCTION (AFC)
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TITLE : BASE LOAD POWER HUB (BLPH)
& WIRING DIAGRAM
NETWORK - FRONT DOOR CUT-OUT DETAILS

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

SCALE : 1

A3

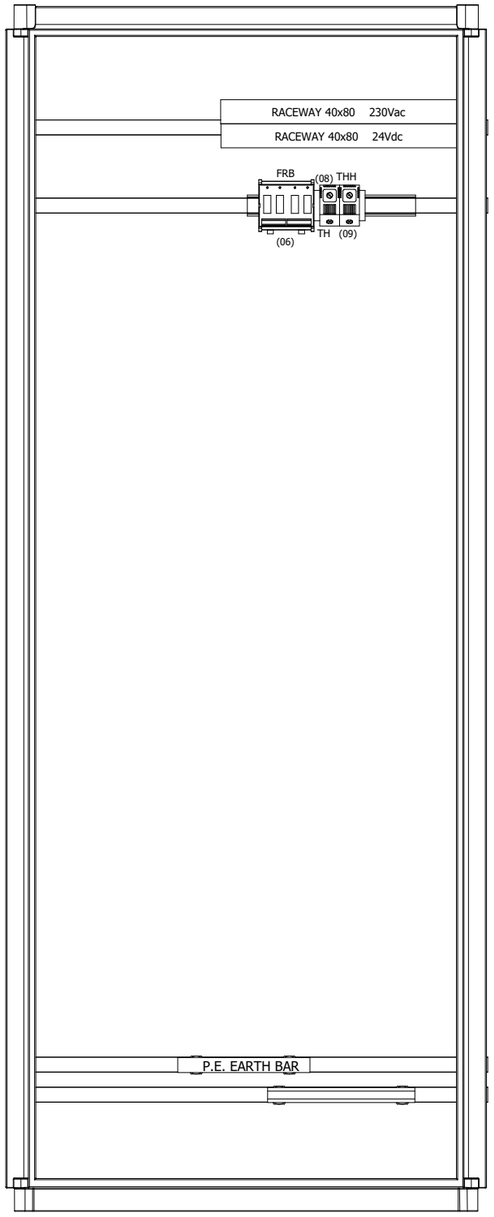
DRAWING NO. 1724000594-IN-DA-00011

SHEET 026

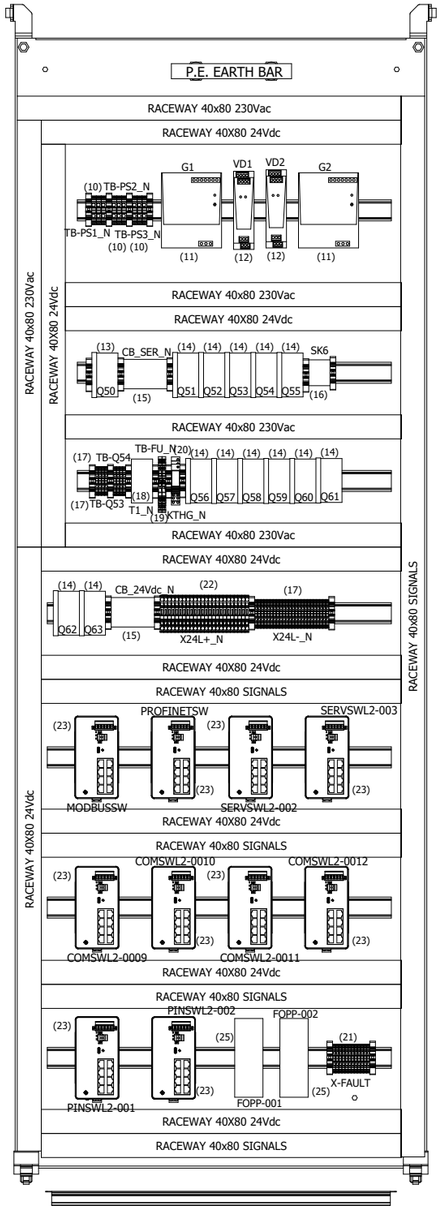
REV. 02

NETWORK PANEL - FRONT SIDE INTERNAL VIEW

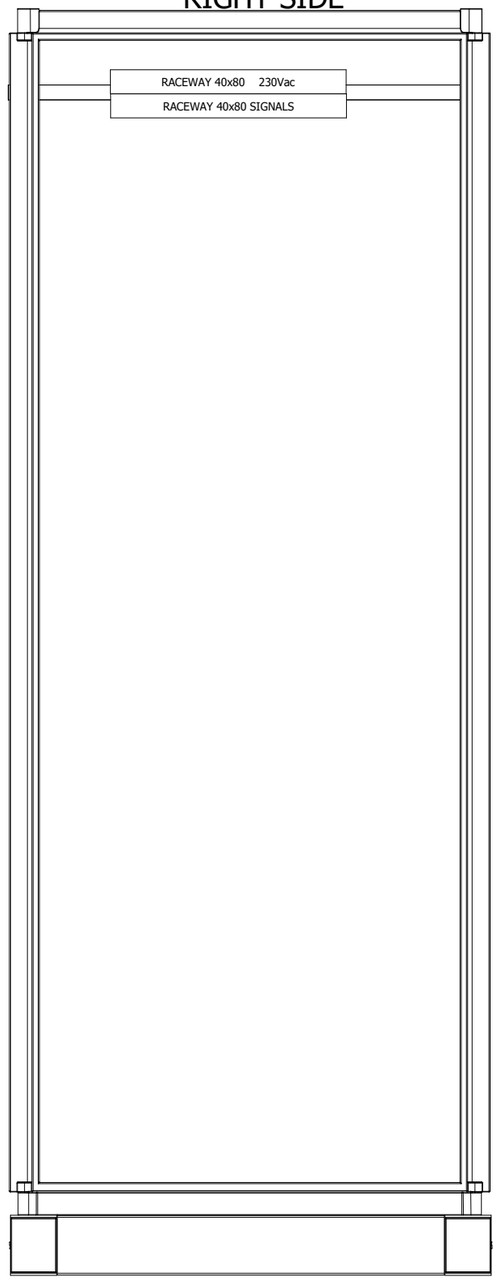
LEFT SIDE



FRONT PLATE



RIGHT SIDE



DRAWING SCALE 1:10

REV	DATE	PREPARED	CHECKED	APPROVED	DESCRIPTION
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YOKOGAWA◆ PROJECT Nr. E36672C00
DESCRIPTION: E366772C00-ITER_NLO

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
& WIRING DIAGRAM
NETWORK - FRONT SIDE INTERNAL VIEWS

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

SCALE : 1

A3

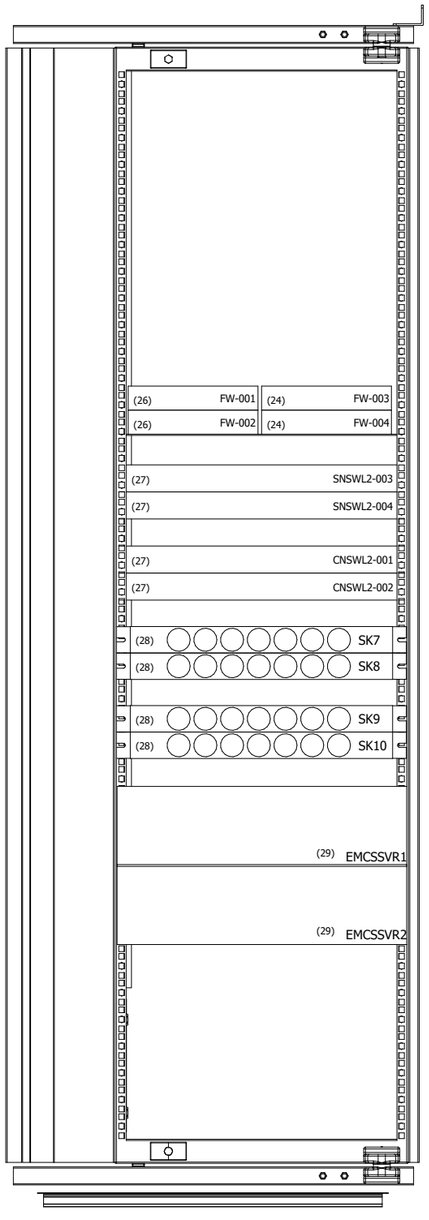
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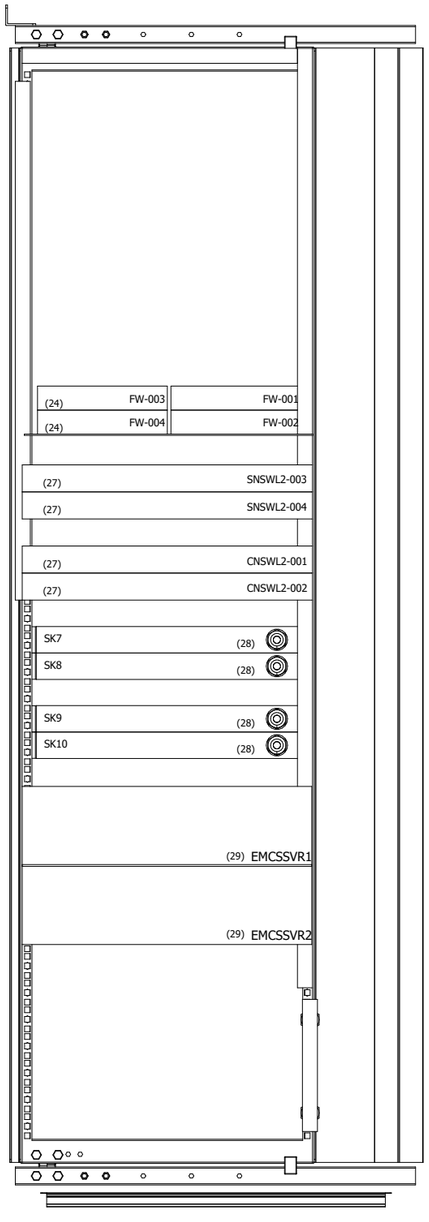
REV. 02

NETWORK PANEL - FRONT SIDE SWING RACK INTERNAL VIEW

FRONT RACK



REAR RACK



DRAWING SCALE 1:10

REV	DATE	PREPARED	CHECKED	APPROVED	DESCRIPTION
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YOKOGAWA◆ PROJECT Nr. E36672C00
DESCRIPTION: E366772C00-ITER_NLO

CROSSWIND | ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
& WIRING DIAGRAM
NETWORK - FRONT SIDE INTERNAL VIEWS

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

SCALE : 1

A3

DRAWING NO. 1724000594-IN-DA-00011

SHEET 028

REV. 02

SHEET LEFT INTENTIONALLY BLANK

2	19.09.2024	A.G.	A.B.	S.C.	ACCEPTED FOR CONSTRUCTION (AFC)
1	10.07.2024	A.G.	A.B.	S.C.	ISSUE FOR REVIEW (IFR)
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REV	DATE	PREPARED	CHECKED	APPROVED	DESCRIPTION

YOKOGAWA◆ PROJECT Nr. E36672C00
DESCRIPTION: E366772C00-ITER_NLO

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
& WIRING DIAGRAM
NETWORK - SPARE PAGE

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

SCALE : 1

A3

DRAWING NO. 1724000594-IN-DA-00011

SHEET 029

REV. 02

TYPICAL 01



TYPICAL 01

MANUFACTURER LABEL ITEM (02)

MATERIAL	:	ALUMINIUM
DIMENSION	:	150mm x 50mm (lxh)
BACKGROUND COLOUR	:	ALUMINIUM
TEXT COLOUR	:	BLACK & GREEN
FIXING	:	BY STAINLESS STEEL SCREWS

DRAWING SCALE 1:1

YOKOGAWA◆ PROJECT Nr. E36672C00
DESCRIPTION: E366772C00-ITER_NLO

CROSSWIND | ROSETTI MARINO

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TITLE : BASE LOAD POWER HUB (BLPH)
& WIRING DIAGRAM
BH AND MANUFACTURER LABEL DETAILS

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

SCALE : 1

A3

DRAWING NO. 1724000594-IN-DA-00011

SHEET 030

REV. 02

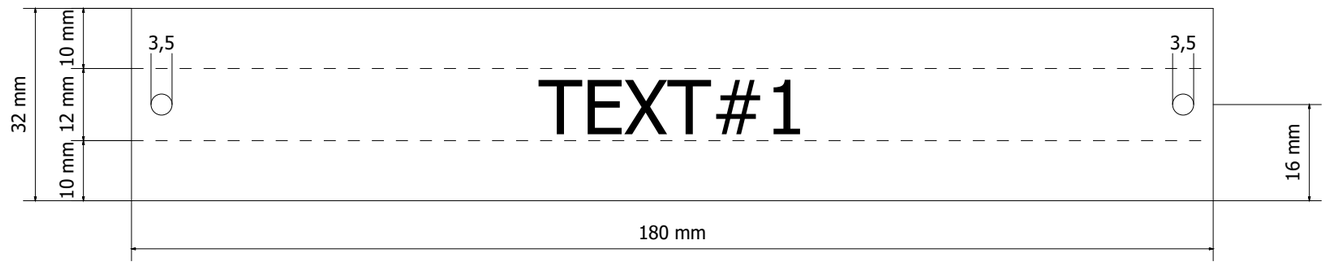
SERVER AND NETWORK PANEL - SECTION IDENTIFIER NAMEPLATE DETAILS

TYPICAL 02

LABEL FOR SECTION IDENTIFIER ITEM (03)

MATERIAL	:	TRAFOLYTE
DIMENSION	:	200mm x 45mm (lxh)
BACKGROUND COLOUR	:	TRAFOLYTE
TEXT COLOUR	:	BLACK
TEXT HEIGHT	:	15 mm / 10 mm
TEXT FONT	:	ARIAL
FIXING	:	BY STAINLESS STEEL SCREWS

TYPICAL 02



CABINET	TEXT#1
SERVER	B400-SRV-001
NETWORK	B400-NET-001

DRAWING SCALE 1:1

REV	DATE	PREPARED	CHECKED	APPROVED	DESCRIPTION
2	19.09.2024	A.G.	A.B.	S.C.	ACCEPTED FOR CONSTRUCTION (AFC)
1	10.07.2024	A.G.	A.B.	S.C.	ISSUE FOR REVIEW (IFR)
0	10.07.2024	A.G.	A.B.	S.C.	ISSUE FOR REVIEW (IFR)

YOKOGAWA◆ PROJECT Nr. E36672C00
DESCRIPTION: E366772C00-ITER_NLO

CROSSWIND ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
& WIRING DIAGRAM
SERVER AND NETWORK SECTION IDENTIFIER NAMEPLATE DETAILS

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

SCALE : 1

A3

DRAWING NO. 1724000594-IN-DA-00011

SHEET 031

REV. 02

SHEET LEFT INTENTIONALLY BLANK

DRAWING SCALE 1:1

REV	DATE	PREPARED	CHECKED	APPROVED	DESCRIPTION
2	19.09.2024	A.G.	A.B.	S.C.	ACCEPTED FOR CONSTRUCTION (AFC)
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YOKOGAWA◆ PROJECT Nr. E36672C00
DESCRIPTION: E366772C00-ITER_NLO

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
& WIRING DIAGRAM
SPARE PAGE

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

SCALE : 1

A3

DRAWING NO. 1724000594-IN-DA-00011

SHEET 032

REV. 02

CERTIFICATION LABELS DETAILS

TYPICAL 05

LABEL FOR ITEM IDENTIFIER : ITEM (25)

MATERIAL	:	TRAFFOLYTE
DIMENSION	:	150mm x 150mm (lxh)
BACKGROUND COLOUR	:	WHITE
TEXT COLOUR	:	BLACK
TEXT HEIGHT	:	4 mm
TEXT FONT	:	ARIAL
FIXING	:	SS316L SCREWS OR RIVETS

T.B.D.

DRAWING SCALE 1:1
ALL QUOTES SHOWN ARE IN MILLIMETERS

REV	DATE	PREPARED	CHECKED	APPROVED	DESCRIPTION
2	19.09.2024	A.G.	A.B.	S.C.	ACCEPTED FOR CONSTRUCTION (AFC)
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YOKOGAWA◆ PROJECT Nr. E36672C00
DESCRIPTION: E366772C00-ITER_NLO

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
& WIRING DIAGRAM
CERTIFICATION LABEL

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

SCALE : 1

A3

DRAWING NO. 1724000594-IN-DA-00011

SHEET 033

REV. 02

SERVER PANEL COMPONENT LIST

POS.	DESCRIPTION	MANUFACTURER TYPE & MODEL	SHIPPING BOM MARK	Q.TY	NAMEPLATE
01	REMOVABLE LIFTING LUGS -	MANUFACTURER STANDARD	NA001_01	4	MECHANICAL PART NAMEPLATE NOT REQUIRED
02	CABINET MANUFACTURER LABEL -	MANUFACTURER STANDARD	NA001_02	1	DETAILS ON SHEET 033 <1> TYPICAL 02
03	SECTION IDENTIFICATION LABEL -	MANUFACTURER STANDARD	NA001_03	1	DETAILS ON SHEET 028 TYPICAL 03
04	- <2> -	- <2>	- <2>	- <2>	- - <2>
05	FEED-THROUGH TYPE TERMINAL SCREW TYPE - GREY COLOUR - SECTION 6mm²	PHOENIX CONTACT UT 6	NA001_05	9	TB-PS1_S ÷ TB-PS3_S (INTERNAL LABEL) EXTERNAL LABEL NOT REQUIRED
06	INTERPOSING RELAY FOR HEATER CUT-OUT COIL - 240Vac - 50Hz - 2 CONTACTS	PHOENIX CONTACT PLC-RCS-230UC/21-21 PXC.2967099	NA001_06	1	KTHG_S (INTERNAL LABEL) EXTERNAL LABEL NOT REQUIRED
07	2 POLES COMMON BOX - 7 CONNECTION EACH POLE -	CABUR QBLOCK2P100A7	NA001_07	1	CB_SER_S (INTERNAL LABEL) EXTERNAL LABEL NOT REQUIRED
08	PURE Id CIRCUIT BREAKER WITH AUXILIARY CONTACT 2 POLES - 240Vac - 50Hz - 25A - Id: 30mA	EATON FAZ SERIES	NA001_08	1	Q1 (INTERNAL LABEL) EXTERNAL LABEL NOT REQUIRED
09	AUTOMATIC MAGNETO-THERMAL CIRCUIT BREAKER - 115Vac / 240Vac <2> WHIT AUXILIARY CONTACT	EATON FAZ SERIES	NA001_09	8	Q2 ÷ Q9 (INTERNAL LABEL) EXTERNAL LABEL NOT REQUIRED
10	DISTRIBUTION TERMINALS - SCREW TYPE - SECTION 2.5mm² FEED THROUGH TYPE - GREY COLOUR	PHOENIX CONTACT UT 2.5 PXC.3044076	NA001_10	2	TB-Q4 (INTERNAL LABLE) EXTERNAL LABEL NOT REQUIRED
11	SERVICE SOCKET INCLUDING SOCKET DIN MOUNTING KIT	MANUFACTURER STANDARD	NA001_11	1	SK1 (INTERNAL LABEL) EXTERNAL LABEL NOT REQUIRED
12	SERVER (CI-CORE & IAMS) -	<2> DELL GP4SY	NA001_12	3	<2> CISVR01-CISVR02-IAMSSVR (INTERNAL LABEL) EXTERNAL LABEL NOT REQUIRED
13	SERVER (PCS + SIS, FGS) <2> -	<2> DELL GP4SY	NA001_13	1	<2> EWS0164 (INTERNAL LABEL) EXTERNAL LABEL NOT REQUIRED
14	8-PORT SLIDEAWAY 17" LCDKVM SWITCH -	ATEN CL1008M	NA001_14	1	KVM1 (INTERNAL LABEL) EXTERNAL LABEL NOT REQUIRED

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YOKOGAWA◆ PROJECT Nr. E36672C00
DESCRIPTION: E366772C00-ITER_NLO

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
& WIRING DIAGRAM
SERVER MAIN COMPONENT LIST

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

SCALE : 1

A3

DRAWING NO. 1724000594-IN-DA-00011

SHEET 034

REV. 02

SERVER PANEL COMPONENT LIST

POS.	DESCRIPTION	MANUFACTURER TYPE & MODEL	SHIPPING BOM MARK	Q.TY	NAMEPLATE
15	LANTIME NTP SERVER INCOL.2x 10/100 MBIT PORTS + GPS ANTENNA -	<2> MEINBERG LANTIME M1000-IMS	NA001_15	1	<2> NTP (INTERNAL LABEL) EXTERNAL LABEL NOT REQUIRED
16	RACKMOUNT DISTRIBUTION SOCKETS -	MANUFACTURER STANDARD	NA001_16	4 <2>	<2> SK2÷SK5 (INTERNAL LABEL) EXTERNAL LABEL NOT REQUIRED
17	- -	-	-	-	- -
18	- -	-	-	-	- -
19	- -	-	-	-	- -
20	- -	-	-	-	- -
21	- -	-	-	-	- -
22	- -	-	-	-	- -
23	- -	-	-	-	- -
24	- -	-	-	-	- -
25	- -	-	-	-	- -
26	- -	-	-	-	- -
27	- -	-	-	-	- -
28	- -	-	-	-	- -

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YOKOGAWA◆ PROJECT Nr. E36672C00
DESCRIPTION: E366772C00-ITER_NLO

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
& WIRING DIAGRAM
SERVER MAIN COMPONENT LIST

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

SCALE : 1

A3

DRAWING NO. 1724000594-IN-DA-00011

SHEET 035

REV. 02

NETWORK PANEL COMPONENT LIST

POS.	DESCRIPTION	MANUFACTURER TYPE & MODEL	SHIPPING BOM MARK	Q.TY	NAMEPLATE
01	REMOVABLE LIFTING LUGS -	MANUFACTURER STANDARD	NA001_01	4	MECHANICAL PART NAMEPLATE NOT REQUIRED
02	CABINET MANUFACTURER LABEL -	MANUFACTURER STANDARD	NA001_02	1	DETAILS ON SHEET 033 <1> TYPICAL 02
03	SECTION IDENTIFICATION LABEL -	MANUFACTURER STANDARD	NA001_03	1	DETAILS ON SHEET 028 TYPICAL 03
04	AIR INLET FILTER -	AUGER STANDARD	NA001_04	1	MECHANICAL PART NAMEPLATE NOT REQUIRED
05	FRONT-MOUNTED AIR EXTRACTOR FAN (SUPPLIED WITH AIR FILTER) -	AUGER STANDARD	NA001_05	1	EV (INTERNAL LABEL) EXTERNAL LABEL NOT REQUIRED
06	PRE-ASSEMBLED RELAY BOARD FOR FAN FAULT CIRCUIT -	PREI	NA001_06	1	FRB (INTERNAL LABEL) EXTERNAL LABEL NOT REQUIRED
07	- <1> -	- <1>	- <1>	- <1>	- <1> -
08	THERMOSTAT FOR FAN ON/OFF CIRCUIT -	MANUFACTURER STANDAR	NA001_08	1	<1> TH (INTERNAL LABEL) EXTERNAL LABEL NOT REQUIRED
09	THERMOSTAT FOR HIGH TEMPERATURE ALARM -	MANUFACTURER STANDARD	NA001_09	1	<1> THH (INTERNAL LABEL) EXTERNAL LABEL NOT REQUIRED
10	FEED-THROUGH TYPE TERMINAL SCREW TYPE - GREY COLOUR - SECTION 6mm²	PHOENIX CONTACT UT 6	NA001_10	9	TB-PS1_N ÷ TB-PS3_N (INTERNAL LABEL) EXTERNAL LABEL NOT REQUIRED
11	POWER SUPPLY FEEDER MODULE INPUT 230Vac (AUTO-RANGING) - OUTPUT 24Vdc-20a	WEIDMULLER QUINT4-PS/1AC/24DC/20 WDM.1469510000	NA001_11	2	G1 ÷ G2 (INTERNAL LABEL) EXTERNAL LABLE NOT REQUIRED
12	DECOUPLING & PROTECTIVE DIODE FOR REDUNDANCY - 24Vdc -	WEIDMULLER PRO DM 20 WDM.2486080000	NA001_12	2	VD1 - VD2 (INTERNAL LABEL) EXTERNAL LABLE NOT REQUIRED
13	PURE Id CIRCUIT BREAKER WITH AUXILIARY CONTACT 2 POLES - 240Vac - 50Hz - 25A - Id: 30mA	EATON FAZ SERIES	NA001_13	1	Q50 (INTERNAL LABEL) EXTERNAL LABEL NOT REQUIRED
14	AUTOMATIC MAGNETO-THERMAL CIRCUIT BREAKER - 115Vac / 240Vac <1> WHIT AUXILIARY CONTACT	EATON FAZ SERIES	NA001_14	13	Q51 ÷ Q63 (INTERNAL LABEL) EXTERNAL LABEL NOT REQUIRED

REV	DATE	PREPARED	CHECKED	APPROVED	DESCRIPTION
2	19.09.2024	A.G.	A.B.	S.C.	ACCEPTED FOR CONSTRUCTION (AFC)
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YOKOGAWA◆ PROJECT Nr. E36672C00
DESCRIPTION: E366772C00-ITER_NLO

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
& WIRING DIAGRAM
NETWORK MAIN COMPONENT LIST

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

SCALE : 1

A3

DRAWING NO. 1724000594-IN-DA-00011

SHEET 036

REV. 02

NETWORK PANEL COMPONENT LIST

POS.	DESCRIPTION	MANUFACTURER TYPE & MODEL	SHIPPING BOM MARK	Q.TY	NAMEPLATE
15	2 POLES COMMON BOX - 7 CONNECTION EACH POLE -	CABUR QBLOCK2P100A7	NA001_15	2	CB_SER_N - CB_24Vdc_N (INTERNAL LABEL) EXTERNAL LABEL NOT REQUIRED
16	SERVICE SOCKET INCLUDING SOCKET DIN MOUNTING KIT	MANUFACTURER STANDARD	NA001_16	1	<1> SK6 (INTERNAL LABEL) EXTERNAL LABEL NOT REQUIRED
17	DISTRIBUTION TERMINALS - SCREW TYPE - SECTION 2.5mm² FEED THROUGH TYPE - GREY COLOUR	PHOENIX CONTACT UT 2.5 PXC.3044076	NA001_17	32	TB-Q53 TB-54 - X24L-N (INTERNAL LABLE) EXTERNAL LABEL NOT REQUIRED
18	TRASFORMER 240Vac / 24Vac - 50Hz -	ABB TM10 EA2616	NA001_18	1	T1_N (INTERNAL LABEL) EXTERNAL LABEL NOT REQUIRED
19	TERMINALS - SCREW TYPE - SECTION 4mm² FUSE DISCONNECT TYPE - BLACK COLOUR	PHOENIX CONTACT UT 4 HESI PXC.3046032	NA001_19	2	TB-FU_N (INTERNAL LABEL) EXTERNAL LABEL NOT REQUIRED
20	INTERPOSING RELAY FOR HEATER CUT-OUT COIL - 240Vac - 50Hz - 2 CONTACTS	PHOENIX CONTACT PLC-RCS-230UC/21-21 PXC.2967099	NA001_20	1	KTHG_N (INTERNAL LABEL) EXTERNAL LABEL NOT REQUIRED
21	TERMINALS - SCREW TYPE - SECTION 2.5mm²<1> KNIFE DISCONNECT TYPE - GREY COLOUR <1>	PHOENIX CONTACT UT 2.5 MT <1> PXC.3045362	NA001_21	12 <1>	<1> X-FAULT (INTERNAL LABEL) EXTERNAL LABEL NOT REQUIRED
22	DISTRIBUTION TERMINALS - FUSED TYPE - SECTION 4mm²<1> FUSED TYPE - BLACK COLOUR <1>	PHOENIX CONTACT <1> UT 4-HESI PXC.3046032	NA001_22	24 <1>	<1>X24L+N (INTERNAL LABLE) EXTERNAL LABEL NOT REQUIRED
23	MANAGED SWITCH 24 PORT 2XSFP -	HIRSCHMANN <1> BRS40	NA001_23	10	COMSWL2-0009÷0012-SERVSWL2-002÷003-MODBUSSW <1>PROFINETSW-PINSWL2-001÷002 (INTERNAL LABEL) EXTERNAL LABEL NOT REQUIRED
24	FORTIGATE FIREWALL 8X PORTS -	FORTINET <1> FG-80F	NA001_26	2	<1>FW-003÷FW-004 (INTERNAL LABEL) EXTERNAL LABEL NOT REQUIRED
25	PATCH PANEL 12X LC DUPLEX <1> -	TECNOFIBER <1> TCK-LAN	NA001_25	2	<1>FOPP-001-FOPP-002 (INTERNAL LABEL) EXTERNAL LABEL NOT REQUIRED
26	FORTIGATE FIREWALL 4X PORTS -	FORTINET <1> FG-40F	NA001_26	2	<1>FW-001÷FW-002 (INTERNAL LABEL) EXTERNAL LABEL NOT REQUIRED
27	SWITCH 24 PORT (Vnet / IP) -	YOKOGAWA <1> GRS105	NA001_27	4	<1>SNSWL2-003÷004-CNSWL2-001÷002 (INTERNAL LABEL) EXTERNAL LABEL NOT REQUIRED
28	RACKMOUNT DISTRIBUTION SOCKETS -	MANUFACTURER STANDAR	NA001_28	4	<1>SK7÷SK10 (INTERNAL LABEL) EXTERNAL LABEL NOT REQUIRED

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YOKOGAWA◆ PROJECT Nr. E36672C00
DESCRIPTION: E366772C00-ITER_NLO

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
& WIRING DIAGRAM
NETWORK MAIN COMPONENT LIST

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

SCALE : 1

A3

DRAWING NO. 1724000594-IN-DA-00011

SHEET 037

REV. 02

NETWORK PANEL COMPONENT LIST

POS.	DESCRIPTION	MANUFACTURER TYPE & MODEL	SHIPPING BOM MARK	Q.TY	NAMEPLATE
29	PPC Industrial PC -	SEL <1> SEL-3555	NA001_29	2	<1> EMCSSVR1 - EMCSSVR2 (INTERNAL LABEL) EXTERNAL LABEL NOT REQUIRED
30	- -	-	NA001_30	-	- -
31	- -	-	NA001_31	-	- -
32	- -	-	NA001_32	-	- -
33	- -	-	NA001_33	-	- -
34	- -	-	NA001_34	-	- -
35	- -	-	NA001_35	-	- -
36	- -	-	NA001_36	-	- -
37	- -	-	NA001_37	-	- -
38	- -	-	NA001_38	-	- -
39	- -	-	NA001_39	-	- -
40	- -	-	NA001_40	-	- -
41	- -	-	NA001_41	-	- -
42	- -	-	NA001_42	-	- -

REV	DATE	PREPARED	CHECKED	APPROVED	DESCRIPTION
2	19.09.2024	A.G.	A.B.	S.C.	ACCEPTED FOR CONSTRUCTION (AFC)
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YOKOGAWA◆ PROJECT Nr. E36672C00
DESCRIPTION: E366772C00-ITER_NLO

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
& WIRING DIAGRAM
NETWORK MAIN COMPONENT LIST

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

SCALE : 1

A3

DRAWING NO. 1724000594-IN-DA-00011

SHEET 038

REV. 02

BASE LOAD POWER HUB (BLPH)
NET.&SERV. CABINETS IN ITER
WIRING DIAGRAMS AND TERMINAL STRIPS

1	19.09.2024	A.G.	A.B.	S.C.	ISSUE FOR REVIEW (IFR)
0	21.06.2024	A.G.	A.B.	S.C.	ISSUE FOR APPROVAL
REV	DATE	PREPARED	CHECKED	APPROVED	DESCRIPTION

YOKOGAWA◆ PROJECT Nr. E36672C00
DESCRIPTION: E366772C00-ITER_NC_WD

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
NET.&SERV. CABINETS IN ITER WIRING DIAGRAMS AND TERMINAL STRIPS
COVER PAGE

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

SCALE : 1

A3

DRAWING NO. 1724000594-IN-DG-00022

SHEET 001

REV. 1

PAG. NR.	REVISION 0	1	2	3	4	5	6	7	8	TITLE
001	X	X								BASE LOAD POWER HUB (BLPH) COVER PAGE
002	X	X								BASE LOAD POWER HUB (BLPH) INDEX
003	X									BASE LOAD POWER HUB (BLPH) LEGEND
004	X	X								BASE LOAD POWER HUB (BLPH) SYMBOL LEGEND
005	X									BASE LOAD POWER HUB (BLPH) TYPICAL WIRE MARKING & EARTH BAR CONNECTION DETAILS
006	X									BASE LOAD POWER HUB (BLPH) SERV PANEL - 230Vac POWER DISTRIBUTION FROM UPS LINE 1
007	X									BASE LOAD POWER HUB (BLPH) SERV PANEL - 230Vac POWER DISTRIBUTION FROM UPS LINE 2
008	X	X								BASE LOAD POWER HUB (BLPH) SERV PANEL - 230Vac POWER DISTRIBUTION FROM NON-UPS
009	X									BASE LOAD POWER HUB (BLPH) SPARE PAGE
010	X	X								BASE LOAD POWER HUB (BLPH) SERV PANEL - BREAKER FAULT ALARM CIRCUIT
011	X	X								BASE LOAD POWER HUB (BLPH) SERV PANEL - SHIELD / GROUND CONNECTION
012	X	X								BASE LOAD POWER HUB (BLPH) SPARE PAGE
013	X	X								BASE LOAD POWER HUB (BLPH) SERV PANEL - POWER STRIPS DISTRIBUTION
014	X	X								BASE LOAD POWER HUB (BLPH) SPARE PAGE
015	X	X								BASE LOAD POWER HUB (BLPH) NET. PANEL - 230Vac POWER DISTRIBUTION FROM UPS LINE 1
016	X	X								BASE LOAD POWER HUB (BLPH) NET. PANEL - 230Vac POWER DISTRIBUTION FROM UPS LINE 2
017	X	X								BASE LOAD POWER HUB (BLPH) NET. PANEL - 230Vac POWER DISTRIBUTION FROM NON-UPS
018	X	X								BASE LOAD POWER HUB (BLPH) NET. PANEL - 230Vac POWER DISTRIBUTION FROM NON-UPS
019	X	X								BASE LOAD POWER HUB (BLPH) NET. PANEL - 230Vac 50Hz POWER DISTRIBUTION VENTILATION FAN
020	X	X								BASE LOAD POWER HUB (BLPH) SPARE PAGE
021	X	X								BASE LOAD POWER HUB (BLPH) NET PANEL - 230Vac / 24Vdc POWER DISTRIBUTION
022	X	X								BASE LOAD POWER HUB (BLPH) NET. PANEL - POWER STRIPS DISTRIBUTION
023	X	X								BASE LOAD POWER HUB (BLPH) SPARE PAGE
024	X	X								BASE LOAD POWER HUB (BLPH) NET PANEL - BREAKER FAULT ALARM CIRCUIT
025	X	X								BASE LOAD POWER HUB (BLPH) NET PANEL - SHIELD / GROUND CONNECTION
026	X	X								BASE LOAD POWER HUB (BLPH) SPARE PAGE
027	X	X								BASE LOAD POWER HUB (BLPH) NET PANEL - FAULT ALARM SIGNALS TO PCS
028	X	X								BASE LOAD POWER HUB (BLPH) NET. PANEL - POWER STRIPS DISTRIBUTION

PAG. NR.	REVISION 0	1	2	3	4	5	6	7	8	TITLE

REV	DATE	PREPARED	CHECKED	APPROVED	DESCRIPTION
1	19.09.2024	A.G.	A.B.	S.C.	ISSUE FOR REVIEW (IFR)
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YOKOGAWA◆ PROJECT Nr. E36672C00
DESCRIPTION: E366772C00-ITER_NC_WD

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
NET.&SERV. CABINETS IN ITER WIRING DIAGRAMS AND TERMINAL STRIPS INDEX

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

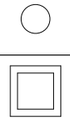
SCALE : 1

A3

DRAWING NO. 1724000594-IN-DG-00022

SHEET 002

REV. 1

NUMBER	SYMBOL	REFERENCE	DESCRIPTION
01		IEC 60417-5031	DIRECT CURRENT
02		IEC 60417-5032	ALTERNATING CURRENT
03		IEC 60417-5033	BOTH DIRECT AND ALTERNATING CURRENT
04		.	THREE-PHASE ALTERNATING CURRENT
05		IEC 60417-5017	EARTH (GROUND) TERMINAL
06		IEC 60417-5019	PROTECTIVE CONDUCTOR TERMINAL
07		IEC 60417-5020	FRAME OR CHASSIS TERMINAL
08		IEC 60417-5021	EQUIPOTENTIALITY
09		IEC 60417-5007	ON (SUPPLY)
10		IEC 60417-5008	OFF (SUPPLY)
11		IEC 60417-5172	EQUIPMENT PROTECTED THROUGHOUT BY DOUBLE INSULATION OR REINFORCED INSULATION
12		.	CAUTION RISK OF ELECTRIC SHOCK
13		IEC 60417-5041	CAUTION HOT SURFACE
14		ISO 7000-0434	CAUTION RISK OF DANGER
15		IEC 60417-5266	IN POSITION OF A BI-STABLE PUSH CONTROL
16		IEC 60417-5269	OUT POSITION OF A BI-STABLE PUSH CONTROL

REV	DATE	PREPARED	CHECKED	APPROVED	DESCRIPTION
1	19.09.2024	A.G.	A.B.	S.C.	ISSUE FOR REVIEW (IFR)
0	21.06.2024	A.G.	A.B.	S.C.	ISSUE FOR APPROVAL

YOKOGAWA◆ PROJECT Nr. E36672C00
DESCRIPTION E366772C00-ITER_NC_WD

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
NET.&SERV. CABINETS IN ITER WIRING DIAGRAMS AND TERMINAL STRIPS LEGEND

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

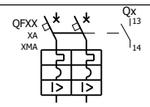
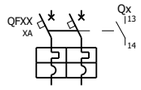
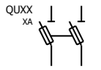
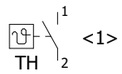
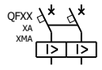
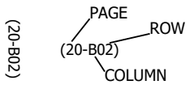
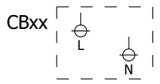
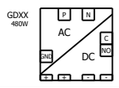
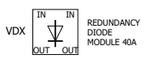
SCALE : 1

A3

DRAWING NO. 1724000594-IN-DG-00022

SHEET 003

REV. 1

	ROTATIVE MAIN SWITCH -		ELECTRIC FAN WITH FAULT DETECTION		I.S. BARRIER (NOTE: AB-xx FOR ACTIVE BARRIERS, ZB-xx FOR ZENER BARRIERS)
	DIFFERENTIAL RESIDUAL CURRENT CIRCUIT BREAKER WITH AUXILIARY CONTACT		PANEL ELECTRIC HEATER -		GALVANIC ISOLATOR -
	AUTOMATIC CIRCUIT BREAKER WITH AUXILIARY CONTACT		AC/AC VOLTAGE TRANSFORMER -		FUSED TERMINAL -
	DISCONNECTOR WITH FUSE -		THERMOSTATE NO CONTACT -		KNIFE TERMINAL -
	PURE RESIDUAL CURRENT CIRCUIT BREAKER		NO CONTACT -		FEED THROUGH TERMINAL -
	SURGE ARRESTOR -		NC CONTACT -		PAGE CROSS REFERENCE INDICATION -
	LINE FILTER MODULE -		DOOR LIMIT SWITCH -		COMMON BOX -
	SERVICE SOCKET -		FRONT PANEL ALARM BUZZER -		- -
	AC/DC FEEDER -		INTERNAL LIGHT OR FRONT PANEL LIGHT		- -
	REDUNDANCY DIODE MODULE -		MUSHROOM PUSHBUTTON INDICATOR NORMAL PUSHBUTTON INDICATOR		- -
	RELAYS -		ROTATIVE SELECTOR INDICATOR -		- -
	- -		RESISTOR -		- -
	- -		- -		- -

REV	DATE	PREPARED	CHECKED	APPROVED	DESCRIPTION
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0	21.06.2024	A.G.	A.B.	S.C.	ISSUE FOR APPROVAL

YOKOGAWA◆ PROJECT Nr. E36672C00
DESCRIPTION: E366772C00-ITER_NC_WD

CROSSWIND

ROSETTI MARINO

TITLE :
BASE LOAD POWER HUB (BLPH)
NET.&SERV. CABINETS IN ITER WIRING DIAGRAMS AND TERMINAL STRIPS SYMBOL LEGEND

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

SCALE : 1

A3

DRAWING NO. 1724000594-IN-DG-00022

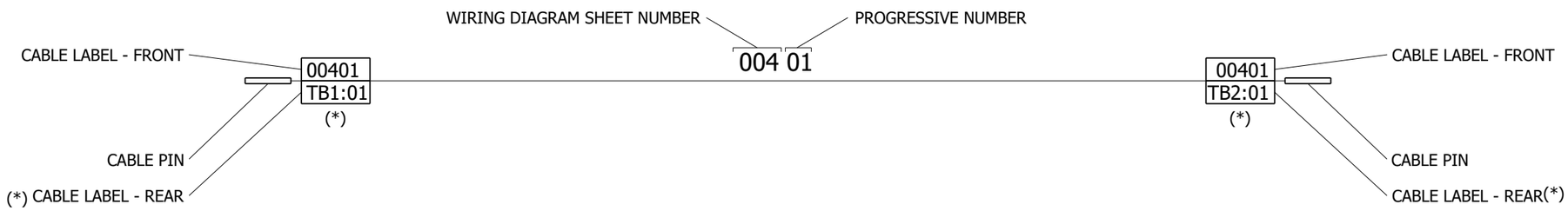
SHEET 004

REV. 1

COLOR ACRONYMS LIST :

RD - RED
BK - BLACK
BL - BLUE
LB - LIGHT BLUE
GR - GREY
GN - GREEN
YE - YELLOW
Y/G - YELLOW/GREEN
BR - BROWN
WH - WHITE

TYPICAL WIRE MARKING



EARTH CONNECTION RESUME TABLE:

	CABINET
P.E. EARTH	○○○○○○○○○○○○○○○
I.E. EARTH	○○○○○○○○○○○○○○○

EARTH ACRONYMS LEGEND :

P.E. (GND) - PROTECTION EARTH (GROUND, FRAME CHASSIS)
I.E. (F.E.) - INSTRUMENT EARTH (NOISELESS), FUNCTIONAL EARTH

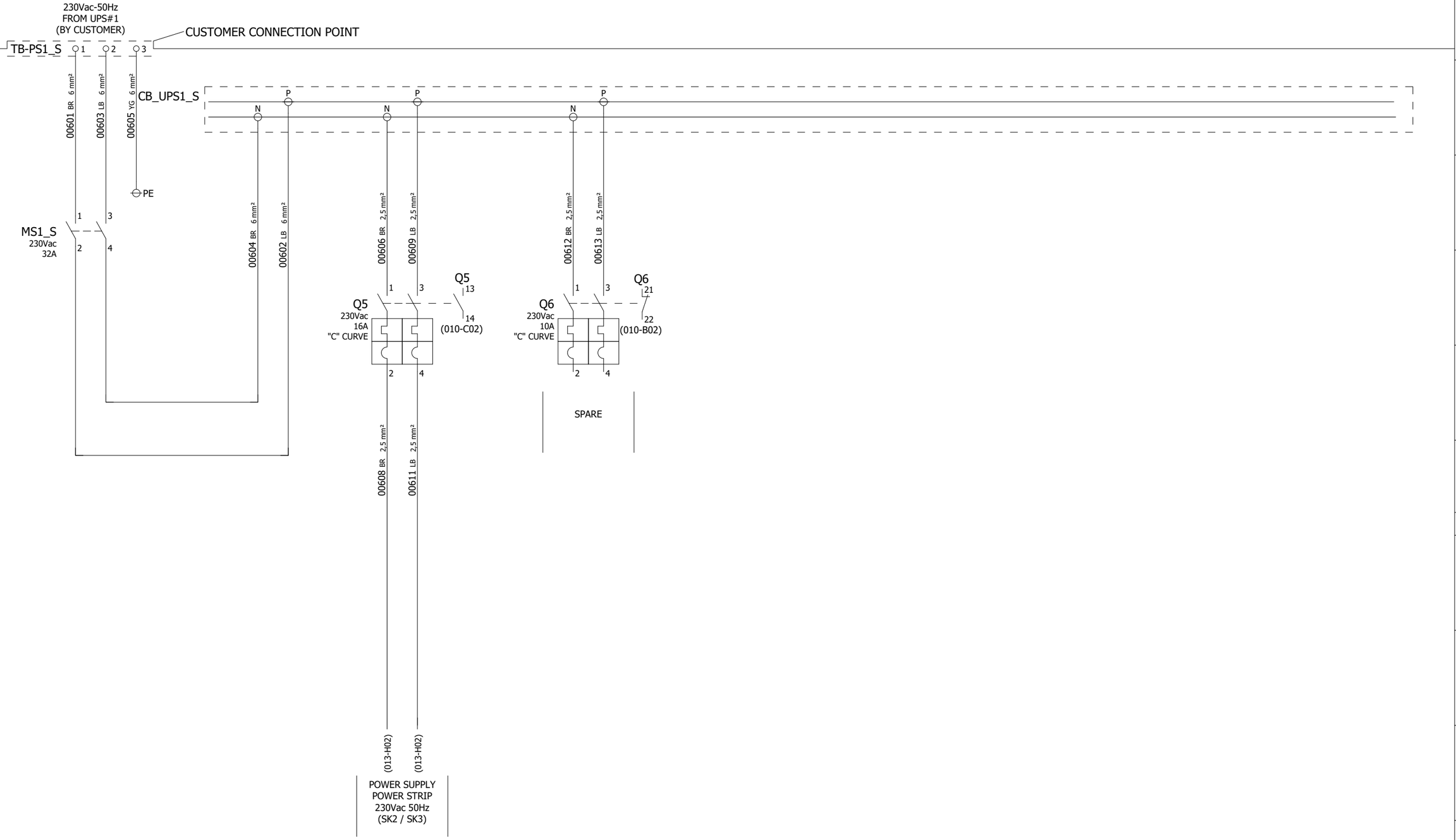
REV	DATE	PREPARED	CHECKED	APPROVED	DESCRIPTION
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0	21.06.2024	A.G.	A.B.	S.C.	ISSUE FOR APPROVAL

YOKOGAWA◆ PROJECT Nr. E36672C00
DESCRIPTION: E366772C00-ITER_NC_WD
CROSSWIND
ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
NET.&SERV. CABINETS IN ITER WIRING DIAGRAMS AND TERMINAL STRIPS
TYPICAL WIRE MARKING & EARTH BAR CONNECTION DETAILS

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK
SCALE : 1
A3
DRAWING NO. 1724000594-IN-DG-00022
SHEET 005
REV. 1

SERV. PANEL - POWER DISTRIBUTION FROM UPS LINE 1



REV	DATE	PREPARED	CHECKED	APPROVED	DESCRIPTION
1	19.09.2024	A.G.	A.B.	S.C.	ISSUE FOR REVIEW (IFR)
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YOKOGAWA◆ PROJECT Nr. E36672C00
DESCRIPTION: E366772C00-ITER_NC_WD

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
NET.&SERV. CABINETS IN ITER WIRING DIAGRAMS AND TERMINAL STRIPS
SERV PANEL - 230Vac POWER DISTRIBUTION FROM UPS LINE 1

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

SCALE : 1

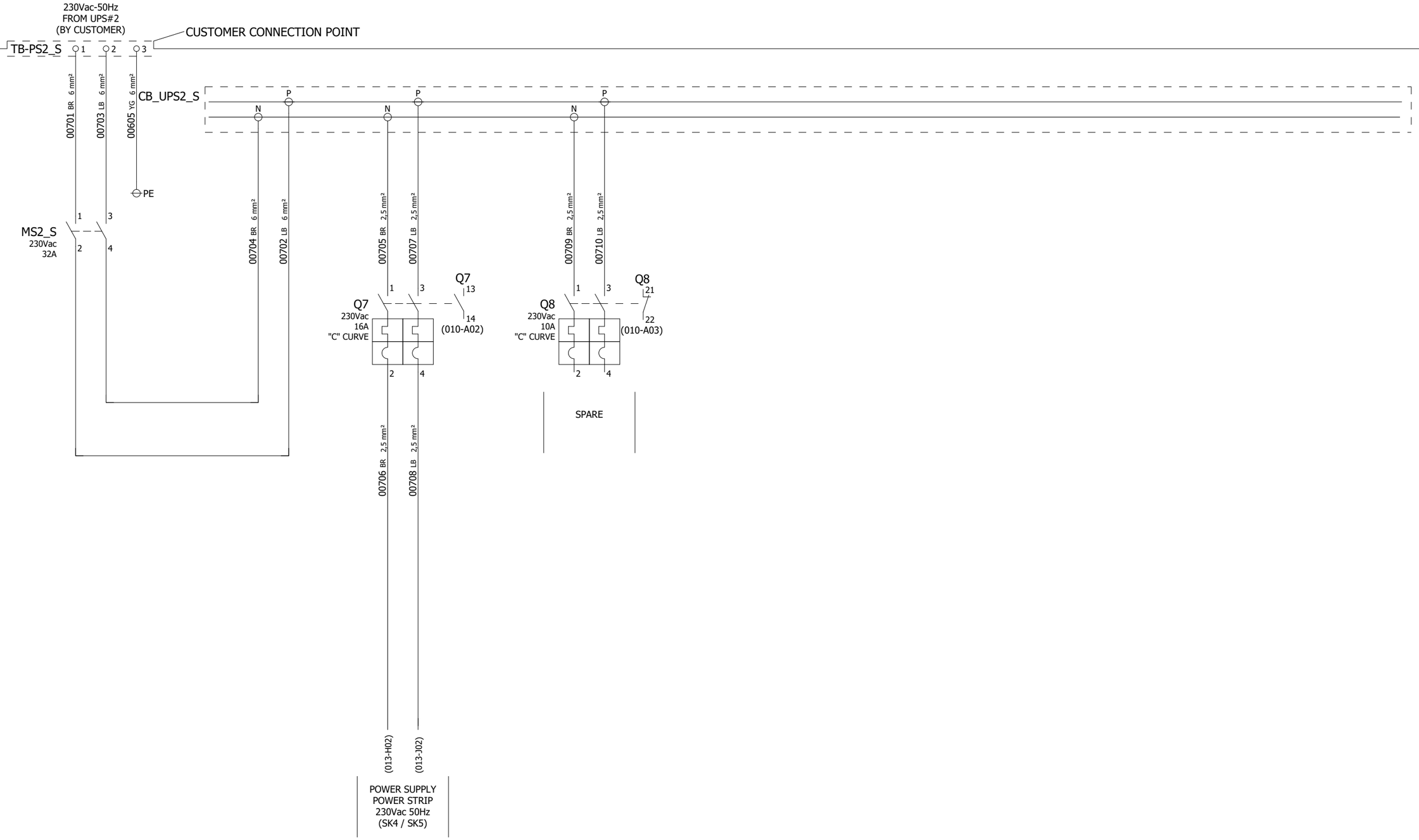
A3

DRAWING NO. 1724000594-IN-DG-00022

SHEET 006

REV. 1

SERV. PANEL - POWER DISTRIBUTION FROM UPS LINE 2



REV	DATE	PREPARED	CHECKED	APPROVED	DESCRIPTION
1	19.09.2024	A.G.	A.B.	S.C.	ISSUE FOR REVIEW (IFR)
0	21.06.2024	A.G.	A.B.	S.C.	ISSUE FOR APPROVAL

YOKOGAWA◆ PROJECT Nr. E36672C00
DESCRIPTION E366772C00-ITER_NC_WD

CROSSWIND ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
NET.&SERV. CABINETS IN ITER WIRING DIAGRAMS AND TERMINAL STRIPS
SERV PANEL - 230Vac POWER DISTRIBUTION FROM UPS LINE 2

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

SCALE : 1

A3

DRAWING NO. 1724000594-IN-DG-00022

SHEET 007

REV. 1

SERV. PANEL - POWER DISTRIBUTION FROM NON UPS

230Vac-50Hz
FROM MCC
(BY CUSTOMER)

CUSTOMER CONNECTION POINT

TB-PS3_S 1 2 3

00801 BR 6 mm² — 00803 LB 6 mm² — 00605 YG 6 mm² — PE

CB_SER_S

P N P N P N P N

00804 LB 6 mm² — 00802 BR 6 mm²

00805 BR 2.5 mm² — 00807 LB 2.5 mm²

00809 BR 2.5 mm² — 00813 LB 2.5 mm²

00814 BR 2.5 mm² — 00815 LB 2.5 mm²

Q1 — 230Vac 25A Id 30mA — (010-G02)

Q2 — 230Vac 16A "C" CURVE — (010-F02)

Q3 — 230Vac 2A "C" CURVE — (010-E02)

Q4 — 230Vac 4A "C" CURVE — (010-D02)

SPARE

00806 BR 2.5 mm² — 00808 LB 2.5 mm²

00810 BR 1.5 mm²

S1_S 11 12

00811 BR 1.5 mm² — 00812 LB 1.5 mm²

H1_S x1 x2

<1>
SK1 — PE — 00605 YG 2,5 mm² — PE

SERVICE SOCKET
230Vac 50Hz

INTERNAL LIGHT
230Vac 50Hz
TOTAL CONSUMPTION: 15W

NOTE:
INTERNAL LAMP IS DOUBLE INSULATION DEVICE.
NO EARTH CONNECTION REQUIRED.

REV	DATE	PREPARED	CHECKED	APPROVED	DESCRIPTION
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YOKOGAWA◆ PROJECT Nr. E36672C00
DESCRIPTION: E366772C00-ITER_NC_WD

CROSSWIND — ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
NET.&SERV. CABINETS IN ITER WIRING DIAGRAMS AND TERMINAL STRIPS
SERV PANEL - 230Vac POWER DISTRIBUTION FROM NON-UPS

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

SCALE : 1

A3

DRAWING NO. 1724000594-IN-DG-00022

SHEET 008

REV. 1

SHEET LEFT INTENTIONALLY BLANK

1	19.09.2024	A.G.	A.B.	S.C.	ISSUE FOR REVIEW (IFR)
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REV	DATE	PREPARED	CHECKED	APPROVED	DESCRIPTION

YOKOGAWA◆ PROJECT Nr. E36672C00
DESCRIPTION E366772C00-ITER_NC_WD

CROSSWIND | ROSETTI MARINO

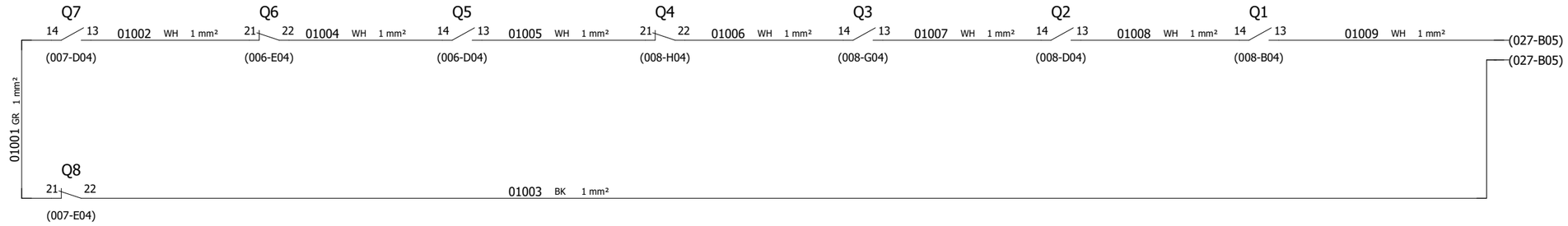
TITLE : BASE LOAD POWER HUB (BLPH)
NET.&SERV. CABINETS IN ITER WIRING DIAGRAMS AND TERMINAL STRIPS
SPARE PAGE

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

A3 | DRAWING NO. 1724000594-IN-DG-00022 | SHEET 009 | REV. 1

SERV. PANEL - BRAKER FAULT ALARM CIRCUIT

230Vac CIRCUIT BREAKER



<1>
87-XA-073
SERV. PANEL CUMULATIVE
BREAKER FAULT

NOTE : SPARE CIRCUIT BREAKER FAULT CONTACT TO BE CONNECTED ON NORMALLY CLOSE CONTACT.
CHANGE CONNECTION TO NORMALLY OPEN CONTACT WHEN THE BREAKER WILL BE USED

REV	DATE	PREPARED	CHECKED	APPROVED	DESCRIPTION
1	19.09.2024	A.G.	A.B.	S.C.	ISSUE FOR REVIEW (IFR)
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YOKOGAWA◆ PROJECT Nr. E36672C00
DESCRIPTION E366772C00-ITER_NC_WD

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
NET.&SERV. CABINETS IN ITER WIRING DIAGRAMS AND TERMINAL STRIPS
SERV PANEL - BREAKER FAULT ALARM CIRCUIT

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

SCALE : 1

A3

DRAWING NO. 1724000594-IN-DG-00022

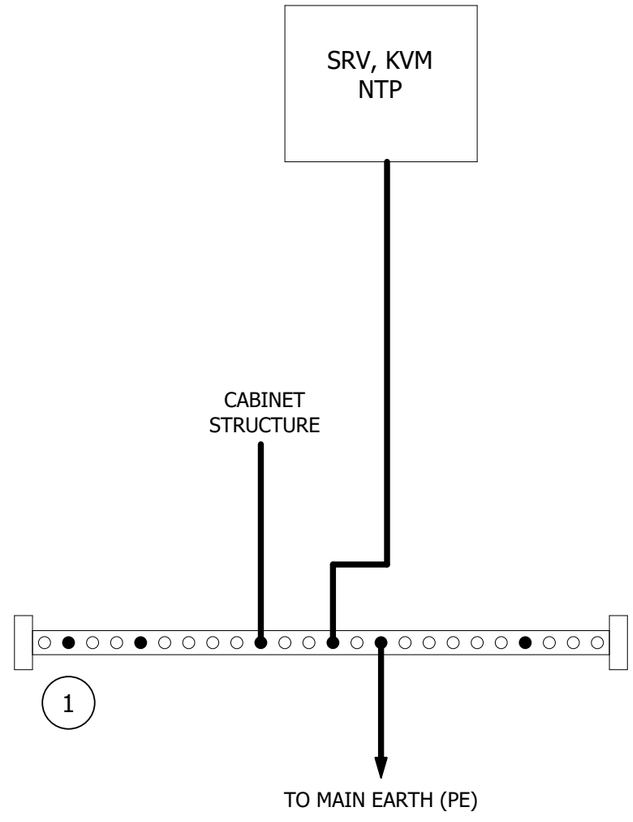
SHEET 010

REV. 1

SERV. PANEL - SHIELD/GROUND CONNECTION

-

POS.	EARTH TYPE	DESCRIPTION SYSTEM EARTH
1	P.E. EARTH	PROTECTION EARTH (GROUND, FRAME CHASSIS)



REV	DATE	PREPARED	CHECKED	APPROVED	DESCRIPTION
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YOKOGAWA◆ PROJECT Nr. E36672C00
DESCRIPTION E366772C00-ITER_NC_WD

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
NET.&SERV. CABINETS IN ITER WIRING DIAGRAMS AND TERMINAL STRIPS
SERV PANEL - SHIELD / GROUND CONNECTION

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

SCALE : 1

A3

DRAWING NO. 1724000594-IN-DG-00022

SHEET 011

REV. 1

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1	19.09.2024	A.G.	A.B.	S.C.	ISSUE FOR REVIEW (IFR)
0	21.06.2024	A.G.	A.B.	S.C.	ISSUE FOR APPROVAL
REV	DATE	PREPARED	CHECKED	APPROVED	DESCRIPTION

YOKOGAWA◆ PROJECT Nr. E36672C00
DESCRIPTION E366772C00-ITER_NC_WD

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
NET.&SERV. CABINETS IN ITER WIRING DIAGRAMS AND TERMINAL STRIPS
SPARE PAGE

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

SCALE : 1

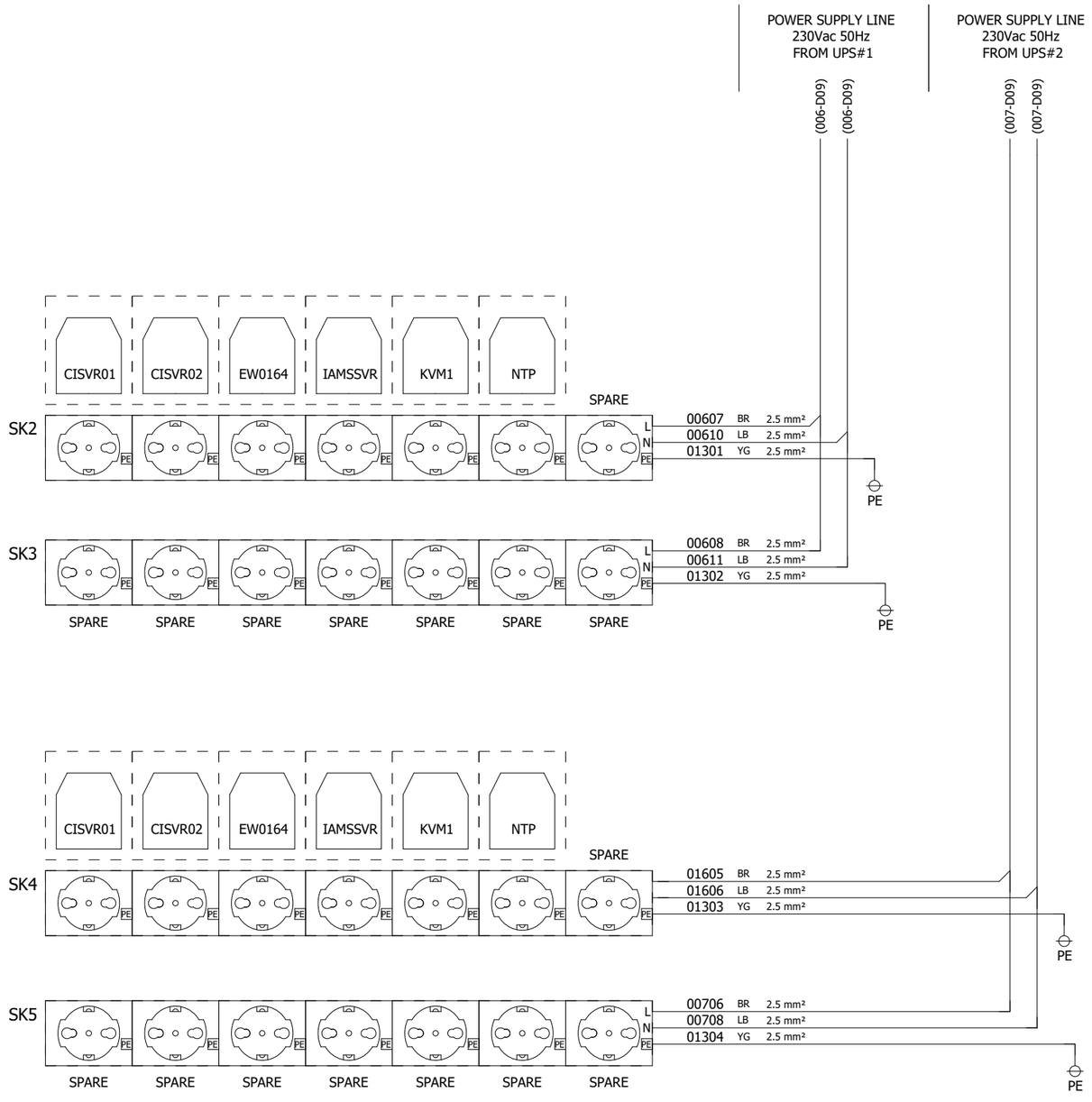
A3

DRAWING NO. 1724000594-IN-DG-00022

SHEET 012

REV. 1

SERV. PANEL - POWER STRIPS DISTRIBUTION



NOTE 1: For details on network cables connections, refer to doc. "1724000594-IN-DG-00016 - Network Connection Diagram

REV	DATE	PREPARED	CHECKED	APPROVED	DESCRIPTION
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YOKOGAWA◆ PROJECT Nr. E36672C00
DESCRIPTION E366772C00-ITER_NC_WD

CROSSWIND ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
NET.&SERV. CABINETS IN ITER WIRING DIAGRAMS AND TERMINAL STRIPS
SERV PANEL - POWER STRIPS DISTRIBUTION

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

A3 | DRAWING NO. 1724000594-IN-DG-00022 | SHEET 013 | REV. 1

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1	19.09.2024	A.G.	A.B.	S.C.	ISSUE FOR REVIEW (IFR)
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REV	DATE	PREPARED	CHECKED	APPROVED	DESCRIPTION

YOKOGAWA◆ PROJECT Nr. E36672C00
DESCRIPTION E366772C00-ITER_NC_WD

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
NET.&SERV. CABINETS IN ITER WIRING DIAGRAMS AND TERMINAL STRIPS
SPARE PAGE

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

SCALE : 1

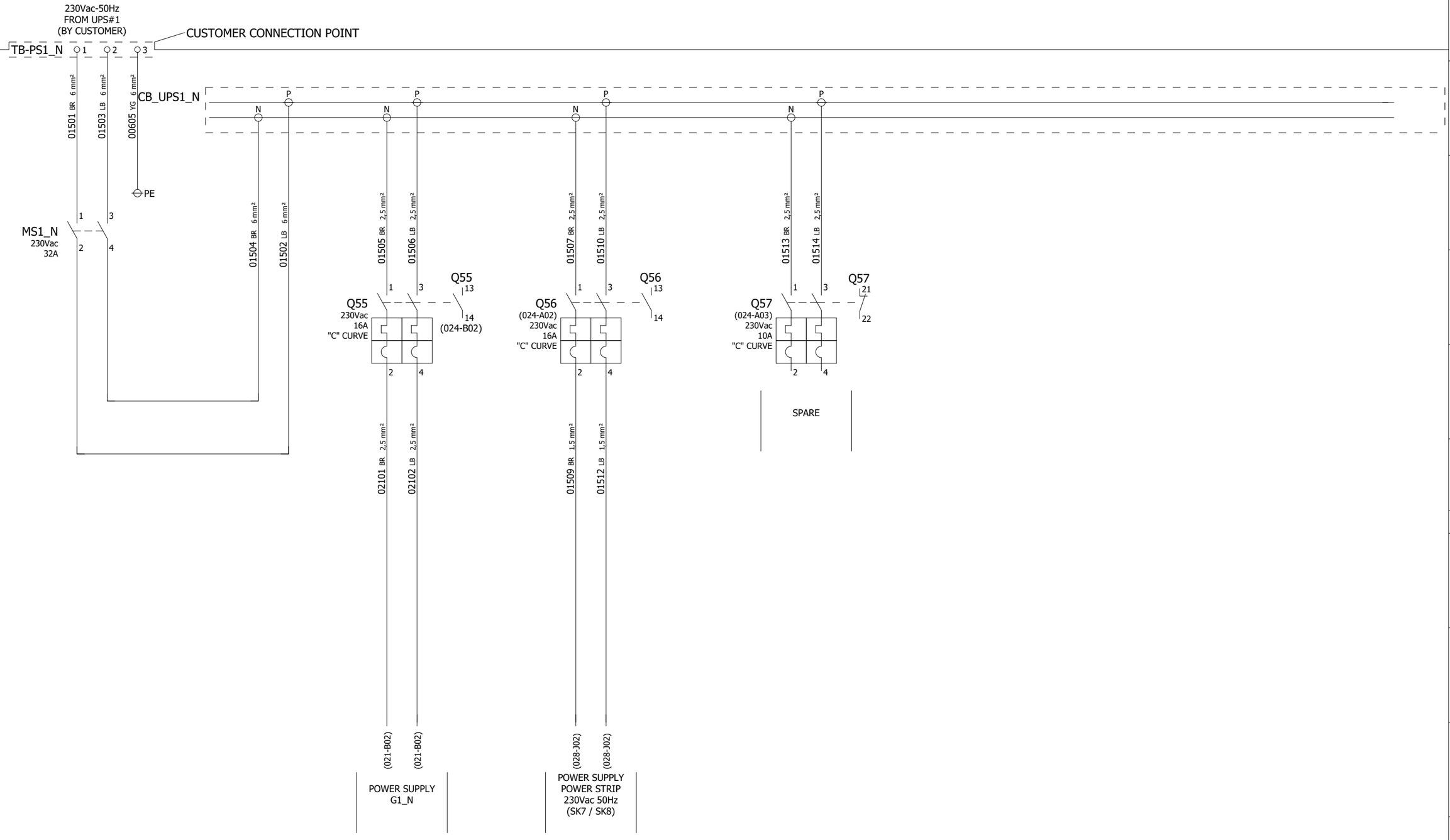
A3

DRAWING NO. 1724000594-IN-DG-00022

SHEET 014

REV. 1

NET PANEL - POWER DISTRIBUTION FROM UPS LINE 1



REV	DATE	PREPARED	CHECKED	APPROVED	DESCRIPTION
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YOKOGAWA◆ PROJECT Nr. E36672C00
DESCRIPTION: E366772C00-ITER_NC_WD

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
NET.&SERV. CABINETS IN ITER WIRING DIAGRAMS AND TERMINAL STRIPS
NET. PANEL - 230Vac POWER DISTRIBUTION FROM UPS LINE 1

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

SCALE : 1

A3

DRAWING NO. 1724000594-IN-DG-00022

SHEET 015

REV. 1

NET PANEL - POWER DISTRIBUTION FROM UPS LINE 2

230Vac-50Hz
FROM UPS#2
(BY CUSTOMER)

CUSTOMER CONNECTION POINT

TB-PS2_N 1 2 3

01601 BR 6 mm²
01603 LB 6 mm²
00605 YG 6 mm²

CB_UPS2_N

N P N P N P N P

PE

MS2_N
230Vac
32A
1 3
2 4

01604 BR 6 mm²
01602 LB 6 mm²

01605 BR 2,5 mm²
01606 LB 2,5 mm²

Q58
230Vac
16A
"C" CURVE
1 3
2 4
13
14
(024-B03)

01607 BR 2,5 mm²
01610 LB 2,5 mm²

Q59
(024-C03)
230Vac
16A
"C" CURVE
1 3
2 4
13
14

01613 BR 2,5 mm²
01614 LB 2,5 mm²

Q60
(021-B08)
230Vac
10A
"C" CURVE
1 3
2 4
21
22

SPARE

02103 BR 2,5 mm² (021-H02)
02104 LB 2,5 mm² (021-H02)

POWER SUPPLY
G2_N

01609 BR 1,5 mm² (028-K02)
01612 LB 1,5 mm² (028-K02)

POWER SUPPLY
POWER STRIP
230Vac 50Hz
(SK9 / SK10)

REV	DATE	PREPARED	CHECKED	APPROVED	DESCRIPTION
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YOKOGAWA◆ PROJECT Nr. E36672C00
DESCRIPTION: E366772C00-ITER_NC_WD

CROSSWIND

ROSETTI MARINO

TITLE :
BASE LOAD POWER HUB (BLPH)
NET.&SERV. CABINETS IN ITER WIRING DIAGRAMS AND TERMINAL STRIPS
NET. PANEL - 230Vac POWER DISTRIBUTION FROM UPS LINE 2

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

SCALE : 1

A3

DRAWING NO.
1724000594-IN-DG-00022

SHEET 016

REV. 1

NET PANEL - POWER DISTRIBUTION FROM NON UPS

230Vac-50Hz
FROM MCC
(BY CUSTOMER)

CUSTOMER CONNECTION POINT

TB-PS3_N 1 2 3

01701 BR 6 mm² — 01703 LB 6 mm² — 00605 YG 6 mm² — PE

CB_SER_N
(018-A01)

P N P N P N P N (018-A01) (018-A01)

01704 LB 6 mm² — 01702 BR 6 mm²

01705 BR 2.5 mm² — 01707 LB 2.5 mm²

01709 BR 2.5 mm² — 01713 LB 2.5 mm²

01714 BR 2.5 mm² — 01715 LB 2.5 mm²

Q50 1 3 13 14 (024-G02)
Q50
230Vac
25A
Id 30mA
2 4

Q51 1 3 13 14 (024-F02)
Q51
230Vac
16A
"C" CURVE
2 4

Q52 1 3 13 14 (024-E02)
Q52
230Vac
2A
"C" CURVE
2 4

Q53 1 3 21 22 (024-D02)
Q53
230Vac
4A
"C" CURVE
2 4

SPARE

01706 BR 2.5 mm² — 01708 LB 2.5 mm²

01710 BR 1.5 mm²

S1_N 11 12

01711 BR 1.5 mm² — 01712 LB 1.5 mm²

H1_N x1 x2

SK6 PE 00605 YG 2,5 mm² PE

SERVICE SOCKET
230Vac 50Hz

INTERNAL LIGHT
230Vac 50Hz
TOTAL CONSUMPTION: 15W

NOTE:
INTERNAL LAMP IS DOUBLE INSULATION DEVICE.
NO EARTH CONNECTION REQUIRED.

REV	DATE	PREPARED	CHECKED	APPROVED	DESCRIPTION
1	19.09.2024	A.G.	A.B.	S.C.	ISSUE FOR REVIEW (IFR)
0	21.06.2024	A.G.	A.B.	S.C.	ISSUE FOR APPROVAL

YOKOGAWA◆ PROJECT Nr. E36672C00
DESCRIPTION: E366772C00-ITER_NC_WD

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
NET.&SERV. CABINETS IN ITER WIRING DIAGRAMS AND TERMINAL STRIPS
NET. PANEL - 230Vac POWER DISTRIBUTION FROM NON-UPS

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

SCALE : 1

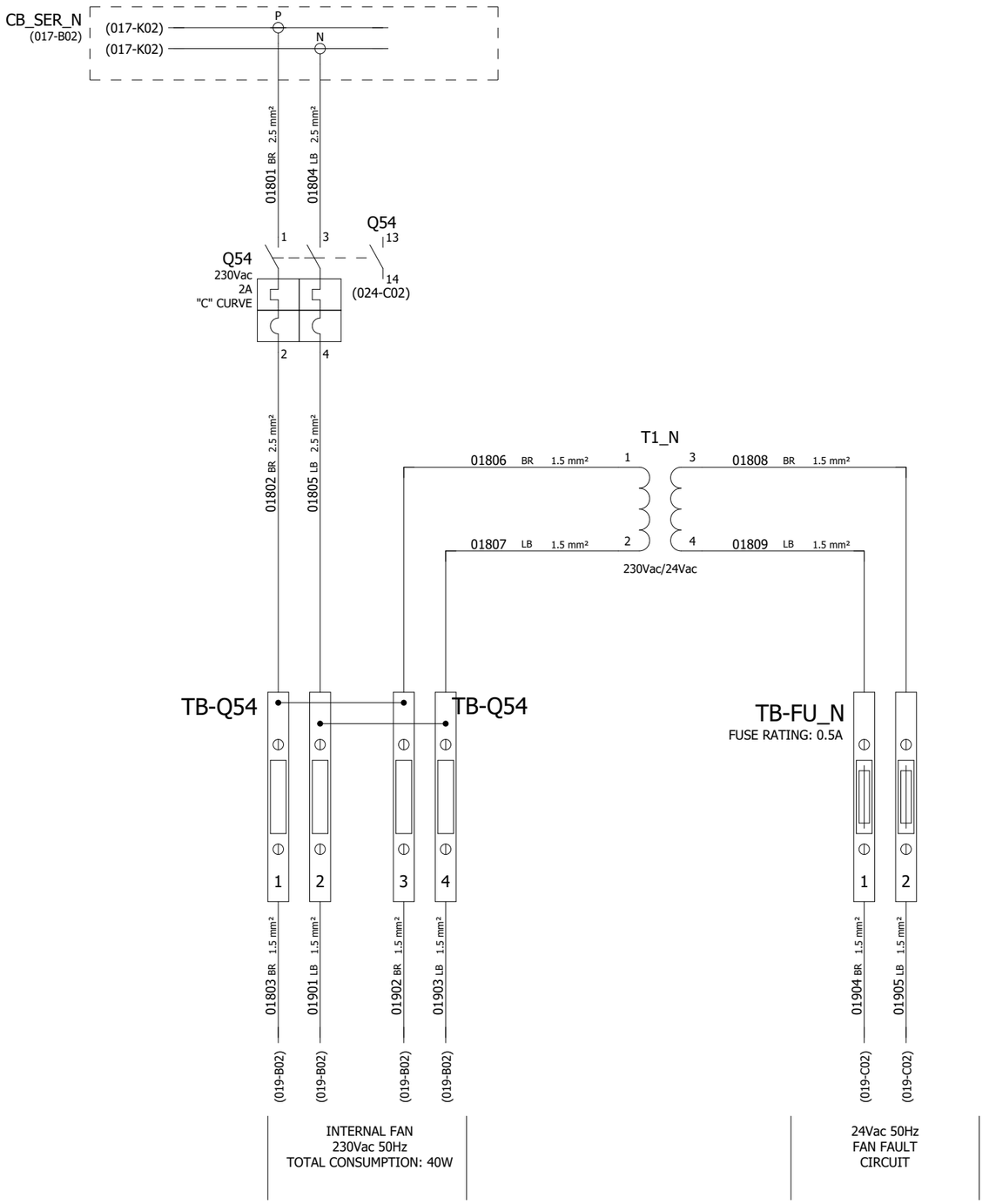
A3

DRAWING NO. 1724000594-IN-DG-00022

SHEET 017

REV. 1

NET PANEL - POWER DISTRIBUTION FROM NON UPS



REV	DATE	PREPARED	CHECKED	APPROVED	DESCRIPTION
1	19.09.2024	A.G.	A.B.	S.C.	ISSUE FOR REVIEW (IFR)
0	21.06.2024	A.G.	A.B.	S.C.	ISSUE FOR APPROVAL

YOKOGAWA◆ PROJECT Nr. E36672C00
DESCRIPTION E366772C00-ITER_NC_WD

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
NET.&SERV. CABINETS IN ITER WIRING DIAGRAMS AND TERMINAL STRIPS
NET. PANEL - 230Vac POWER DISTRIBUTION FROM NON-UPS

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

SCALE : 1

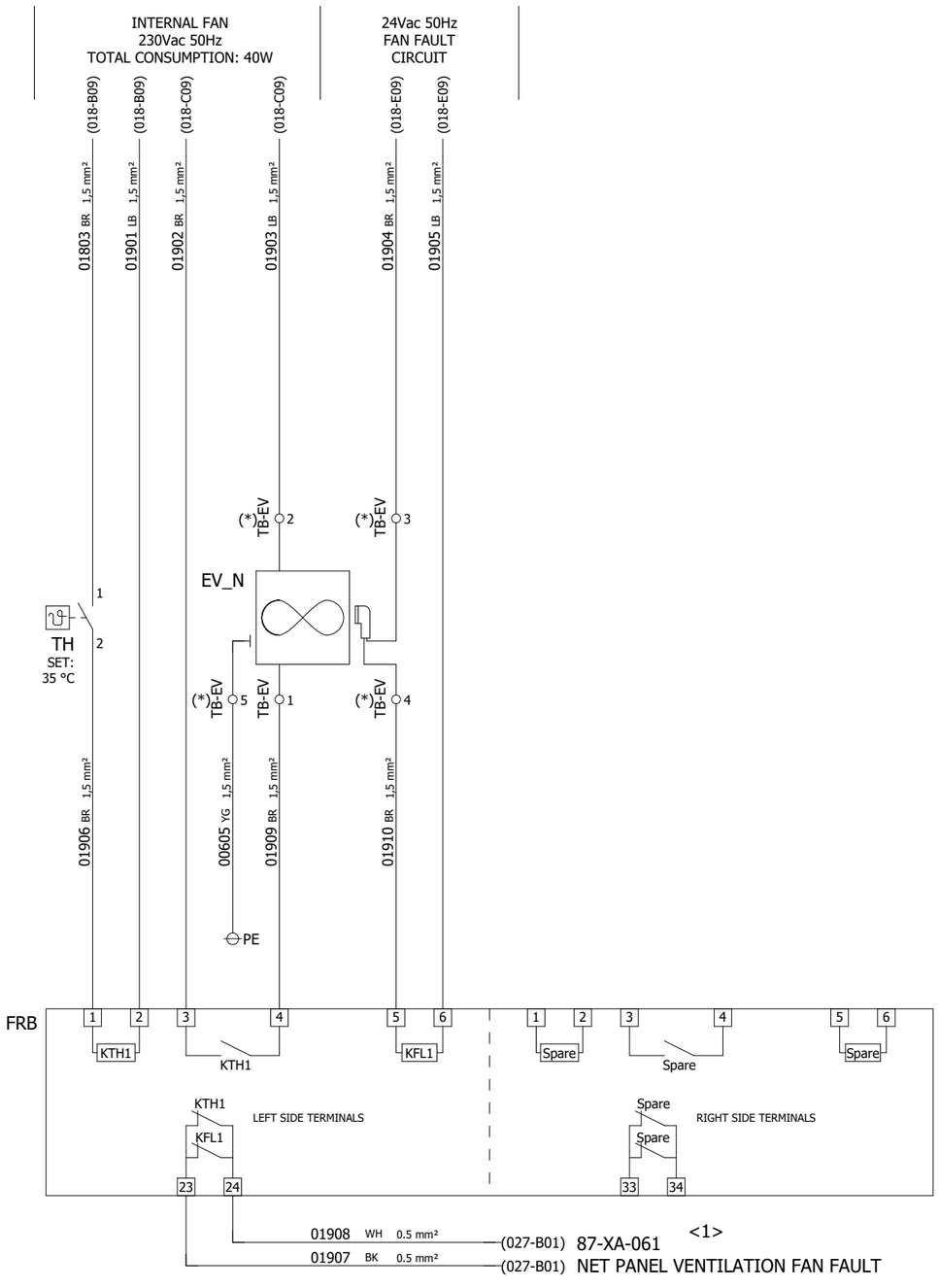
A3

DRAWING NO. 1724000594-IN-DG-00022

SHEET 018

REV. 1

NET PANEL - 230Vac 50Hz POWER DISTRIBUTION VENTILATION FAN



NOTE (*):
TB-EV IS A FEED THROUGH TERMINAL BOARD FOR
PRE-WIRED ITEMS CONNECTION. FOR THIS REASON,
WIRE NUMBERS WILL BE THE SAME ON BOTH SIDES.

REV	DATE	PREPARED	CHECKED	APPROVED	DESCRIPTION
1	19.09.2024	A.G.	A.B.	S.C.	ISSUE FOR REVIEW (IFR)
0	21.06.2024	A.G.	A.B.	S.C.	ISSUE FOR APPROVAL

YOKOGAWA◆ PROJECT Nr. E36672C00
DESCRIPTION E366772C00-ITER_NC_WD

CROSSWIND

ROSETTI MARINO

TITLE :
BASE LOAD POWER HUB (BLPH)
NET.&SERV. CABINETS IN ITER WIRING DIAGRAMS AND TERMINAL STRIPS
NET. PANEL - 230Vac 50Hz POWER DISTRIBUTION VENTILATION FAN

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

SCALE : 1

A3

DRAWING NO.
1724000594-IN-DG-00022

SHEET 019

REV. 1

SHEET LEFT INTENTIONALLY BLANK

1	19.09.2024	A.G.	A.B.	S.C.	ISSUE FOR REVIEW (IFR)
0	21.06.2024	A.G.	A.B.	S.C.	ISSUE FOR APPROVAL
REV	DATE	PREPARED	CHECKED	APPROVED	DESCRIPTION

YOKOGAWA◆ PROJECT Nr. E36672C00
DESCRIPTION E366772C00-ITER_NC_WD

CROSSWIND | ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
NET.&SERV. CABINETS IN ITER WIRING DIAGRAMS AND TERMINAL STRIPS
SPARE PAGE

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

A3 | DRAWING NO. 1724000594-IN-DG-00022 | SHEET 020 | REV. 1

NET PANEL - 230Vac/24Vdc POWER DISTRIBUTION

POWER SUPPLY LINE
230Vac 50Hz
FROM UPS#1

02101 BR 2,5 mm² (015-D09)
02102 LB 2,5 mm² (015-D09)

G1
IN: 230Vac
OUT: 24Vdc
480W
20A
WEIDMULLER PRO ECO
code 1469510000

L(+) N(-) AC DC PE + + - - 13 14

02113 WH 1 mm² (027-B02)
02114 WH 1 mm²
00605 YG 2,5 mm² PE

02105 RD 4 mm²
02107 BU 4 mm²
02106 RD 4 mm²
02110 BU 4 mm²

VD1
20A
WEIDMULLER PRO DM 20
code 2486080000

IN1+ IN1- IN2+ IN2- OUT+ OUT- 13 14

02115 WH 1 mm²

02108 RD 6 mm²
02111 BU 6 mm²

Q60
(016-F04)
24Vdc
32A

1 3 2 4 Q60 13 14 (024-G04)

02109 RD 6 mm²
02112 BU 6 mm²

CB_24Vdc_N
(022-A01)
(022-A06)
+ -

<1>
87-XA-062
SYS PANEL POWER SUPPLY
24Vdc FAILURE

POWER SUPPLY LINE
230Vac 50Hz
FROM UPS#2

02103 BR 2,5 mm² (016-D09)
02104 LB 2,5 mm² (016-D09)

G2
IN: 230Vac
OUT: 24Vdc
480W
20A
WEIDMULLER PRO ECO
code 1469510000

L(+) N(-) AC DC PE + + - - 13 14

02124 WH 1 mm²
00605 YG 2,5 mm² PE

02116 RD 4 mm²
02118 BU 4 mm²
02117 RD 4 mm²
02121 BU 4 mm²

VD2
20A
WEIDMULLER PRO DM 20
code 2486080000

IN1+ IN1- IN2+ IN1- OUT+ OUT- 13 14

02125 BK 1 mm² (027-B02)

02119 RD 6 mm²
02122 BU 6 mm²

Q61
24Vdc
32A

1 3 2 4 Q61 13 14 (024-F04)

02120 RD 6 mm²
02123 BU 6 mm²

(022-A01)
(022-A06)

<1>
87-XA-062
SYS PANEL POWER SUPPLY
24Vdc FAILURE

REV	DATE	PREPARED	CHECKED	APPROVED	DESCRIPTION
1	19.09.2024	A.G.	A.B.	S.C.	ISSUE FOR REVIEW (IFR)
0	21.06.2024	A.G.	A.B.	S.C.	ISSUE FOR APPROVAL

YOKOGAWA◆ PROJECT Nr. E36672C00
DESCRIPTION E366772C00-ITER_NC_WD

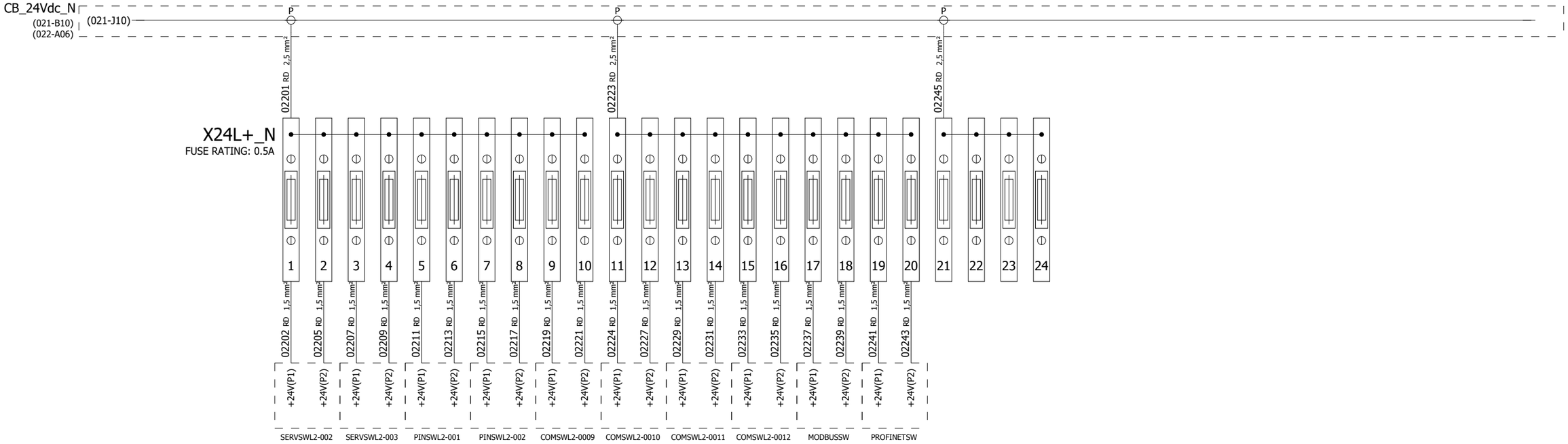
CROSSWIND ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
NET.&SERV. CABINETS IN ITER WIRING DIAGRAMS AND TERMINAL STRIPS
NET PANEL - 230Vac / 24Vdc POWER DISTRIBUTION

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

A3
DRAWING NO. 1724000594-IN-DG-00022
SHEET 021
REV. 1

NET PANEL - 230Vac/24Vdc POWER DISTRIBUTION



REV	DATE	PREPARED	CHECKED	APPROVED	DESCRIPTION
1	19.09.2024	A.G.	A.B.	S.C.	ISSUE FOR REVIEW (IFR)
0	21.06.2024	A.G.	A.B.	S.C.	ISSUE FOR APPROVAL

YOKOGAWA◆ PROJECT Nr. E36672C00
DESCRIPTION E366772C00-ITER_NC_WD

CROSSWIND

ROSETTI MARINO

TITLE :
BASE LOAD POWER HUB (BLPH)
NET.&SERV. CABINETS IN ITER WIRING DIAGRAMS AND TERMINAL STRIPS
NET. PANEL - POWER STRIPS DISTRIBUTION

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

SCALE : 1

A3

DRAWING NO.
1724000594-IN-DG-00022

SHEET 022

REV. 1

SHEET LEFT INTENTIONALLY BLANK

1	19.09.2024	A.G.	A.B.	S.C.	ISSUE FOR REVIEW (IFR)
0	21.06.2024	A.G.	A.B.	S.C.	ISSUE FOR APPROVAL
REV	DATE	PREPARED	CHECKED	APPROVED	DESCRIPTION

YOKOGAWA◆ PROJECT Nr. E36672C00
DESCRIPTION E366772C00-ITER_NC_WD

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
NET.&SERV. CABINETS IN ITER WIRING DIAGRAMS AND TERMINAL STRIPS
SPARE PAGE

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

SCALE : 1

A3

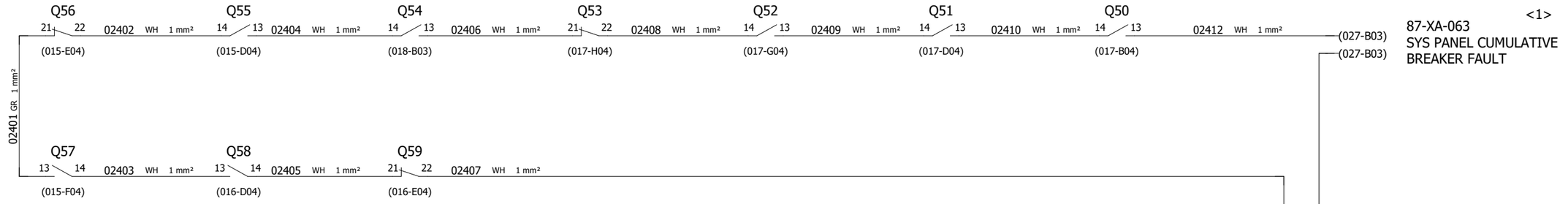
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SHEET 023

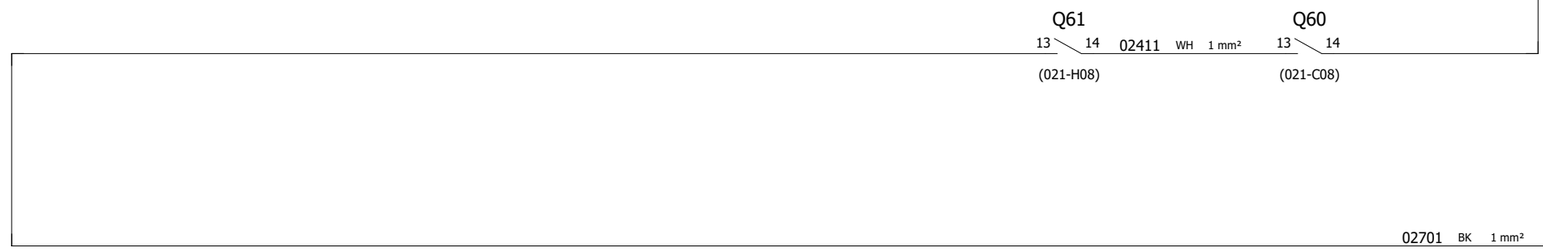
REV. 1

NET PANEL - BRAKER FAULT ALARM CIRCUIT

230Vac CIRCUIT BREAKER



24Vdc CIRCUIT BREAKER



NOTE : SPARE CIRCUIT BREAKER FAULT CONTACT TO BE CONNECTED ON NORMALLY CLOSE CONTACT.
CHANGE CONNECTION TO NORMALLY OPEN CONTACT WHEN THE BREAKER WILL BE USED

REV	DATE	PREPARED	CHECKED	APPROVED	DESCRIPTION
1	19.09.2024	A.G.	A.B.	S.C.	ISSUE FOR REVIEW (IFR)
0	21.06.2024	A.G.	A.B.	S.C.	ISSUE FOR APPROVAL

YOKOGAWA◆ PROJECT Nr. E36672C00
DESCRIPTION E366772C00-ITER_NC_WD

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
NET.&SERV. CABINETS IN ITER WIRING DIAGRAMS AND TERMINAL STRIPS
NET PANEL - BREAKER FAULT ALARM CIRCUIT

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

SCALE : 1

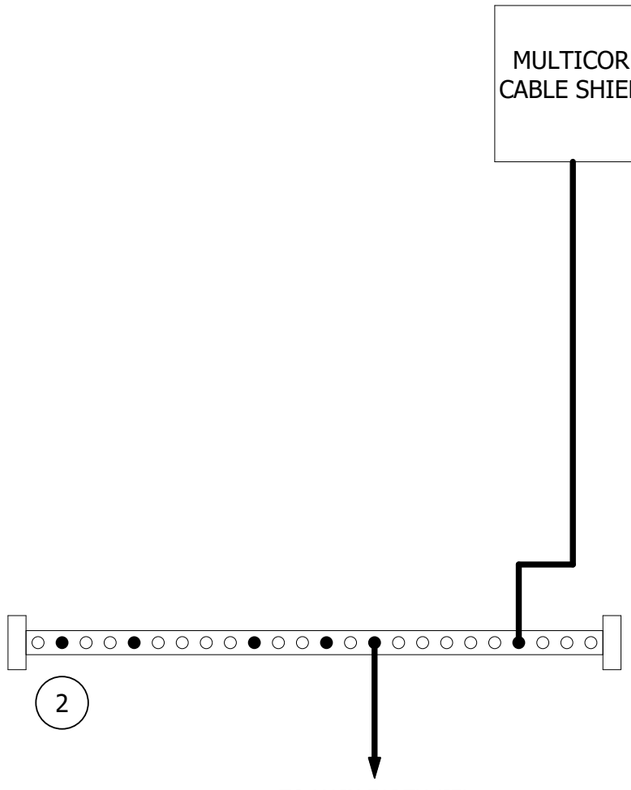
A3

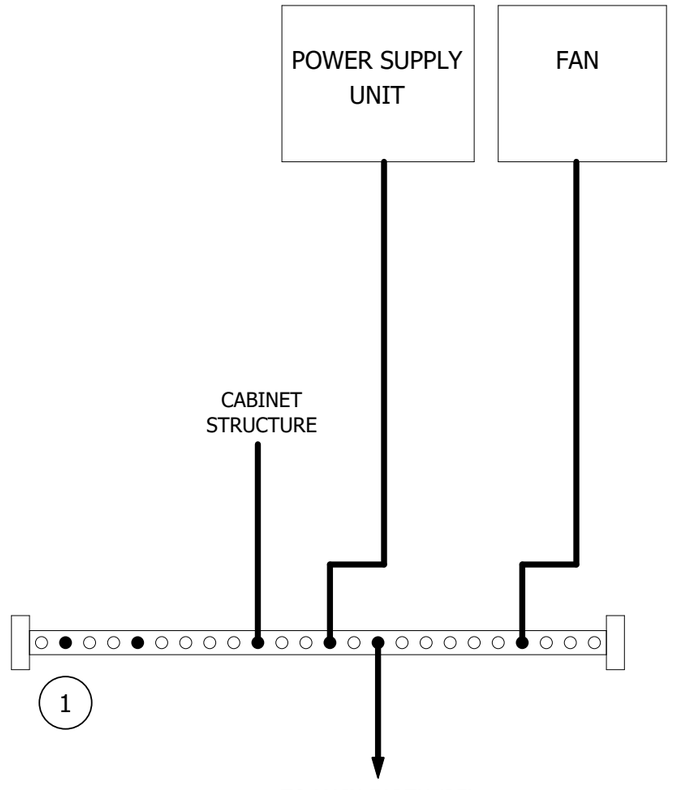
DRAWING NO. 1724000594-IN-DG-00022

SHEET 024

REV. 1

POS.	EARTH TYPE	DESCRIPTION SYSTEM EARTH
1	P.E. EARTH	PROTECTION EARTH (GROUND, FRAME CHASSIS)
2	I.E. EARTH	INSTRUMENTAL EARTH





REV	DATE	PREPARED	CHECKED	APPROVED	DESCRIPTION
1	19.09.2024	A.G.	A.B.	S.C.	ISSUE FOR REVIEW (IFR)
0	21.06.2024	A.G.	A.B.	S.C.	ISSUE FOR APPROVAL

YOKOGAWA◆ PROJECT Nr. E36672C00
DESCRIPTION E366772C00-ITER_NC_WD

CROSSWIND | ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
NET.&SERV. CABINETS IN ITER WIRING DIAGRAMS AND TERMINAL STRIPS
NET PANEL - SHIELD / GROUND CONNECTION

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

A3 | DRAWING NO. 1724000594-IN-DG-00022 | SHEET 025 | REV. 1

SHEET LEFT INTENTIONALLY BLANK

1	19.09.2024	A.G.	A.B.	S.C.	ISSUE FOR REVIEW (IFR)
0	21.06.2024	A.G.	A.B.	S.C.	ISSUE FOR APPROVAL
REV	DATE	PREPARED	CHECKED	APPROVED	DESCRIPTION

YOKOGAWA◆ PROJECT Nr. E36672C00
DESCRIPTION E366772C00-ITER_NC_WD

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
NET.&SERV. CABINETS IN ITER WIRING DIAGRAMS AND TERMINAL STRIPS
SPARE PAGE

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

SCALE : 1

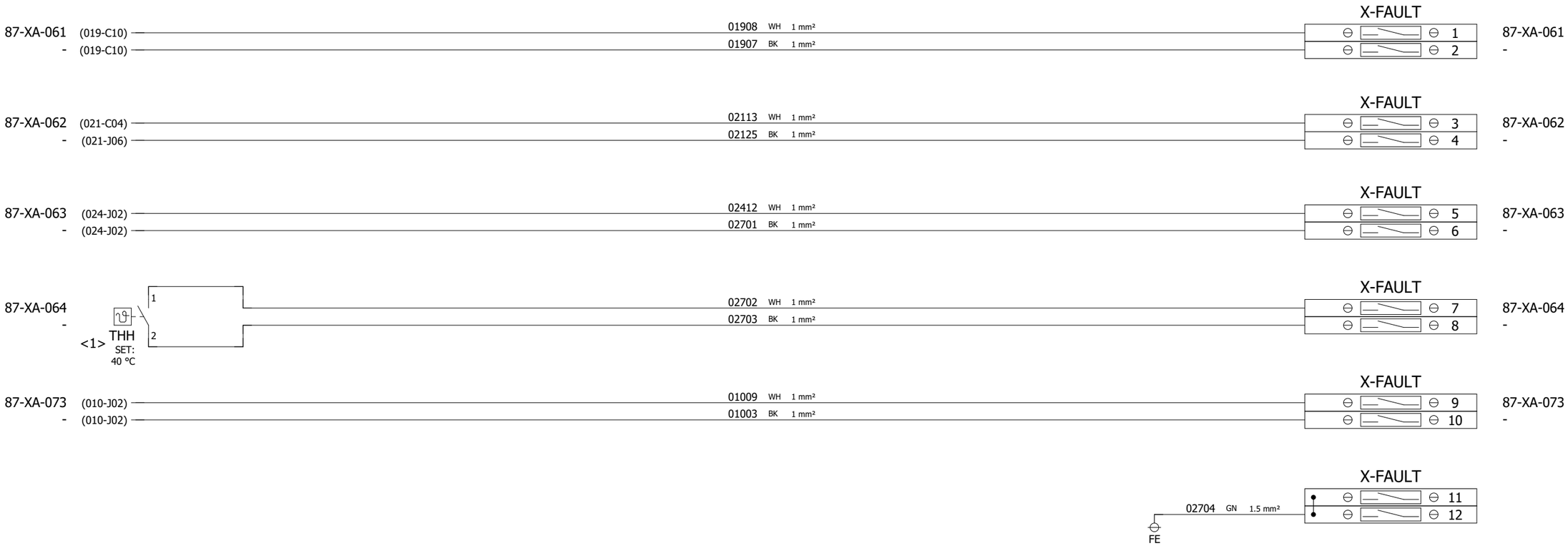
A3

DRAWING NO. 1724000594-IN-DG-00022

SHEET 026

REV. 1

NET PANEL - FAULT ALARM SIGNALS TO PCS



CUSTOMER TAG	SIGNAL DESCRIPTION FROM IO LIST
87-XA-061	NET PANEL VENTILATION FAN FAULT
87-XA-062	NET PANEL POWER SUPPLY & DIODES FAILURE
87-XA-063	NET PANEL CUMULATIVE BREAKER FAULT
87-XA-064	NET PANEL HIGH TEMPERATURE ALARM
87-XA-073	SERV. PANEL CUMULATIVE BREAKER FAULT

CUSTOMER TAG	SIGNAL DESCRIPTION FROM IO LIST
-	-
-	-
-	-
-	-
-	-

REV	DATE	PREPARED	CHECKED	APPROVED	DESCRIPTION
1	19.09.2024	A.G.	A.B.	S.C.	ISSUE FOR REVIEW (IFR)
0	21.06.2024	A.G.	A.B.	S.C.	ISSUE FOR APPROVAL

YOKOGAWA◆ PROJECT Nr. E36672C00
DESCRIPTION E366772C00-ITER_NC_WD

CROSSWIND ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
NET.&SERV. CABINETS IN ITER WIRING DIAGRAMS AND TERMINAL STRIPS
NET PANEL - FAULT ALARM SIGNALS TO PCS

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

SCALE : 1

A3

DRAWING NO. 1724000594-IN-DG-00022

SHEET 027

REV. 1

NET PANEL - POWER STRIPS DISTRIBUTION

POWER SUPPLY LINE
230Vac 50Hz
FROM UPS#1

POWER SUPPLY LINE
230Vac 50Hz
FROM UPS#2

(015-E09) (015-E09) (016-E09) (016-E09)

01609 BR 2,5 mm² 01612 LB 2,5 mm²

SK7

SNSWL2-003 | SNSWL2-004 | CNSWL2-001 | CNSWL2-002 | EMCSSVR01 | EMCSSVR02 | SPARE

01508 BR 2.5 mm² L
01511 LB 2.5 mm² N
02803 YG 2.5 mm² PE

PE

SK8

FW-001 | FW-003

SPARE | SPARE | SPARE | SPARE | SPARE | SPARE | SPARE

01509 BR 2.5 mm² L
01512 LB 2.5 mm² N
02804 YG 2.5 mm² PE

PE

SK9

SNSWL2-003 | SNSWL2-004 | CNSWL2-001 | CNSWL2-002 | EMCSSVR01 | EMCSSVR02 | SPARE

01608 BR 2.5 mm² L
01611 LB 2.5 mm² N
02801 YG 2.5 mm² PE

PE

SK10

FW-002 | FW-004

SPARE | SPARE | SPARE | SPARE | SPARE | SPARE | SPARE

01609 BR 2.5 mm² L
01612 LB 2.5 mm² N
02802 YG 2.5 mm² PE

PE

NOTE 1: For details on network cables connections, refer to doc. "1724000594-IN-DG-00016 - Network Connection Diagram

REV	DATE	PREPARED	CHECKED	APPROVED	DESCRIPTION
1	19.09.2024	A.G.	A.B.	S.C.	ISSUE FOR REVIEW (IFR)
0	21.06.2024	A.G.	A.B.	S.C.	ISSUE FOR APPROVAL

YOKOGAWA◆ PROJECT Nr. E36672C00
DESCRIPTION: E366772C00-ITER_NC_WD

CROSSWIND | ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
NET.&SERV. CABINETS IN ITER WIRING DIAGRAMS AND TERMINAL STRIPS
NET. PANEL - POWER STRIPS DISTRIBUTION

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

SCALE : 1

A3

DRAWING NO. 1724000594-IN-DG-00022

SHEET 028

REV. 1

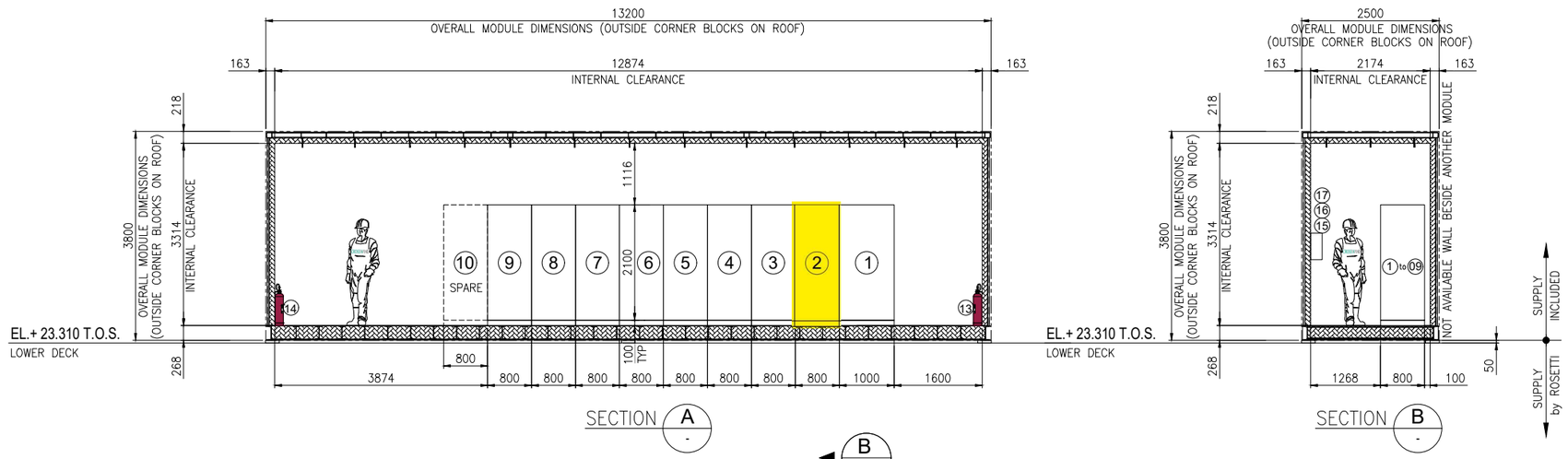
ITEM	Tag	GPSANT	: Antenna GPS			Dwg	1724000594-IN-LIS-00007
	S/Sys	86-00	: Data Networks			Module	LD_B-400_Ext
TASK	code	C10004720		Location	Onshore Activities	User	Rosetti Marino Quality Control
FORM	Process	MC	Activity CCK	Discipline	Instrumental Form CJX00		Miscellaneous

1	Check for mechanical damage.	OK
2	Check installed equipment is suitable and conforms to specification.	OK
3	Check installation conforms to P&ID and hook-up drawing.	NA
4	Check tube fittings manufacturer is the one chosen for the plant.	NA
5	Check that piping connections provide the block & bleed facility (if required).	NA
6	Check that all stop plugs are properly installed	NA
7	Check identification (tag number, tag plates).	OK
8	Check supporting and protection against vibrations.	OK
9	Check the conformity of earthing as per specification (I.P.E. or I.E.)	NA
10	If required produce Red Line Mark Up for "AS BUILT"	

Comments:

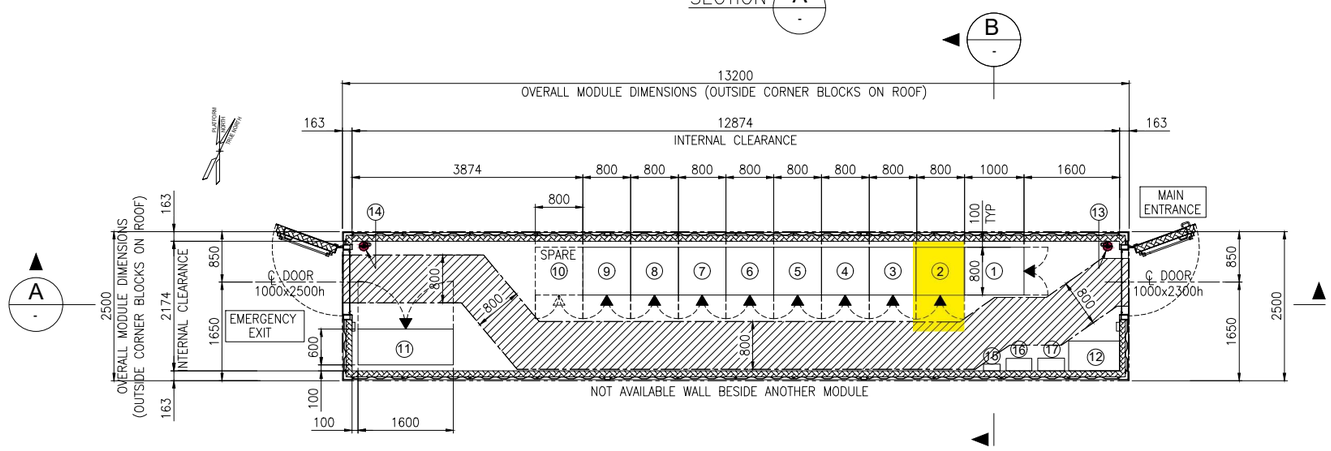
	Performed by	● WITNESS ☐ REVIEW	☐ WITNESS ☐ REVIEW
Company	ICS IMPIANTI	RM(ROSETTI MARINO)	
Name	Francesco Zucca	Alessio Polo	
Date	2024-11-28	2024-11-29	
Signature	PROVERLIS Digitaly signed by Francesco Zucca 2024-11-28T11:12:53.489Z	PROVERLIS Digitaly signed by Alessio Polo 2024-11-29T12:13:03.049Z	

DRAWING NO. 123A90-DDL-IN-DL-40012 REV. 03



SECTION A -

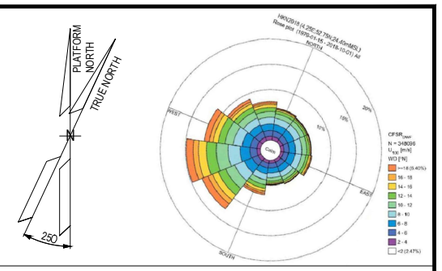
SECTION B -



EQUIPMENT LAYOUT
"B-400" I&T EQUIPMENT ROOM
BOTTOM PLAN

EQUIPMENT LIST

REF.	TAG No.	DESCRIPTION	LENGTH (mm)	WIDTH (mm)	HEIGHT (mm)	NOTE
1	B400-SRV-001	SERVER CABINET	1000	800	2100	
2	B400-NET-001	NETWORK CABINET	800	800	2100	
3	B400-EMCS-001	EMCS SYSTEM CABINET	800	800	2100	
4	B400-PCS-002	PCS MARSHALLING CABINET	800	800	2100	
5	B400-PCS-001	PCS SYSTEM CABINET 03	800	800	2100	
6	B400-FGS-003	FGS MARSHALLING CABINET 2	800	800	2100	
7	B400-FGS-002	FGS MARSHALLING CABINET 1	800	800	2100	
8	B400-FGS-001	FGS SYSTEM CABINET	800	800	2100	
9	B400-SIS-001	SIS SYSTEM/MARSHALLING CABINET	800	800	2100	
10	-	SPARE				
11	B400-HSB-001	DISTRIBUTION & HVAC PANEL - I&T ROOM	1600	600	2300	
12	-	TABLE	850	500	750	
13	-	PORTABLE EXTINGUISHER (CO2) 5 Kg.	150	150	750	
14	-	PORTABLE EXTINGUISHER (CO2) 5 Kg.	150	150	750	
15	-	FIRST AID KIT	280	115	200	
16	-	RESUSCITATION UNIT	430	210	480	
17	-	CABINET INCLUDED N.10 ESCAPE MASK	448	213	422	



NOTES

1. U.N.O. ALL DIMENSIONS ARE IN MILLIMETERS.
2. DOCUMENT VALID ONLY FOR INSTRUMENT COMPONENT, FOR OTHER SCOPE LOCATION AND INFORMATION, PLEASE REFER TO VENDORS AND PROJECT DOCUMENTS.

LEGEND

U.N.O. _____ UNLESS NOTED OTHERWISE
T.O.S. _____ TOP OF STEEL
_____ ESCAPE CORRIDOR – WIDTH 800mm.
_____ EQUIPMENT ROOM ENCLOUSURE
_____ FRONT OF EQUIPMENT

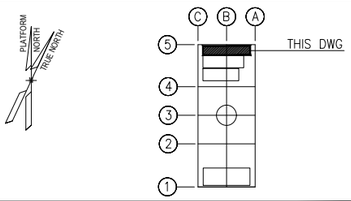
HOLDS

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REFERENCE

DOCUMENT TITLE	DOCUMENT NUMBER
Control System Architecture Detailed Drawings	123A90-DDL-IN-DD-40096
Data Network Architecture Drawings	123A90-DDL-IN-DD-40019
Earthing layouts drawings (CCR, ITER)	123A90-DDL-IN-DL-40013
Instrument and Telecom MCT Layout – Lower Deck	123A90-DDL-IN-DL-40086
"B-400" I&T Equipment Room – Architectural Layout	123A90-DDL-AR-DL-10015
"B-400" ARCHITECTURAL GENERAL LAYOUT PLAN, WIEW, SECTIONS & TYP. DETAILS	123A90-DDL-AR-DL-10015
"B-400" GENERAL ARRANGEMENT DRAWING	1724000049-AR-DA-00017
"B-400" GENERAL ARRANGEMENT DRAWING	1724000049-AR-DD-00021
"B-400" HVAC SYSTEM G.A. and DETAILS	1724000049-HV-DA-00067

KEY PLAN



REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
03	04/10/24	VBA	LCA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
02	27/05/24	MGA	LCA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	22/01/24	VBA	LCA	DLO	ISSUE FOR REVIEW (IFR)
00	07/11/23	VBA	LCA	DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND — ROSETTI MARINO

VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-IN-DL-40012**

REV.:	DATE:	SIGNATURE:
3_A	07/10/24	G.Randi

ROSETTI MARINO SpA

TITLE : BASE LOAD POWER HUB (BLPH)
OFF-SHORE ITER
EQUIPMENT LAYOUT

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK			SCALE 1:33,3
DRAWN MGA	CHECKED LCA	APPROVED DLO	DATE 27/05/24
A1	DRAWING NO. 123A90-DDL-IN-DL-40012	SHEET 001	REV. 03

File Name : 123A90-DDL-IN-DL-40012 Rev.03.dwg

Section 7 MECHANICAL COMPLETION STATUS INDEX - MECHANICAL DISCIPLINE

NOT APPLICABLE

Section 8 MECHANICAL COMPLETION STATUS INDEX - TELECOMMUNICATION DISCIPLINE

CROSSWIND

ROSETTI MARINO

Project CROSSWIND

STATUS INDEX DETAIL

Filtered on subsystem: 86-00 & process: MC & discipline : T

Telecom	86-00 Data Networks						
ITEM		TASK					
Code	Description	Location	Code	Form	Progress	Date	Certificate
C-GPSANT/B400-NET-001	C-GPSANT/B400-NET-001	ONSHORE	C10004721	CIX09	100	2024-11-29	RFC 2

ITEM	Tag	C-GPSANT/B400-NET-001 : C-GPSANT/B400-NET-001				Dwg	123A90-DDL-IN-LIS-40091
	S/Sys	86-00 : Data Networks				Module	LD_B-400_Ext/LD_B-400
TASK	code	C10004721		Location	Onshore Activities	User	Rosetti Marino Quality Control
FORM	Process	MC	Activity CCK	Discipline	Telecom	Form	CIX09 Telecom Cable RJ45

CABLE DATA

Type: Armoured Coaxial Cable | Cores/Size mm²: - | Color: -

From: GPSANT | To: B400-NET-001

1	Confirm cable is as specified in project cable schedule	OK
2	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.	OK
5	Check bending radius is within the specified limits.	OK
6	Confirm cable glands suit for cable type, correctly mounted and tightened.	NA
7	Confirm cable labelling is in accordance with specifications.	PL
8	Check cable is correctly loomed and segregated in accordance with specification.	OK
9	Check proper fitting of heat shrink sleeves and cable glands (if applicable).	NA
10	Check cores marking are in accordance with termination diagram.	OK
11	Check terminations are in accordance with latest termination diagram.	PL
12	To roll up that measured lenght complies with pulled lenght.	OK
13	To roll up the cable complies with Cat. 5E performance requirements (250 Mhz).	NA
14	Attach LAN tester print out to this test sheet.	NA
15	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	Alessio Polo	
Date	2024-11-28	2024-11-29	
Signature	Digitaly signed by Francesco Zucca 2024-11-28T11:13:26.026Z	Digitaly signed by Alessio Polo 2024-11-29T12:28:41.166Z	

DRAWING NO. 123A90-DDL-IN-DL-40080

REV. 02

MFA MANUAL CALL POINT	950-MFA-04201
XL BEACON (AMBER)	950-XL-04201
XL BEACON (RED)	950-XL-04202
XZ SOUNDER	950-XZ-04201
TDC DOOR CONTACT	B400-TDC-001
TDC DOOR CONTACT	B400-TDC-002
TIR MICROWAVE MOTION SENSOR	B400-TIR-001

MFA MANUAL CALL POINT	950-MFA-04202
XL BEACON (AMBER)	950-XL-04203
XL BEACON (RED)	950-XL-04204
XZ SOUNDER	950-XZ-04202
TDC DOOR CONTACT	B300-TDC-001
TDC DOOR CONTACT	B300-TDC-002
TIR MICROWAVE MOTION SENSOR	B300-TIR-001

MFA MANUAL CALL POINT	950-MFA-04203
XL BEACON (AMBER)	950-XL-04205
XL BEACON (RED)	950-XL-04206
XZ SOUNDER	950-XZ-04203
TDC DOOR CONTACT	B200-TDC-001
TDC DOOR CONTACT	B200-TDC-002
TIR MICROWAVE MOTION SENSOR	B200-TIR-001

950-JE-04101
+24.910mm
+1.600mm T.O.S

950-JE-04102
+24.910mm
+1.600mm T.O.S

950-JE-04103
+24.910mm
+1.600mm T.O.S

B-400
I&T EQUIPMENT ROOM

B-300
AC UPS

B-200
LV SWITCHROOM 400V

A-85000

BESS 01

BESS 02

WATER-TREATMENT-PACKAGE

U-64000

NITROGEN-RECEIVER

B-100
HV/MV SWITCHROOM
66kV/6.6kV

50-XV-002
50-XY-002
50-ZSH-002
50-ZSL-002
+23.628mm
+0.318mm T.O.S

50-XV-001
50-XY-001
50-ZSH-001
50-ZSL-001
+23.628mm
+0.318mm T.O.S

950-JE-05103
+24.910mm
+1.600mm T.O.S

50-PT-001
+24.765mm
+1.455mm T.O.S

950-JE-05102
+24.910mm
+1.600mm T.O.S

64-PV-031A
64-PY-031A
64-ZT-031A
64-ZSH-031A
64-ZSL-031A
+23.238mm
+0.072mm T.O.S

64-PT-031A
+23.389mm
+0.079mm T.O.S

64-PV-031B
64-PY-031B
64-ZT-031B
64-ZSH-031B
64-ZSL-031B
+23.238mm
+0.072mm T.O.S

64-PT-031B
+23.389mm
+0.079mm T.O.S

64-PT-002
+23.389mm
+0.079mm T.O.S

00-JE-11005
+24.909mm
+1.599mm T.O.S

950-JE-06101
+24.909mm
+1.599mm T.O.S

00-JE-11004
+24.909mm
+1.599mm T.O.S

950-JE-05101
+24.909mm
+1.599mm T.O.S

00-JE-12006
+24.909mm
+1.599mm T.O.S

50-PT-014
+23.303mm
+0.007mm T.O.S

50-TT-001
+23.988mm
+0.678mm T.O.S

50-TT-002
+23.373mm
+0.063mm T.O.S

50-XV-004
50-XY-004
50-ZSH-004
50-ZSL-004
+23.628mm
+0.318mm T.O.S

50-XV-005
50-XY-005
50-ZSH-005
50-ZSL-005
+23.628mm
+0.318mm T.O.S

50-XV-003
50-XY-003
50-ZSH-003
50-ZSL-003
+23.628mm
+0.318mm T.O.S

50-PT-002
+24.730mm
+1.420mm T.O.S

950-JE-06103
+24.910mmmm
+1.600mm T.O.S

950-JE-06102
+24.910mm
+1.600mm T.O.S

MFA MANUAL CALL POINT	950-MFA-06201
XL BEACON (AMBER)	950-XL-06201
XL BEACON (RED)	950-XL-06202
XZ SOUNDER	950-XZ-06201
TDC DOOR CONTACT	B100-TDC-001
TDC DOOR CONTACT	B100-TDC-002
TIR MICROWAVE MOTION SENSOR	B100-TIR-001

LOWER DECK
SCALE: 1:100

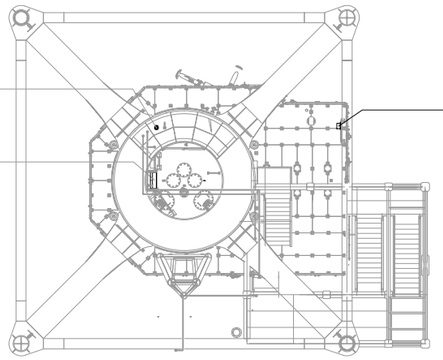
VIEW EL. 23310mm to 29310mm

02

55-LIT-001
-21.441mm
-1.869mm T.O.S

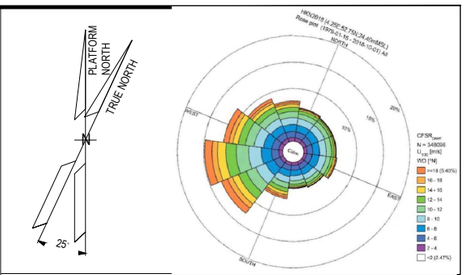
HNA6-SOLAR JB
-21.110mm
-2.200mm T.O.S

950-JE-07101
-18.507mm
-4.803mm T.O.S



TRANSITION PIECE
SCALE: 1:100

VIEW EL. 17050mm to 23310mm



NOTES

1. ALL DIMENSIONS AND ELEVATIONS ARE GIVEN IN mm UNLESS OTHERWISE NOTED.
2. ELEVATIONS REFER TO T.O.S.
3. THIS DRAWING IS VALID ONLY FOR INSTRUMENT LOCATION LAYOUT.

LEGEND

- INSTRUMENT JUNCTION BOX
- ELECTRONIC INSTRUMENT
- CONTROL / ON-OFF VALVE

HOLDS

REFERENCE DOCUMENTS

123A90-DDL-PP-DL-70070	PLOT PLAN - LOWER & UPPER DECK
123A90-DDL-IN-DL-40081	INSTRUMENT LAYOUT - UPPER DECK
123A90-DDL-IN-LIS-40091	INSTRUMENT CABLE LIST
123A90-DDL-IN-DG-40015	INSTRUMENT-CCS WIRING DIAGRAMS
123A90-DDL-IN-DG-40016	INSTRUMENT-SAFETY SYSTEM WIRING DIAGRAMS
123A90-DDL-IN-DL-40083	INSTRUMENT MAIN CABLES ROUTING-UPPER DECK

INSERT SUBCONTRACTOR / VENDOR LOGO HERE

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	04/10/24	VBA	LCA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	26/08/24	VBA	LCA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	22/12/23	VBA	LCA	DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND

ROSETTI MARINO

VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-IN-DL-40080**

REV.:	DATE:	SIGNATURE:
2_C	06/11/24	G.Randi

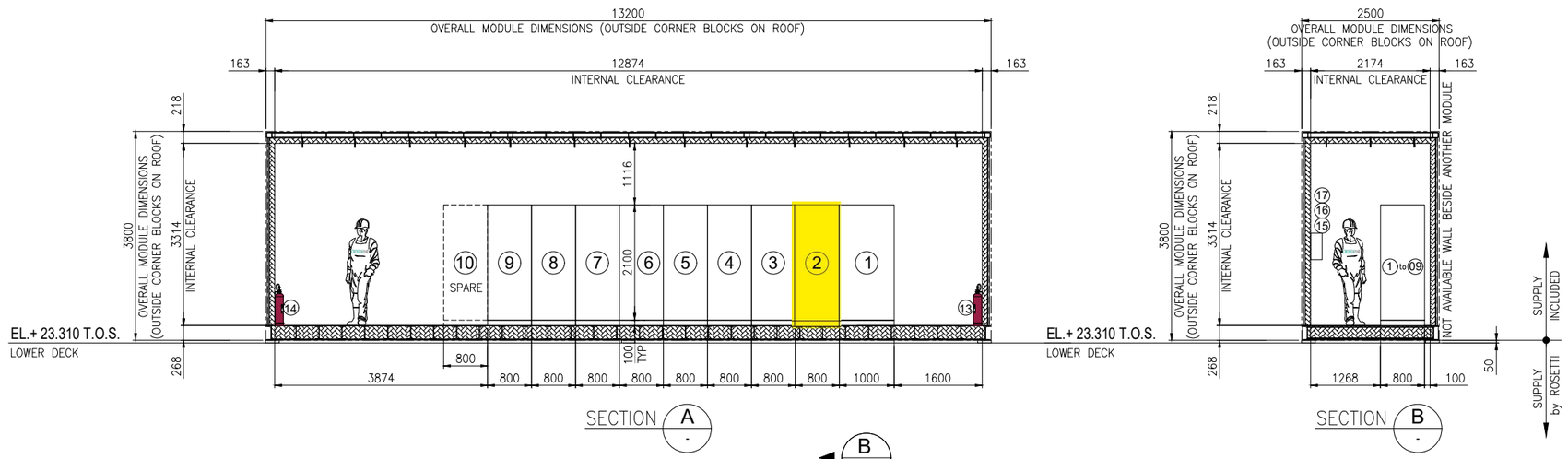
ROSETTI MARINO SpA

TITLE :
BASE LOAD POWER HUB (BLPH)
INSTRUMENT LOCATION LAYOUT–LOWER DECK
TOS EL. 23.310M

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK			SCALE 1:150
DRAWN VBA	CHECKED LCA	APPROVED DLO	DATE 04/10/24
A1	DRAWING NO. 123A90–DDL–IN–DL–40080	SHEET 001	REV. 02

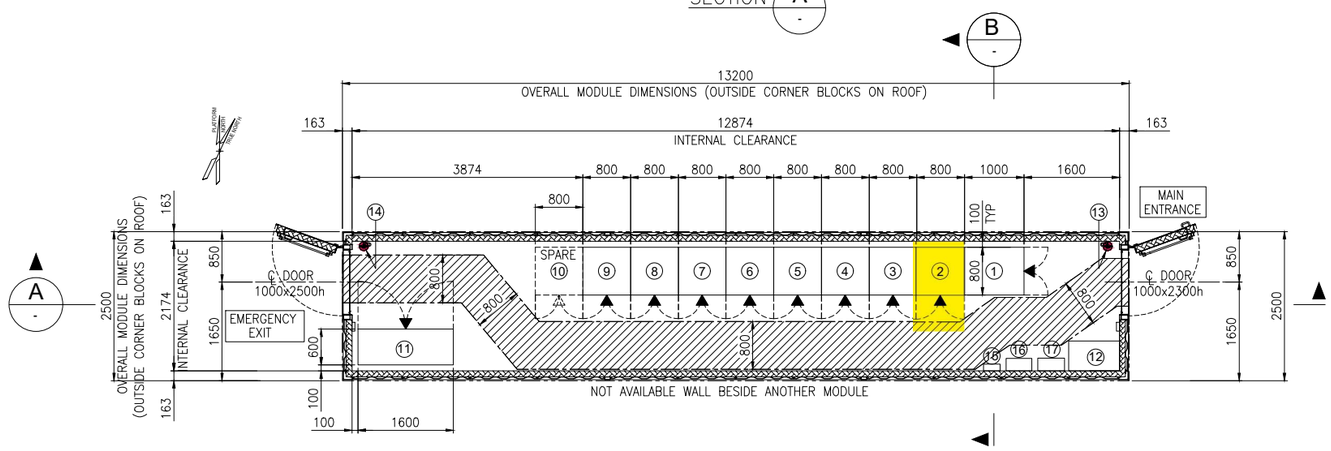
File Name : 123A90-DDL-IN-DL-40080 REV02.dwg

DRAWING NO. 123A90-DDL-IN-DL-40012 REV. 03



SECTION A -

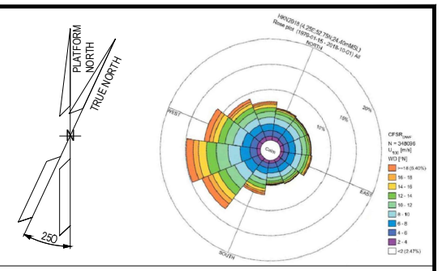
SECTION B -



EQUIPMENT LAYOUT
"B-400" I&T EQUIPMENT ROOM
BOTTOM PLAN

EQUIPMENT LIST

REF.	TAG No.	DESCRIPTION	LENGTH (mm)	WIDTH (mm)	HEIGHT (mm)	NOTE
1	B400-SRV-001	SERVER CABINET	1000	800	2100	
2	B400-NET-001	NETWORK CABINET	800	800	2100	
3	B400-EMCS-001	EMCS SYSTEM CABINET	800	800	2100	
4	B400-PCS-002	PCS MARSHALLING CABINET	800	800	2100	
5	B400-PCS-001	PCS SYSTEM CABINET 03	800	800	2100	
6	B400-FGS-003	FGS MARSHALLING CABINET 2	800	800	2100	
7	B400-FGS-002	FGS MARSHALLING CABINET 1	800	800	2100	
8	B400-FGS-001	FGS SYSTEM CABINET	800	800	2100	
9	B400-SIS-001	SIS SYSTEM/MARSHALLING CABINET	800	800	2100	
10	-	SPARE				
11	B400-HSB-001	DISTRIBUTION & HVAC PANEL - I&T ROOM	1600	600	2300	
12	-	TABLE	850	500	750	
13	-	PORTABLE EXTINGUISHER (CO2) 5 Kg.	150	150	750	
14	-	PORTABLE EXTINGUISHER (CO2) 5 Kg.	150	150	750	
15	-	FIRST AID KIT	280	115	200	
16	-	RESUSCITATION UNIT	430	210	480	
17	-	CABINET INCLUDED N.10 ESCAPE MASK	448	213	422	



NOTES

1. U.N.O. ALL DIMENSIONS ARE IN MILLIMETERS.
2. DOCUMENT VALID ONLY FOR INSTRUMENT COMPONENT, FOR OTHER SCOPE LOCATION AND INFORMATION, PLEASE REFER TO VENDORS AND PROJECT DOCUMENTS.

LEGEND

U.N.O. _____ UNLESS NOTED OTHERWISE
T.O.S. _____ TOP OF STEEL
_____ ESCAPE CORRIDOR – WIDTH 800mm.
_____ EQUIPMENT ROOM ENCLOUSURE
_____ FRONT OF EQUIPMENT

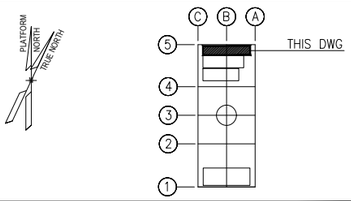
HOLDS

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REFERENCE

DOCUMENT TITLE	DOCUMENT NUMBER
Control System Architecture Detailed Drawings	123A90-DDL-IN-DD-40096
Data Network Architecture Drawings	123A90-DDL-IN-DD-40019
Earthing layouts drawings (CCR, ITER)	123A90-DDL-IN-DL-40013
Instrument and Telecom MCT Layout – Lower Deck	123A90-DDL-IN-DL-40086
"B-400" I&T Equipment Room – Architectural Layout	123A90-DDL-AR-DL-10015
"B-400" ARCHITECTURAL GENERAL LAYOUT PLAN, WIEW, SECTIONS & TYP. DETAILS	123A90-DDL-AR-DL-10015
"B-400" GENERAL ARRANGEMENT DRAWING	1724000049-AR-DA-00017
"B-400" GENERAL ARRANGEMENT DRAWING	1724000049-AR-DD-00021
"B-400" HVAC SYSTEM G.A. and DETAILS	1724000049-HV-DA-00067

KEY PLAN



REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
03	04/10/24	VBA	LCA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
02	27/05/24	MGA	LCA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	22/01/24	VBA	LCA	DLO	ISSUE FOR REVIEW (IFR)
00	07/11/23	VBA	LCA	DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND — ROSETTI MARINO

VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-IN-DL-40012**

REV.:	DATE:	SIGNATURE:
3_A	07/10/24	G.Randi

ROSETTI MARINO SpA

TITLE : BASE LOAD POWER HUB (BLPH)
OFF-SHORE ITER
EQUIPMENT LAYOUT

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK			SCALE 1:33,3
DRAWN MGA	CHECKED LCA	APPROVED DLO	DATE 27/05/24
A1	DRAWING NO. 123A90-DDL-IN-DL-40012	SHEET 001	REV. 03

File Name : 123A90-DDL-IN-DL-40012 Rev.03.dwg

ITEM	FROM				TO					CABLE TAG	CABLE TAG	CABLE		SERVICE	REMARKS
NO	CABINET NO.	EQUIPMENT	PORT	LOCATION	CABINET NO.	EQUIPMENT	PORT	LOCATION	Cable Name			TYPE	LENGTH (M)		
C	PIN Network Cables														
29	HKN-WPO1-BLPH-NET-01	PINSWL2-005	P9	OER	HKN-WPO1-BLPH-SRV-01	NMSSVR	P1	OER	HKN-WPO11-C29	PINSWL2-005:P9 / NMSSVR:P1	NMSSVR:P1 / PINSWL2-005:P9	CAT6 UTP, GREEN	10	PIN	NMS SERVER
30	HKN-WPO1-BLPH-NET-01	PINSWL2-005	P10	OER	HKN-WPO1-BLPH-SRV-01	BCKSVR	P1	OER	HKN-WPO11-C30	PINSWL2-005:P10 / BCKSVR:P1	BCKSVR:P1 / PINSWL2-005:P10	CAT6 UTP, GREEN	10	PIN	BCK01 Server(Backup Recovery Server)
31	HKN-WPO1-BLPH-NET-01	PINSWL2-005	P11	OER	HKN-WPO1-BLPH-SRV-01	AVSVR	P1	OER	HKN-WPO11-C31	PINSWL2-005:P11 / AVSVR:P1	AVSVR:P1 / PINSWL2-005:P11	CAT6 UTP, GREEN	10	PIN	AV Server
32	HKN-WPO1-BLPH-NET-01	PINSWL2-005	P12	OER	HKN-WPO1-BLPH-SRV-01	WSUSSVR	P1	OER	HKN-WPO11-C32	PINSWL2-005:P12 / WSUSSVR:P1	WSUSSVR:P1 / PINSWL2-005:P12	CAT6 UTP, GREEN	10	PIN	WSUS Server
33	HKN-WPO1-BLPH-NET-01	PINSWL2-005	P13	OER	HKN-WPO1-BLPH-SRV-01	FW-007	P3	OER	HKN-WPO11-C33	PINSWL2-005:P13 / FW-007:P3	FW-007:P3 / PINSWL2-005:P13	CAT6 UTP, GREEN	10	PIN	
34	HKN-WPO1-BLPH-NET-01	PINSWL2-006	P13	OER	HKN-WPO1-BLPH-SRV-01	FW-007	P4	OER	HKN-WPO11-C34	PINSWL2-006:P13 / FW-007:P4	FW-007:P4 / PINSWL2-006:P13	CAT6 UTP, GREEN	10	PIN	
35	HKN-WPO1-BLPH-NET-01	PINSWL2-005	P14	OER	HKN-WPO1-BLPH-SRV-01	FW-008	P3	OER	HKN-WPO11-C35	PINSWL2-005:P14 / FW-008:P3	FW-008:P3 / PINSWL2-005:P14	CAT6 UTP, GREEN	10	PIN	EXISTING CUSTOMER FIREWALL for HV SCADA **(Hold-5)**
36	HKN-WPO1-BLPH-NET-01	PINSWL2-006	P5	OER	HKN-WPO1-BLPH-SRV-01	DCSVR01	P2	OER	HKN-WPO11-C36	PINSWL2-006:P5 / DCSVR01:P2	DCSVR01:P2 / PINSWL2-006:P5	TBD(HOLD-1)	10	PIN	DC01 SERVER
37	HKN-WPO1-BLPH-NET-01	PINSWL2-006	P6	OER	HKN-WPO1-BLPH-SRV-01	DCSVR02	P2	OER	HKN-WPO11-C37	PINSWL2-006:P6 / DCSVR02:P2	DCSVR02:P2 / PINSWL2-006:P6	CAT6 UTP, GREEN	10	PIN	DC02 SERVER
38	HKN-WPO1-BLPH-NET-01	PINSWL2-006	P7	OER	HKN-WPO1-BLPH-SRV-01	CIPOSVR01	P2	OER	HKN-WPO11-C38	PINSWL2-006:P7 / CIPOSVR01:P2	CIPOSVR01:P2 / PINSWL2-006:P7	CAT6 UTP, GREEN	10	PIN	CI-PORTAL 01
39	HKN-WPO1-BLPH-NET-01	PINSWL2-006	P8	OER	HKN-WPO1-BLPH-SRV-01	CIPOSVR02	P2	OER	HKN-WPO11-C39	PINSWL2-006:P8 / CIPOSVR02:P2	CIPOSVR02:P2 / PINSWL2-006:P8	CAT6 UTP, GREEN	10	PIN	CI-PORTAL 02
40	HKN-WPO1-BLPH-NET-01	PINSWL2-006	P9	OER	HKN-WPO1-BLPH-SRV-01	NMSSVR	P2	OER	HKN-WPO11-C40	PINSWL2-006:P9 / NMSSVR:P2	NMSSVR:P2 / PINSWL2-006:P9	CAT6 UTP, GREEN	10	PIN	NMS SERVER
41	HKN-WPO1-BLPH-NET-01	PINSWL2-006	P10	OER	HKN-WPO1-BLPH-SRV-01	BCKSVR	P2	OER	HKN-WPO11-C41	PINSWL2-006:P10 / BCKSVR:P2	BCKSVR:P2 / PINSWL2-006:P10	CAT6 UTP, GREEN	10	PIN	BCK01 Server(Backup Recovery Server)
42	HKN-WPO1-BLPH-NET-01	PINSWL2-006	P11	OER	HKN-WPO1-BLPH-SRV-01	AVSVR	P2	OER	HKN-WPO11-C42	PINSWL2-006:P11 / AVSVR:P2	AVSVR:P2 / PINSWL2-006:P11	CAT6 UTP, GREEN	10	PIN	AV Server
43	HKN-WPO1-BLPH-NET-01	PINSWL2-006	P12	OER	HKN-WPO1-BLPH-SRV-01	WSUSSVR	P2	OER	HKN-WPO11-C43	PINSWL2-006:P12 / WSUSSVR:P2	WSUSSVR:P2 / PINSWL2-006:P12	CAT6 UTP, GREEN	10	PIN	WSUS Server
44	HKN-WPO1-BLPH-NET-01	PINSWL2-006	P14	OER	HKN-WPO1-BLPH-SRV-01	FW-008	P4	OER	HKN-WPO11-C44	PINSWL2-006:P14 / FW-008:P4	FW-008:P4 / PINSWL2-006:P14	CAT6 UTP, GREEN	10	PIN	EXISTING CUSTOMER FIREWALL for HV SCADA **(Hold-5)**
45	HKN-WPO1-BLPH-SRV-01	FW-008	P3	OER	TBD(HOLD-6)	FW-009	P1	CCR	HKN-WPO11-C45	FW-008:P3 / FW-009:P1	FW-009:P1 / FW-008:P3	CAT6 UTP, GREEN	10	PIN	FW TO FW ON COMPANY ENTERPRISE NETWORK TBD **(Hold-5)**
46	TBD (HOLD-6)	FW-009	P2	CCR	TBD(HOLD-6)	CIPO04	P1	CCR	TBD (HOL)-C46	FW-009:P2 / CIPO04:P1	CIPO04:P1 / FW-009:P2	TBD(HOLD-1)	TBD(HOLD-1)	PIN	CI OWS CCR (TBD)
47	TBD (HOLD-6)	FW-009	P3	CCR	TBD(HOLD-6)	CIPO05	P1	CCR	TBD (HOL)-C47	FW-009:P3 / CIPO05:P1	CIPO05:P1 / FW-009:P3	CAT6 UTP, GREEN	TBD(HOLD-1)	PIN	CI OWS CCR(TBD)
48	TBD (HOLD-6)	FW-009	P4	CCR	TBD(HOLD-6)	IAMSCLT	P1	CCR	TBD (HOL)-C48	FW-009:P4 / IAMSCLT:P1	IAMSCLT:P1 / FW-009:P4	CAT6 UTP, GREEN	TBD(HOLD-1)	PIN	IAMS CLIENT(TBD)
49	TBD (HOLD-6)	FW-009	P5	CCR	TBD(HOLD-6)	CRPRT01	P1	CCR	TBD (HOL)-C49	FW-009:P5 / CRPRT01:P1	CRPRT01:P1 / FW-009:P5	CAT6 UTP, GREEN	TBD(HOLD-1)	PIN	PRINTER(TBD)
50	HKN-WPO1-BLPH-NET-01	PINSWL2-003	P12	OER	HKN-WPO1-BLPH-SRV-01	FW-008	P1	OER	HKN-WPO11-C50	PINSWL2-003:P12 / FW-008:P1	FW-008:P1 / PINSWL2-003:P12	CAT6 UTP, GREEN	5	PIN	
51	HKN-WPO1-BLPH-NET-01	PINSWL2-004	P12	OER	HKN-WPO1-BLPH-SRV-01	FW-008	P2	OER	HKN-WPO11-C51	PINSWL2-004:P12 / FW-008:P2	FW-008:P2 / PINSWL2-004:P12	CAT6 UTP, GREEN	5	PIN	
52	HKN-WPO1-BLPH-SRV-01	FW-007	WAN1	OER	HKN-WPO1-BLPH-SRV-01	FW-008	WAN1	OER	HKN-WPO11-C52	FW-007:WAN1 / FW-008:WAN1	FW-008:WAN1 / FW-007:WAN1	CAT6 UTP, WHITE	2	HA	REDUNDANCY
53	HKN-WPO1-BLPH-SRV-01	FW-007	WAN2	OER	HKN-WPO1-BLPH-SRV-01	FW-008	WAN2	OER	HKN-WPO11-C53	FW-007:WAN2 / FW-008:WAN2	FW-008:WAN2 / FW-007:WAN2	CAT6 UTP, WHITE	2	HA	REDUNDANCY
54	HKN-WPO1-BLPH-NET-01	PINSWL2-003	P8	OER	B400-NET-002	PINSWL2-004	P8	OER	HKN-WPO11-C54	PINSWL2-003:P8 / PINSWL2-004:P8	PINSWL2-004:P8 / PINSWL2-003:P8	CAT6 UTP, GREEN	5	PIN	REDUNDANCY
55	HKN-WPO1-BLPH-NET-01	PINSWL2-005	P18	OER	B400-NET-002	PINSWL2-006	P18	OER	HKN-WPO11-C55	PINSWL2-005:P18 /	PINSWL2-006:P18 /	CAT6 UTP,	5	PIN	REDUNDANCY
56	B400-SRV-001	TMSVR01	P1	ITER	-	GPS ANTENNA	X1	ITER	B400-SRV1-C56	TMSVR01:P1 / GPS ANTENNA :X1	GPS ANTENNA :X1 / TMSVR01:P1	Coaxial Cable	50	SNTP	GPS ANTENNA CONNECTION CABLE INSTALLED IN YARD
57	B400-NET-001	FLT-COM01	X1	OER	B400-NET-001	PINSWL2-003	P10	OER	B400-NET1-C57	PINSWL2-003:P10	FLT-COM01:X1	GREEN	5	PIN	AXIOLINE MODULE

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Tag Number	Category	Discipline	Eng Status	NativeDoc	Layout	Parent Tag	Main Function	Secondary Function	Area	From Tag	From Main Function	From Area	From Tag Section	To Tag	To Main Function	To Area	To Tag Section	Material ID	Material Desc.	Gland Standard	From Gland	From Entry	From Fitting	To Gland	To Entry	To Fitting	Routing	Routing Manual
C-GPSANT/B400-NET-001	Cable	IN	VFC	123A90-DDL-IN-LIS-40091						GPSANT	Antenna GPS	Lower Deck (B-400) Ext.		B400-NET-001	Network Cabinet / EMCS System	Lower Deck (B-400)		SMICV20-COAX	Armoured Coaxial Cable		Supplied_by_Vendor			n.a.				U-SEC-20C / U-SEC-20A / L-SEC-2 / L-SEC-1A / B-400-SEC-1A / B-400-SEC-1B / B-400-SEC-2D / B-400-SEC-2C / B-400-SEC-3B / I-MCT-402

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

ROSETTI MARINO	**INSPECTION REPORT**	**Report No**. IR-YOK-0594-02	SHEET 1 di 7
		Data *Date from 17/10/2024 to 22/10/2024*	Rev. *Rev. 0*
PROGETTO *Project* **Base Load Power Hub (BLPH)**	**CLIENTE** *Client* CROSSWIND	**COMMESSA** / *Job* ***123A90***	**COMMESSA FORNITORE** / *Job Vendor* YOKOGAWA
FORNITORE *Supplier: YOKOGAWA*	**No. Ordine** *P.O. No.* **1724000594**	**OGGETTO** *Object* **INTEGRATED CONTROL AND SAFETY SYSTEM (ICSS)**	

DESCRIZIONE DEL MATERIALE / *Material Description*

POS. *Item*	**QUANTITA'** *Quantity*	**DESCRIZIONE** *Description*	**Nr. TAG** *TAG No.*	**TIPO DI ISPEZIONE** / *Kind of Inspection*	**ESITO** / *Result*
10	1	CONTROL SYSTEM	B400-NET/SRV-001 HKN-WPO1-BLPH-NET/SRV-01	Visual Check & FAT	**Satisfactory with Punch list**

DOCUMENTI APPLICABILI / *Applicable Documents*

TITOLO DOCUMENTO / *Document Title*	**NUMERO DOCUMENTO** / *Document Number*	**REVISIONE** / *Revision*	**STATO DOCUMENTO** / *Document Status*
INSPECTION AND TEST PLAN	1724000594-QC-ITP-00002	01	AFC
HARDWARE FACTORY ACCEPTANCE TEST (FAT) PROCEDURE	1724000594-QC-PRO-00030	01	AFC
*	*	*	*

Remarks:
*all other dwg's applicable are listed in section D like attachements

DISTRIBUZIONE A: / *Distribution to:*

☒**GESTIONE FORNITURE** / *Supply Management Department*	☒**CAPO COMMESSA** / *Project Manager*
☒**PRODUZIONE** / *Production*	☒**FORNITORE** / *Supplier*
☒**PPLM** */ Project Procurement & Logistic Manager*	☒**P.Q.M.**
☒**MAGAZZINO** / *Warehouse*	☒**P.E.M.**

ATTIVITA' ESEGUITE / *Activities Carried Out*

A - INTRODUZIONE / *Preliminary Introduction*

The present report refers to the inspection visit carried out from 17/10/2024 to 22/10/2024 at PREI factory (sucontractor of YOKOGAWA), located in ALZATE BRIANZA, ITALY.
The following inspection activities were witnessed by Rosetti Marino and Crosswind as specified in the Notification of Inspection (Noi) and in accordance with ITP and Factory acceptance test procedure
Attendees the test:

Mauro Dossena (Rosetti Marino)
Fabio Sirigu (Rosetti Marino)
Luigi Pignatelli (Crosswind)
Alessandro Giorgetti (Yokogawa)
Alessandro Berra (Yokogawa)

L' INCARICATO / *The person in charge*	**IL RAPP. DEL CLIENTE** / *Client's Representative*	**IL FORNITORE** / *Supplier*
ROSETTI MARINO *Supply Management dept.*		

ROSETTI MARINO	**INSPECTION REPORT**	**Report No**. IR-YOK-0594-02	SHEET 2 di 7
		Data *Date from 17/10/2024 to 22/10/2024*	Rev. *Rev. 0*
PROGETTO *Project* **Base Load Power Hub (BLPH)**	**CLIENTE** *Client* CROSSWIND	**COMMESSA** / *Job* ***123A90***	**COMMESSA FORNITORE** / *Job Vendor* YOKOGAWA
FORNITORE *Supplier: YOKOGAWA*	**No. Ordine** *P.O. No.* **1724000594**	**OGGETTO** *Object* **INTEGRATED CONTROL AND SAFETY SYSTEM (ICSS)**	

Area of concern
None

B –SCOPO DELL'ISPEZIONE / *Scope of Inspection*

DESCRIZIONE DEI TEST PRESENZIATI / *Description of witnessed tests*	**ESITO** / *Result*
DAY 1 **B400-NET/SVR-001** - Visual & dimensional check - Electrical distribution functional check - Power supplies redundancy functional tests **DAY 2-4** **B400-NET/SVR-001 + HKN-WPO1-BLPH-NET/SRV-01** - Visual & dimensional check - Electrical distribution functional check - Power supplies redundancy functional tests - Network cables check	**Satisfactory with Punch List**

C –DETTAGLIO DEGLI STRUMENTI UTILIZZATI PER TEST E ISPEZIONE / *Details of Inspection and Test Instruments used*

NOME DELLO STRUMENTO *Equipment name*	**PRODUTTORE** *Manufacturer*	**MODELLO** *Model*	**PROSSIMA TARATURA** *Next calibration*
Multimeter	**FLUKE**	**87V (serial N. 96410192)**	**(1)**

Remarks

(1) Refer to calibration certificate N. 210866V10e24 issued by Aviatronik Trescal on 10th May 2024, here attached

D –ALLEGATI / *Attachments (***CERTIFICATI E TEST REPORT** */ Certificates and Test Reports)*

NUMERO DOCUMENTO / *Document Number*	**DESCRIZIONE** / *Description*	**TIPO** / *Type*	**NR. PAGINE** / *No. Pages*
1724000594-QC-PRO-00030	HW FACTORY ACCEPTANCE TEST (FAT) PROCEDURE	Signed copy	112
1724000594-IN-DA-00011	NETWORK AND SERVER CABINETS IN ITER ROOM GENERAL ARRANGEMENT DRAWINGS AND INTERNAL LAYOUT	Mark-up copy	42
1724000594-IN-DG-00022	NETWORK AND SERVER CABINETS IN ITER ROOM WIRING DIAGRAMS AND TERMINAL STRIPS	Mark-up copy	28
1724000594-IN-DA-00012	NETWORK AND SERVER CABINETS IN OER ROOM GENERAL ARRANGEMENT DRAWINGS AND INTERNAL LAYOUT	Mark-up copy	23

L' INCARICATO / *The person in charge*	**IL RAPP. DEL CLIENTE** / *Client's Representative*	**IL FORNITORE** / *Supplier*
ROSETTI MARINO *Supply Management dept.*	Luigi Liguori	

QUESTO DOCUMENTO NON SOLLEVA IL FORNITORE DALLA RESPONSABILITA' DI EVENTUALI DIFETTI E/O MALFUNZIONAMENTI RILEVATI DURANTE L'USO /
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ROSETTI MARINO	**INSPECTION REPORT**	**Report No.** IR-YOK-0594-02	SHEET 3 di 7
		Data *Date from 17/10/2024 to 22/10/2024*	Rev. *Rev. 0*
PROGETTO *Project* **Base Load Power Hub (BLPH)**	**CLIENTE** *Client* CROSSWIND	**COMMESSA** / *Job* ***123A90***	**COMMESSA FORNITORE** / *Job Vendor* YOKOGAWA
FORNITORE *Supplier: YOKOGAWA*	**No. Ordine** *P.O. No.* **1724000594**	**OGGETTO** *Object* **INTEGRATED CONTROL AND SAFETY SYSTEM (ICSS)**	

1724000594-IN-DG-00023	NETWORK AND SERVER CABINETS IN OER ROOM WIRING DIAGRAMS AND TERMINAL STRIPS	Mark-up copy	19
1724000594-IN-DG-00016	NETWORK CONNCTION DIAGRAM	Mark-up copy	8
1724000594-IN-LIS-00007	SYSTEMS CABLES LIST	Mark-up copy	14
-	Bill of Material	Mark-up copy	3
-	PUNCH LIST	Signed copy	2
-	B400-NET/SRV-001 Check Sheet and Punch Records	Signed copy	15
-	HKN-WPO1-BLPH-NET/SRV-01 Check Sheet and Punch Records	Signed copy	13

E – DETTAGLI ED ESITO DELL'ISPEZIONE / *Details and Results of Inspection*

All details have been highlighted in the test reports

F – CONCLUSIONI / *Conclusions*

FAT of above listed cabinets has been completed successfully with Punch Lists.
During FAT has been created a Master Copy of documents with all red marked up in order to create a pictures for construction and commission team.
The above cabinets will be delivered during week 43.

G – PUNTI IRRISOLTI / *Outstanding points*

See attached Punch List

H – STATO PACKING LIST / *Packing List Status*	☒ **EMESSO** / *Issued*	☐ **NON EMESSO** / *Not Issued*	DD/MM/YYYY **ULTIMA DATA UTILE** / *Last Date*

L' INCARICATO / *The person in charge*	**IL RAPP. DEL CLIENTE** / *Client's Representative*	**IL FORNITORE** / *Supplier*
ROSETTI MARINO *Supply Management dept.*		

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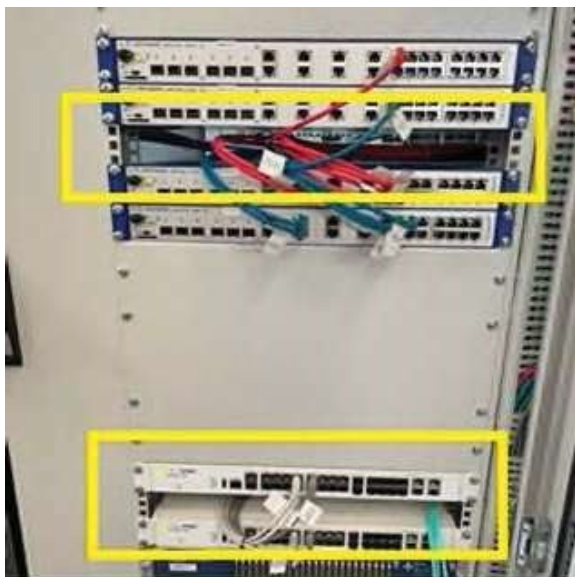
ROSETTI MARINO	**INSPECTION REPORT**	**Report No.** IR-YOK-0594-02	SHEET 4 di 7
		Data *Date from 17/10/2024 to 22/10/2024*	Rev. *Rev. 0*
PROGETTO *Project* **Base Load Power Hub (BLPH)**	**CLIENTE** *Client* CROSSWIND	**COMMESSA /** *Job* ***123A90***	**COMMESSA FORNITORE /** *Job Vendor* YOKOGAWA
FORNITORE *Supplier: YOKOGAWA*	**No. Ordine** *P.O. No.* **1724000594**	**OGGETTO** *Object* **INTEGRATED CONTROL AND SAFETY SYSTEM (ICSS)**	

PUNCH LIST REPORT: VEDI ALLEGATO N° / *Refer to Attachment n° NOT APPLICABLE*

REPORT FOTOGRAFICO (SE PRESENTE) / *Digital Pictures (if any)*



Punch N001



Punch N006



Punch N008

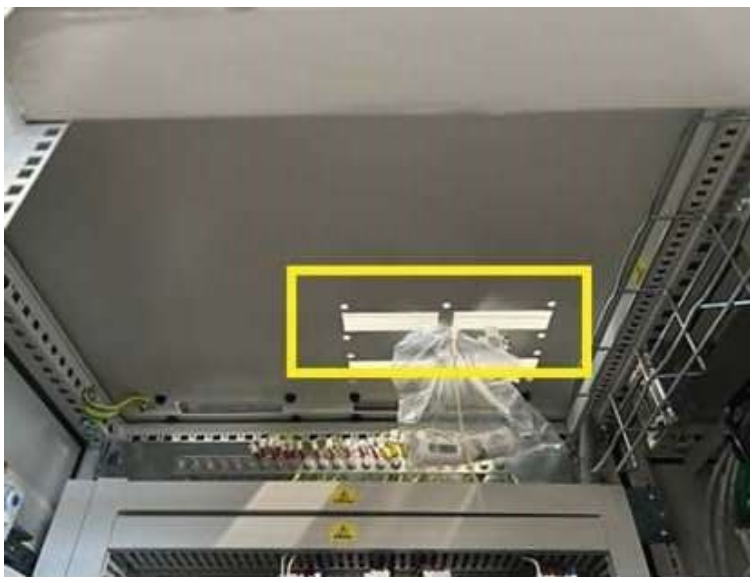


Punch N010

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ROSETTI MARINO	**INSPECTION REPORT**	**Report No.** IR-YOK-0594-02	SHEET 5 di 7
		Data *Date from 17/10/2024 to 22/10/2024*	Rev. *Rev. 0*
PROGETTO *Project* **Base Load Power Hub (BLPH)**	**CLIENTE** *Client* CROSSWIND	**COMMESSA** / *Job* ***123A90***	**COMMESSA FORNITORE** / *Job Vendor* YOKOGAWA
FORNITORE *Supplier: YOKOGAWA*	**No. Ordine** *P.O. No.* **1724000594**	**OGGETTO** *Object* **INTEGRATED CONTROL AND SAFETY SYSTEM (ICSS)**	



Punch N011

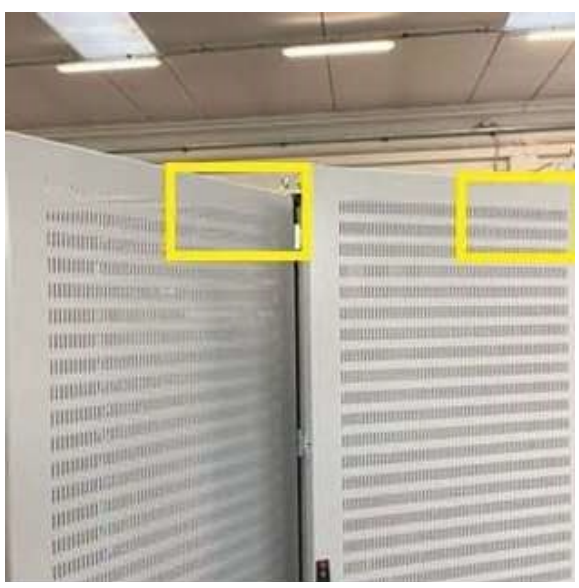


Punch N012





Punch N105



Punch N106

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ROSETTI MARINO	**INSPECTION REPORT**	**Report No**. IR-YOK-0594-02	SHEET 6 di 7
		Data *Date from 17/10/2024 to 22/10/2024*	Rev. *Rev. 0*
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FORNITORE *Supplier:* *YOKOGAWA*	**No. Ordine** *P.O. No.* **1724000594**	**OGGETTO** *Object* **INTEGRATED CONTROL AND SAFETY SYSTEM (ICSS)**	



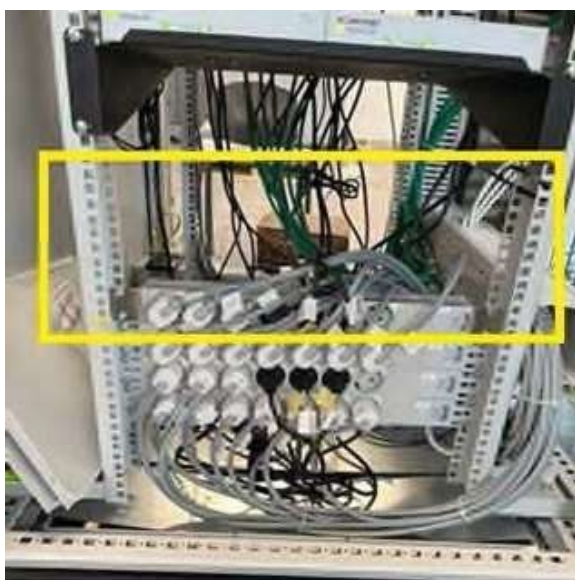
Punch N107



Punch N108



Punch N109

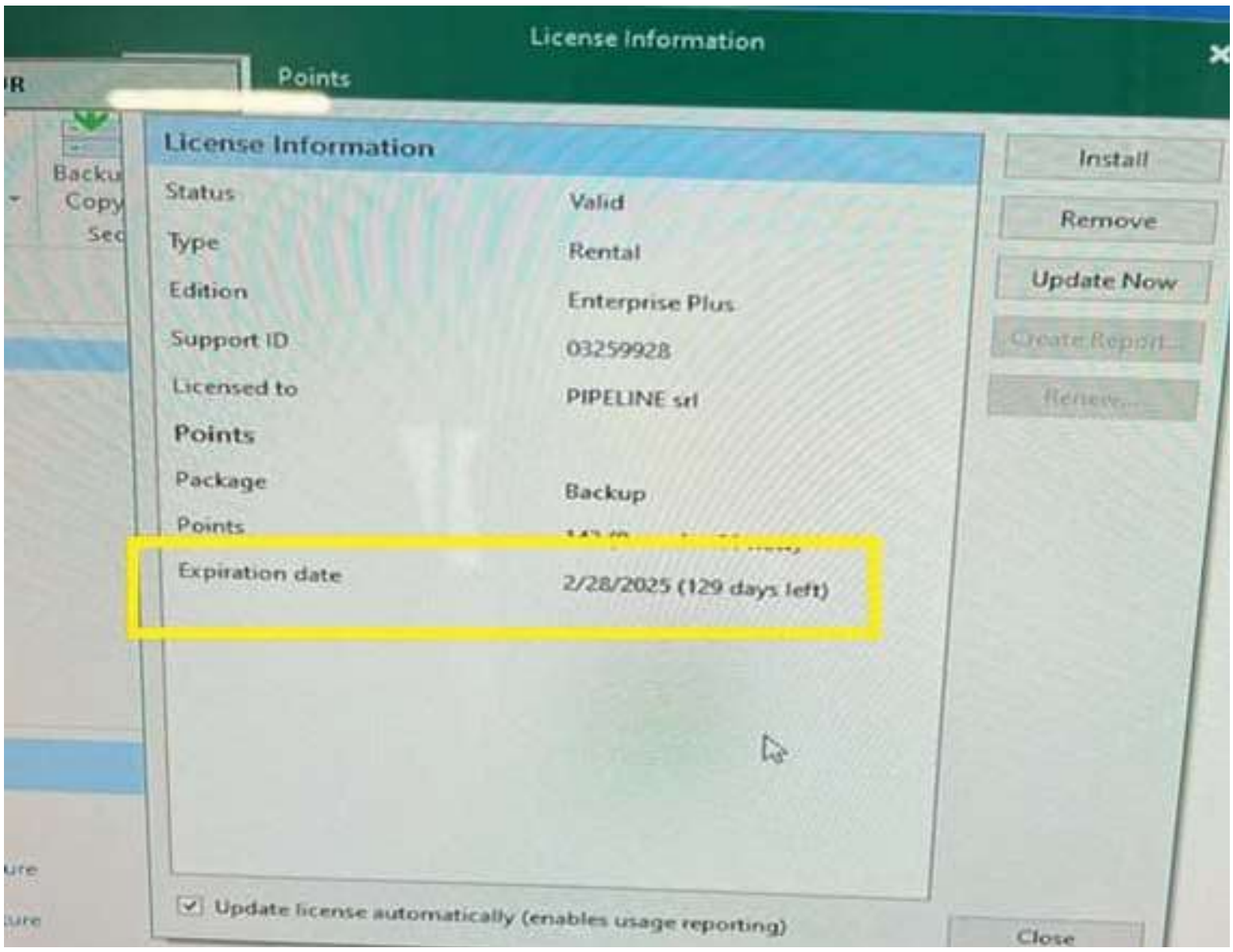


Punch N110

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ROSETTI MARINO	**INSPECTION REPORT**	**Report No**. IR-YOK-0594-02	SHEET 7 di 7
		Data *Date from 17/10/2024 to 22/10/2024*	Rev. *Rev. 0*
PROGETTO *Project* **Base Load Power Hub (BLPH)**	**CLIENTE** *Client* CROSSWIND	**COMMESSA** / *Job* ***123A90***	**COMMESSA FORNITORE** / *Job Vendor* YOKOGAWA
FORNITORE *Supplier:* *YOKOGAWA*	**No. Ordine** *P.O. No.* **1724000594**	**OGGETTO** *Object* **INTEGRATED CONTROL AND SAFETY SYSTEM (ICSS)**	



Punch N111

NON VALIDO PER IL RILASCIO DELLA FORNITURA / *It is not valid for the supply's release*

L' INCARICATO / *The person in charge*	**IL RAPP. DEL CLIENTE** / *Client's Representative*	**IL FORNITORE** / *Supplier*
ROSETTI MARINO *Supply Management dept.*		

QUESTO DOCUMENTO NON SOLLEVA IL FORNITORE DALLA RESPONSABILITA' DI EVENTUALI DIFETTI E/O MALFUNZIONAMENTI RILEVATI DURANTE L'USO /
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Section 13 MECHANICAL COMPLETION CHANGES / MARK-UPS

NOT APPLICABLE