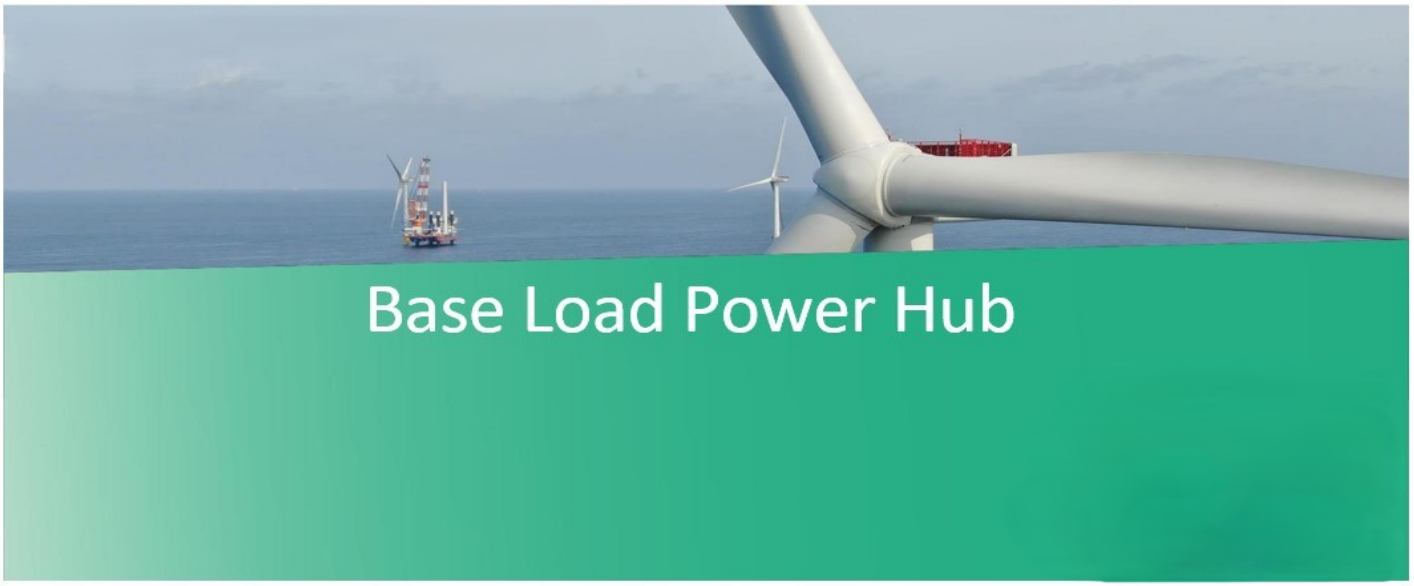
CROSSWIND

ROSETTI MARINO

PROVERLIS

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



COMMISSIONING DOSSIER (ONSHORE)

SYSTEM

87

Instrumentation Systems incl. general control room equipment

SUBSYSTEM

87-10

Process Control System (PCS)

CROSSWIND

123A90 - HOLLANDSE KUST NOORD WIND PARK
BLPH Project

COMMISSIONING DOSSIER INDEX

ROSETTI MARINO

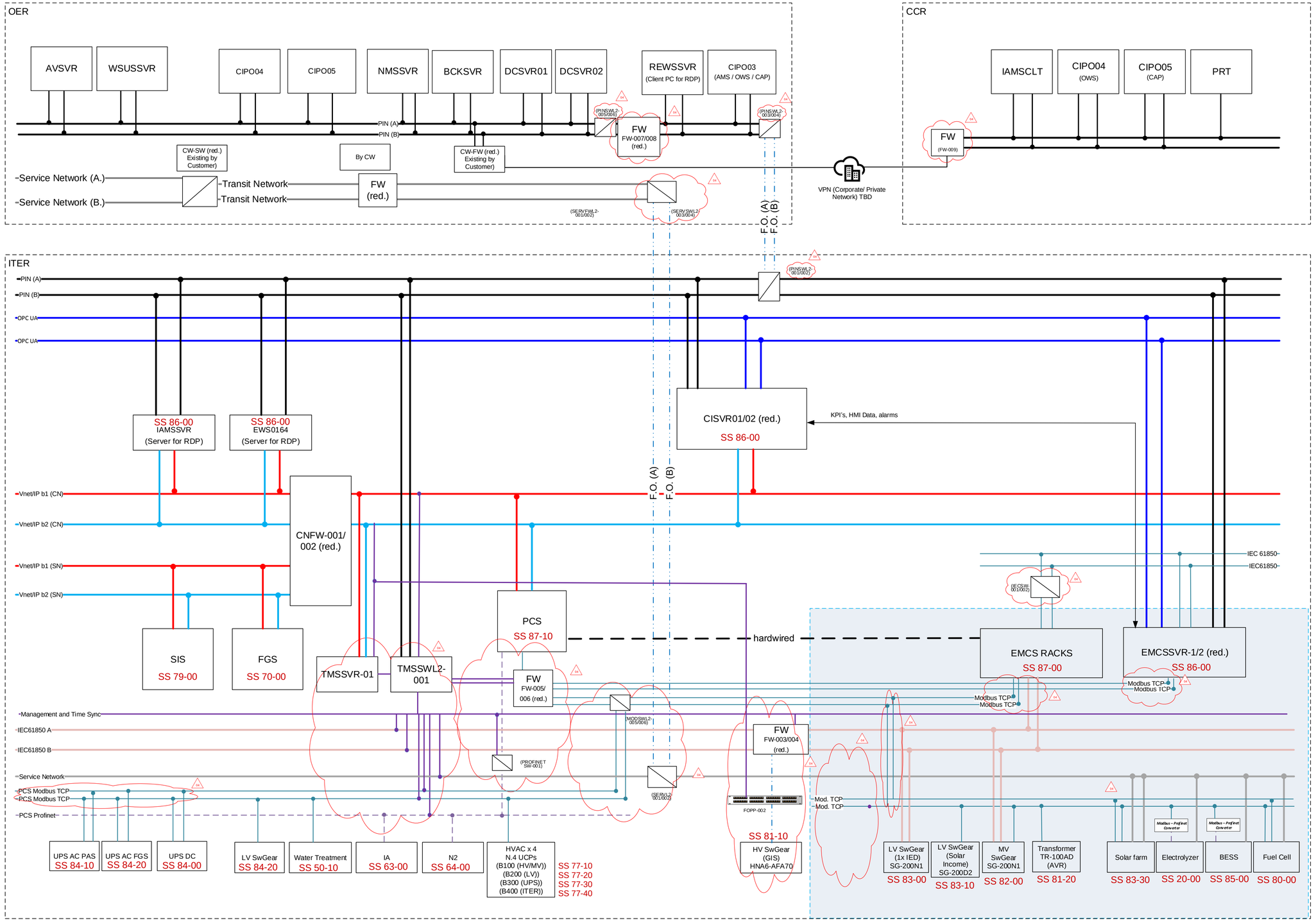
Sub System N°:	87-10	**Tick as appropriate**	ONSHORE	OK
Description:	Process Control System (PCS)		OFFSHORE	

1. *SUB-SYSTEM DEFINITION*	OK
1.1 Sub-System Description / Boundary Limit Drawings	
2. *READY FOR OPERATION CERTIFICATE*	OK
2.1 Achievement Of Ready for Operation Certificate (RFO)	
2.2 Exception Punch Lists (per discipline)	
2.3 “As-Commissioned” P&ID’s / SLD’s / D&ID’s / C&E’s	
3. *CONSOLIDATED PUNCH LISTS*	OK
3.1 Cleared and Residual Items (sorted by discipline)	
4. *FUNCTIONAL TESTS SHEETS*	OK
4.1 Electrical functional test sheets index	
4.2 Electrical “As-Commissioned” interconnection diagrams	
4.3 Instrumentation Functional Test Sheets Index	
4.4 Instrumentation “As-Commissioned” interconnection diagrams	
4.5 Telecommunication Functional Test Sheets Index	
4.6 Telecommunication “As-Commissioned” I.C.D. / TSLD’s	
5. *SITE / OPERATIONAL:*	NA
5.1 Operational Test Procedure	
5.2 Operational Test Certificates	
6. *PIPING AND VESSEL PREPARATION*	NA
6.1 Final Mechanical / Vessel Inspection Checks Index	
6.2 Leak Test / Drying / Inerting Test Sheets Index	
6.3 Chemical Loading & First Fill records Index	
6.4 Chemical Cleaning Reports and Records Index	
6.5 Lubrication Schedule	
7. *VENDORS*	OK
7.1 Vendor Package Summary Index	
7.2 SAT Procedure with associated punch list and reference (Front Page)	
7.3 Vendor Spares & Special Tools lists references	
7.4 Vendor Data / Operations / Maintenance Manuals References	
8. *LIST OF MODIFICATIONS*	NA
8.1 List of changes initiated during the WORKSITE Commissioning phase pertaining to the relevant Sub-System will be incorporated in this section with relevant references (with location and position of blinds/spades, isolation LO & LC valves, list of electrical isolation status, and remaining inhibits and overrides)	
9. *SUPPORTING DOCUMENTS*	NA
9.1 Other supporting documents (as applicable)	

	Contractor Commissioning Site Leader	Company Commissioning Site Leader
Name	Anthony Iveson	Gerry McCann
Date	2025-05-14	2025-05-15
Signature	PROVERLIS Digitaly signed by Anthony Iveson 2025-05-14T11:20:27.719Z	PROVERLIS Digitaly signed by Gerry McCann 2025-05-15T13:41:11.393Z

Section 1 SUB-SYSTEM DEFINITION

CROSSWIND BLPH PROJECT - SYSTEM BLOCK DIAGRAM



AMS	: Alarm Management System	FCS	: Field Control Station
AV	: Anti-virus	FGS	: Fire & Gas System
BCK	: Backup Server	FO	: Fiber Optic
BESS	: Battery Energy Storage System	FOPP	: Fiber Optic Patch Panel (by others)
BLPH	: Base Load Power Hub	FTA	: Field Termination Assembly
CAP	: Critical Alarm Panel	HIST	: Historian
CCR	: Central Control Room	HKN	: Hollandse Kust Noord
CI	: Collaborative Infomation	IAMS	: Instrument Asset Management System
CN	: Control Network	ITER	: Instrument & Telecom Equipment Room
DC	: Domain Controller	LHVS	: Land High Voltage Station
DMZ	: De-militarized Zone	MCC	: Motor Control Center
ESB	: IO communication bus	MODB	: Modbus
EWS	: Engineering Work Station	MQTT	: Message Queuing Telemetry Transport
FC	: Field Communication (Vnet/IP)	NMS	: Network Management System
OER	: Onshore Equipment Room		
OHVS	: Offshore High Voltage Station		
OWS	: Operator Work Station		
PIN	: Plant Information Network		
PKG	: Package		
RDP	: Remote Desktop Protocol		
SCS	: Safety Control Station		
SIS	: Safety Instrumented System		
SN	: Safety Network		
SW	: Switch		
UCP	: Unit Control Panel (3rd party systems)		
VM	: Virtual Machine		
Vnet/IP	: Yokogawa's Control network		
WSUS	: Windows Security Update Services		

LEGEND:

- PIN (Plant Information Network)
- Vnet/IP BUS 1 PCS
- Vnet/IP BUS 2 PCS
- Vnet/IP BUS 1 SIS/FGS
- Vnet/IP BUS 2 SIS/FGS
- ESB bus connection
- IEC61850 connection
- OPC UA connection
- Service Network connection
- Modbus TCP connection
- Profinet (non redundant)
- Fiber Optic Patch Cords
- Fiber Optic connection (core by Crosswind)
- Fiber Optic backbone (by Crosswind)
- System Cable connection
- Management and Time sync.

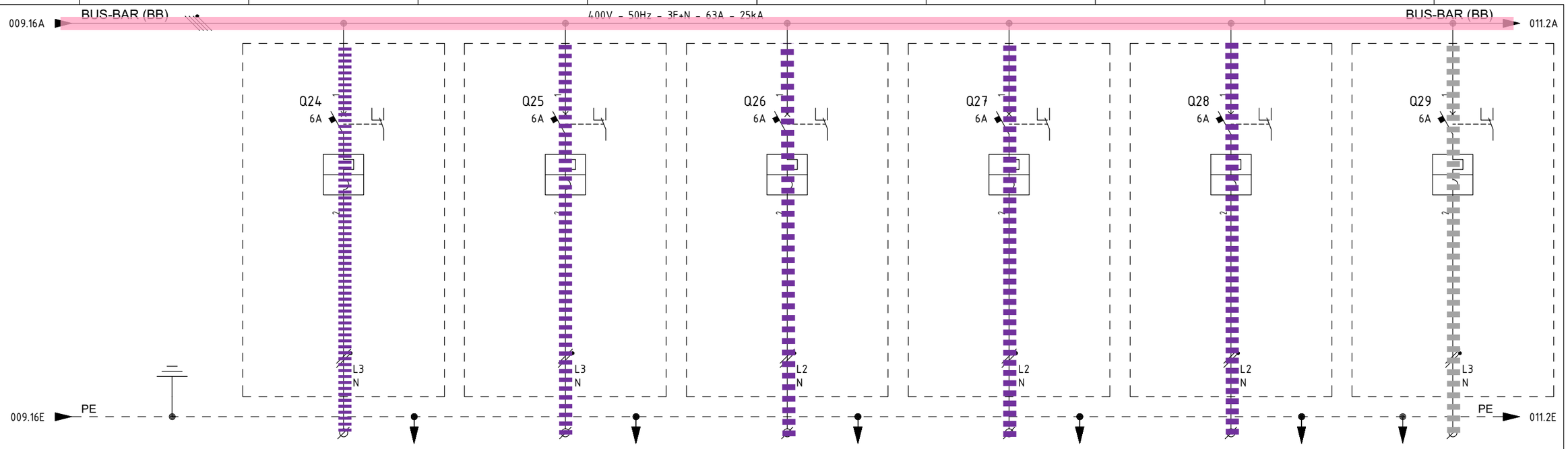
Note 1 : Exact assignment of Servers per cabinet to be defined in cabinet General Arrangement Drawing.
Note 2 : For IP Addresses refer to 1724000594-IN-RE-00043 Cyber Security Settings
Note 3 : All Network Components will be installed in Network Cabinet.
Note 4 : Supply of Console Desk in CCR is in Customer Scope.
Note 5 : All Network Switches and Firewall is configured in VLAN.
Note 6 : Intermediate FO Connection between HNA5 and OER Intentionally not shown.

Zone-1	: PCS Control Zone	Zone-2	: Safety Control Zone
Zone-3	: PCS Zone	Zone-4	: Application Server Facility Zone
Zone-5	: Security Management Zone-1	Zone-6	: Security Management Zone-2
Zone-7	: Demilitirized Zone	Zone-8	: Croswind Zone
Zone-9	: Service Network Zone	Zone-10	: Application Server Facility Zone-OD
Zone-11	: Third Party System Zone		: Out of Scope

REV	DWG BY	CHK BY	APP BY	DATE
04	SKR	MP/AB	SC	12-Feb-25
03	SKR	MP/AB	SC	26-Aug-24
02	SKR	MP/AB	SC	28-Jun-24
01	SKR	MP/AB	SC	24-May-24
00	SKR	AB	SC	23-Apr-24

Doc No : 1724000594-IN-DD-00015
Doc Name : System Architecture

ROSETTI MARINO
HOLLANDSE KUST NOORD WIND PART Project
CROSSWIND
YOKOGAWA



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	-	-	-	-	-	-
		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

SUBSYSTEM 87-10 | SUBSYSTEM 87-00 | SUBSYSTEM 70-00 | SUBSYSTEM 86-00 | SUBSYSTEM 86-00 | SUBSYSTEM 63-00

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+

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

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)

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

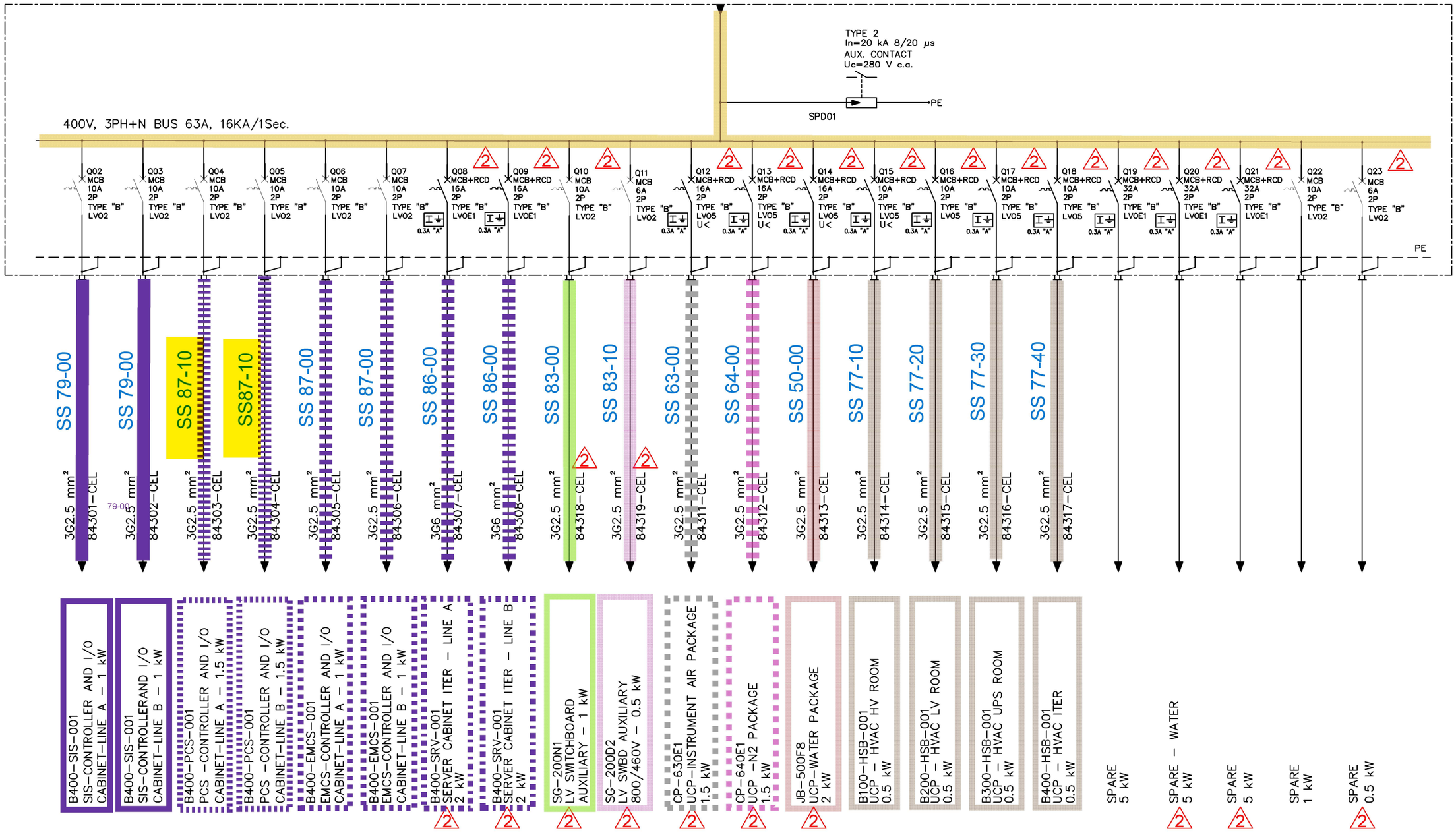
REV. 03

F.to UNI A3: 420mmx297mm

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

AC UPS – 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 2 READY FOR OPERATION

Section 2.1 Achievement Of Ready for Operation Certificate (RFO)

ROSETTI MARINO

123A90 - HOLLANDSE KUST NOORD WIND PARK
BLPH Project

CROSSWIND

Ready For Operation (RFO) Certificate

COMPLETE	●	PARTIAL	

Revision:	1		Issued on:	2025-03-29	

System:	87	/	Instrumentation Systems incl. general control room equipment

SubSystem:	87-10	/	Process Control System (PCS)

We hereby confirm that all Mechanical Completion (MC) and Pre-Commissioning/Commissioning (Pre-Comm./Comm.) activities for the above-mentioned System/Sub-System have been successfully completed in accordance with project specifications, relevant standards and contractual requirements. The System/Sub-System has been tested and verified to ensure readiness for operation. Issuance of this Certificate shall not release CONTRACTOR from any of his obligations, responsibilities or liabilities under the CONTRACT.

- **Mechanical Completion:** All required MC activities have been completed and approved
- **Pre-Commissioning & Commissioning:** All required Pre-Comm. and Comm. activities and OTPs have been completed and approved (Status Index attached)
- **Punch List:** All Punch items categorized as A and B have been cleared (PL report attached)
- **Documentation:** As-built documentation and Commissioning dossier has been completed, reviewed and approved

PUNCH LIST	PENDING POINTS
Note: All Category "A" and "B" Items must be cleared prior to issuance of the Ready For Operation (RFO) Certificate	B: 4

REMARKS:

	CONTRACTOR Commissioning Manager	COMPANY Commissioning Lead
Name	Anthony Iveson	Gerry McCann
Date	2025-04-05	2025-05-13
Signature	PROVERLIS Digitaly signed by Anthony Iveson 2025-04-05T06:56:44.266Z	PROVERLIS Digitaly signed by Gerry McCann 2025-05-13T14:10:23.413Z

CROSSWIND

ROSETTI MARINO

Project CROSSWIND

STATUS INDEX DETAIL

Filtered on subsystem: 87-10 & process: COMM

Electrical	87-10 Process Control System (PCS)						
ITEM		TASK					
Code	Description	Location	Code	Form	Progress	Date	Certificate
DP-200N1-Q24	POWER SUPPLY PCS AUX - DP-200N1-Q24	ONSHORE	C10002840	FTR-2	100	2024-10-28	RFO 1
UP-200F3-QF45	ALIMENTAZIONE PCS - LINE A	ONSHORE	C10004582	FTR-2	100	2024-11-08	RFO 1
UP-200F3-QF46	ALIMENTAZIONE PCS - LINE B	ONSHORE	C10004583	FTR-2	100	2024-11-08	RFO 1

CROSSWIND

ROSETTI MARINO

Project CROSSWIND

PUNCH LIST REPORT

SYSTEM	87	Instrumentation Systems incl. general control room equipment
SUBSYSTEM	87-10	Process Control System (PCS)

Electrical

CODE	CAT	ITEM	DEFECT DESCRIPTION	CORRECTIVE ACTION	PERFORMED ACTION	ISSUED	CARRIED	CHECKED	APPROVED
C30000331	A	84303-CEL C10000581	Armour of the cable is not connected to BTM.	.		Gtangianu 2024-11-08	2024-11-27	Ecarotenuto 2024-11-27	2024-11-27
C30000407	A	83105-CEL C10000624	multiple earthing cables connected to one earthing connection. (See attached photo) .	.		Ecarotenuto 2024-11-09	2024-11-27	Ecarotenuto 2024-11-27	2024-11-27
C30000332	B	84303-CEL C10000581	Plastic cable ties to be replaced on external routing. Cable needs to be fixed also on B-400 cable trays.	.		Gtangianu 2024-11-08	2025-02-26	Pschintu 2025-02-26	2025-02-26
C30000335	B	84304-CEL C10000582	Plastic cable ties to be replaced on external routing. Cable needs to be fixed also on B-400 cable trays.	.		Gtangianu 2024-11-08	2025-02-26	Pschintu 2025-02-26	2025-02-26
C30000406	B	83105-CEL C10000624	Missing cable tag inside the panel DP-200N1 and on MCT (both side)	.		Ecarotenuto 2024-11-09	2025-02-26	Pschintu 2025-02-26	2025-02-26
C30000411	B	83105-CEL C10000624	Plastic cable ties to be replaced on external routing	.		Ecarotenuto 2024-11-09	2025-02-26	Pschintu 2025-02-26	2025-02-26

CROSSWIND

ROSETTI MARINO

Project CROSSWIND

PUNCH LIST REPORT

SYSTEM 87 Instrumentation Systems incl. general control room equipment

SUBSYSTEM 87-10 Process Control System (PCS)

Instrumental

CODE	CAT	ITEM	DEFECT DESCRIPTION	CORRECTIVE ACTION	PERFORMED ACTION	ISSUED	CARRIED	CHECKED	APPROVED
C30000216	B	B400-PCS-001	Replace disconnector switches Q18 and Q18 with the right rating 32A, with NO auxiliary contact		INSTALLED	SLinari 2024-10-14	SLinari 2024-12-10	SLinari 2024-12-10	2024-12-10
C30000217	B	B400-PCS-002	Replace disconnector switches Q18 and Q18 with the right rating 32A, with NO auxiliary contact		INSTALLED	SLinari 2024-10-14	SLinari 2024-12-10	SLinari 2024-12-10	2024-12-10
C30000218	B	B400-PCS-001	Install and connect system cables (N. 12 type KS1-07/HF, N. 10 AKB331-M007/HF)		INSTALLED	SLinari 2024-10-14	SLinari 2024-12-10	SLinari 2024-12-10	2024-12-10
C30000219	B	B400-PCS-002	Install and connect system cables (N. 12 type KS1-07/HF, N. 10 AKB331-M007/HF)		INSTALLED	SLinari 2024-10-14	SLinari 2024-12-10	SLinari 2024-12-10	2024-12-10
C30000369	B	B400-PCS-001	Replace disconnector switches Q18 and Q19 with the right rating 32A, with NO auxiliary contact			SLinari 2024-10-14	2024-12-07	LNovaga 2024-12-07	2024-12-07
C30000370	B	B400-PCS-002	Replace disconnector switches Q18 and Q19 with the right rating 32A, with NO auxiliary contact			SLinari 2024-10-14	2024-12-07	LNovaga 2024-12-07	2024-12-07
C30000371	B	B400-PCS-001	Install and connect system cables (N. 12 type KS1-07/HF, N. 10 AKB331-M007/HF)			SLinari 2024-10-14	2024-12-07	LNovaga 2024-12-07	2024-12-07
C30000372	B	B400-PCS-002	Install and connect system cables (N. 12 type KS1-07/HF, N. 10 AKB331-M007/HF)			SLinari 2024-10-14	2024-12-07	LNovaga 2024-12-07	2024-12-07
C30000648	B	B400-PCS-001 C10000842	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 87 Instrumentation Systems incl. general control room equipment

SUBSYSTEM 87-10 Process Control System (PCS)

Instrumental

CODE	CAT	ITEM	DEFECT DESCRIPTION	CORRECTIVE ACTION	PERFORMED ACTION	ISSUED	CARRIED	CHECKED	APPROVED
C30000653	B	B400-PCS-001 C10000842	Internal base plate will be installed after commissioning.	.		Gtangianu 2024-11-20			
C30000658	B	B400-PCS-001 C10000842	The front doors need to be installed.	.-		Gtangianu 2024-11-20	2024-12-23	Ecarotenuto 2024-12-23	2024-12-23
C30000773	B	B400-PCS-002 C10000843	Internal base plate will be installed after commissioning.	.		Gtangianu 2024-11-22			
C30000774	B	B400-PCS-002 C10000843	The front doors need to be installed.	.		Gtangianu 2024-11-22	2024-12-27	Ecarotenuto 2024-12-27	2024-12-27
C30000775	B	B400-PCS-002 C10000843	All documentation listed in the SMIR, shall be re-issued in final revision and approved by RM and CW	.		Gtangianu 2024-11-22			

Section 2.2 Exception Punch Lists (per discipline)

CROSSWIND

ROSETTI MARINO

Project CROSSWIND

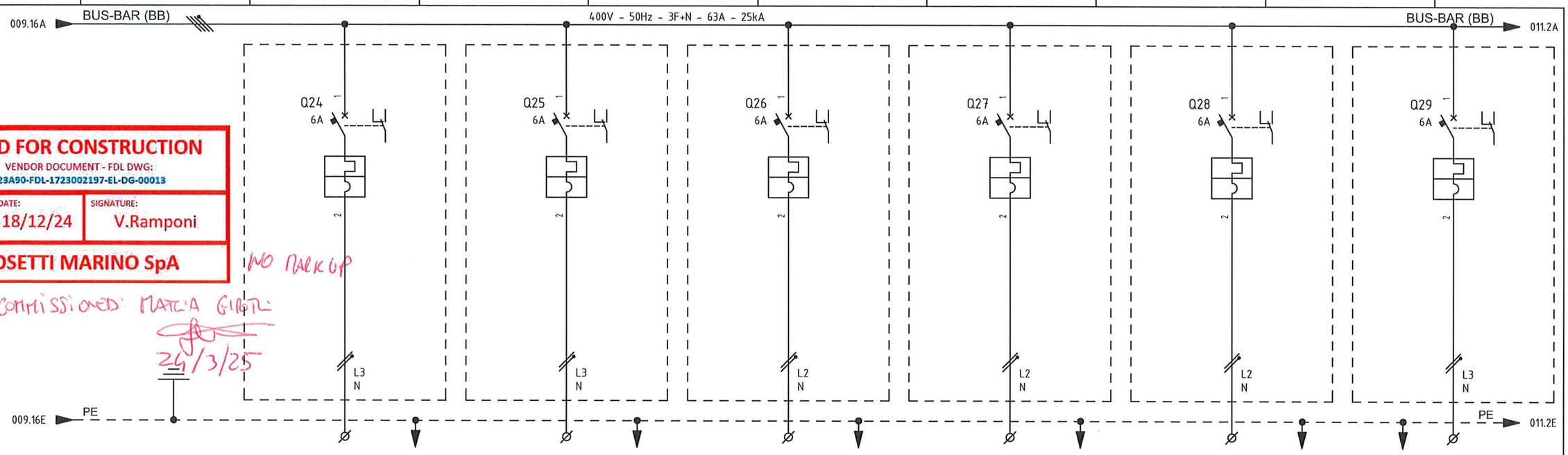
PUNCH LIST REPORT

SYSTEM	87	Instrumentation Systems incl. general control room equipment
SUBSYSTEM	87-10	Process Control System (PCS)

Instrumental

CODE	CAT	ITEM	DEFECT DESCRIPTION	CORRECTIVE ACTION	PERFORMED ACTION	ISSUED	CARRIED	CHECKED	APPROVED
C30000648	B	B400-PCS-001 C10000842	All documentation listed in the SMIR, shall be re-issued in final revision and approved by RM and CW	.		Gtangianu 2024-11-20			
C30000775	B	B400-PCS-002 C10000843	All documentation listed in the SMIR, shall be re-issued in final revision and approved by RM and CW	.		Gtangianu 2024-11-22			

Section 2.3 “As-Commissioned” P&ID's / SLD's / D&ID's / C&E's



VALID FOR CONSTRUCTION

VENDOR DOCUMENT - FDL DWG:
123A90-FDL-1723002197-EL-DG-00013

REV.:	DATE:	SIGNATURE:
4_A	18/12/24	V.Ramponi

ROSETTI MARINO SpA

NO MARK UP

AS COMMISSIONED: MATCA GIGTL:
26/3/25

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	-		-		-		-		-		-	
		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	

=
+

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

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
4	18/09/2024	Santinelli	Flamminio	Sigismondi	As Built (ASB)
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)

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

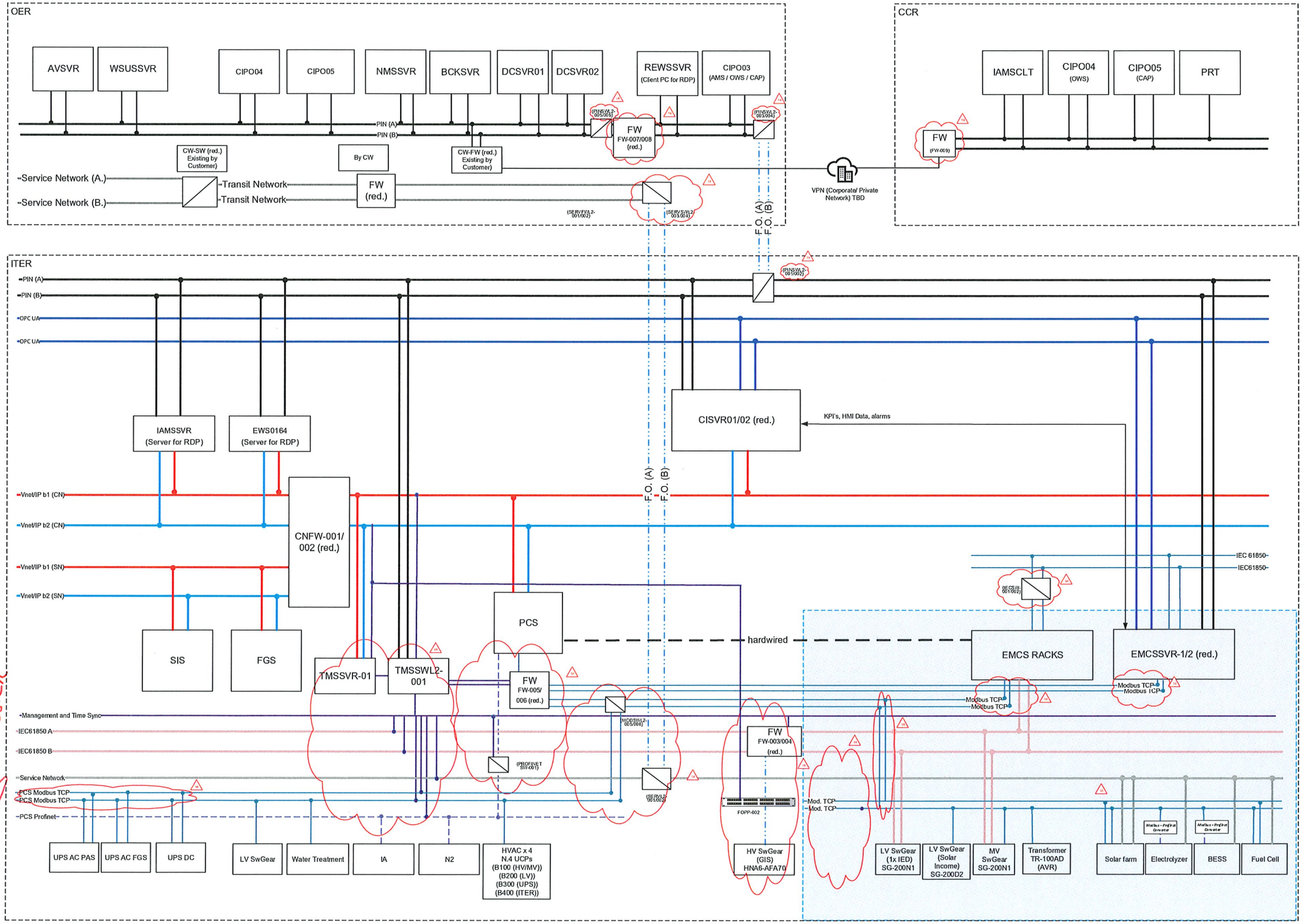
SHEET 010

REV. 04

File Name : 1723002197-EL-DG-00013 Rev. 04

F.to UNI A3: 420mmx297mm

CROSSWIND BLPH PROJECT - SYSTEM BLOCK DIAGRAM



As commissioning
08-05-2026
Giandonato De Mistri

AMS	: Alarm Management System	FCS	: Field Control Station
AV	: Anti-virus	FGS	: Fire & Gas System
BCK	: Backup Server	FO	: Fiber Optic
BESS	: Battery Energy Storage System	FOPP	: Fiber Optic Patch Panel (by others)
BLPH	: Base Load Power Hub	FTA	: Field Termination Assembly
CAP	: Critical Alarm Panel	HIST	: Historian
CCR	: Central Control Room	HKN	: Hollandse Kust Noord
CI	: Collaborative Information	IAMS	: Instrument Asset Management System
CN	: Control Network	ITER	: Instrument & Telecom Equipment Room
DC	: Domain Controller	LHVS	: Land High Voltage Station
DMZ	: De-militarized Zone	MCC	: Motor Control Center
ESB	: IO communication bus	MODB	: Modbus
EWS	: Engineering Work Station	MQTT	: Message Queuing Telemetry Transport
FC	: Field Communication (Vnet/IP)	NMS	: Network Management System
OER	: Onshore Equipment Room		
OHVS	: Offshore High Voltage Station		
OWS	: Operator Work Station		
PIN	: Plant Information Network		
PKG	: Package		
RDP	: Remote Desktop Protocol		
SCS	: Safety Control Station		
SIS	: Safety Instrumented System		
SN	: Safety Network		
SW	: Switch		
UCP	: Unit Control Panel (3rd party systems)		
VM	: Virtual Machine		
Vnet/IP	: Yokogawa's Control network		
WSUS	: Windows Security Update Services		

LEGEND:
- PIN (Plant Information Network)
- Vnet/IP BUS 1 PCS
- Vnet/IP BUS 2 PCS
- Vnet/IP BUS 1 SIS/FGS
- Vnet/IP BUS 2 SIS/FGS
- ESB bus connection
- IEC61850 connection
- OPC UA connection
- Service Network connection
- Modbus TCP connection
- Profinet (non redundant)
- Fiber Optic Patch Cords
- Fiber Optic connection (core by Crosswind)
- Fiber Optic backbone (by Crosswind)
- System Cable connection
- Management and Time sync.

Note 1 : Exact assignment of Servers per cabinet to be defined in cabinet General Arrangement Drawing.
Note 2 : For IP Addresses refer to 1724000594-IN-RE-00043 Cyber Security Settings
Note 3 : All Network Components will be installed in Network Cabinet.
Note 4 : Supply of Console Desk in CCR is in Customer Scope.
Note 5 : All Network Switches and Firewall is configured in VLAN.
Note 6 : Intermediate FO Connection between HNA5 and OER intentionally not shown.

Zone-1 : PCS Control Zone
Zone-2 : Safety Control Zone
Zone-3 : PCS Zone
Zone-4 : Application Server Facility Zone
Zone-5 : Security Management Zone-1
Zone-6 : Security Management Zone-2
Zone-7 : Demilitirized Zone
Zone-8 : Croswind Zone
Zone-9 : Service Network Zone
Zone-10: Application Server Facility Zone-OD
Zone-11: Third Party System Zone
Zone-12 : Out of Scope

REV	DWG BY	CHK BY	APP BY	DATE
04	SKR	MP/AB	SC	12-Feb-25
03	SKR	MP/AB	SC	26-Aug-24
02	SKR	MP/AB	SC	28-Jun-24
01	SKR	MP/AB	SC	24-May-24
00	SKR	AB	SC	23-Apr-24

Doc No : 1724000594-IN-DD-00015
Doc Name : System Architecture

ROSETTI MARINO | HOLLANDSE KUST NOORD WIND PART Project | CROSSWIND | YOKOGAWA

CAE EPLAN Electric P8

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AUXILIARY
From Lighting & Small Power DB BOP DP 200N1
(Cubicle 33 Q41)
100-240V/N/PE~50/60Hz

LINE A
From LV Switchgear SG 200N1
(Cubicle A3/31)
Mains
400V;3/PE~50Hz

From LV Switchgear SG 200N1
(Cubicle A7/32)
Bypass mains
400V;3/PE~50Hz

LINE B
From LV Switchgear SG 200N1
(Cubicle A4/31)
Mains 400V;3/PE~50Hz

Not included in the AEG shipment

Code	Description
Q1	Rectifier input mains breaker
T40	Rectifier input isolation transformer
A1	Rectifier
A2	Inverter
T1	Inverter output isolation transformer
A3-A4	Static by-pass switch
A18	Display control module
A85	Heater
H1	Light

VALID FOR CONSTRUCTION
VENDOR DOCUMENT - FDL DWG:
123A90-FDL-1724000372-EL-DG-00009

REV.:	DATE:	SIGNATURE:
3_A	15/11/24	G.Randi

ROSETTI MARINO SpA

AS-COMMISSIONED
DAVIDE ZUCCONELLI
NO MARK UP
21/03/2025

*1 Attention! In the event of battery undervoltage < 130 V, the UPS automatically switches off battery isolator Q2.
If this happens, switch X15:3 must be switched into the open position (undervoltage trip blocked).
For restart, please refer to the chapter in the UPS operating instructions (charging the DC link capacitors) attached.
Unlock the tripped switch Q2 by switching to open position.
After charging the DC link capacitors, switch on Q2.
Attention! When the battery voltage reaches > 200 V, switch X15:3 must be switched back to the closed position.

*2 Connection cables are not included.

ROSETTI MARINO
Motorship Kasi Nasri (HCN) wind farm

AEG

System 40 kVA

Single line diagram

1000007888_010 en

A0

Section 3 CONSOLIDATED PUNCH LISTS

CROSSWIND

ROSETTI MARINO

Project CROSSWIND

PUNCH LIST REPORT

SYSTEM	87	Instrumentation Systems incl. general control room equipment
SUBSYSTEM	87-10	Process Control System (PCS)

Electrical

CODE	CAT	ITEM	DEFECT DESCRIPTION	CORRECTIVE ACTION	PERFORMED ACTION	ISSUED	CARRIED	CHECKED	APPROVED
C30000331	A	84303-CEL C10000581	Armour of the cable is not connected to BTM.	.		Gtangianu 2024-11-08	2024-11-27	Ecarotenuto 2024-11-27	2024-11-27
C30000407	A	83105-CEL C10000624	multiple earthing cables connected to one earthing connection. (See attached photo) .	.		Ecarotenuto 2024-11-09	2024-11-27	Ecarotenuto 2024-11-27	2024-11-27
C30000332	B	84303-CEL C10000581	Plastic cable ties to be replaced on external routing. Cable needs to be fixed also on B-400 cable trays.	.		Gtangianu 2024-11-08	2025-02-26	Pschintu 2025-02-26	2025-02-26
C30000335	B	84304-CEL C10000582	Plastic cable ties to be replaced on external routing. Cable needs to be fixed also on B-400 cable trays.	.		Gtangianu 2024-11-08	2025-02-26	Pschintu 2025-02-26	2025-02-26
C30000406	B	83105-CEL C10000624	Missing cable tag inside the panel DP-200N1 and on MCT (both side)	.		Ecarotenuto 2024-11-09	2025-02-26	Pschintu 2025-02-26	2025-02-26
C30000411	B	83105-CEL C10000624	Plastic cable ties to be replaced on external routing	.		Ecarotenuto 2024-11-09	2025-02-26	Pschintu 2025-02-26	2025-02-26

CROSSWIND

ROSETTI MARINO

Project CROSSWIND

PUNCH LIST REPORT

SYSTEM	87	Instrumentation Systems incl. general control room equipment
SUBSYSTEM	87-10	Process Control System (PCS)

Instrumental

CODE	CAT	ITEM	DEFECT DESCRIPTION	CORRECTIVE ACTION	PERFORMED ACTION	ISSUED	CARRIED	CHECKED	APPROVED
C30000216	B	B400-PCS-001	Replace disconnector switches Q18 and Q18 with the right rating 32A, with NO auxiliary contact		INSTALLED	SLinari 2024-10-14	SLinari 2024-12-10	SLinari 2024-12-10	2024-12-10
C30000217	B	B400-PCS-002	Replace disconnector switches Q18 and Q18 with the right rating 32A, with NO auxiliary contact		INSTALLED	SLinari 2024-10-14	SLinari 2024-12-10	SLinari 2024-12-10	2024-12-10
C30000218	B	B400-PCS-001	Install and connect system cables (N. 12 type KS1-07/HF, N. 10 AKB331-M007/HF)		INSTALLED	SLinari 2024-10-14	SLinari 2024-12-10	SLinari 2024-12-10	2024-12-10
C30000219	B	B400-PCS-002	Install and connect system cables (N. 12 type KS1-07/HF, N. 10 AKB331-M007/HF)		INSTALLED	SLinari 2024-10-14	SLinari 2024-12-10	SLinari 2024-12-10	2024-12-10
C30000369	B	B400-PCS-001	Replace disconnector switches Q18 and Q19 with the right rating 32A, with NO auxiliary contact			SLinari 2024-10-14	2024-12-07	LNovaga 2024-12-07	2024-12-07
C30000370	B	B400-PCS-002	Replace disconnector switches Q18 and Q19 with the right rating 32A, with NO auxiliary contact			SLinari 2024-10-14	2024-12-07	LNovaga 2024-12-07	2024-12-07
C30000371	B	B400-PCS-001	Install and connect system cables (N. 12 type KS1-07/HF, N. 10 AKB331-M007/HF)			SLinari 2024-10-14	2024-12-07	LNovaga 2024-12-07	2024-12-07
C30000372	B	B400-PCS-002	Install and connect system cables (N. 12 type KS1-07/HF, N. 10 AKB331-M007/HF)			SLinari 2024-10-14	2024-12-07	LNovaga 2024-12-07	2024-12-07
C30000648	B	B400-PCS-001 C10000842	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	87	Instrumentation Systems incl. general control room equipment
SUBSYSTEM	87-10	Process Control System (PCS)

Instrumental

CODE	CAT	ITEM	DEFECT DESCRIPTION	CORRECTIVE ACTION	PERFORMED ACTION	ISSUED	CARRIED	CHECKED	APPROVED
C30000653	B	B400-PCS-001 C10000842	Internal base plate will be installed after commissioning.	.		Gtangianu 2024-11-20	2025-04-30	Gtangianu 2025-04-30	2025-04-30
C30000658	B	B400-PCS-001 C10000842	The front doors need to be installed.	.-		Gtangianu 2024-11-20	2024-12-23	Ecarotenuto 2024-12-23	2024-12-23
C30000773	B	B400-PCS-002 C10000843	Internal base plate will be installed after commissioning.	.		Gtangianu 2024-11-22	2025-04-30	Gtangianu 2025-04-30	2025-04-30
C30000774	B	B400-PCS-002 C10000843	The front doors need to be installed.	.		Gtangianu 2024-11-22	2024-12-27	Ecarotenuto 2024-12-27	2024-12-27
C30000775	B	B400-PCS-002 C10000843	All documentation listed in the SMIR, shall be re-issued in final revision and approved by RM and CW	.		Gtangianu 2024-11-22			

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30000648

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10000842	1.4 Discipline	Instrumental
1.2 Item	B400-PCS-001	PCS -Controller and I/O Cabinet	
1.3 Subsystem	87-10	Process Control System (PCS)	

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 2024-11-20T13:56:22.666Z

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 2024-11-20T13:55:34.436Z

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

C30000775

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10000843	1.4 Discipline	Instrumental
1.2 Item	B400-PCS-002	PCS Marshalling Cabinet	
1.3 Subsystem	87-10	Process Control System (PCS)	

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: 2024-11-22

Signature: Digitaly signed by Giovanni Tangianu 2024-11-22T14:52:41.688Z

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	2024-11-22
3.5 Action by	VND Vendor	Signature	Digitaly signed by Giovanni Tangianu 2024-11-22T14:52:51.316Z

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

C30000216

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task		1.4 Discipline	Instrumental
1.2 Item	B400-PCS-001		PCS -Controller and I/O Cabinet
1.3 Subsystem	87-10		Process Control System (PCS)

2 - OBSERVATION

Replace disconnector switches Q18 and Q18 with the right rating 32A, with NO auxiliary contact

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	2024-10-14
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 2024-12-10T14:16:10.817Z

5 - CLEARANCE CHECK

INSTALLED

Name Stefano Linari

Date 2024-12-10

Signature PROVERLIS Digitaly signed by Stefano Linari 2024-12-10T14:16:21.959Z

6- CLEARANCE APPROVAL

Name

Date

Signature



ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30000217

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task		1.4 Discipline	Instrumental
1.2 Item	B400-PCS-002		PCS Marshalling Cabinet
1.3 Subsystem	87-10		Process Control System (PCS)

2 - OBSERVATION

Replace disconnector switches Q18 and Q18 with the right rating 32A, with NO auxiliary contact

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	2024-10-14
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 Digitaly signed by VENDOR YOKOGAWA 2024-12-10T14:17:04.250Z

5 - CLEARANCE CHECK

INSTALLED

Name Stefano Linari

Date 2024-12-10

Signature Digitaly signed by Stefano Linari 2024-12-10T14:17:14.632Z

6- CLEARANCE APPROVAL

Name

Date

Signature



ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30000218

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task		1.4 Discipline	Instrumental
1.2 Item	B400-PCS-001		PCS -Controller and I/O Cabinet
1.3 Subsystem	87-10		Process Control System (PCS)

2 - OBSERVATION

Install and connect system cables (N. 12 type KS1-07/HF, N. 10 AKB331-M007/HF)

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	2024-10-14
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 Digitaly signed by VENDOR YOKOGAWA 2024-12-10T14:27:46.594Z

5 - CLEARANCE CHECK

INSTALLED

Name Stefano Linari

Date 2024-12-10

Signature Digitaly signed by Stefano Linari 2024-12-10T14:28:00.412Z

6- CLEARANCE APPROVAL

Name

Date

Signature





ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30000219

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task		1.4 Discipline	Instrumental
1.2 Item	B400-PCS-002		PCS Marshalling Cabinet
1.3 Subsystem	87-10		Process Control System (PCS)

2 - OBSERVATION

Install and connect system cables (N. 12 type KS1-07/HF, N. 10 AKB331-M007/HF)

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	2024-10-14
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 2024-12-10T14:28:43.131Z

5 - CLEARANCE CHECK

INSTALLED

Name Stefano Linari

Date 2024-12-10

Signature PROVERLIS Digitaly signed by Stefano Linari 2024-12-10T14:28:54.939Z

6- CLEARANCE APPROVAL

Name

Date

Signature





ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30000331

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10000581	1.4 Discipline	Electrical
1.2 Item	84303-CEL		AC UPS - PAS DB / PCS -Controller and I/O Cabinet - Line A
1.3 Subsystem	87-10		Process Control System (PCS)

2 - OBSERVATION

Armour of the cable is not connected to BTM.

Name: Giovanni Tangianu

Date: 2024-11-08

Signature: Digitaly signed by Giovanni Tangianu 2024-11-08T10:37:11.623Z

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	A PL A	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 2024-11-08T10:37:26.679Z

4 - PERFORMED ACTION

Name

Date

Signature

5 - CLEARANCE CHECK

Done

Name: Eleonora Carotenuto

Date: 2024-11-27

Signature: Digitaly signed by Eleonora Carotenuto 2024-11-27T16:34:58.766Z

6- CLEARANCE APPROVAL

Name

Date

Signature

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30000332

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10000581	1.4 Discipline	Electrical
1.2 Item	84303-CEL		AC UPS - PAS DB / PCS -Controller and I/O Cabinet - Line A
1.3 Subsystem	87-10		Process Control System (PCS)

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 2024-11-08T10:45:04.402Z

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 2024-11-08T10:45:49.766Z

4 - PERFORMED ACTION

Name

Date

Signature

5 - CLEARANCE CHECK

DONE

Name: Paolo Schintu

Date: 2025-02-26

Signature: Digitaly signed by Paolo Schintu 2025-02-26T12:37:41.945Z

6- CLEARANCE APPROVAL

Name

Date

Signature

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30000335

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10000582	1.4 Discipline	Electrical
1.2 Item	84304-CEL		AC UPS - PAS DB / PCS -Controller and I/O Cabinet - Line B
1.3 Subsystem	87-10		Process Control System (PCS)

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 2024-11-08T10:58:55.620Z

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 2024-11-08T10:59:09.706Z

4 - PERFORMED ACTION

Name

Date

Signature

5 - CLEARANCE CHECK

DONE

Name: Paolo Schintu

Date: 2025-02-26

Signature: Digitaly signed by Paolo Schintu 2025-02-26T12:38:02.502Z

6- CLEARANCE APPROVAL

Name

Date

Signature

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30000369

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task		1.4 Discipline	Instrumental
1.2 Item	B400-PCS-001		PCS -Controller and I/O Cabinet
1.3 Subsystem	87-10		Process Control System (PCS)

2 - OBSERVATION

Replace disconnector switches Q18 and Q19 with the right rating 32A, with NO auxiliary contact

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	2024-10-14
3.5 Action by		Signature	--- Proverlis --- Duplicata issued from database information Signature is on original form

4 - PERFORMED ACTION

Name

Date

Signature

5 - CLEARANCE CHECK

Refer to punch number: C30000216

Name Lorenzo Novaga

Date 2024-12-07

Signature Digitaly signed by Lorenzo Novaga 2024-12-07T10:00:33.773Z

6- CLEARANCE APPROVAL

Name

Date

Signature

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30000370

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task		1.4 Discipline	Instrumental
1.2 Item	B400-PCS-002		PCS Marshalling Cabinet
1.3 Subsystem	87-10		Process Control System (PCS)

2 - OBSERVATION

Replace disconnector switches Q18 and Q19 with the right rating 32A, with NO auxiliary contact

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	2024-10-14
3.5 Action by		Signature	--- Proverlis --- Duplicata issued from database information Signature is on original form

4 - PERFORMED ACTION

Name

Date

Signature

5 - CLEARANCE CHECK

Refer to punch number: C30000217

Name Lorenzo Novaga

Date 2024-12-07

Signature Digitaly signed by Lorenzo Novaga 2024-12-07T10:00:49.536Z

6- CLEARANCE APPROVAL

Name

Date

Signature

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30000371

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task		1.4 Discipline	Instrumental
1.2 Item	B400-PCS-001		PCS -Controller and I/O Cabinet
1.3 Subsystem	87-10		Process Control System (PCS)

2 - OBSERVATION

Install and connect system cables (N. 12 type KS1-07/HF, N. 10 AKB331-M007/HF)

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	2024-10-14
3.5 Action by		Signature	--- Proverlis --- Duplicata issued from database information Signature is on original form

4 - PERFORMED ACTION

Name

Date

Signature

5 - CLEARANCE CHECK

Refer to punch number: C30000218

Name	Lorenzo Novaga
Date	2024-12-07
Signature	Digitaly signed by Lorenzo Novaga 2024-12-07T10:01:07.209Z

6- CLEARANCE APPROVAL

Name

Date

Signature

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30000372

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task		1.4 Discipline	Instrumental
1.2 Item	B400-PCS-002		PCS Marshalling Cabinet
1.3 Subsystem	87-10		Process Control System (PCS)

2 - OBSERVATION

Install and connect system cables (N. 12 type KS1-07/HF, N. 10 AKB331-M007/HF)

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	2024-10-14
3.5 Action by		Signature	--- Proverlis --- Duplicata issued from database information Signature is on original form

4 - PERFORMED ACTION

Name

Date

Signature

5 - CLEARANCE CHECK

Refer to punch number: C30000219

Name Lorenzo Novaga

Date 2024-12-07

Signature Digitaly signed by Lorenzo Novaga 2024-12-07T10:01:35.040Z

6- CLEARANCE APPROVAL

Name

Date

Signature

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30000406

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10000624	CPX09	1.4 Discipline	Electrical
1.2 Item	83105-CEL		Lighting & Small Power DB BoP / PCS -Controller and I/O Cabinet - Auxiliary	
1.3 Subsystem	87-10		Process Control System (PCS)	

2 - OBSERVATION

Missing cable tag inside the panel DP-200N1 and on MCT (both side)

Name: Giovanni Tangianu

Date: 2024-11-08

Signature: Firma Digitale Sicura
Giovanni Tangianu
2024-11-08T09:36:16+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 2024-11-09T08:54:27.980Z

4 - PERFORMED ACTION

Name

Date

Signature

5 - CLEARANCE CHECK

DONE

Name: Paolo Schintu

Date: 2025-02-26

Signature: Digitaly signed by Paolo Schintu
2025-02-26T12:39:12.718Z

6- CLEARANCE APPROVAL

Name

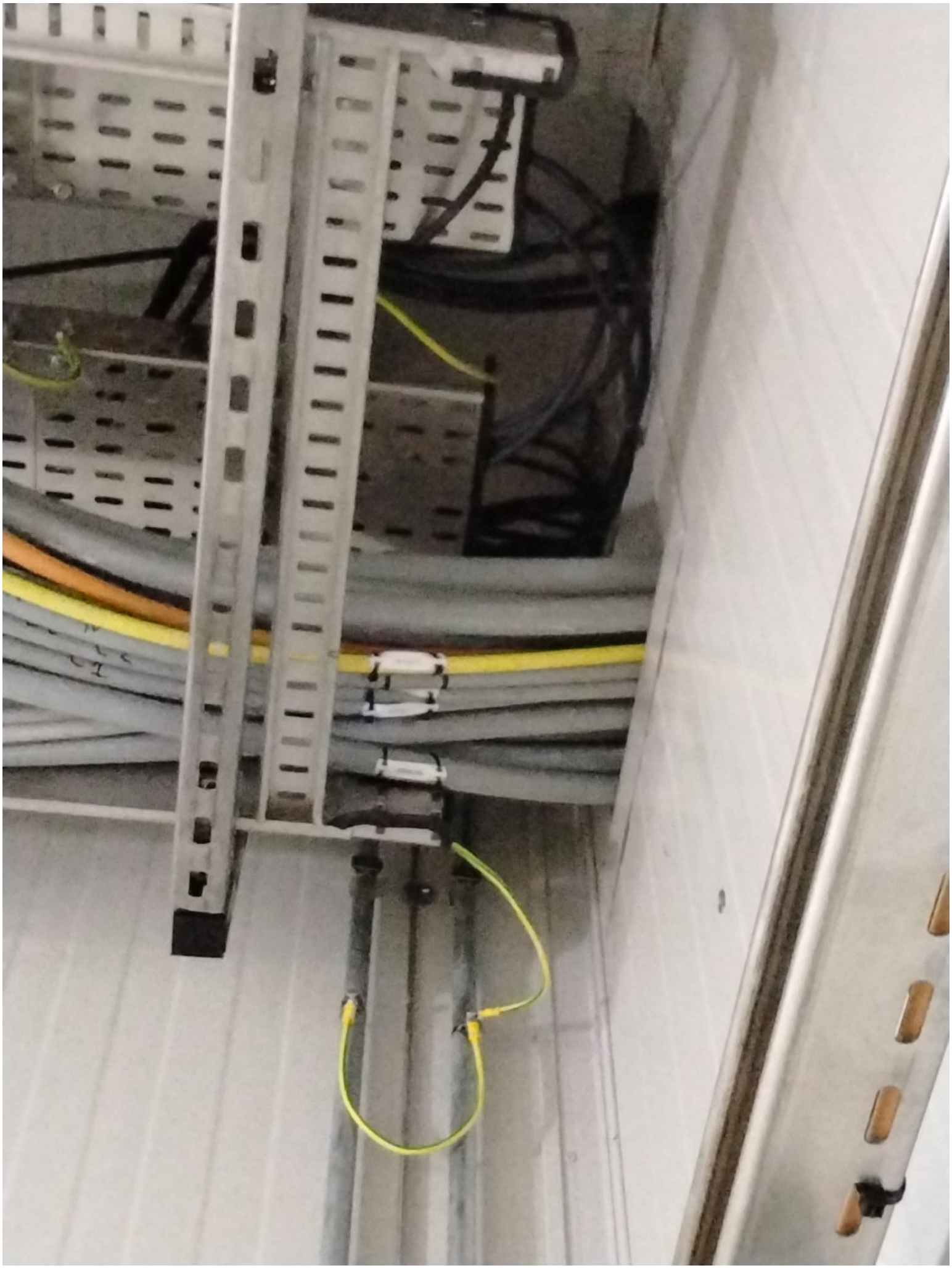
Date

Signature

2024-11-08 09:35 By Giovanni Tangianu



2024-11-08 09:35 By Giovanni Tangianu



ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30000407

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10000624	CPX09	1.4 Discipline	Electrical
1.2 Item	83105-CEL		Lighting & Small Power DB BoP / PCS -Controller and I/O Cabinet - Auxiliary	
1.3 Subsystem	87-10		Process Control System (PCS)	

2 - OBSERVATION

multiple earthing cables connected to one earthing connection. (See attached photo) _ Point valid for the following cables 83105-CEL_ 83106-CEL _ 83109-CEL

Name: Giovanni Tangianu

Date: 2024-11-08

Signature: Firma Digitale Sicura Giovanni Tangianu 2024-11-08T09:39:27+0100

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	A PL A	Name	Eleonora Carotenuto
3.4 Activity code	MC Mechanical Completion	Date	2024-11-09
3.5 Action by	RM_CONSTR RM	Signature	Digitaly signed by Eleonora Carotenuto 2024-11-09T08:56:29.523Z

4 - PERFORMED ACTION

Name

Date

Signature

5 - CLEARANCE CHECK

Done

Name: Eleonora Carotenuto

Date: 2024-11-27

Signature: Digitaly signed by Eleonora Carotenuto 2024-11-27T16:35:14.649Z

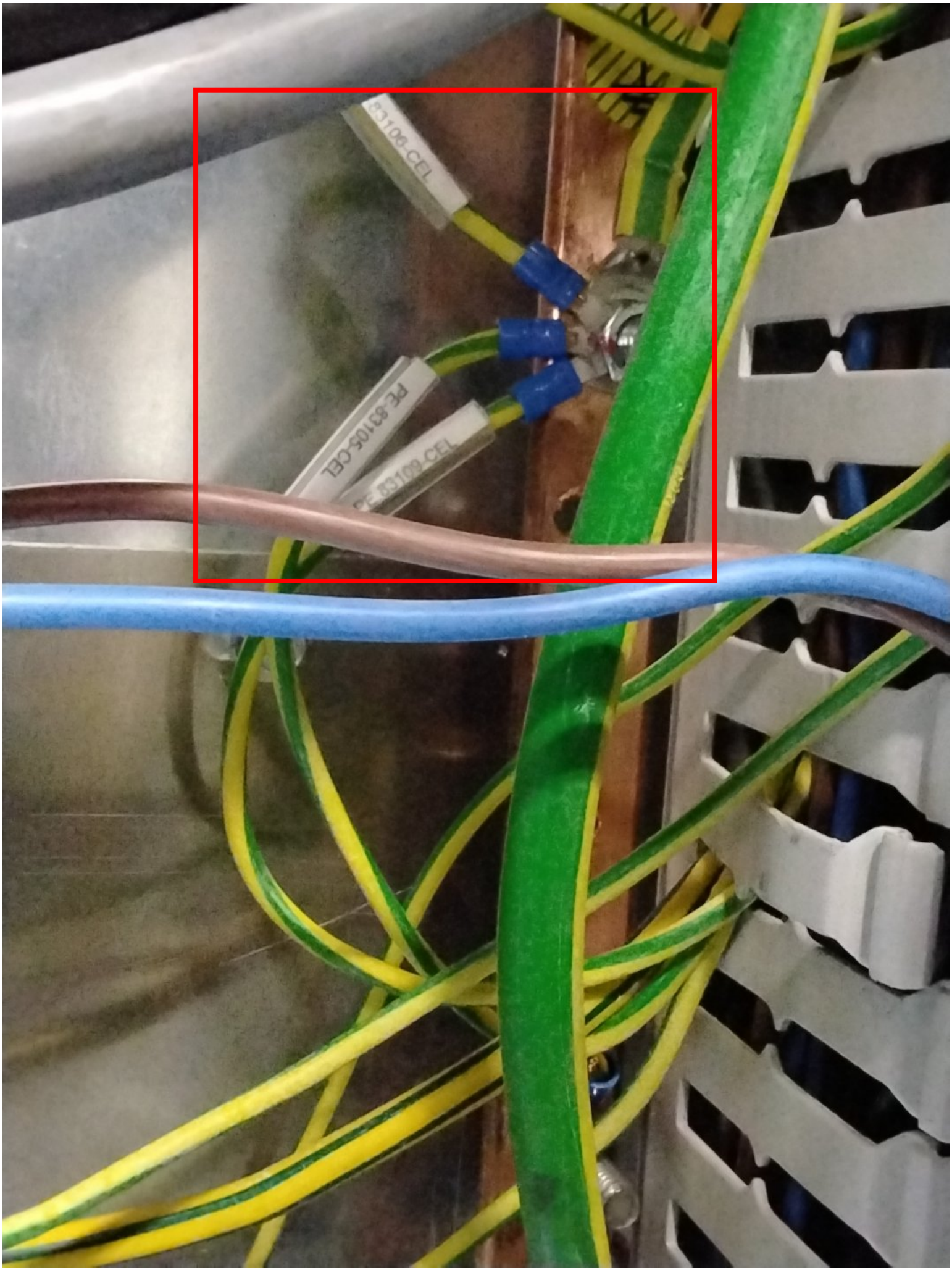
6- CLEARANCE APPROVAL

Name

Date

Signature

2024-11-08 09:38 By Giovanni Tangianu



ROSETTI MARINO CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30000411

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10000624	CPX09	1.4 Discipline	Electrical
1.2 Item	83105-CEL		Lighting & Small Power DB BoP / PCS -Controller and I/O Cabinet - Auxiliary	
1.3 Subsystem	87-10		Process Control System (PCS)	

2 - OBSERVATION

Plastic cable ties to be replaced on external routing

Name: Giovanni Tangianu

Date: 2024-11-08

Signature: Firma Digitale Sicura
Giovanni Tangianu
2024-11-08T09:33:26+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	RM_CONSTR RM	Signature	Digitaly signed by Eleonora Carotenuto 2024-11-09T09:06:48.241Z

4 - PERFORMED ACTION

Name

Date

Signature

5 - CLEARANCE CHECK

DONE

Name: Paolo Schintu

Date: 2025-02-26

Signature: Digitaly signed by Paolo Schintu
2025-02-26T12:40:10.175Z

6- CLEARANCE APPROVAL

Name

Date

Signature

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30000653

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10000842	1.4 Discipline	Instrumental
1.2 Item	B400-PCS-001	PCS -Controller and I/O Cabinet	
1.3 Subsystem	87-10	Process Control System (PCS)	

2 - OBSERVATION

Internal base plate will be installed after commissioning.

Name: Giovanni Tangianu

Date: 2024-11-20

Signature: Digitaly signed by Giovanni Tangianu 2024-11-20T14:02:33.802Z

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	PRE-COMM	Signature	Digitaly signed by Giovanni Tangianu 2024-11-20T14:02:49.325Z

4 - PERFORMED ACTION

Name

Date: 2025-04-30

Signature

5 - CLEARANCE CHECK

Installed.

Name: Giovanni Tangianu

Date: 2025-04-30

Signature: Digitaly signed by Giovanni Tangianu 2025-04-30T08:53:54.009Z

6- CLEARANCE APPROVAL

Name

Date: 2025-04-30

Signature

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30000658

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10000842	1.4 Discipline	Instrumental
1.2 Item	B400-PCS-001	PCS -Controller and I/O Cabinet	
1.3 Subsystem	87-10	Process Control System (PCS)	

2 - OBSERVATION

The front doors need to be installed.

Name: Giovanni Tangianu

Date: 2024-11-20

Signature: Digitaly signed by Giovanni Tangianu 2024-11-20T14:17:48.666Z

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 2024-11-20T14:18:00.465Z

4 - PERFORMED ACTION

Name

Date

Signature

5 - CLEARANCE CHECK

DONE

Name: Eleonora Carotenuto

Date: 2024-12-23

Signature: Digitaly signed by Eleonora Carotenuto 2024-12-23T17:02:19.241Z

6- CLEARANCE APPROVAL

Name

Date

Signature

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30000773

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10000843	1.4 Discipline	Instrumental
1.2 Item	B400-PCS-002	PCS Marshalling Cabinet	
1.3 Subsystem	87-10	Process Control System (PCS)	

2 - OBSERVATION

Internal base plate will be installed after commissioning.

Name: Giovanni Tangianu

Date: 2024-11-22

Signature: Digitaly signed by Giovanni Tangianu 2024-11-22T14:50:33.500Z

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	2024-11-22
3.5 Action by	PRE-COMM	Signature	Digitaly signed by Giovanni Tangianu 2024-11-22T14:50:51.844Z

4 - PERFORMED ACTION

Name

Date: 2025-04-30

Signature

5 - CLEARANCE CHECK

Installed.

Name: Giovanni Tangianu

Date: 2025-04-30

Signature: Digitaly signed by Giovanni Tangianu 2025-04-30T08:53:03.070Z

6- CLEARANCE APPROVAL

Name

Date: 2025-04-30

Signature

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30000774

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10000843	1.4 Discipline	Instrumental
1.2 Item	B400-PCS-002	PCS Marshalling Cabinet	
1.3 Subsystem	87-10	Process Control System (PCS)	

2 - OBSERVATION

The front doors need to be installed.

Name: Giovanni Tangianu

Date: 2024-11-22

Signature: Digitaly signed by Giovanni Tangianu 2024-11-22T14:51:38.985Z

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	2024-11-22
3.5 Action by	RM_CONSTR RM	Signature	Digitaly signed by Giovanni Tangianu 2024-11-22T14:51:49.252Z

4 - PERFORMED ACTION

Name

Date

Signature

5 - CLEARANCE CHECK

DONE

Name: Eleonora Carotenuto

Date: 2024-12-27

Signature: Digitaly signed by Eleonora Carotenuto 2024-12-27T10:07:22.256Z

6- CLEARANCE APPROVAL

Name

Date

Signature

Section 4 FUNCTIONAL TESTS SHEETS

Section 4.1 Electrical functional test sheets index

CROSSWIND

ROSETTI MARINO

Project CROSSWIND

STATUS INDEX DETAIL

Filtered on subsystem: 87-10 & process: COMM & discipline : E

Electrical	87-10 Process Control System (PCS)						
ITEM		TASK					
Code	Description	Location	Code	Form	Progress	Date	Certificate
DP-200N1-Q24	POWER SUPPLY PCS AUX - DP-200N1-Q24	ONSHORE	C10002840	FTR-2	100	2024-10-28	RFO 1
UP-200F3-QF45	ALIMENTAZIONE PCS - LINE A	ONSHORE	C10004582	FTR-2	100	2024-11-08	RFO 1
UP-200F3-QF46	ALIMENTAZIONE PCS - LINE B	ONSHORE	C10004583	FTR-2	100	2024-11-08	RFO 1

ITEM	Tag	DP-200N1-Q24	: POWER SUPPLY PCS AUX - DP-200N1-Q24	Dwg	1723002197-EL-DG-00013		
	S/Sys	87-10	: Process Control System (PCS)	Module			
TASK	code	C10002840	Location	Onshore Activities	User	Rosetti Marino Quality Control	
FORM	Process	PRE-COMM	Activity	FTS	Discipline	Electrical	Form	FTR-2	Protection Relay

FTR2 - Protection relay
Record sheet

RELAY DATA

Manufacturer:	ABB	Serial N°:	NA	Relay type:	NA
Auxiliary supply:	NA	Location:	B200	Cubicle:	+03
Switchboard:	DP-200N1				

Current transformers

Tag	Number of	Ratio	Location

Voltage transformers

Tag	Number of	Ratio	Location

Test result (refer to manufacturer's procedure)

ANSI function	Setting	Injection	Trip value	Time delay	
				Setting	Trip value
I	6A	NA	NA	FIXED	NA

Testing & measurement instruments used

Type	Serial n°	Calibration certificate	Validity
FLUKE 1663	5380144	7727/24	10/07/2025

Comments:

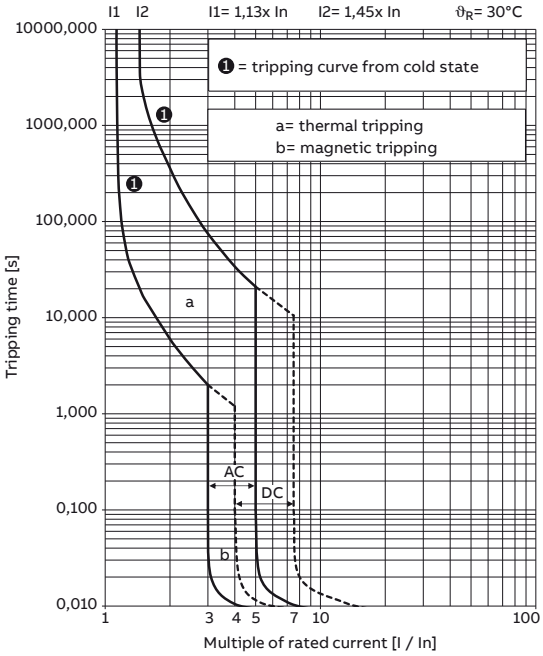
Page 1/1	Performed by	☐ WITNESS ☑ REVIEW	☐ WITNESS ☐ REVIEW
Company	RM COMM	RM COMM	CPY NOT PRESENT
Name	Davide Zucconelli	Kristian Castellani	Witness waived
Date	2024-10-28	2024-10-28	2024-10-28
Signature	PROVERLIS Digitaly signed by Davide Zucconelli 2024-10-28T11:07:37.009Z	PROVERLIS Digitaly signed by Kristian Castellani 2024-10-28T12:56:49.112Z	PROVERLIS Digitaly signed by Witness waived 2024-10-28T13:28:14.671Z

Miniature Circuit breakers S300P

Tripping characteristics

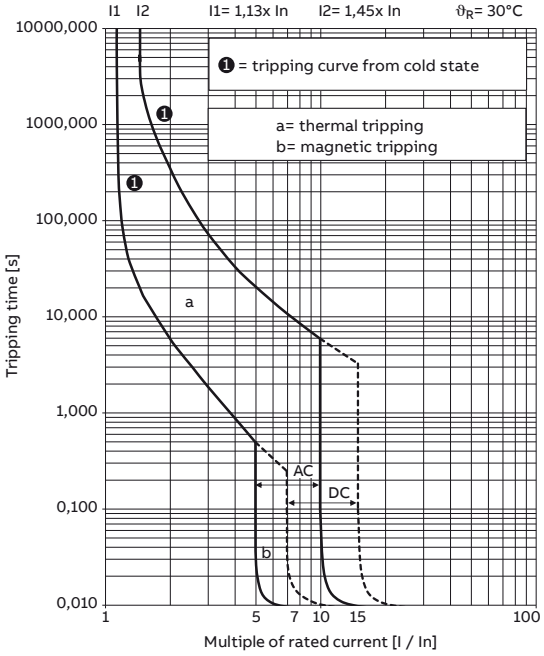
MCB Type S300P - B (3 ... 5 x I_n AC)

Tripping Characteristic IEC/EN 60898-1



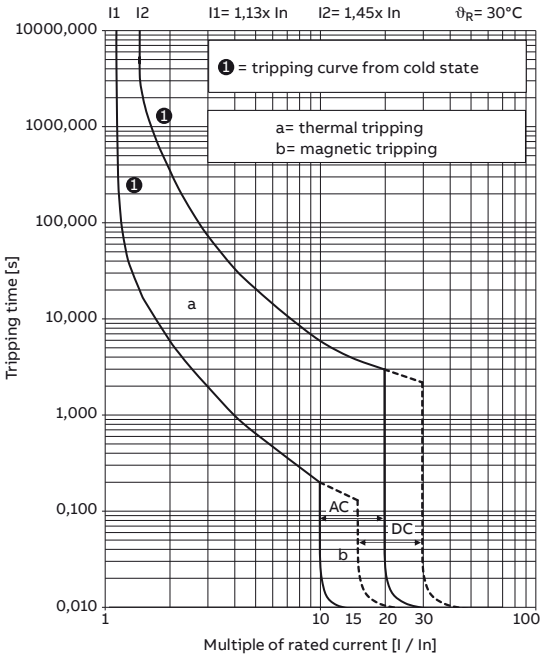
MCB Type S300P - C (5 ... 10 x I_n AC)

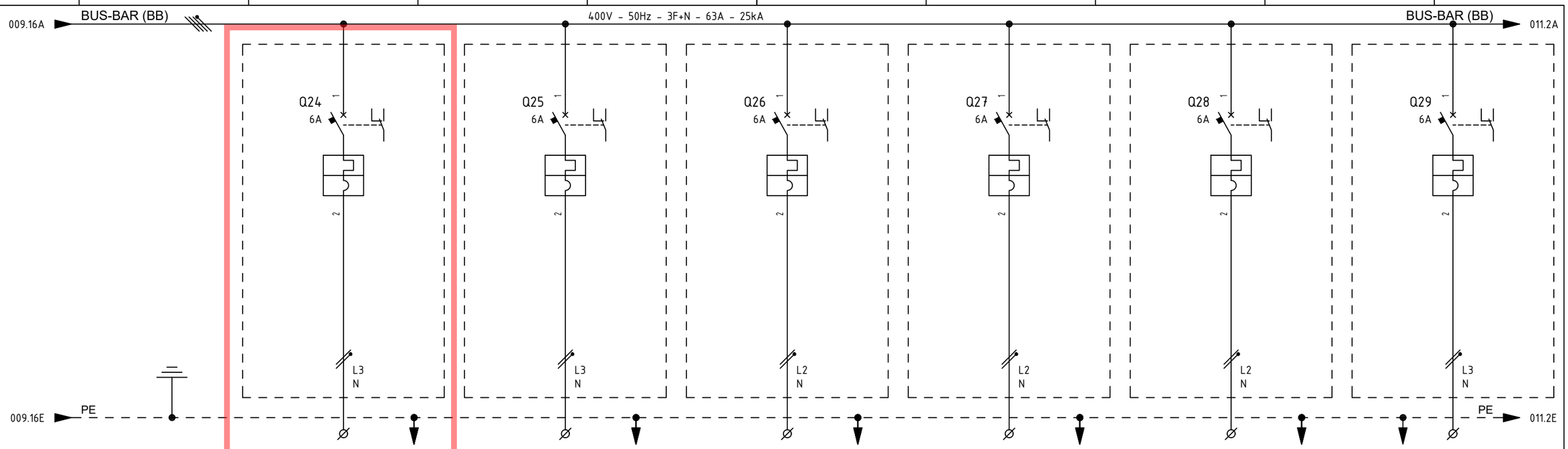
Tripping Characteristic IEC/EN 60898-1



MCB Type S300P - D (10 ... 20 x I_n AC)

Tripping Characteristic IEC/EN 60898-1





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	-	-	-	-	-	-
		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

=

+

DWG n° : 231298/SD/13

Item n° : PF1002888/101

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
4	18/09/2024	Santinelli	Flamminio	Sigismondi	As Built (ASB)
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)

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

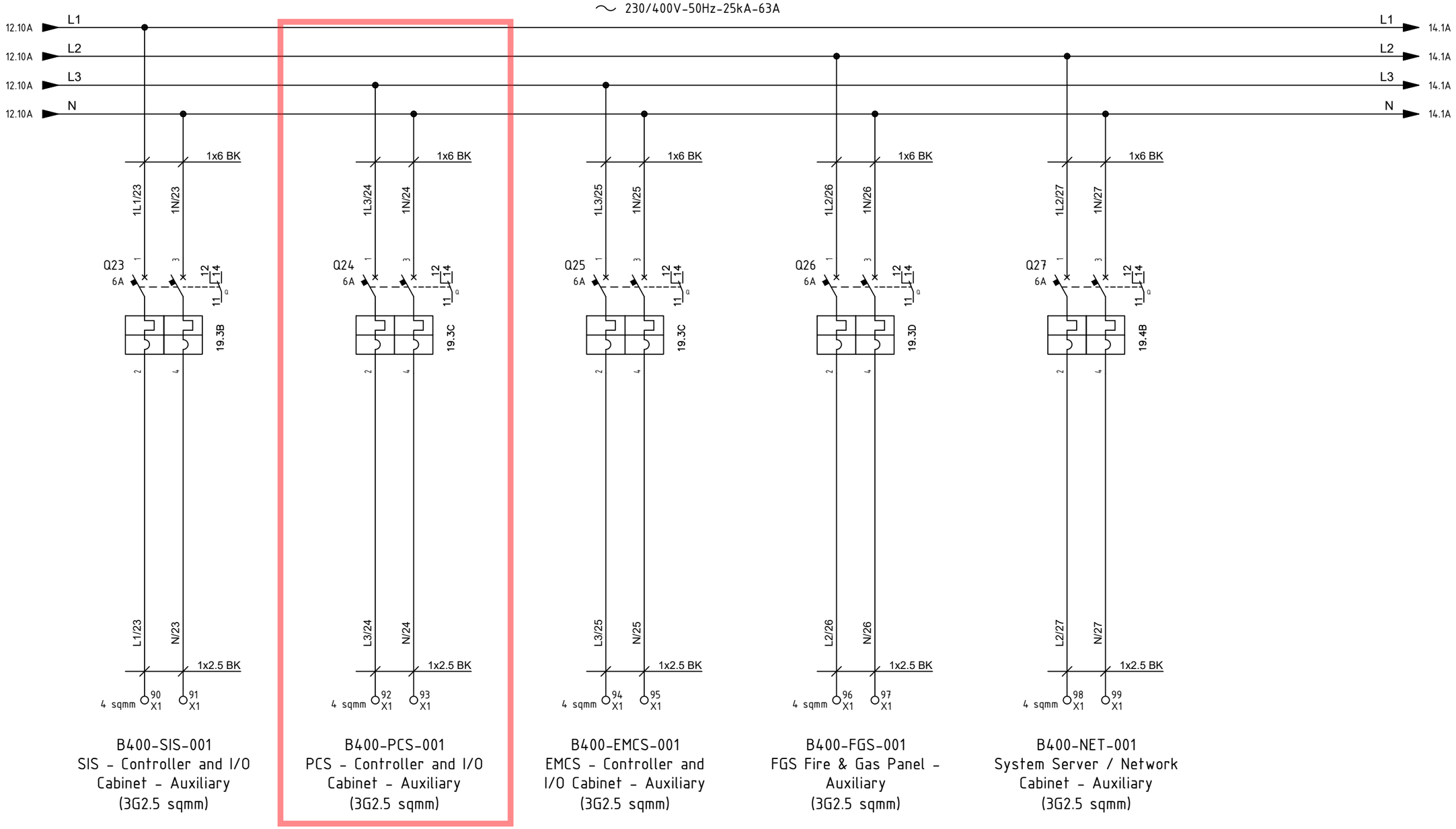
DRAWING NO. 1723002197-EL-DG-00013

SHEET 010

REV. 04

F.to UNI A3: 420mmx297mm

File Name : 1723002197-EL-DG-00013 Rev. 04



B400-SIS-001
SIS - Controller and I/O Cabinet - Auxiliary
(3G2.5 sqmm)

B400-PCS-001
PCS - Controller and I/O Cabinet - Auxiliary
(3G2.5 sqmm)

B400-EMCS-001
EMCS - Controller and I/O Cabinet - Auxiliary
(3G2.5 sqmm)

B400-FGS-001
FGS Fire & Gas Panel - Auxiliary
(3G2.5 sqmm)

B400-NET-001
System Server / Network Cabinet - Auxiliary
(3G2.5 sqmm)

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
=					
+					
2	19/08/2024	Santinelli	Flamminio	Sigismondi	As Built (ASB)
1	05/07/2024	Santinelli	Flamminio	Sigismondi	Accepted for construction (AFC)
0	29/05/2024	Santinelli	Flamminio	Sigismondi	Issued for review (IFR)

CROSSWIND

IMESA ELECTRICAL ENGINEERING

ROSETTI MARINO

DWG n° : 231298/SD/33
Item n° : PF1002888/101

TITLE : "DP-200N1"
LV SWBD FUNCTIONAL DIAGRAMS
Functional Drawing

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

SCALE : NTS

A3

DRAWING NO. 1723002197-EL-DG-00033

SHEET 13

REV. 02

File Name : 1723002197-EL-DG-00033 Rev. 02

F.to UNI A3: 420mmx297mm

ITEM	Tag	UP-200F3-QF45	: ALIMENTAZIONE PCS - LINE A		Dwg	1724000372-EL-DG-00009	
	S/Sys	87-10	: Process Control System (PCS)		Module		
TASK	code	C10004582	Location	Onshore Activities	User	Rosetti Marino Quality Control	
FORM	Process	PRE-COMM	Activity	FTS	Discipline	Electrical	Form	FTR-2	Protection Relay

FTR2 - Protection relay
Record sheet

RELAY DATA

Manufacturer: ABB	Serial N°: NA	Relay type: NA
Auxiliary supply: NA	Location: B300	Cubicle: NA
Switchboard: UP-200F3		

Current transformers

Tag	Number of	Ratio	Location

Voltage transformers

Tag	Number of	Ratio	Location

Test result (refer to manufacturer's procedure)

ANSI function	Setting	Injection	Trip value	Time delay	
				Setting	Trip value
I	10A	NA	NA	FIXED	NA

Testing & measurement instruments used

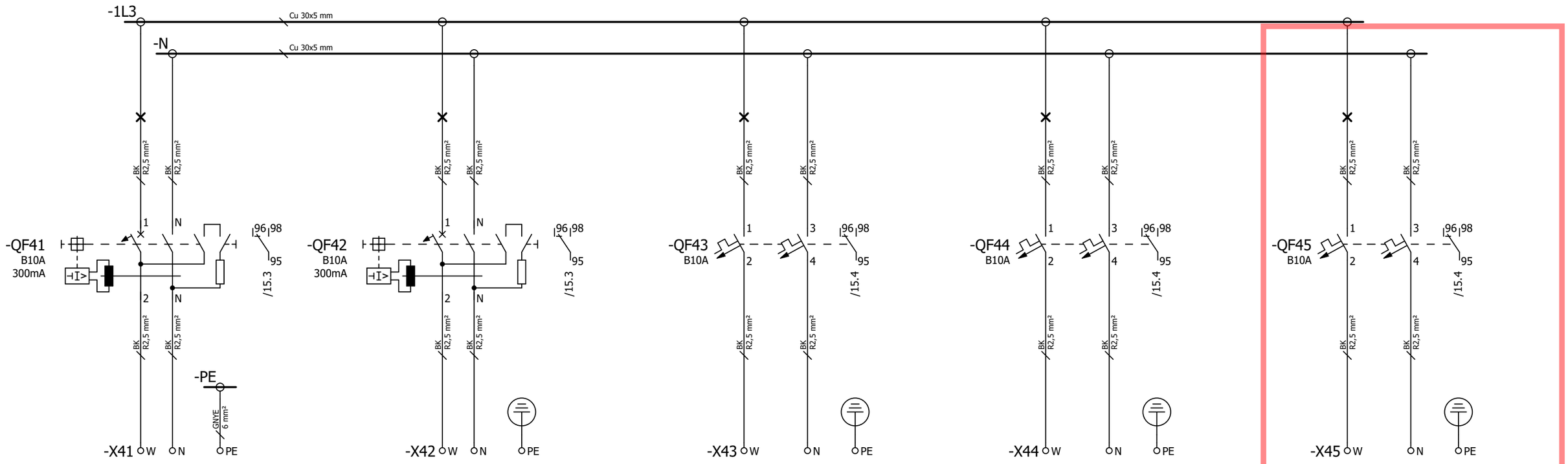
Type	Serial n°	Calibration certificate	Validity
FLUKE 1663	5380144	7727/24	08/07/2025

Comments:

Page 1/1	Performed by	☐ WITNESS ☑ REVIEW	☐ WITNESS ☐ REVIEW
Company	RM COMM	RM COMM	CPY NOT PRESENT
Name	Davide Zucconelli	Kristian Castellani	Witness waived
Date	2024-11-08	2024-11-08	2024-11-08
Signature	Digitaly signed by Davide Zucconelli 2024-11-08T14:20:59.123Z	Digitaly signed by Kristian Castellani 2024-11-08T15:15:28.304Z	Digitaly signed by Witness waived 2024-11-08T16:28:02.479Z

CAE EPLAN Electric P8

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Load
230V/N/PE~50Hz

B300-HSB-001
UCP-HVAC UPS ROOM
0.5KW

Load
230V/N/PE~50Hz

B300-HSB-001
UCP-HVAC ITER
0.5KW

Load
230V/N/PE~50Hz

B400-SIS-001
SIS-CONTROLLER AND I/O
CABINET-LINE A - 1KW

Load
230V/N/PE~50Hz

B400-SIS-001
SIS-CONTROLLER AND I/O
CABINET-LINE B - 1KW

Load
230V/N/PE~50Hz

B400-PCS-001
PCS-CONTROLLER AND I/O
CABINET-LINE A - 1.5KW

1000007888_010

				Date	23.05.2024
01	500000002053	13.08.2024	Beckschäfer	Editor	Beckschäfer
02	500000002089	27.08.2024	Beckschäfer	Checked	Ch.Peck
Stat	Alteration	Date	Name	Norm	

ROSETTI MARINO
Hollandse Kust Noord (HKN) wind farm

AEG POWER SOLUTIONS

Load
Bypass transformer cabinet
with manual bypass 40 kVA
Circuit diagram

1000007888.020
10009757

1000007888_010 en

=
+ MBC1
& EFS

A3

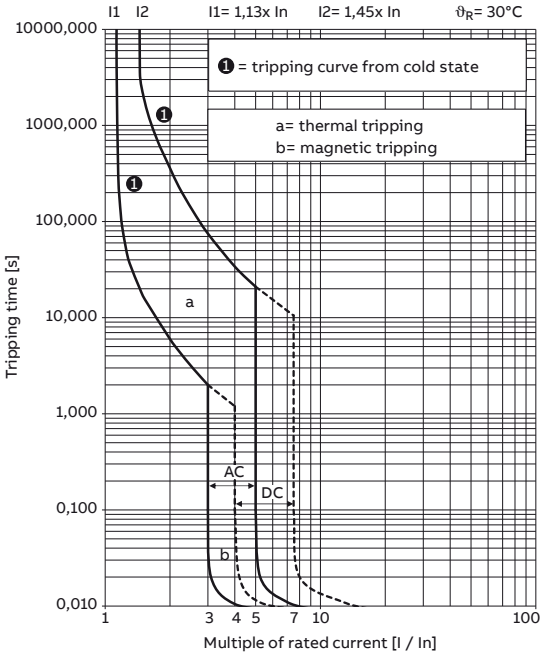
sheet 9
sheets 17

Miniature Circuit breakers S300P

Tripping characteristics

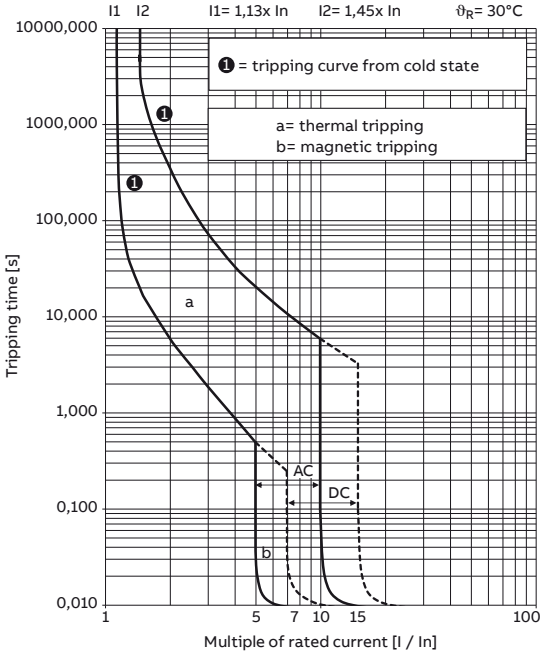
MCB Type S300P - B (3 ... 5 x I_n AC)

Tripping Characteristic IEC/EN 60898-1



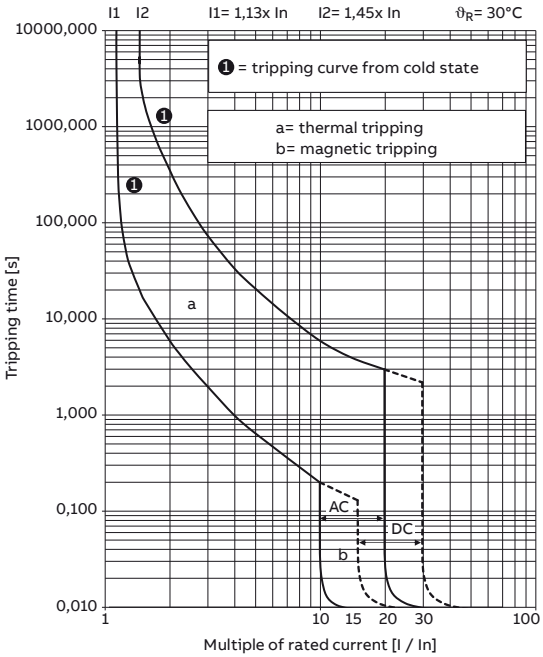
MCB Type S300P - C (5 ... 10 x I_n AC)

Tripping Characteristic IEC/EN 60898-1



MCB Type S300P - D (10 ... 20 x I_n AC)

Tripping Characteristic IEC/EN 60898-1



ITEM	Tag	UP-200F3-QF46	: ALIMENTAZIONE PCS - LINE B			Dwg	1724000372-EL-DG-00009
	S/Sys	87-10	: Process Control System (PCS)			Module	
TASK	code	C10004583		Location	Onshore Activities	User	Rosetti Marino Quality Control
FORM	Process	PRE-COMM	Activity FTS	Discipline	Electrical	Form	FTR-2 Protection Relay

FTR2 - Protection relay
Record sheet

RELAY DATA

Manufacturer: ABB	Serial N°: NA	Relay type: NA
Auxiliary supply: NA	Location: B300	Cubicle: NA
Switchboard: UP-200F3		

Current transformers

Tag	Number of	Ratio	Location

Voltage transformers

Tag	Number of	Ratio	Location

Test result (refer to manufacturer's procedure)

ANSI function	Setting	Injection	Trip value	Time delay Setting	Time delay Trip value
I	10	NA	NA	FIXED	NA

Testing & measurement instruments used

Type	Serial n°	Calibration certificate	Validity
FLUKE 1663	5380144	7727/24	08/07/2025

Comments:

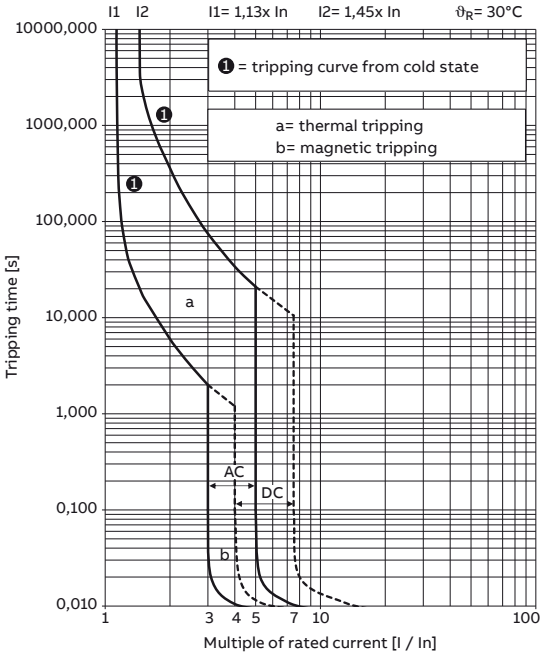
Page 1/1	Performed by	☐ WITNESS ☉ REVIEW	☐ WITNESS ☐ REVIEW
Company	RM COMM	RM COMM	CPY NOT PRESENT
Name	Davide Zucconelli	Kristian Castellani	Witness waived
Date	2024-11-08	2024-11-08	2024-11-08
Signature	PROVERLIS Digitaly signed by Davide Zucconelli 2024-11-08T14:21:25.194Z	PROVERLIS Digitaly signed by Kristian Castellani 2024-11-08T15:16:14.597Z	PROVERLIS Digitaly signed by Witness waived 2024-11-08T16:28:16.928Z

Miniature Circuit breakers S300P

Tripping characteristics

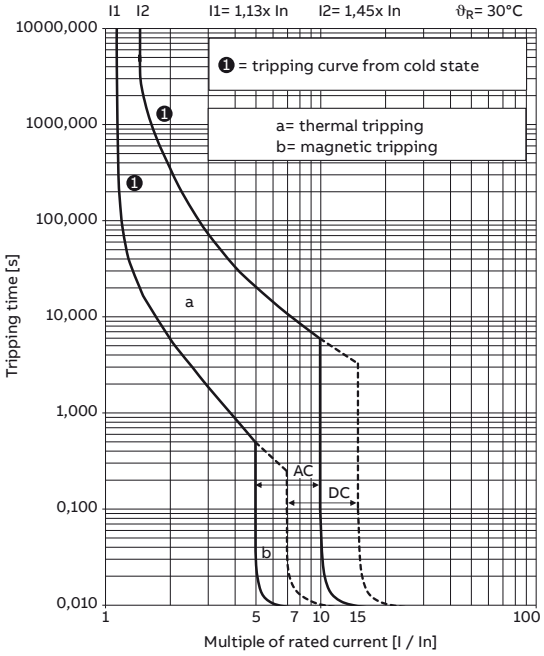
MCB Type S300P - B (3 ... 5 x I_n AC)

Tripping Characteristic IEC/EN 60898-1



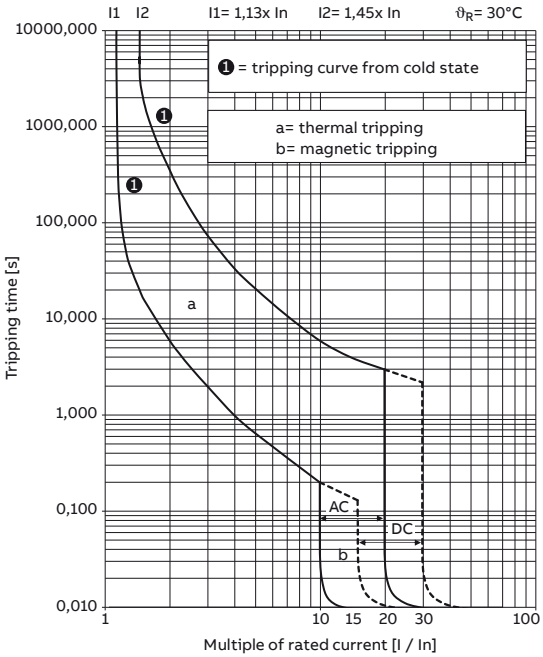
MCB Type S300P - C (5 ... 10 x I_n AC)

Tripping Characteristic IEC/EN 60898-1



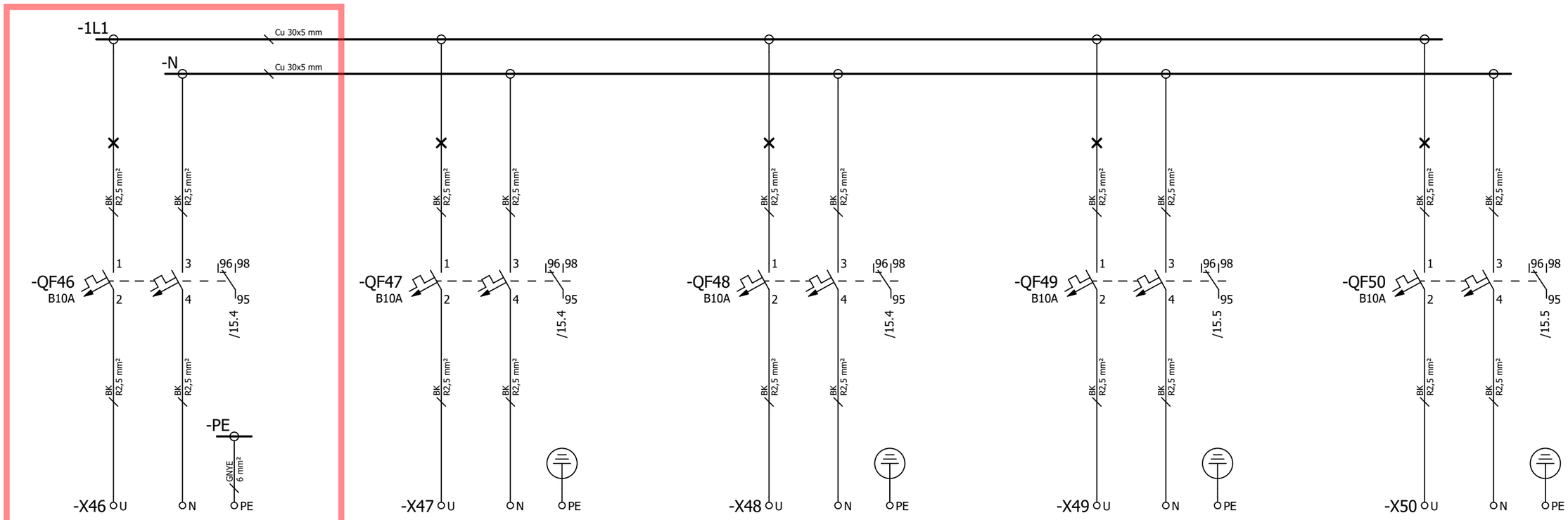
MCB Type S300P - D (10 ... 20 x I_n AC)

Tripping Characteristic IEC/EN 60898-1



CAE EPLAN Electric P8

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Load
230V/N/PE~50Hz

B400-PCS-001
PCS-CONTROLLER AND I/O
CABINET-LINE B - 1.5KW

Load
230V/N/PE~50Hz

B400-EMCS-001
EMCS-CONTROLLER AND I/O
CABINET-LINE A - 1KW

Load
230V/N/PE~50Hz

B400-EMCS-001
EMCS-CONTROLLER AND I/O
CABINET-LINE B - 1KW

Load
230V/N/PE~50Hz

SG-200-N1
LV SWITCHBOARD AUXILIARY
1KW

Load
230V/N/PE~50Hz

SPARE

1000007888_010

				Date	23.05.2024
01	500000002053	13.08.2024	Beckschäfer	Editor	Beckschäfer
02	500000002089	27.08.2024	Beckschäfer	Checked	Ch.Peck
Stat	Alteration	Date	Name	Norm	

ROSETTI MARINO
Hollandse Kust Noord (HKN) wind farm

AEG POWER SOLUTIONS

Load
Bypass transformer cabinet
with manual bypass 40 kVA
Circuit diagram

1000007888.020
10009757

1000007888_010 en

=
+ MBC1
& EFS

A3

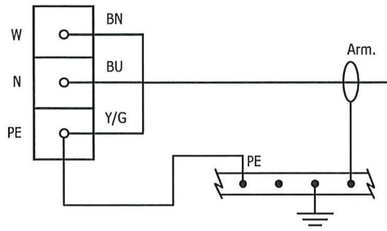
sheet 10
sheets 17

Section 4.2 Electrical
“As-Commissioned” interconnection diagrams

FROM	TO

DESCRIPTION: AC UPS - PAS DB
TAG NUMBER: ~~DP-200F3~~ UP-200F3 BY PASS

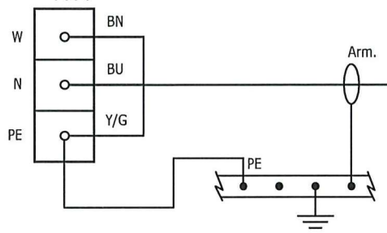
-X43



84301-CEL
3G2.5 mm²

MARCO MORETTO
21/3/25

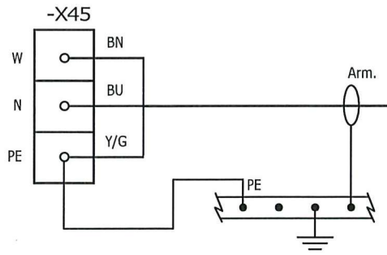
-X44



84302-CEL
3G2.5 mm²

NO MARK UP
MARCO MORETTO
21/3/25

-X45



84303-CEL
3G2.5 mm²

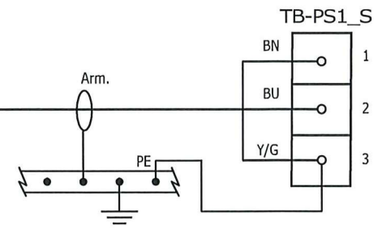
NO MARK UP
MARCO MORETTO
21/3/25

AS COMMISSIONED: MATTIA GIROTTI
21/3/25

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

SS 79-00

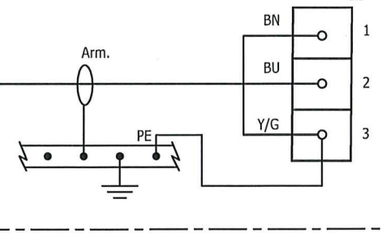
TB-PS1_S



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

SS 79-00

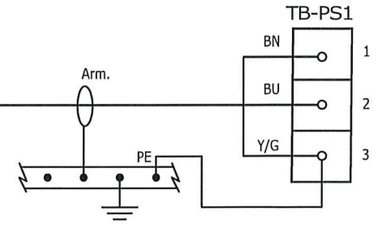
TB-PS2_S



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

SS 87-10

TB-PS1



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

REV.:	DATE:	SIGNATURE:
2_F	09/01/25	G.Randi

ROSETTI MARINO SpA

CROSSWIND

ROSETTI MARINO

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

TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL INTERCONNECTING WIRING DIAGRAM
DC UPS NAVAID SYSTEM & AC UPS – PAS DB

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

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	123A90-DDL-EL-DG-20149	038	02

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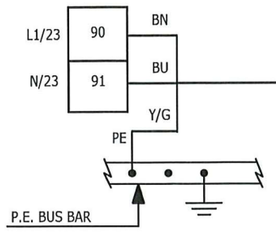
File Name : 123A90-DDL-EL-DG-20149 Rev. 02

FROM	TO

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

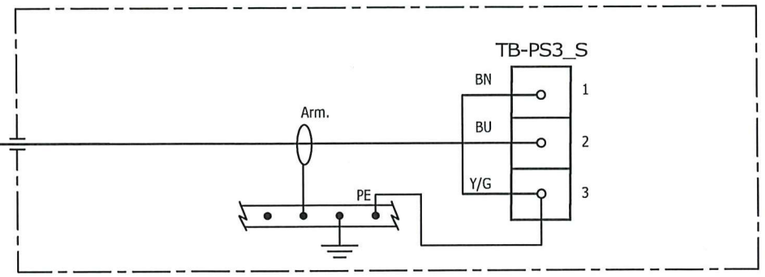
NO MARK UP
MARCO MORETTO
21/3/25

CUBICLE/CB: +03/Q23

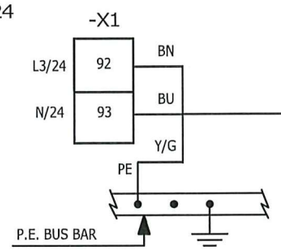


83104-CEL
3G2.5 mm²

DESCRIPTION: SIS -CONTROLLER AND I/O CABINET - AUXILIARY
TAG NUMBER: B400-SIS-001



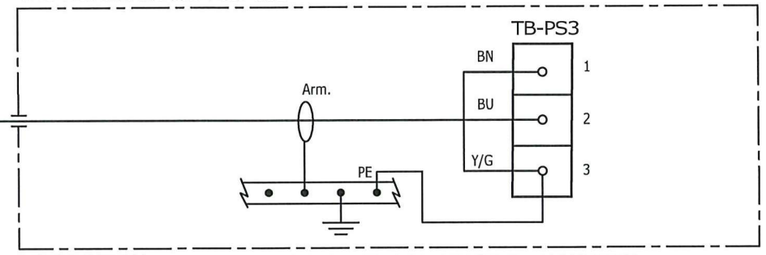
CUBICLE/CB: +03/Q24



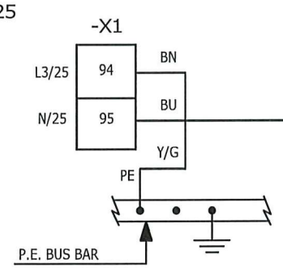
83105-CEL
3G2.5 mm²

NO MARK UP
MARCO MORETTO
21/3/25

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



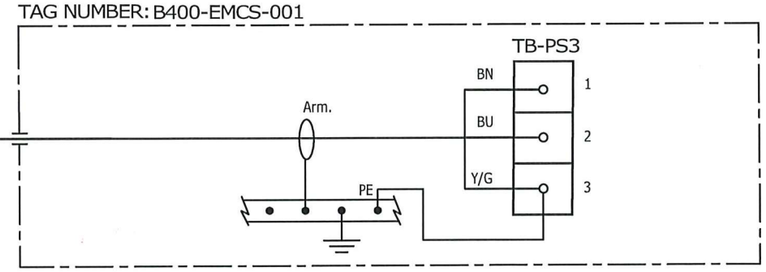
CUBICLE/CB: +03/Q25



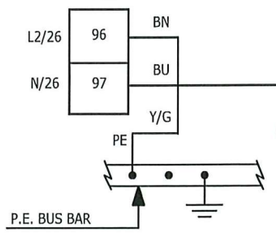
83106-CEL
3G2.5 mm²

NO MARK UP
MARCO MORETTO
21/3/25

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



CUBICLE/CB: +03/Q26

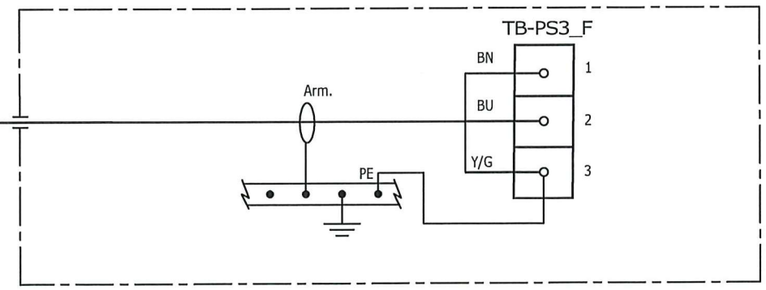


83107-CEL
3G2.5 mm²

AS COMMISSIONED: MATHIA GIROTI
21/3/25

NO MARK UP
MARCO MORETTO
21/3/25

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



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

REV.:	DATE:	SIGNATURE:
2_F	09/01/25	G.Randi

ROSETTI MARINO SpA

CROSSWIND

ROSETTI MARINO

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

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 052

REV. 02

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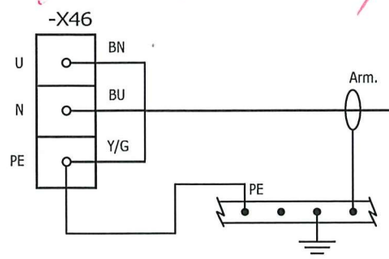
File Name : 123A90-DDL-EL-DG-20149 Rev. 02

FROM	TO

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

MARCO MORETTO 21/3/25

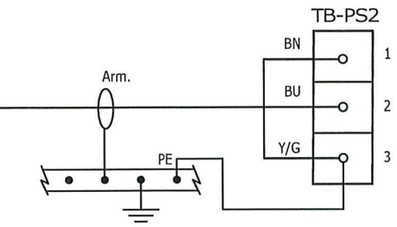
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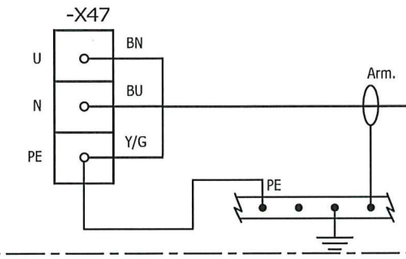
84304-CEL
3G2.5 mm²

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

SS 87-10



-X47

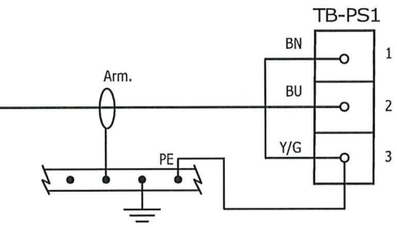


84305-CEL
3G2.5 mm²

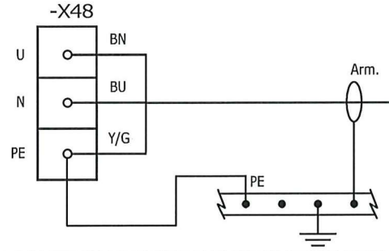
NO MARK UP
MARCO MORETTO
21/3/25

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

SS 87-00



-X48

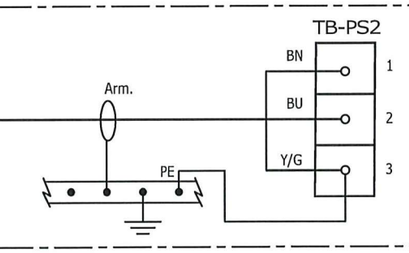


84306-CEL
3G2.5 mm²

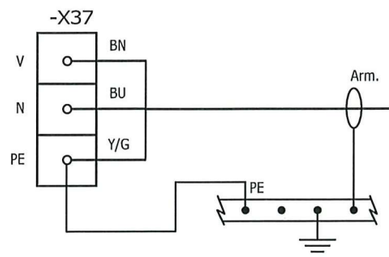
NO MARK UP
MARCO MORETTO
21/3/25

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

SS 87-00



-X37

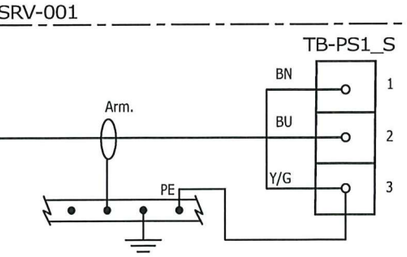


84307-CEL
3G6 mm²

NO MARK UP
MARCO MORETTO
21/3/25

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

SS 86-00



AS COMMISSIONED: MATTIA GIRGIS
21/3/25

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

REV.:	DATE:	SIGNATURE:
2_F	09/01/25	G.Randi

ROSETTI MARINO SpA

CROSSWIND

ROSETTI MARINO

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

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. 02

F.to UNI A3: 420mmx297mm

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

Section 4.3 Instrumentation functional test sheets index

NOT APPLICABLE

Section 4.4 Instrumentation “As-Commissioned” interconnection diagrams

BASE LOAD POWER HUB (BLPH)
PCS CABINETS
WIRING DIAGRAMS AND TERMINAL STRIPS

AS COMMISSIONING
10-05-2025
GIANDONATO DEL MISSIER
NO MARK UP

2	11.11.2024	A.G.	A.B.	S.C.	ACCEPTED FOR CONSTRUCTION (AFC)
1	13.09.2024	A.G.	A.B.	S.C.	ISSUE FOR REVIEW (IFR)
0	03.07.2024	A.G.	A.B.	S.C.	ISSUE FOR REVIEW (IFR)
REV	DATE	PREPARED	CHECKED	APPROVED	DESCRIPTION

YOKOGAWA ◆ PROJECT Nr. E36672C00
DESCRIPTION: E366772C00-PCS_WD

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
PCS CABINETS 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-00020

SHEET 001

REV. 2

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									BASE LOAD POWER HUB (BLPH) LEGEND
004	X	X								BASE LOAD POWER HUB (BLPH) SYMBOL LEGEND
005	X	X								BASE LOAD POWER HUB (BLPH) TYPICAL WIRE MARKING & EARTH BAR CONNECTION DETAILS
006	X		X							BASE LOAD POWER HUB (BLPH) PCS PANEL - 230Vac POWER DISTRIBUTION FROM UPS LINE 1
007		X								BASE LOAD POWER HUB (BLPH) PCS PANEL - 230Vac POWER DISTRIBUTION FROM UPS LINE 1
008	X		X							BASE LOAD POWER HUB (BLPH) PCS PANEL - 230Vac POWER DISTRIBUTION FROM UPS LINE 2
009		X								BASE LOAD POWER HUB (BLPH) PCS PANEL - 230Vac POWER DISTRIBUTION FROM UPS LINE 2
010	X		X							BASE LOAD POWER HUB (BLPH) PCS PANEL - 230Vac POWER DISTRIBUTION FROM NON-UPS
011	X	X								BASE LOAD POWER HUB (BLPH) PCS PANEL - 230Vac POWER DISTRIBUTION FROM NON-UPS
012	X	X	X							BASE LOAD POWER HUB (BLPH) PCS PANEL - 230Vac 50Hz POWER DISTRIBUTION VENTILATION FAN
013	X		X							BASE LOAD POWER HUB (BLPH) PCS PANEL - TB FAULT SIGNALS
014	X	X	X							BASE LOAD POWER HUB (BLPH) PCS PANEL - 230Vac / 24Vdc POWER DISTRIBUTION
015	X	X	X							BASE LOAD POWER HUB (BLPH) PCS PANEL - 230Vac/12Vdc POWER DISTRIBUTION
016	X	X								BASE LOAD POWER HUB (BLPH) PCS PANEL - BREAKER FAULT ALARM CIRCUIT
017	X		X							BASE LOAD POWER HUB (BLPH) PCS PANEL - SHIELD / GROUND CONNECTION
018	X	X	X							BASE LOAD POWER HUB (BLPH) PCS PANEL - FAULT ALARM SIGNALS TO DCS
019		X								BASE LOAD POWER HUB (BLPH) PCS PANEL - FAULT ALARM SIGNALS TO DCS
020	X		X							BASE LOAD POWER HUB (BLPH) PCS PANEL - 24Vdc POWER DISTRIBUTION

PAG. NR.	REVISION 0	1	2	3	4	5	6	7	8	TITLE
021	X	X	X							BASE LOAD POWER HUB (BLPH) PCS PANEL - RACK "1" POWER DISTRIBUTION
022	X	X	X							BASE LOAD POWER HUB (BLPH) PCS PANEL - RACK "2" POWER DISTRIBUTION
023	X	X	X							BASE LOAD POWER HUB (BLPH) PCS PANEL - RACK "3" POWER DISTRIBUTION
024	X	X	X							BASE LOAD POWER HUB (BLPH) PCS PANEL - RACK "4" POWER DISTRIBUTION
025	X	X								BASE LOAD POWER HUB (BLPH) PCS PANEL - TYPICAL WIRING DIGITAL INPUT/OUTPUT
026	X	X								BASE LOAD POWER HUB (BLPH) PCS PANEL - TYPICAL WIRING ANALOG INPUT/OUTPUT
027	X	X								BASE LOAD POWER HUB (BLPH) SPARE PAGE
028	X	X	X							BASE LOAD POWER HUB (BLPH) PCS PANEL -TB-00-JE-11001
029	X	X	X							BASE LOAD POWER HUB (BLPH) PCS PANEL -TB-00-JE-11002
030	X	X	X							BASE LOAD POWER HUB (BLPH) PCS PANEL -TB-00-JE-11003
031	X	X	X							BASE LOAD POWER HUB (BLPH) PCS PANEL -TB-00-JE-11004
032	X	X	X							BASE LOAD POWER HUB (BLPH) PCS PANEL -TB-00-JE-11005
033	X	X	X							BASE LOAD POWER HUB (BLPH) PCS PANEL -TB-00-JE-12001
034	X	X	X							BASE LOAD POWER HUB (BLPH) PCS PANEL -TB-00-JE-12002
035	X	X	X							BASE LOAD POWER HUB (BLPH) PCS PANEL -TB-00-JE-12003
036	X	X	X							BASE LOAD POWER HUB (BLPH) PCS PANEL -TB-00-JE-12004
037	X	X	X							BASE LOAD POWER HUB (BLPH) PCS PANEL -TB-00-JE-12005
038	X	X	X							BASE LOAD POWER HUB (BLPH) PCS PANEL -TB-00-JE-12006
039	X	X	X							BASE LOAD POWER HUB (BLPH) PCS PANEL -TB-00-JE-13001
040	X	X	X							BASE LOAD POWER HUB (BLPH) PCS PANEL -TB-00-JE-13002

PAG. NR.	REVISION 0	1	2	3	4	5	6	7	8	TITLE
041	X	X	X							BASE LOAD POWER HUB (BLPH) PCS PANEL -TB-00-JE-13003
042	X	X	X							BASE LOAD POWER HUB (BLPH) PCS PANEL -TB-00-JE-BX00
043	X	X								BASE LOAD POWER HUB (BLPH) PCS PANEL -TB-C-63-PT-003

REV	DATE	PREPARED	CHECKED	APPROVED	DESCRIPTION
2	11.11.2024	A.G.	A.B.	S.C.	ACCEPTED FOR CONSTRUCTION (AFC)
1	13.09.2024	A.G.	A.B.	S.C.	ISSUE FOR REVIEW (IFR)
0	03.07.2024	A.G.	A.B.	S.C.	ISSUE FOR REVIEW (IFR)

YOKOGAWA ◆ PROJECT Nr. E36672C00
DESCRIPTION: E366772C00-PCS_WD

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
PCS CABINETS 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-00020

SHEET 002

REV. 2

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

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DESCRIPTION: E366772C00-PCS_WD

CROSSWIND | ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
PCS CABINETS WIRING DIAGRAMS AND TERMINAL STRIPS
LEGEND

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

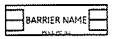
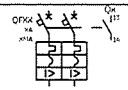
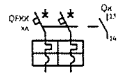
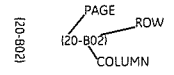
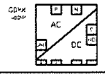
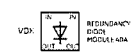
SCALE : 1

A3

DRAWING NO. 1724000594-IN-DG-00020

SHEET 003

REV. 2

	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
2	11.11.2024	A.G.	A.B.	S.C.	ACCEPTED FOR CONSTRUCTION (AFC)
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0	03.07.2024	A.G.	A.B.	S.C.	ISSUE FOR REVIEW (IFR)

YOKOGAWA ◆ PROJECT Nr. E36672C00
DESCRIPTION: E366772C00-PCS_WD

CROSSWIND | ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
PCS CABINETS 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-00020

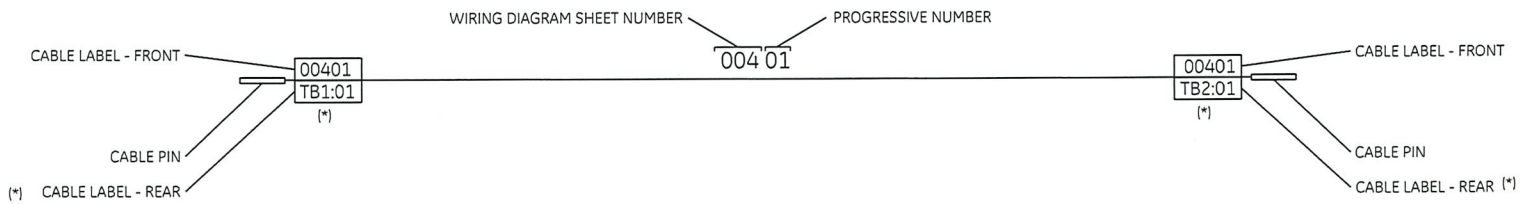
SHEET 004

REV. 2

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

AS COMMISSIONING
10.05.2025
GIANDONATO DOC MISSIER
NO MARK UP

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

CROSSWIND | ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
PCS CABINETS 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

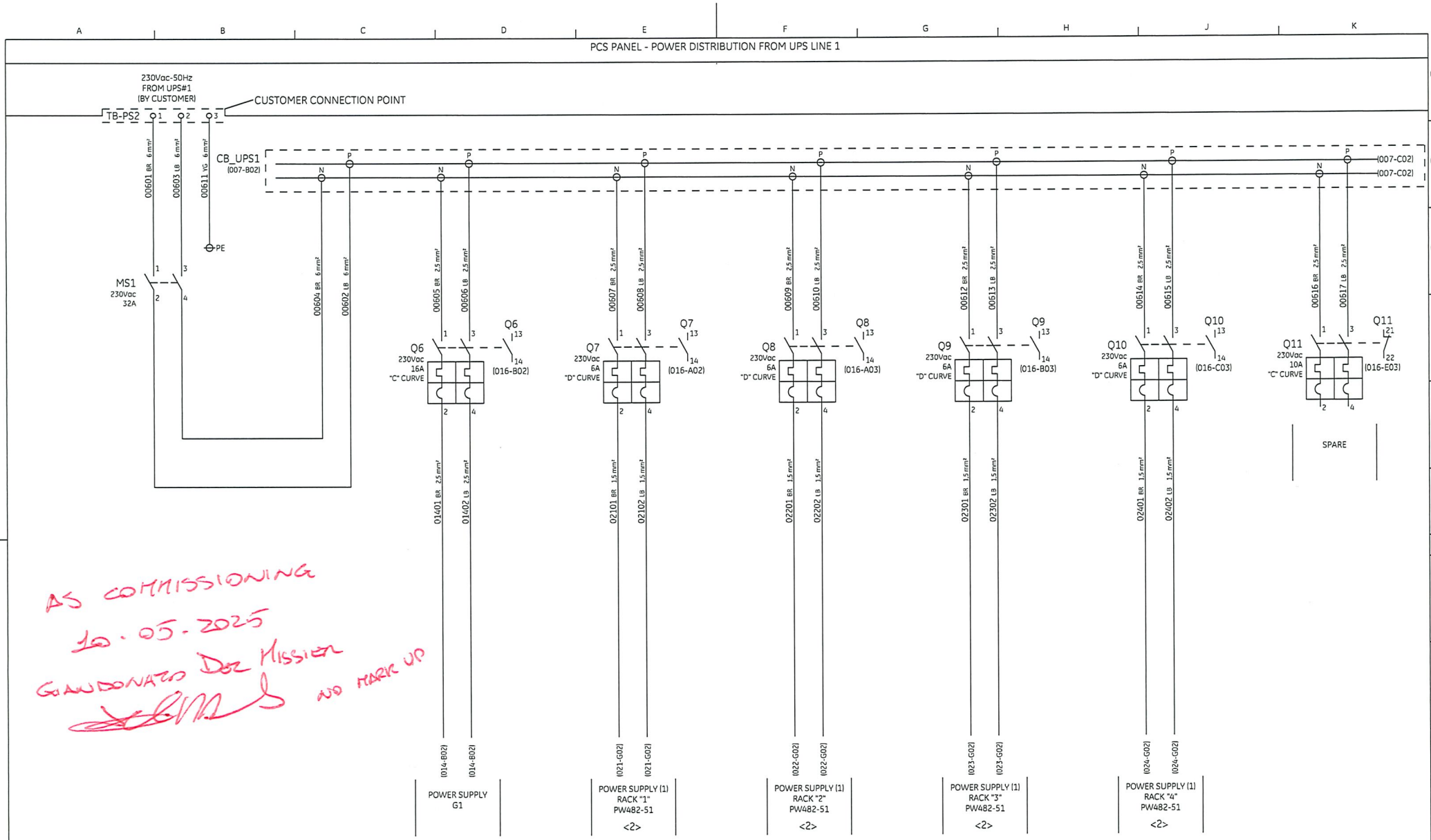
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DRAWING NO. 1724000594-IN-DG-00020

SHEET 005

REV. 2



AS COMMISSIONING
10.05.2025
GAUDENATO DOC MISSIER
NO MARK UP

REV	DATE	PREPARED	CHECKED	APPROVED	DESCRIPTION
2	11.11.2024	A.G.	A.B.	S.C.	ACCEPTED FOR CONSTRUCTION (AFC)
1	13.09.2024	A.G.	A.B.	S.C.	ISSUE FOR REVIEW (IFR)
0	03.07.2024	A.G.	A.B.	S.C.	ISSUE FOR REVIEW (IFR)

YOKOGAWA ◆ PROJECT Nr. E36672C00
DESCRIPTION: E366772C00-PCS_WD

CROSSWIND | ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
PCS CABINETS WIRING DIAGRAMS AND TERMINAL STRIPS
PCS PANEL - 230Vac POWER DISTRIBUTION FROM UPS LINE 1

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

SCALE : 1

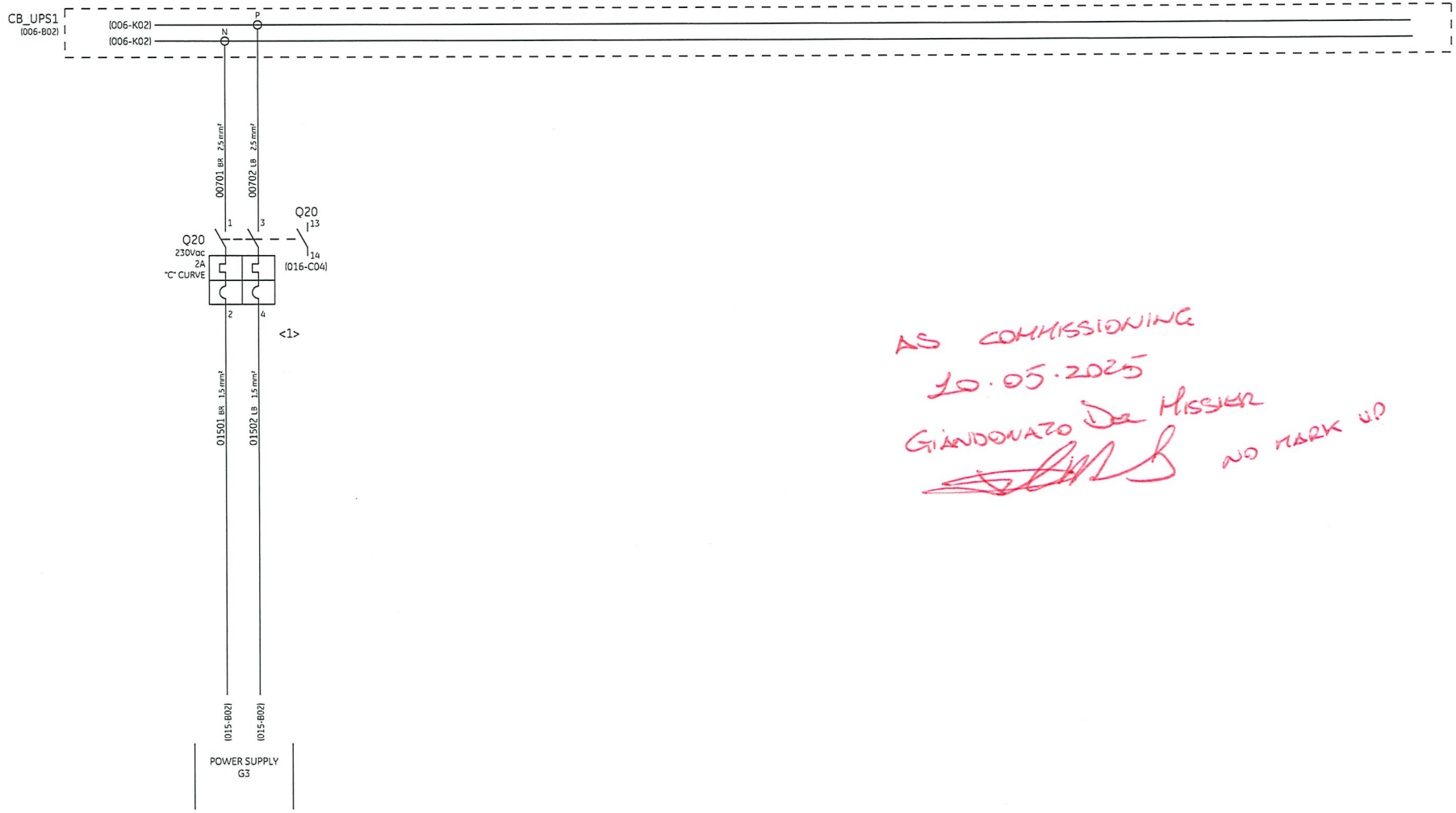
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DRAWING NO. 1724000594-IN-DG-00020

SHEET 006

REV. 2

PCS PANEL - POWER DISTRIBUTION FROM UPS LINE 1



AS COMMISSIONING
10.05.2025
GIANDONATO De MISSIER
NO MARK UP

REV	DATE	PREPARED	CHECKED	APPROVED	DESCRIPTION
2	11.11.2024	A.G.	A.B.	S.C.	ACCEPTED FOR CONSTRUCTION (AFC)
1	13.09.2024	A.G.	A.B.	S.C.	ISSUE FOR REVIEW (IFR)
0	03.07.2024	A.G.	A.B.	S.C.	ISSUE FOR REVIEW (IFR)

YOKOGAWA ◆ PROJECT Nr. E36672C00
DESCRIPTION: E366772C00-PCS_WD

CROSSWIND | ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
PCS CABINETS WIRING DIAGRAMS AND TERMINAL STRIPS
PCS PANEL - 230Vac POWER DISTRIBUTION FROM UPS LINE 1

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

SCALE : 1

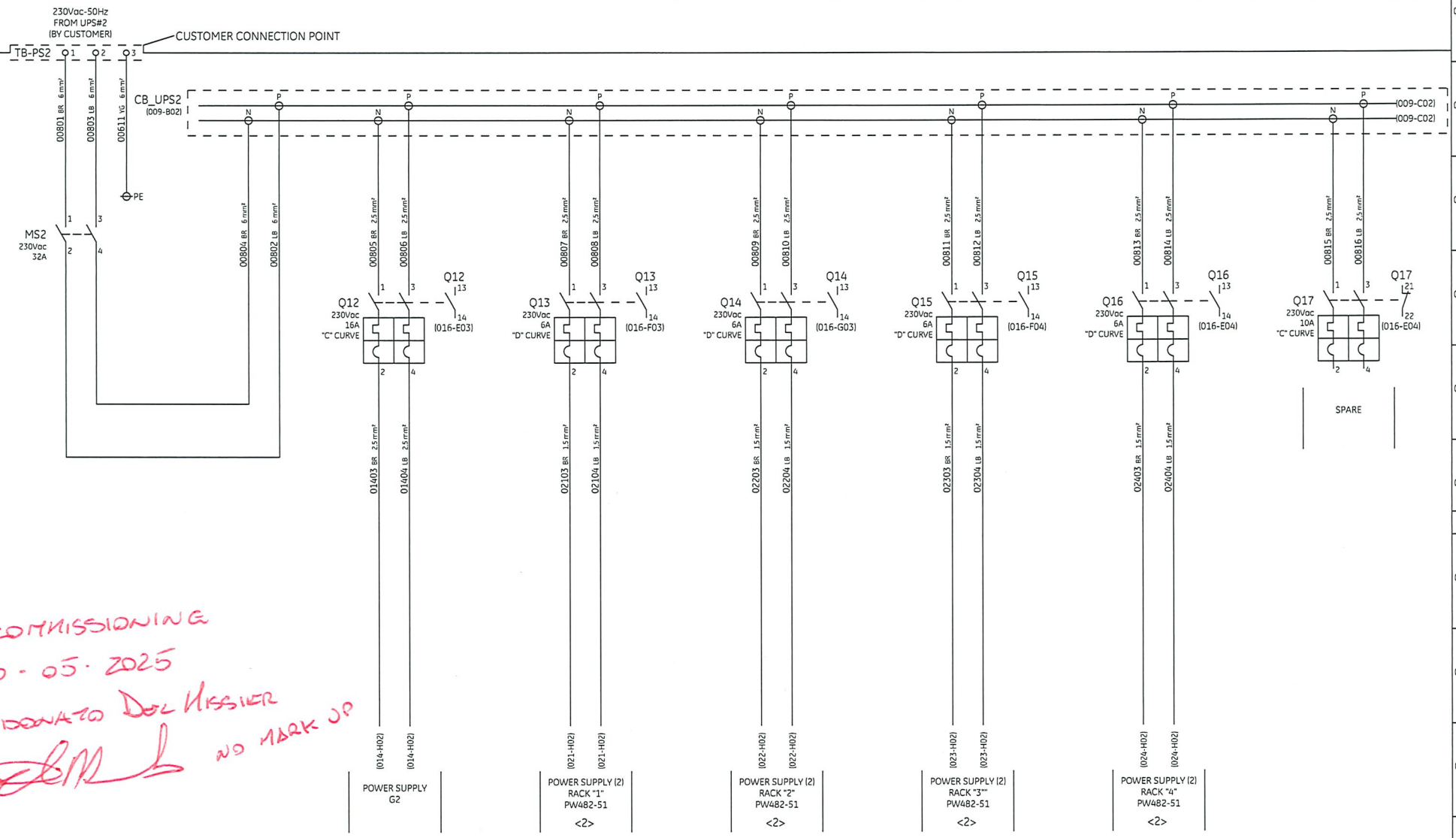
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DRAWING NO. 1724000594-IN-DG-00020

SHEET 007

REV. 2

PCS PANEL - POWER DISTRIBUTION FROM UPS LINE 2



AS COMMISSIONING
10-05-2025
GIANDONATO DEL MISSIER
NO MARK UP

REV	DATE	PREPARED	CHECKED	APPROVED	DESCRIPTION
2	11.11.2024	A.G.	A.B.	S.C.	ACCEPTED FOR CONSTRUCTION (AFC)
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0	03.07.2024	A.G.	A.B.	S.C.	ISSUE FOR REVIEW (IFR)

YOKOGAWA ◆ PROJECT Nr. E36672C00
DESCRIPTION: E366772C00-PCS_WD

CROSSWIND | ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
PCS CABINETS WIRING DIAGRAMS AND TERMINAL STRIPS
PCS PANEL - 230Vac POWER DISTRIBUTION FROM UPS LINE 2

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

SCALE : 1

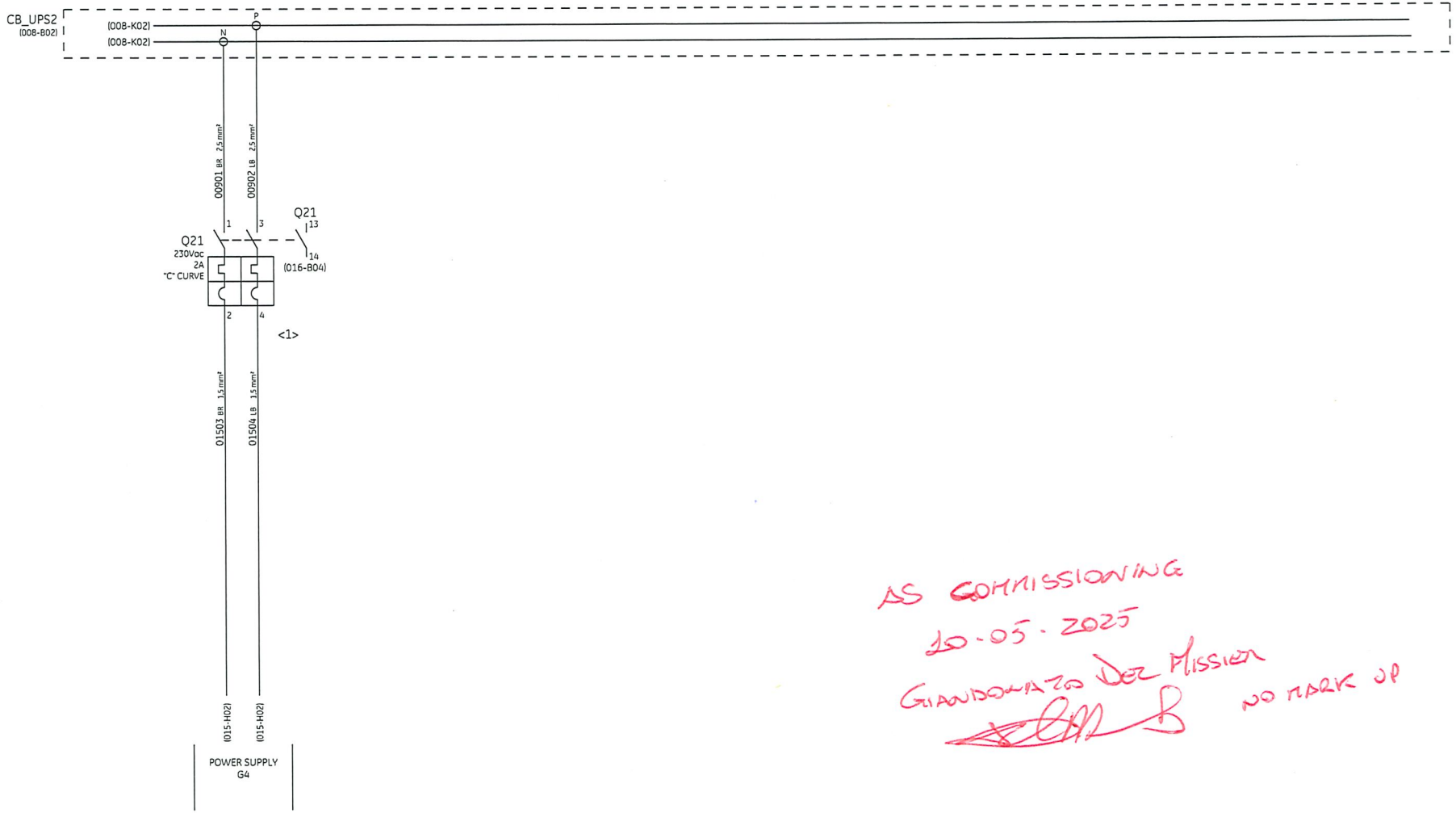
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DRAWING NO. 1724000594-IN-DG-00020

SHEET 008

REV. 2

PCS PANEL - POWER DISTRIBUTION FROM UPS LINE 2



AS COMMISSIONING
10-05-2025
GIANDOMENICO DEL MISSIER
NO MARK UP

REV	DATE	PREPARED	CHECKED	APPROVED	DESCRIPTION
2	11.11.2024	A.G.	A.B.	S.C.	ACCEPTED FOR CONSTRUCTION (AFC)
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0	03.07.2024	A.G.	A.B.	S.C.	ISSUE FOR REVIEW (IFR)

YOKOGAWA ◆ PROJECT Nr. E36672C00
DESCRIPTION: E366772C00-PCS_WD

CROSSWIND | ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
PCS CABINETS WIRING DIAGRAMS AND TERMINAL STRIPS
PCS PANEL - 230Vac POWER DISTRIBUTION FROM UPS LINE 2

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

SCALE : 1

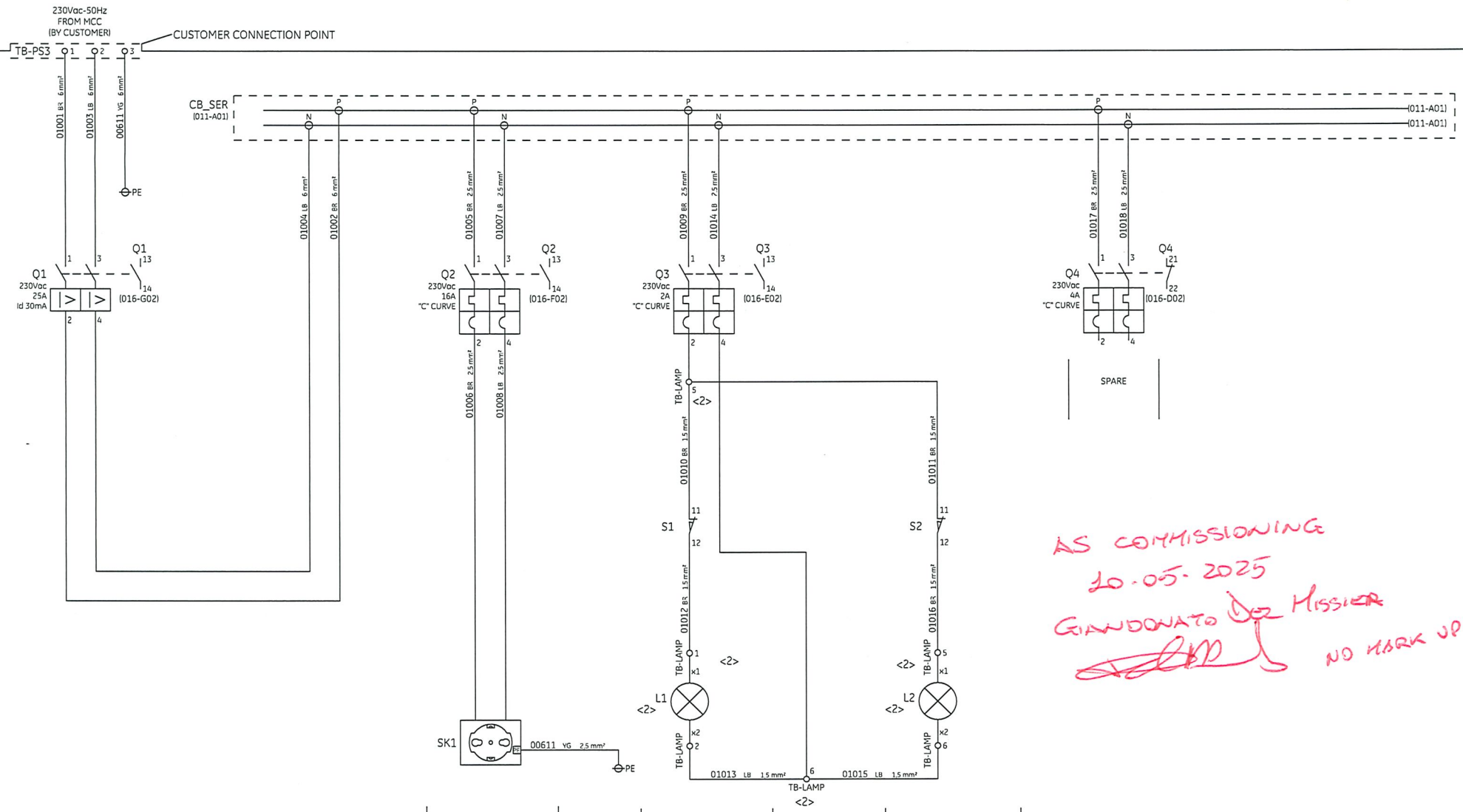
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DRAWING NO. 1724000594-IN-DG-00020

SHEET 009

REV. 2

PCS PANEL - POWER DISTRIBUTION FROM NON UPS



AS COMMISSIONING
10-05-2025
GIANDONATO Dr Missier
NO MARK UP

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-PCS_WD

CROSSWIND | ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
PCS CABINETS WIRING DIAGRAMS AND TERMINAL STRIPS
PCS PANEL - 230Vac POWER DISTRIBUTION FROM NON-UPS

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

SCALE : 1

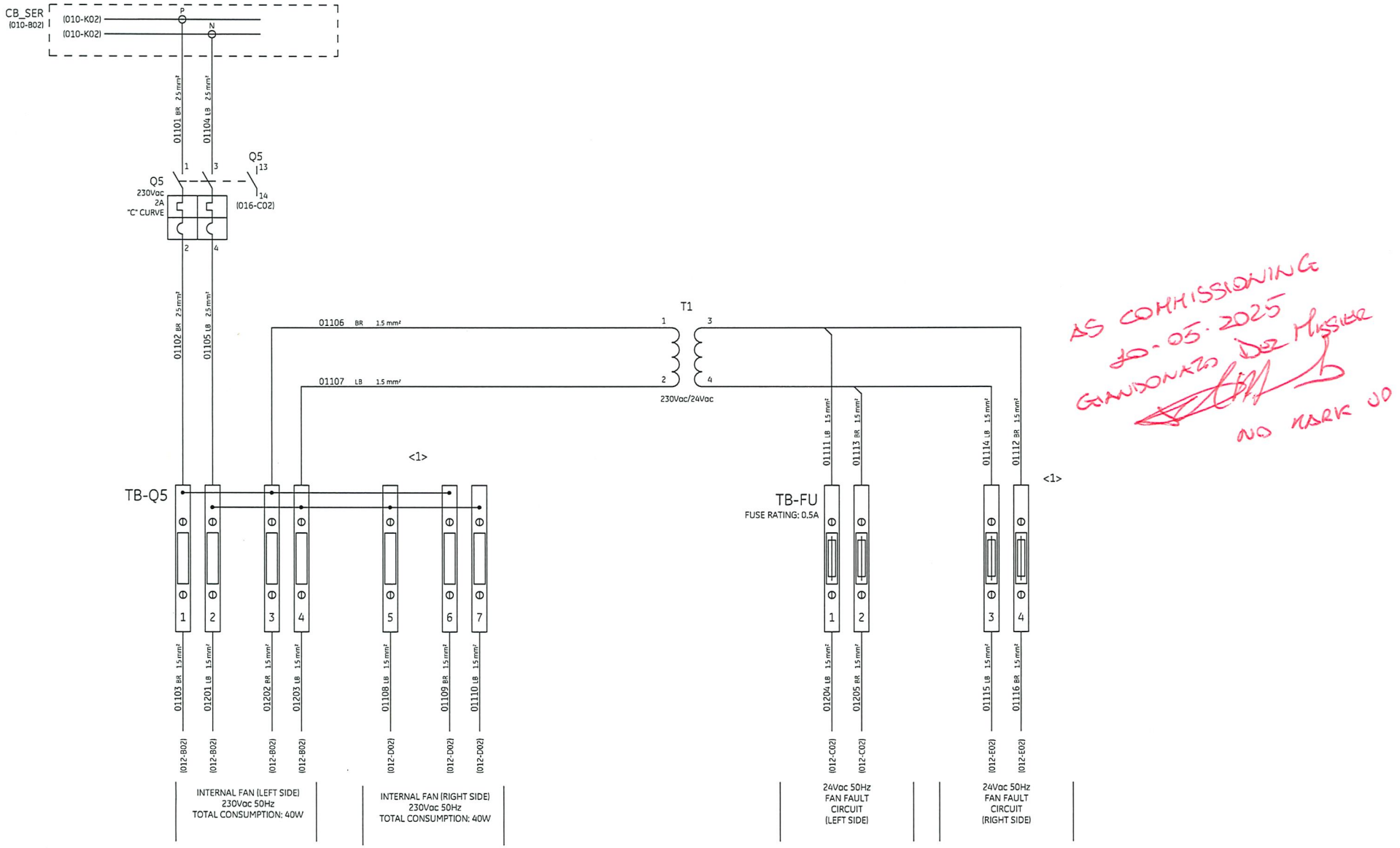
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DRAWING NO. 1724000594-IN-DG-00020

SHEET 010

REV. 2

PCS PANEL - POWER DISTRIBUTION FROM NON UPS



AS COMMISSIONING
20-05-2025
GIANDONATO DE MISSIER
NO MARK UP

REV	DATE	PREPARED	CHECKED	APPROVED	DESCRIPTION
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DESCRIPTION: E366772C00-PCS_WD

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
PCS CABINETS WIRING DIAGRAMS AND TERMINAL STRIPS
PCS PANEL - 230Vac POWER DISTRIBUTION FROM NON-UPS

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

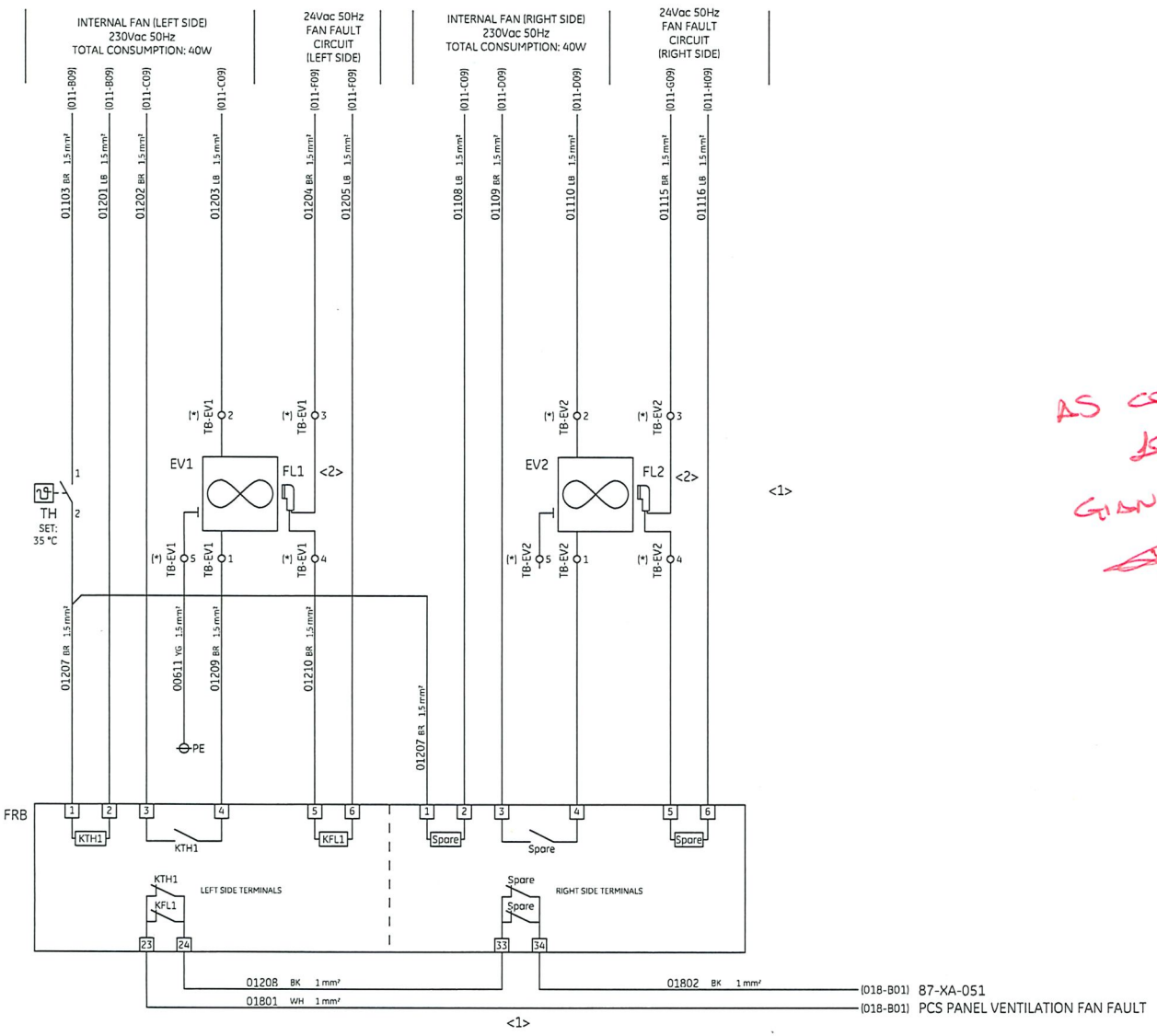
SCALE : 1

A3

DRAWING NO. 1724000594-IN-DG-00020

SHEET 011

REV. 2



AS COMMISSIONING
10-05-2025
GIANDONATO DE MISSIER
NO MARKUP

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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DESCRIPTION: E366772C00-PCS_WD

CROSSWIND | ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
PCS CABINETS WIRING DIAGRAMS AND TERMINAL STRIPS
PCS PANEL - 230Vac 50Hz POWER DISTRIBUTION VENTILATION FAN

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

SCALE : 1

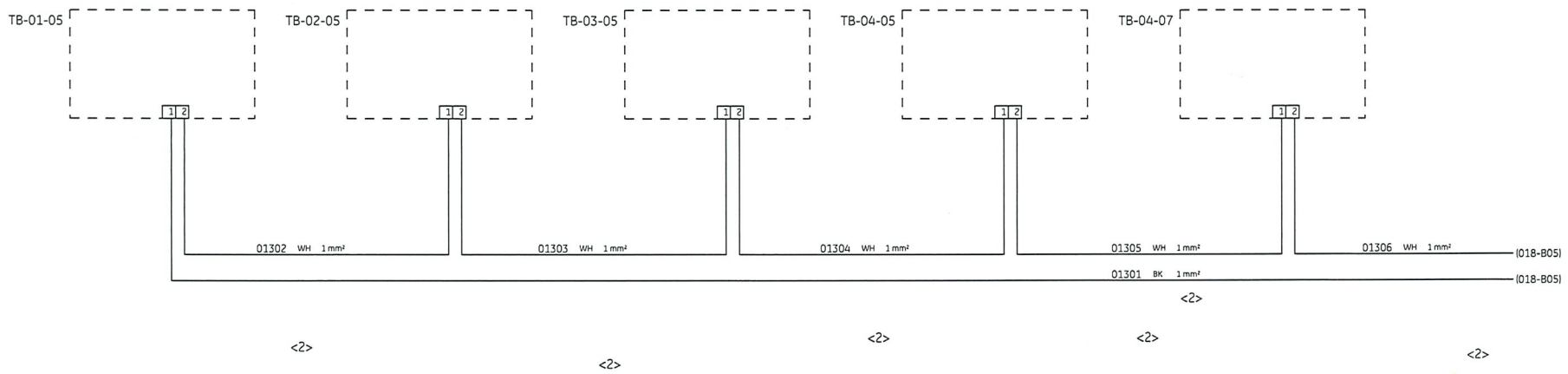
A3

DRAWING NO. 1724000594-IN-DG-00020

SHEET 012

REV. 2

PCS PANEL - TB FAULT SIGNALS



AS COMMISSIONING
10-05-2025
GIANDONATO DA MASSIA
NO MARK UP

REV	DATE	PREPARED	CHECKED	APPROVED	DESCRIPTION
2	11.11.2024	A.G.	A.B.	S.C.	ACCEPTED FOR CONSTRUCTION (AFC)
1	13.09.2024	A.G.	A.B.	S.C.	ISSUE FOR REVIEW (IFR)
0	03.07.2024	A.G.	A.B.	S.C.	ISSUE FOR REVIEW (IFR)

YOKOGAWA ◆ PROJECT Nr. E36672C00
DESCRIPTION: E366772C00-PCS_WD

CROSSWIND | ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
PCS CABINETS WIRING DIAGRAMS AND TERMINAL STRIPS
PCS PANEL - TB FAULT SIGNALS

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

SCALE : 1

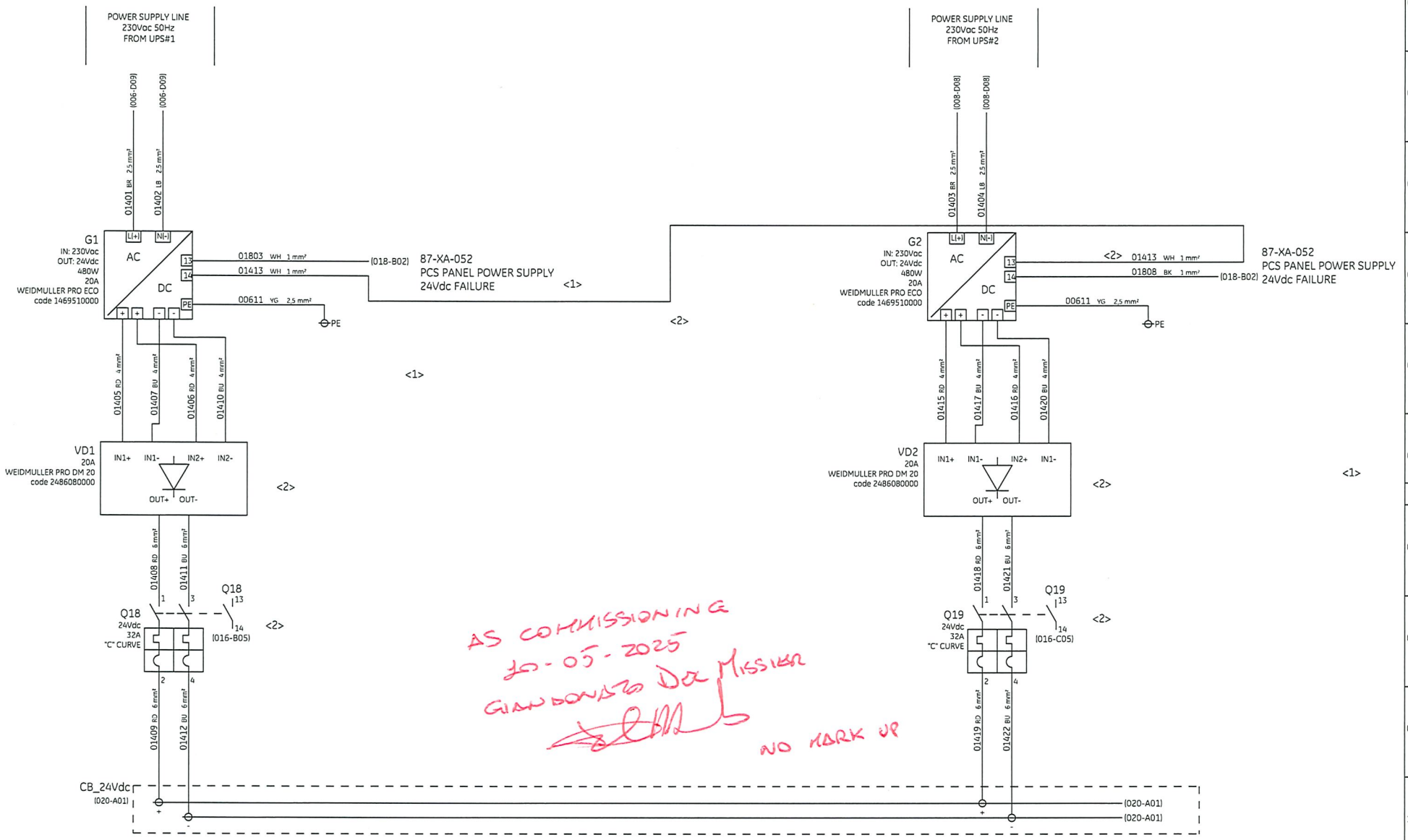
A3

DRAWING NO. 1724000594-IN-DG-00020

SHEET 013

REV. 2

PCS PANEL - 230Vac/24Vdc POWER DISTRIBUTION



REV	DATE	PREPARED	CHECKED	APPROVED	DESCRIPTION
2	11.11.2024	A.G.	A.B.	S.C.	ACCEPTED FOR CONSTRUCTION (AFC)
1	13.09.2024	A.G.	A.B.	S.C.	ISSUE FOR REVIEW (IFR)
0	03.07.2024	A.G.	A.B.	S.C.	ISSUE FOR REVIEW (IFR)

TITLE : BASE LOAD POWER HUB (BLPH)
PCS CABINETS WIRING DIAGRAMS AND TERMINAL STRIPS
PCS PANEL - 230Vac / 24Vdc POWER DISTRIBUTION

YOKOGAWA ◆ PROJECT Nr. E36672C00
DESCRIPTION: E366772C00-PCS_WD

CROSSWIND | ROSETTI MARINO

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

SCALE : 1

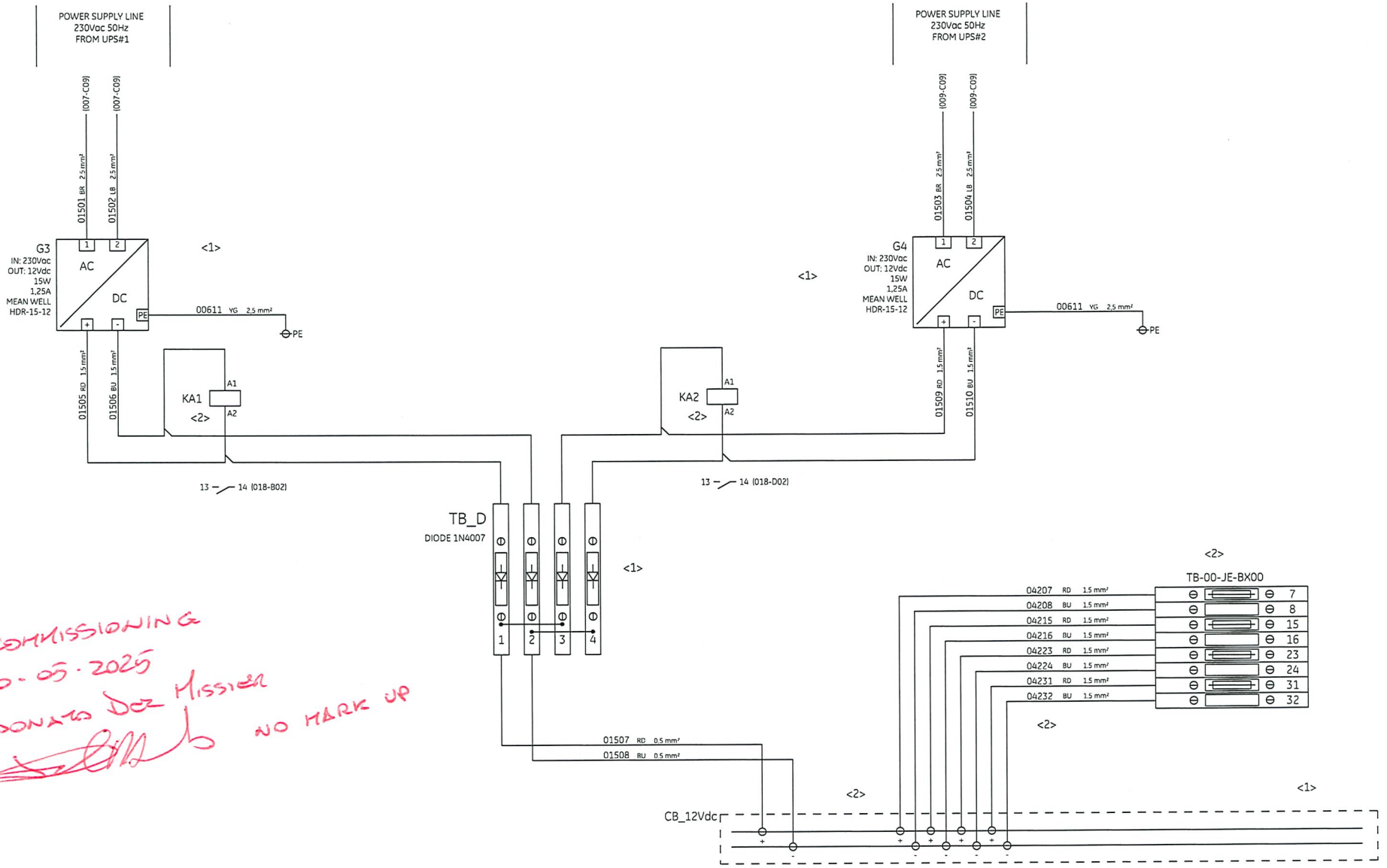
A3

DRAWING NO. 1724000594-IN-DG-00020

SHEET 014

REV. 2

PCS PANEL - 230Vac/12Vdc POWER DISTRIBUTION



AS COMMISSIONING
10-05-2025
GIANDONATO DE MISSIER
NO MARK UP

REV	DATE	PREPARED	CHECKED	APPROVED	DESCRIPTION
2	11.11.2024	A.G.	A.B.	S.C.	ACCEPTED FOR CONSTRUCTION (AFC)
1	13.09.2024	A.G.	A.B.	S.C.	ISSUE FOR REVIEW (IFR)
0	03.07.2024	A.G.	A.B.	S.C.	ISSUE FOR REVIEW (IFR)

YOKOGAWA ◆ PROJECT Nr. E36672C00
DESCRIPTION: E366772C00-PCS_WD

CROSSWIND | ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
PCS CABINETS WIRING DIAGRAMS AND TERMINAL STRIPS
PCS PANEL - 230Vac/12Vdc POWER DISTRIBUTION

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

SCALE : 1

A3

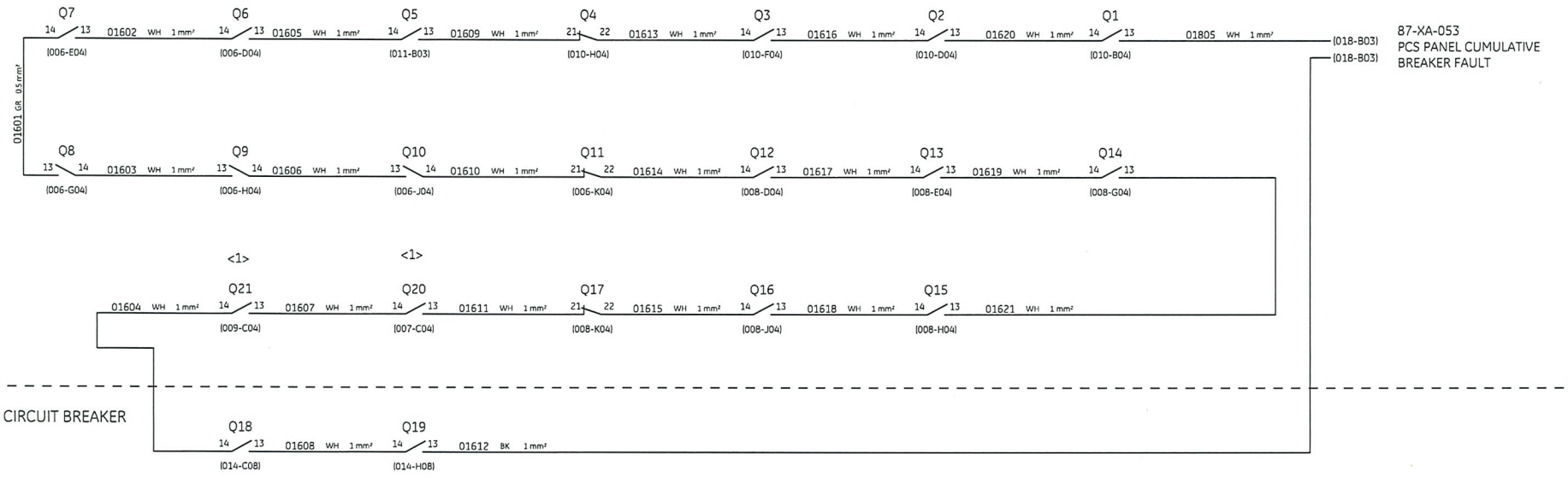
DRAWING NO. 1724000594-IN-DG-00020

SHEET 015

REV. 2

PCS PANEL - BRAKER FAULT ALARM CIRCUIT

230Vac CIRCUIT BREAKER



87-XA-053
PCS PANEL CUMULATIVE
BREAKER FAULT

AS COMMISSIONING
10-05-2025
GIANDONATO DEL MISSIER
NO MARK UP

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
2	11.11.2024	A.G.	A.B.	S.C.	ACCEPTED FOR CONSTRUCTION (AFC)
1	13.09.2024	A.G.	A.B.	S.C.	ISSUE FOR REVIEW (IFR)
0	03.07.2024	A.G.	A.B.	S.C.	ISSUE FOR REVIEW (IFR)

YOKOGAWA ◆ PROJECT Nr. E36672C00
DESCRIPTION: E366772C00-PCS_WD

CROSSWIND | ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
PCS CABINETS WIRING DIAGRAMS AND TERMINAL STRIPS
PCS 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-00020

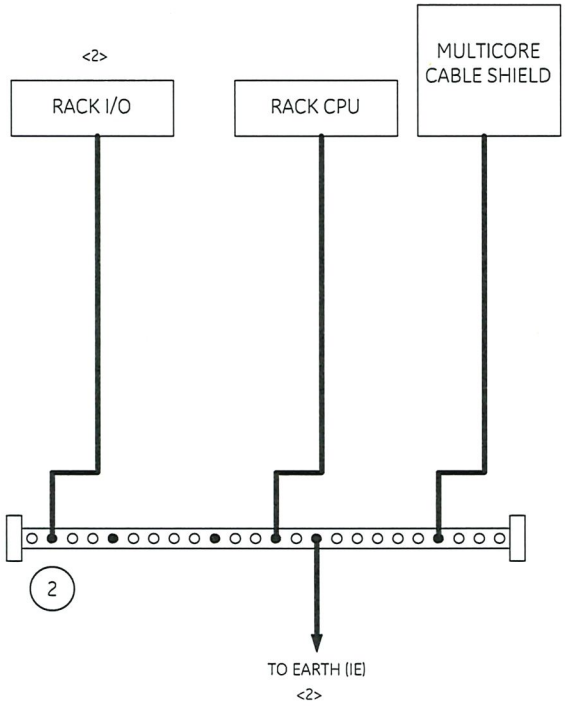
SHEET 016

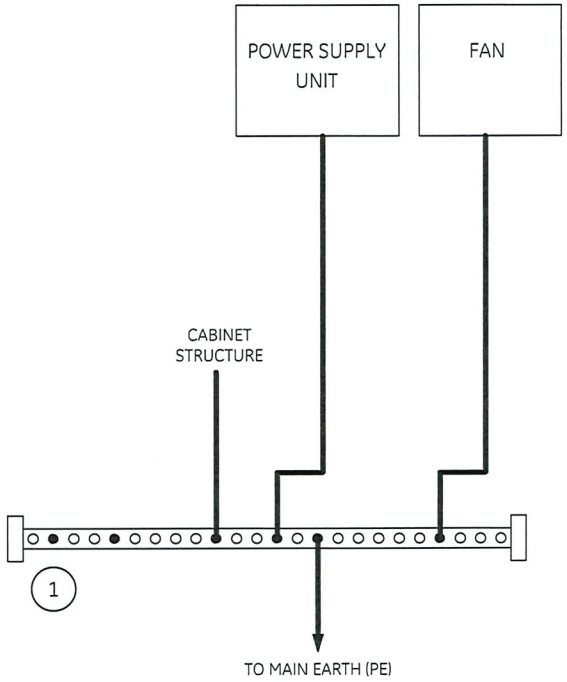
REV. 2

PCS PANEL - SHIELD/GROUND CONNECTION

AS COMMISSIONING
10-05-2025
GIANDOMENICO DE MISSIER
NO MARK UP

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
2	11.11.2024	A.G.	A.B.	S.C.	ACCEPTED FOR CONSTRUCTION (AFC)
1	13.09.2024	A.G.	A.B.	S.C.	ISSUE FOR REVIEW (IFR)
0	03.07.2024	A.G.	A.B.	S.C.	ISSUE FOR REVIEW (IFR)

YOKOGAWA ◆ PROJECT Nr. E36672C00
DESCRIPTION: E366772C00-PCS_WD

CROSSWIND | ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
PCS CABINETS WIRING DIAGRAMS AND TERMINAL STRIPS
PCS PANEL - SHIELD / GROUND CONNECTION

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

SCALE : 1

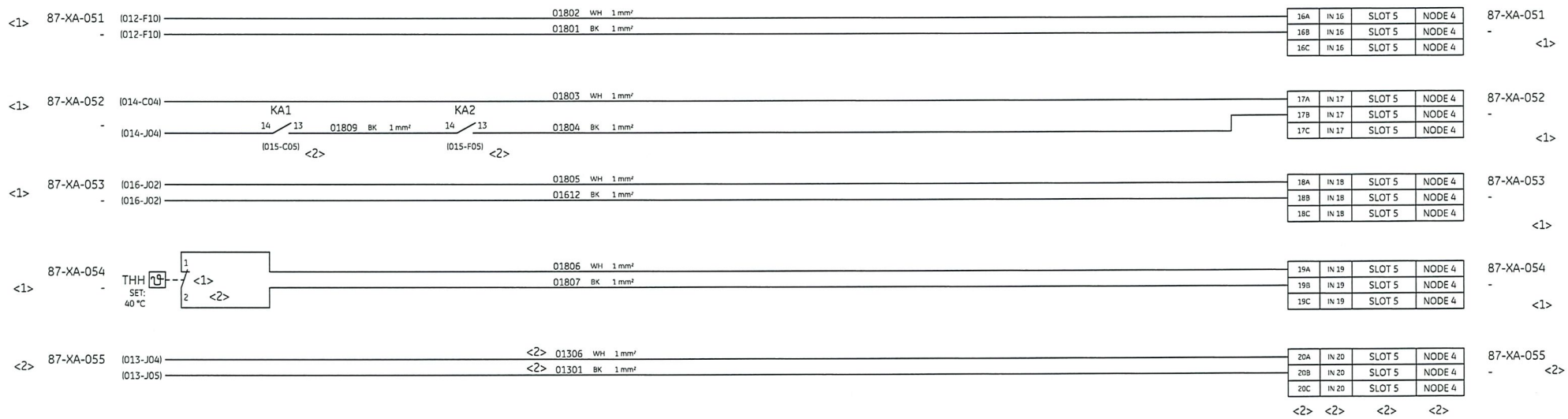
A3

DRAWING NO. 1724000594-IN-DG-00020

SHEET 017

REV. 2

PCS PANEL - FAULT ALARM SIGNALS TO PCS



AS COMMISSIONING
10-05-2025
GIANDONATO DEL MISSIER
NO MARK UP

CUSTOMER TAG	SIGNAL DESCRIPTION FROM IO LIST
87-XA-051	PCS PANEL VENTILATION FAN FAULT
87-XA-052	PCS PANEL POWER SUPPLY & DIODES FAILURE
87-XA-053	PCS PANEL CUMULATIVE BREAKER FAULT
<2> 87-XA-054	PCS PANEL HIGH TEMPERATURE ALARM
<2> 87-XA-055	PCS PANEL DIGITAL TB CUMULATIVE FAULT

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

REV	DATE	PREPARED	CHECKED	APPROVED	DESCRIPTION
2	11.11.2024	A.G.	A.B.	S.C.	ACCEPTED FOR CONSTRUCTION (AFC)
1	13.09.2024	A.G.	A.B.	S.C.	ISSUE FOR REVIEW (IFR)
0	03.07.2024	A.G.	A.B.	S.C.	ISSUE FOR REVIEW (IFR)

YOKOGAWA ◆ PROJECT Nr. E36672C00
DESCRIPTION: E366772C00-PCS_WD

CROSSWIND | ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
PCS CABINETS WIRING DIAGRAMS AND TERMINAL STRIPS
PCS PANEL - FAULT ALARM SIGNALS TO DCS

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

SCALE : 1

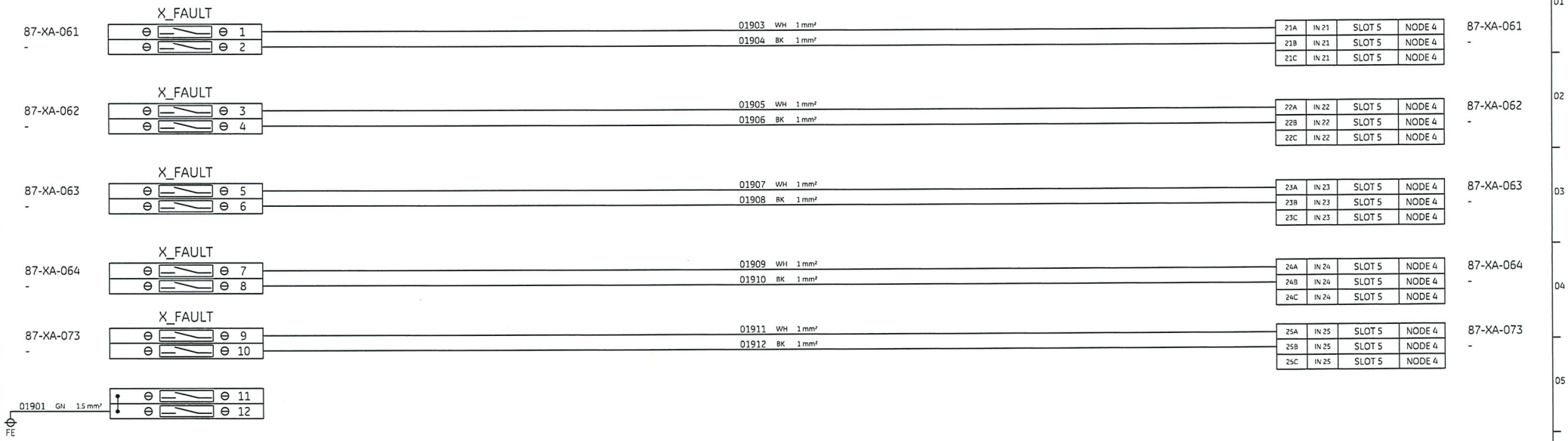
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DRAWING NO. 1724000594-IN-DG-00020

SHEET 018

REV. 2

PCS PANEL - FAULT ALARM SIGNALS TO PCS



AS COMMISSIONING
10-05-2025
GIANDONATO DEL MISSIER

NO MARK UP

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
97-XA-064	NET&SERV 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
2	11.11.2024	A.G.	A.B.	S.C.	ACCEPTED FOR CONSTRUCTION (AFC)
1	13.09.2024	A.G.	A.B.	S.C.	ISSUE FOR REVIEW (IFR)
0	03.07.2024	A.G.	A.B.	S.C.	ISSUE FOR REVIEW (IFR)

YOKOGAWA ◆ PROJECT Nr. E36672C00
DESCRIPTION: E366772C00-PCS_WD

CROSSWIND | ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
PCS CABINETS WIRING DIAGRAMS AND TERMINAL STRIPS
PCS PANEL - FAULT ALARM SIGNALS TO DCS

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

SCALE : 1

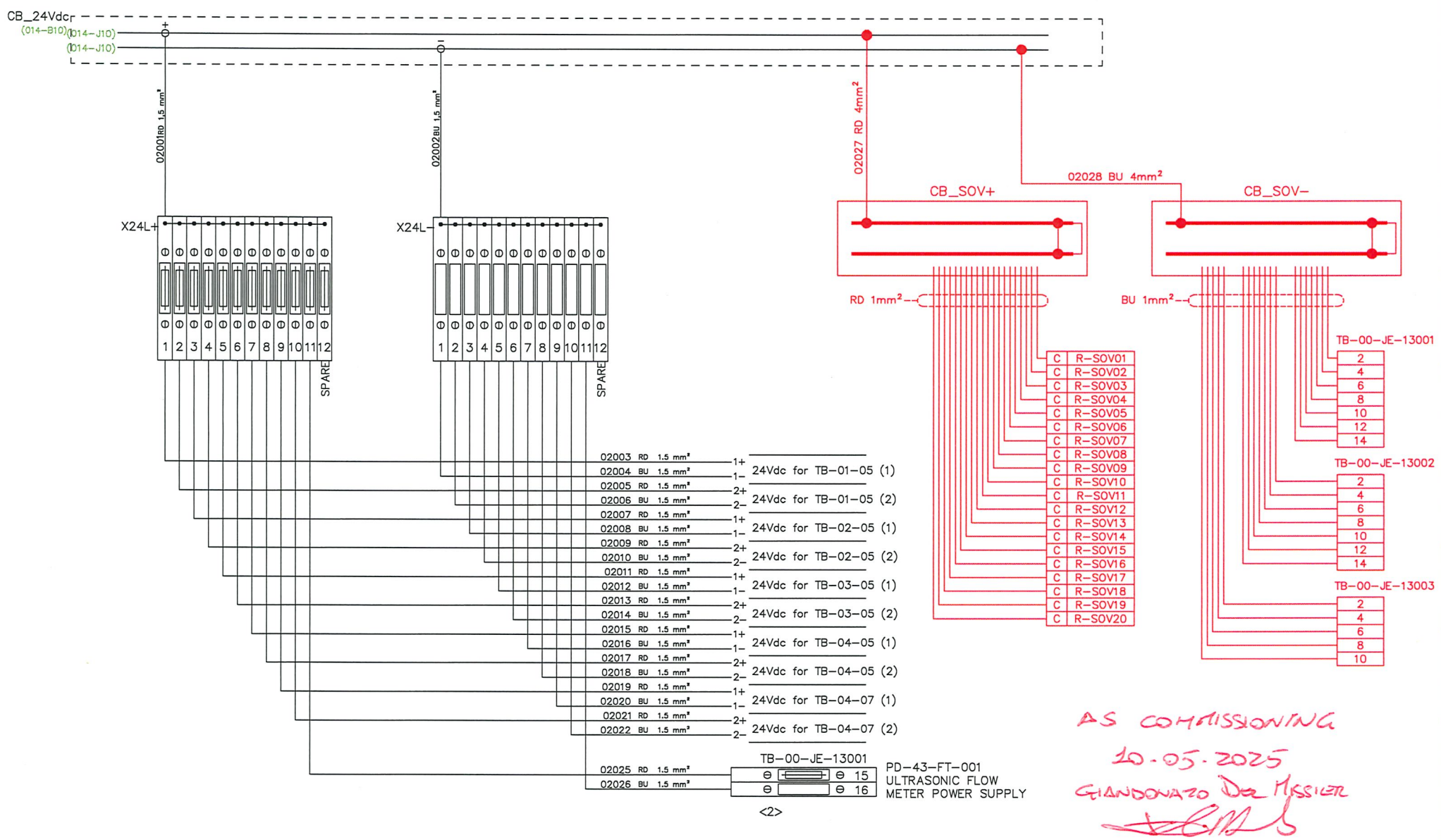
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DRAWING NO. 1724000594-IN-DG-00020

SHEET 019

REV. 2

PCS PANEL – 24Vdc POWER DISTRIBUTION



AS COMMISSIONING
10.05.2025
GIANDONATO DEL MASSIER

REV	DATE	PREPARED	CHECKED	APPROVED	DESCRIPTION
2	11.11.2024	A.G.	A.B.	S.C.	ACCEPTED FOR CONSTRUCTION (AFC)
1	13.09.2024	A.G.	A.B.	S.C.	ISSUE FOR REVIEW (IFR)
0	03.07.2024	A.G.	A.B.	S.C.	ISSUE FOR REVIEW (IFR)

YOKOGAWA
PROJECT Nr. E36672C00
DESCRIPTION: E366772C00–PCS_WD

TITLE : BASE LOAD POWER HUB (BLPH)
PCS CABINETS WIRING DIAGRAMS AND TERMINAL STRIPS
PCS PANEL – 24Vdc POWER DISTRIBUTION

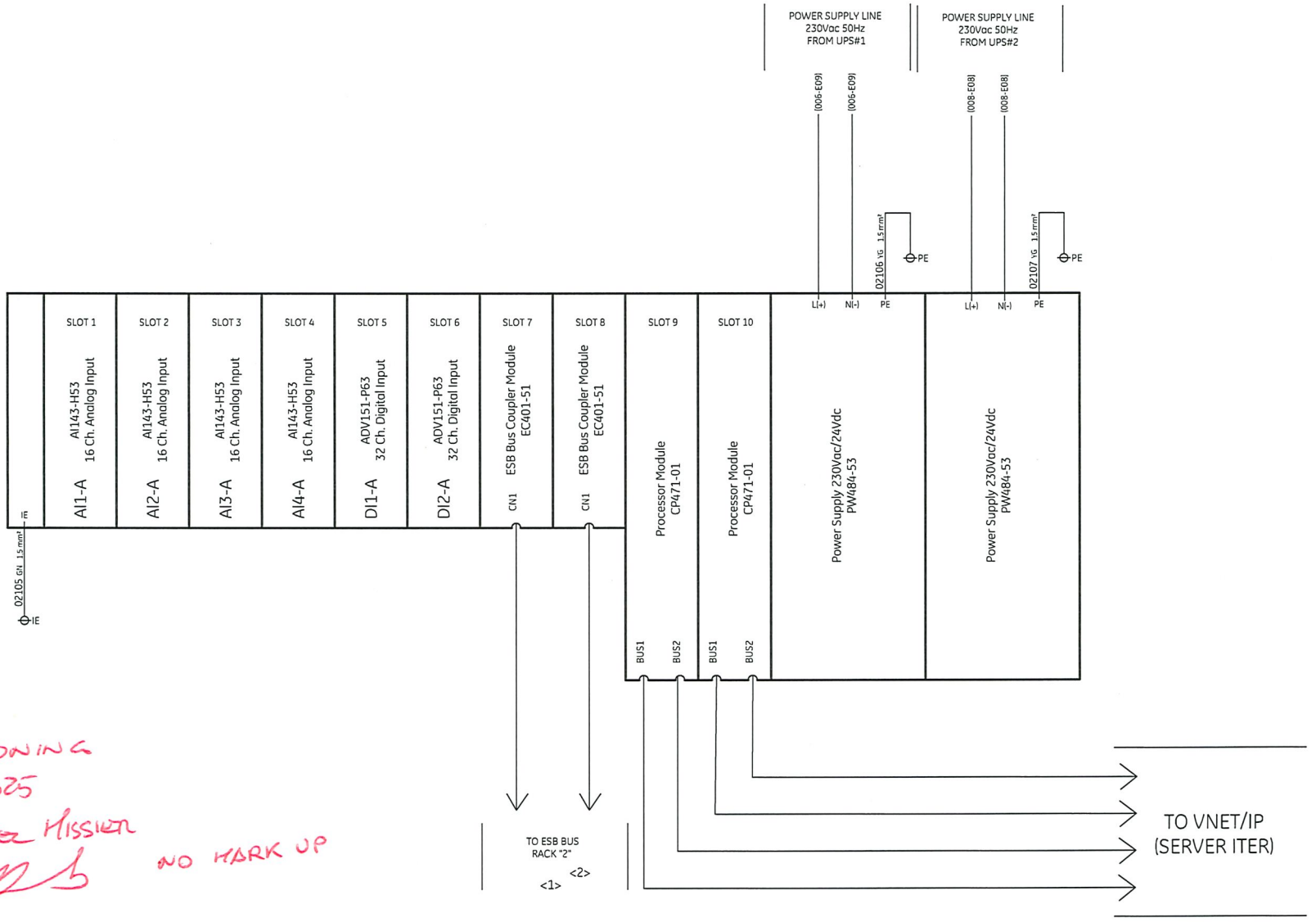
CONTRACT NO./TITLE CW–I–WP4–2023–05/HOLLANDSE KUST NOORD WIND PARK

A3

DRAWING NO. 1724000594–IN–DG–00020

SHEET 020

REV. 2



AS COMMISSIONING
10-05-2025
GIANDONATO DEL MISSIER
NO MARK UP

REFER TO DOC. N. 1724000594-IN-DG-00016
"NETWORK CONNECTION DIAGRAM" <2>

REV	DATE	PREPARED	CHECKED	APPROVED	DESCRIPTION
2	11.11.2024	A.G.	A.B.	S.C.	ACCEPTED FOR CONSTRUCTION (AFC)
1	13.09.2024	A.G.	A.B.	S.C.	ISSUE FOR REVIEW (IFR)
0	03.07.2024	A.G.	A.B.	S.C.	ISSUE FOR REVIEW (IFR)

YOKOGAWA ◆ PROJECT Nr. E36672C00
DESCRIPTION: E366772C00-PCS_WD

CROSSWIND | ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
PCS CABINETS WIRING DIAGRAMS AND TERMINAL STRIPS
PCS PANEL - RACK "1" POWER DISTRIBUTION

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

SCALE : 1

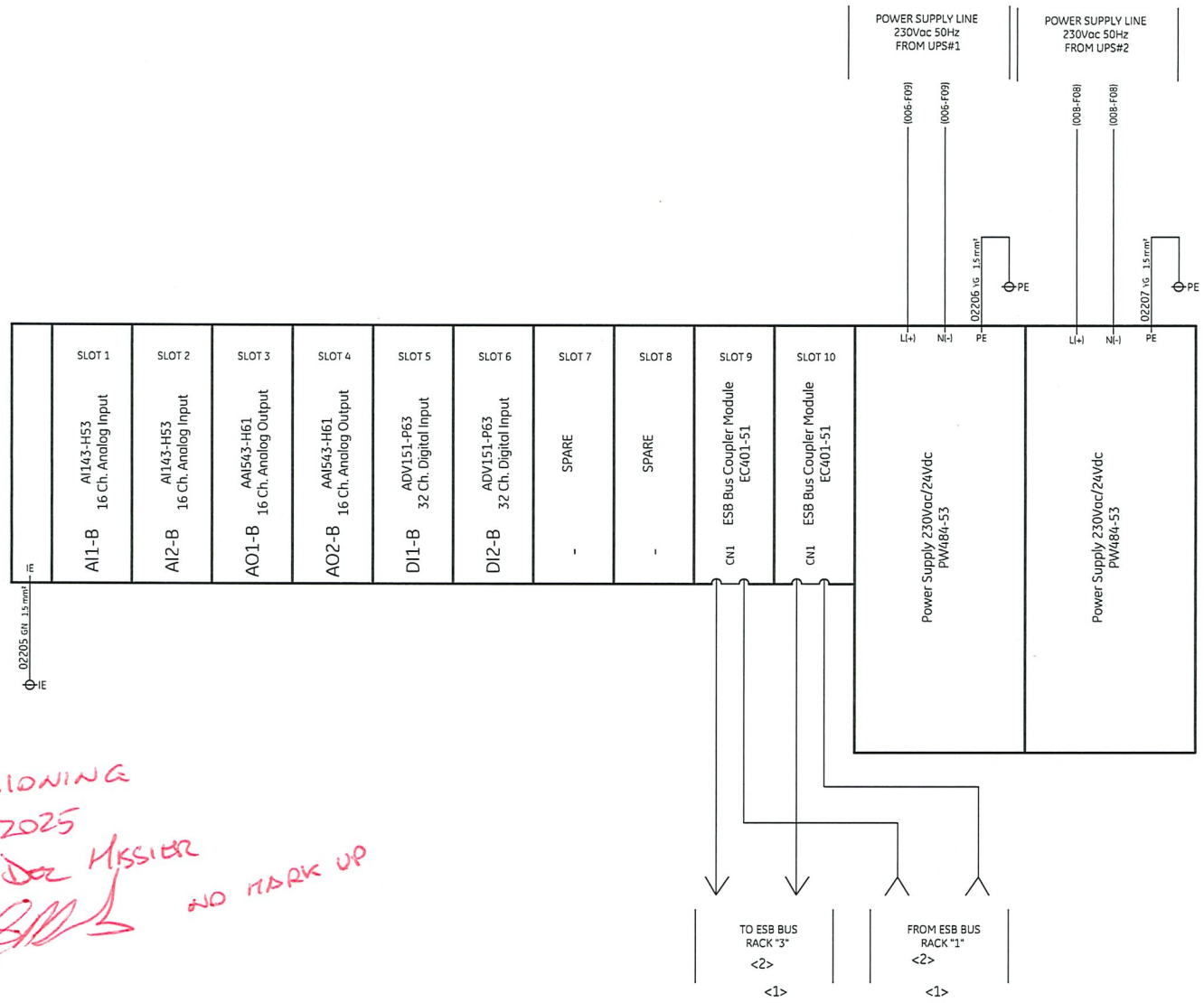
A3

DRAWING NO. 1724000594-IN-DG-00020

SHEET 021

REV. 2

PCS PANEL - RACK "2" POWER DISTRIBUTION <2>



AS COMMISSIONING
10-05-2025
HANDOVER DOC
NO MARK UP

REFER TO DOC. N. 1724000594-IN-DG-00016
"NETWORK CONNECTION DIAGRAM" <2>

REV	DATE	PREPARED	CHECKED	APPROVED	DESCRIPTION
2	11.11.2024	A.G.	A.B.	S.C.	ACCEPTED FOR CONSTRUCTION (AFC)
1	13.09.2024	A.G.	A.B.	S.C.	ISSUE FOR REVIEW (IFR)
0	03.07.2024	A.G.	A.B.	S.C.	ISSUE FOR REVIEW (IFR)

YOKOGAWA ◆ PROJECT Nr. E36672C00
DESCRIPTION: E366772C00-PCS_WD

CROSSWIND | ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
PCS CABINETS WIRING DIAGRAMS AND TERMINAL STRIPS
PCS PANEL - RACK "2" POWER DISTRIBUTION

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

SCALE : 1

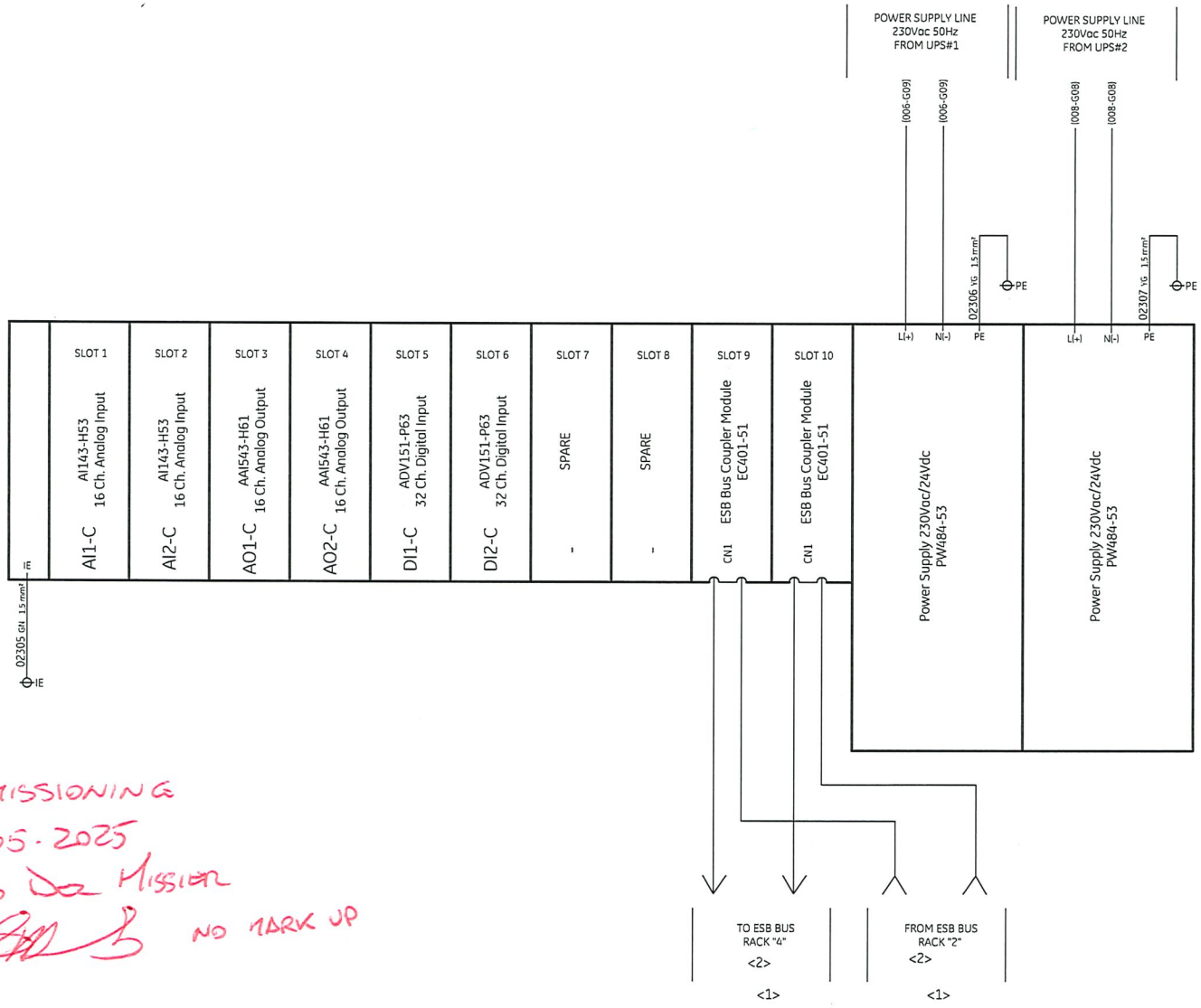
A3

DRAWING NO. 1724000594-IN-DG-00020

SHEET 022

REV. 2

PCS PANEL - RACK "3" POWER DISTRIBUTION <2>



AS COMMISSIONING
10.05.2025
GIANDONATO DE MISSIER
NO MARK UP

REFER TO DOC. N. 1724000594-IN-DG-00016
"NETWORK CONNECTION DIAGRAM" <2>

REV	DATE	PREPARED	CHECKED	APPROVED	DESCRIPTION
2	11.11.2024	A.G.	A.B.	S.C.	ACCEPTED FOR CONSTRUCTION (AFC)
1	13.09.2024	A.G.	A.B.	S.C.	ISSUE FOR REVIEW (IFR)
0	03.07.2024	A.G.	A.B.	S.C.	ISSUE FOR REVIEW (IFR)

YOKOGAWA ◆ PROJECT Nr. E36672C00
DESCRIPTION: E366772C00-PCS_WD

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
PCS CABINETS WIRING DIAGRAMS AND TERMINAL STRIPS
PCS PANEL - RACK "3" POWER DISTRIBUTION

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

SCALE : 1

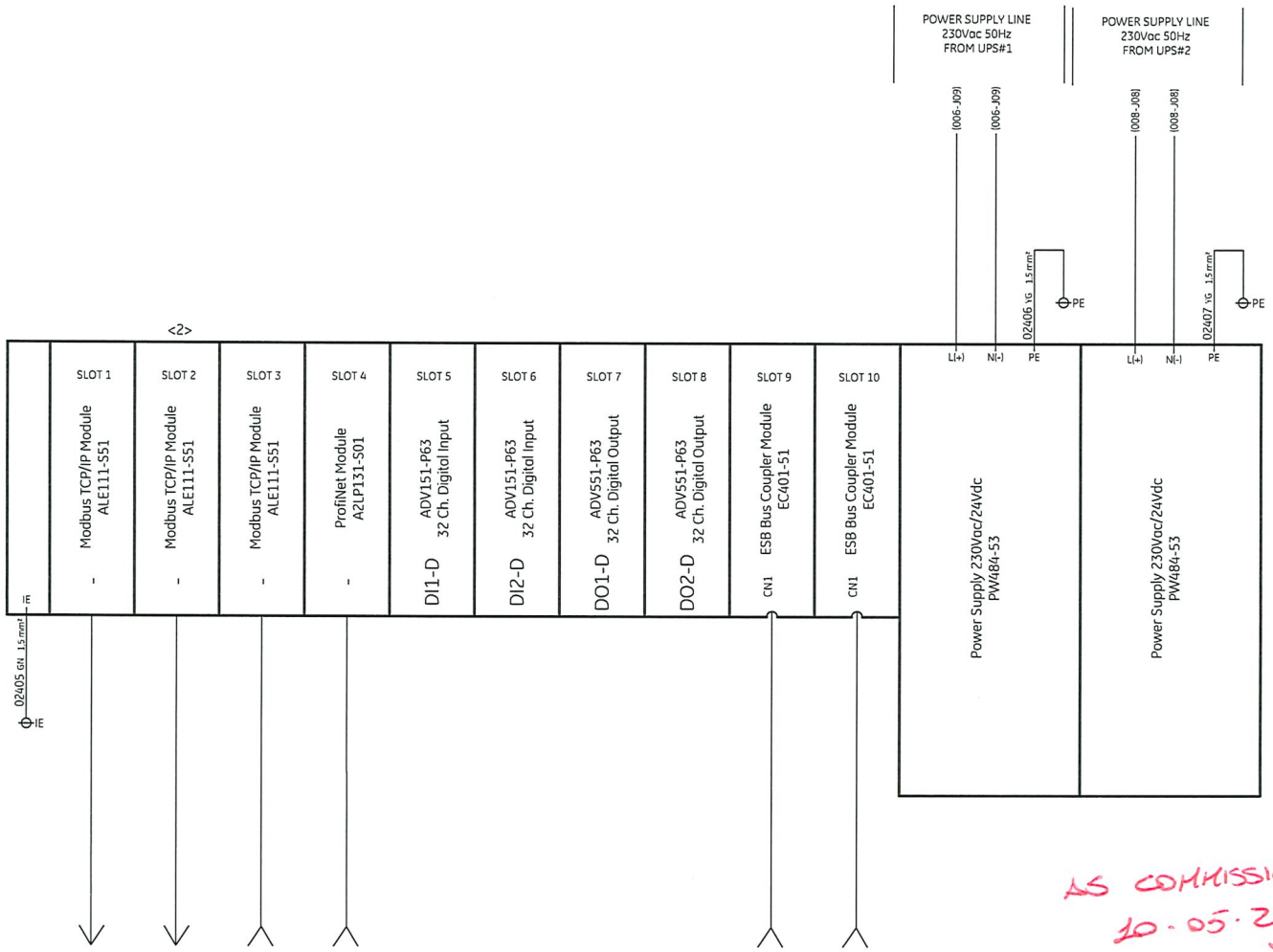
A3

DRAWING NO. 1724000594-IN-DG-00020

SHEET 023

REV. 2

PCS PANEL - RACK "4" POWER DISTRIBUTION <2>



REFER TO DOC. N. 1724000594-IN-DG-00016
"NETWORK CONNECTION DIAGRAM"
<2>

FROM ESB BUS
RACK "3"
<2>
<1>

<2>

AS COMMISSIONING
10.05.2025
GIANDONATO DEL MASSIER
NO MARK UP

REV	DATE	PREPARED	CHECKED	APPROVED	DESCRIPTION
2	11.11.2024	A.G.	A.B.	S.C.	ACCEPTED FOR CONSTRUCTION (AFC)
1	13.09.2024	A.G.	A.B.	S.C.	ISSUE FOR REVIEW (IFR)
0	03.07.2024	A.G.	A.B.	S.C.	ISSUE FOR REVIEW (IFR)

YOKOGAWA ◆ PROJECT Nr. E36672C00
DESCRIPTION: E366772C00-PCS_WD

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
PCS CABINETS WIRING DIAGRAMS AND TERMINAL STRIPS
PCS PANEL - RACK "4" POWER DISTRIBUTION

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

SCALE : 1

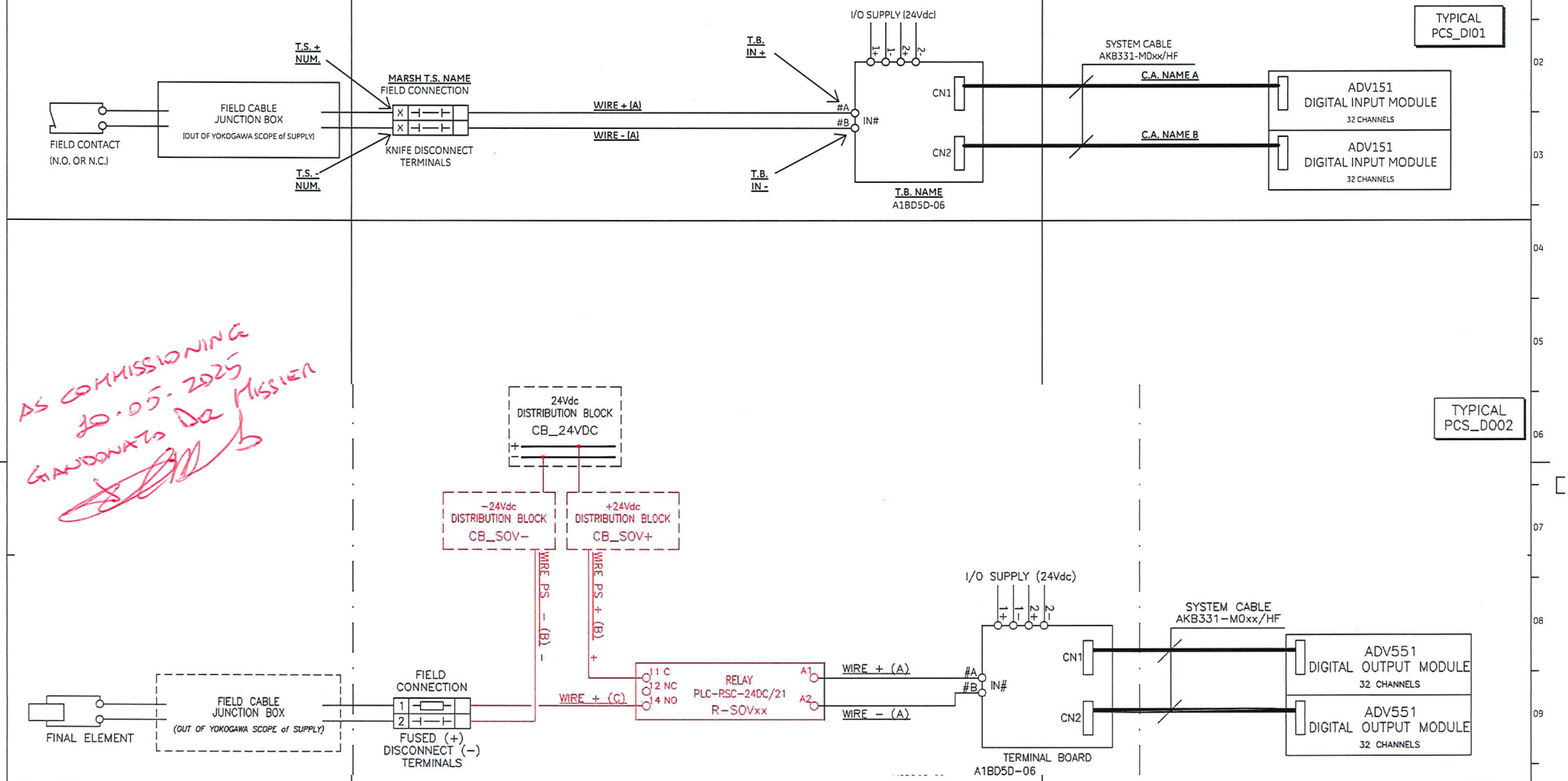
A3

DRAWING NO. 1724000594-IN-DG-00020

SHEET 024

REV. 2

PCS PANEL - TYPICAL WIRING DIGITAL INPUT/OUTPUT



AS COMMISSIONING
10.05.2025
GIANDONATO DE MISSIER

REV	DATE	PREPARED	CHECKED	APPROVED	DESCRIPTION
2	11.11.2024	A.G.	A.B.	S.C.	ACCEPTED FOR CONSTRUCTION (AFC)
1	13.09.2024	A.G.	A.B.	S.C.	ISSUE FOR REVIEW (IFR)
0	03.07.2024	A.G.	A.B.	S.C.	ISSUE FOR REVIEW (IFR)

TITLE : BASE LOAD POWER HUB (BLPH)
PCS CABINETS WIRING DIAGRAMS AND TERMINAL STRIPS
PCS PANEL - TYPICAL WIRING DIGITAL INPUT/OUTPUT

YOKOGAWA ◆ PROJECT Nr. E36672C00
DESCRIPTION: E366772C00-PCS_WD

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

SCALE : 1

CROSSWIND

ROSETTI MARINO

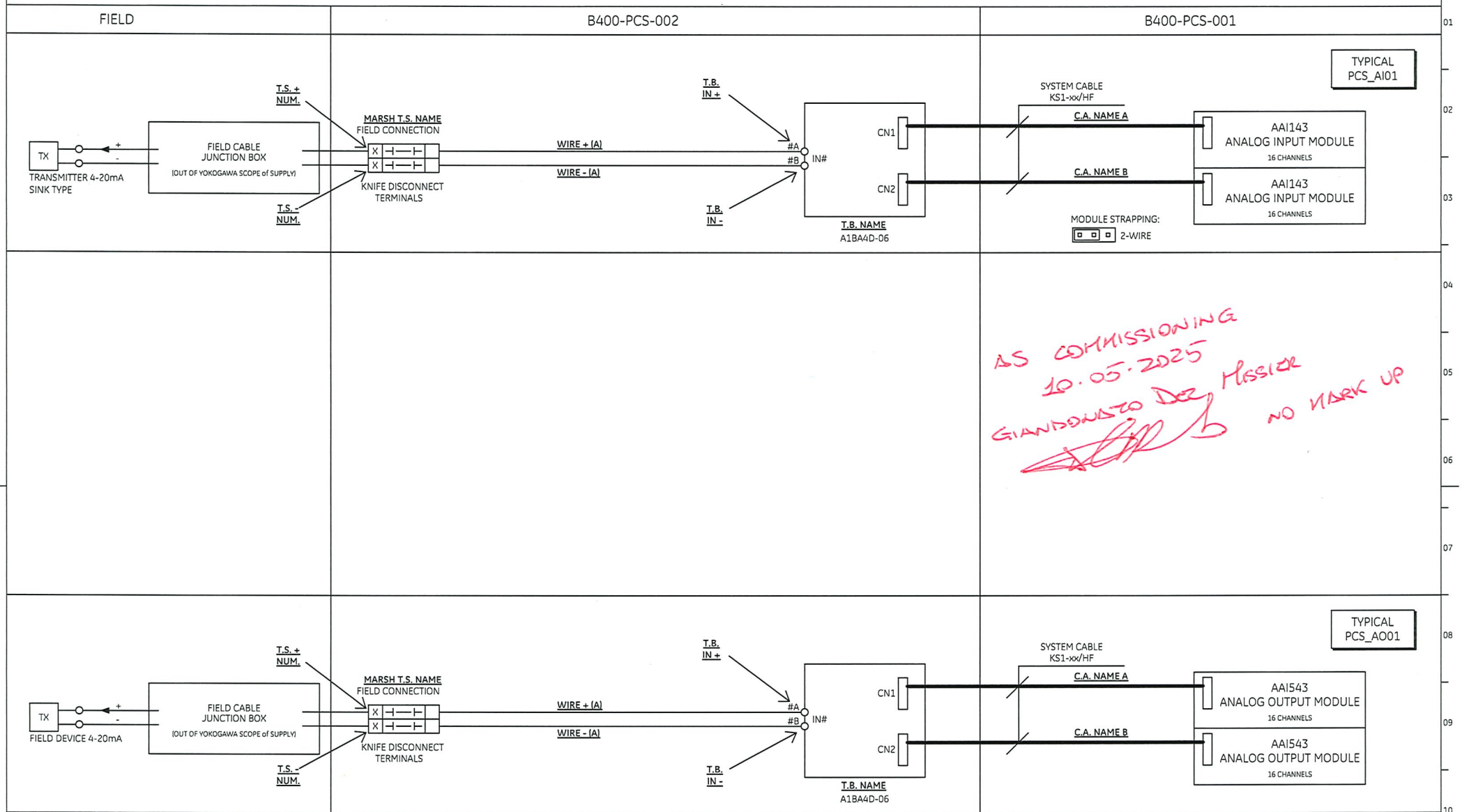
A3

DRAWING NO. 1724000594-IN-DG-00020

SHEET 025

REV. 2

PCS PANEL - TYPICAL WIRING ANALOG INPUT/OUTPUT



REV	DATE	PREPARED	CHECKED	APPROVED	DESCRIPTION
2	11.11.2024	A.G.	A.B.	S.C.	ACCEPTED FOR CONSTRUCTION (AFC)
1	13.09.2024	A.G.	A.B.	S.C.	ISSUE FOR REVIEW (IFR)
0	03.07.2024	A.G.	A.B.	S.C.	ISSUE FOR REVIEW (IFR)

TITLE : BASE LOAD POWER HUB (BLPH)
PCS CABINETS WIRING DIAGRAMS AND TERMINAL STRIPS
PCS PANEL - TYPICAL WIRING ANALOG INPUT/OUTPUT

YOKOGAWA ◆ PROJECT Nr. E36672C00
DESCRIPTION: E366772C00-PCS_WD

CROSSWIND | ROSETTI MARINO

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

SCALE : 1

A3

DRAWING NO. 1724000594-IN-DG-00020

SHEET 026

REV. 2

SHEET LEFT INTENTIONALLY BLANK

2	11.11.2024	A.G.	A.B.	S.C.	ACCEPTED FOR CONSTRUCTION (AFC)
1	13.09.2024	A.G.	A.B.	S.C.	ISSUE FOR REVIEW (IFR)
0	03.07.2024	A.G.	A.B.	S.C.	ISSUE FOR REVIEW (IFR)
REV	DATE	PREPARED	CHECKED	APPROVED	DESCRIPTION

YOKOGAWA ◆ PROJECT Nr. E36672C00
DESCRIPTION: E366772C00-PCS_WD

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
PCS CABINETS 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-00020

SHEET 027

REV. 2

	TAG NAME	IO TYPE	MARSH T.S. NAME	T.S. + NUM.	T.S. - NUM.	WIRE NUMBER + (A)	WIRE NUMBER - (A)	WIRE SECTION (A)	WIRE COLOUR + (A)	WIRE COLOUR - (A)	T.B. NAME	T.B. IN +	T.B. IN -	NODE	SLOT	CHANNEL	C.A. NAME A	C.A. NAME B	TYPICAL
	25-PT-035	AI	TB-00-JE-11001	01	02	02801	02802	1mm²	BK	WH	TB-01-01	01A	01B	01	01	01	CA_01_01	CA_01_02	PCS_AI01
	25-PT-037	AI	TB-00-JE-11001	03	04	02803	02804	1mm²	BK	WH	TB-01-01	02A	02B	01	01	02	CA_01_01	CA_01_02	PCS_AI01
	25-PT-040	AI	TB-00-JE-11001	05	06	02805	02806	1mm²	BK	WH	TB-01-01	03A	03B	01	01	03	CA_01_01	CA_01_02	PCS_AI01
	25-PT-043	AI	TB-00-JE-11001	07	08	02807	02808	1mm²	BK	WH	TB-01-01	04A	04B	01	01	04	CA_01_01	CA_01_02	PCS_AI01
	25-PT-046	AI	TB-00-JE-11001	09	10	02809	02810	1mm²	BK	WH	TB-01-01	05A	05B	01	01	05	CA_01_01	CA_01_02	PCS_AI01
	25-PT-049	AI	TB-00-JE-11001	11	12	02811	02812	1mm²	BK	WH	TB-01-01	06A	06B	01	01	06	CA_01_01	CA_01_02	PCS_AI01
	25-PY-035	AO	TB-00-JE-11001	13	14	02813	02814	1mm²	BK	WH	TB-02-03	03A	03B	02	03	03	CA_02_03	CA_02_04	PCS_AO01
	25-PY-037	AO	TB-00-JE-11001	15	16	02815	02816	1mm²	BK	WH	TB-02-03	04A	04B	02	03	04	CA_02_03	CA_02_04	PCS_AO01
	25-PY-040	AO	TB-00-JE-11001	17	18	02817	02818	1mm²	BK	WH	TB-02-03	05A	05B	02	03	05	CA_02_03	CA_02_04	PCS_AO01
	25-PY-043	AO	TB-00-JE-11001	19	20	02819	02820	1mm²	BK	WH	TB-02-03	06A	06B	02	03	06	CA_02_03	CA_02_04	PCS_AO01
	WS0101010114	AI	TB-00-JE-11001	21	22	02821	02822	1mm²	BK	WH	TB-01-01	14A	14B	01	01	14	CA_01_01	CA_01_02	PCS_AI01
	WS0101010115	AI	TB-00-JE-11001	23	24	02823	02824	1mm²	BK	WH	TB-01-01	15A	15B	01	01	15	CA_01_01	CA_01_02	PCS_AI01
	25-PY-046	AO	TB-00-JE-11001	25	26	02825	02826	1mm²	BK	WH	TB-02-03	07A	07B	02	03	07	CA_02_03	CA_02_04	PCS_AO01
	25-PY-049	AO	TB-00-JE-11001	27	28	02827	02828	1mm²	BK	WH	TB-02-03	08A	08B	02	03	08	CA_02_03	CA_02_04	PCS_AO01
	25-ZT-035	AI	TB-00-JE-11001	29	30	02829	02830	1mm²	BK	WH	TB-01-01	08A	08B	01	01	08	CA_01_01	CA_01_02	PCS_AI01
	25-ZT-037	AI	TB-00-JE-11001	31	32	02831	02832	1mm²	BK	WH	TB-01-01	09A	09B	01	01	09	CA_01_01	CA_01_02	PCS_AI01
	25-ZT-040	AI	TB-00-JE-11001	33	34	02833	02834	1mm²	BK	WH	TB-01-01	10A	10B	01	01	10	CA_01_01	CA_01_02	PCS_AI01
	25-ZT-043	AI	TB-00-JE-11001	35	36	02835	02836	1mm²	BK	WH	TB-01-01	11A	11B	01	01	11	CA_01_01	CA_01_02	PCS_AI01
	25-ZT-046	AI	TB-00-JE-11001	37	38	02837	02838	1mm²	BK	WH	TB-01-01	12A	12B	01	01	12	CA_01_01	CA_01_02	PCS_AI01
	25-ZT-049	AI	TB-00-JE-11001	39	40	02839	02840	1mm²	BK	WH	TB-01-01	13A	13B	01	01	13	CA_01_01	CA_01_02	PCS_AI01
<2>	WS0101010317	AI	TB-00-JE-11001	41	42	02841	02842	1mm²	BK	WH	TB-01-01	16A	16B	01	01	16	CA_01_01	CA_01_02	PCS_AI01
	WS0101010314	AI	TB-00-JE-11001	43	44	02843	02844	1mm²	BK	WH	TB-01-03	14A	14B	01	03	14	CA_01_03	CA_01_04	PCS_AI01
	WS0110010315	AI	TB-00-JE-11001	45	46	02845	02846	1mm²	BK	WH	TB-01-03	15A	15B	01	03	15	CA_01_03	CA_01_04	PCS_AI01
<2>	WS0101010318	AI	TB-00-JE-11001	47	48	02847	02848	1mm²	BK	WH	TB-01-03	16A	16B	01	03	16	CA_01_03	CA_01_04	PCS_AI01
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AS COMMISSIONING
10-05-2025
GIANDONATO DE MISSIER
NO MARK UP

REV	DATE	PREPARED	CHECKED	APPROVED	DESCRIPTION
2	11.11.2024	A.G.	A.B.	S.C.	ACCEPTED FOR CONSTRUCTION (AFC)
1	13.09.2024	A.G.	A.B.	S.C.	ISSUE FOR REVIEW (IFR)
0	03.07.2024	A.G.	A.B.	S.C.	ISSUE FOR REVIEW (IFR)

TITLE: BASE LOAD POWER HUB (BLPH)
PCS CABINETS WIRING DIAGRAMS AND TERMINAL STRIPS
PCS PANEL -TB-00-JE-11001

YOKOGAWA ◆ PROJECT Nr. E36672C00
DESCRIPTION: E366772C00-PCS_WD

CROSSWIND | ROSETTI MARINO

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

SCALE: 1

A3

DRAWING NO. 1724000594-IN-DG-00020

SHEET 028

REV. 2

TAG NAME	IO TYPE	MARSH T.S. NAME	T.S. + NUM.	T.S. - NUM.	WIRE NUMBER + (A)	WIRE NUMBER - (A)	WIRE SECTION (A)	WIRE COLOUR + (A)	WIRE COLOUR - (A)	T.B. NAME	T.B. IN +	T.B. IN -	NODE	SLOT	CHANNEL	C.A. NAME A	C.A. NAME B	TYPICAL
25-PT-055A	AI	TB-00-JE-11002	01	02	02901	02902	1mm²	BK	WH	TB-02-01	01A	01B	02	01	01	CA_02_01	CA_02_02	PCS_AI01
25-PT-055B	AI	TB-00-JE-11002	03	04	02903	02904	1mm²	BK	WH	TB-03-01	01A	01B	03	01	01	CA_03_01	CA_03_02	PCS_AI01
25-PY-055A	AO	TB-00-JE-11002	05	06	02905	02906	1mm²	BK	WH	TB-02-03	01A	01B	02	03	01	CA_02_03	CA_02_04	PCS_AO01
25-PY-055B	AO	TB-00-JE-11002	07	08	02907	02908	1mm²	BK	WH	TB-03-03	01A	01B	03	03	01	CA_03_03	CA_03_04	PCS_AO01
25-ZT-055A	AI	TB-00-JE-11002	09	10	02909	02910	1mm²	BK	WH	TB-02-01	02A	02B	02	01	02	CA_02_01	CA_02_02	PCS_AI01
25-ZT-055B	AI	TB-00-JE-11002	11	12	02911	02912	1mm²	BK	WH	TB-03-01	02A	02B	03	01	02	CA_03_01	CA_03_02	PCS_AI01
43-PT-001	AI	TB-00-JE-11002	13	14	02913	02914	1mm²	BK	WH	TB-02-01	03A	03B	02	01	03	CA_02_01	CA_02_02	PCS_AI01
SPARE	AI	TB-00-JE-11002	15	16	02915	02916	1mm²	BK	WH	TB-02-01	04A	04B	02	01	04	CA_02_01	CA_02_02	PCS_AI01
43-FT-001	AI	TB-00-JE-11002	17	18	02917	02918	1mm²	BK	WH	TB-01-01	07A	07B	01	01	07	CA_01_01	CA_01_02	PCS_AI01
43-LT-003	AI	TB-00-JE-11002	19	20	02919	02920	1mm²	BK	WH	TB-02-01	05A	05B	02	01	05	CA_02_01	CA_02_02	PCS_AI01
WS0101020108	AI	TB-00-JE-11002	21	22	02921	02922	1mm²	BK	WH	TB-02-01	08A	08B	02	01	08	CA_02_01	CA_02_02	PCS_AI01
SPARE	AI	TB-00-JE-11002	23	24	02923	02924	1mm²	BK	WH	TB-02-01	09A	09B	02	01	09	CA_02_01	CA_02_02	PCS_AI01
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AS COMMISSIONING
10-05-2025
GIANDONATO DEL MESSIER
NO MARK UP

REV	DATE	PREPARED	CHECKED	APPROVED	DESCRIPTION
2	11.11.2024	A.G.	A.B.	S.C.	ACCEPTED FOR CONSTRUCTION (AFC)
1	13.09.2024	A.G.	A.B.	S.C.	ISSUE FOR REVIEW (IFR)
0	03.07.2024	A.G.	A.B.	S.C.	ISSUE FOR REVIEW (IFR)

YOKOGAWA ◆ PROJECT Nr. E36672C00
DESCRIPTION: E366772C00-PCS_WD

CROSSWIND | ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
PCS CABINETS WIRING DIAGRAMS AND TERMINAL STRIPS
PCS PANEL -TB-00-JE-11002

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

SCALE : 1

A3

DRAWING NO. 1724000594-IN-DG-00020

SHEET 029

REV. 2

	TAG NAME	IO TYPE	MARSH T.S. NAME	T.S. + NUM.	T.S. - NUM.	WIRE NUMBER + (A)	WIRE NUMBER - (A)	WIRE SECTION (A)	WIRE COLOUR + (A)	WIRE COLOUR - (A)	T.B. NAME	T.B. IN +	T.B. IN -	NODE	SLOT	CHANNEL	C.A. NAME A	C.A. NAME B	TYPICAL
	25-FT-031	AI	TB-00-JE-11003	01	02	03001	03002	1mm²	BK	WH	TB-01-03	01A	01B	01	03	01	CA_01_03	CA_01_04	PCS_AI01
	25-FT-032	AI	TB-00-JE-11003	03	04	03003	03004	1mm²	BK	WH	TB-01-03	02A	02B	01	03	02	CA_01_03	CA_01_04	PCS_AI01
	25-FT-033	AI	TB-00-JE-11003	05	06	03005	03006	1mm²	BK	WH	TB-01-03	03A	03B	01	03	03	CA_01_03	CA_01_04	PCS_AI01
	25-FT-034	AI	TB-00-JE-11003	07	08	03007	03008	1mm²	BK	WH	TB-01-03	04A	04B	01	03	04	CA_01_03	CA_01_04	PCS_AI01
	25-FT-038	AI	TB-00-JE-11003	09	10	03009	03010	1mm²	BK	WH	TB-01-03	05A	05B	01	03	05	CA_01_03	CA_01_04	PCS_AI01
	25-FT-036	AI	TB-00-JE-11003	11	12	03011	03012	1mm²	BK	WH	TB-01-03	06A	06B	01	03	06	CA_01_03	CA_01_04	PCS_AI01
	25-FY-031	AO	TB-00-JE-11003	13	14	03013	03014	1mm²	BK	WH	TB-03-03	03A	03B	03	03	03	CA_03_03	CA_03_04	PCS_AO01
	25-FY-032	AO	TB-00-JE-11003	15	16	03015	03016	1mm²	BK	WH	TB-03-03	04A	04B	03	03	04	CA_03_03	CA_03_04	PCS_AO01
	25-FY-033	AO	TB-00-JE-11003	17	18	03017	03018	1mm²	BK	WH	TB-03-03	05A	05B	03	03	05	CA_03_03	CA_03_04	PCS_AO01
	WS0110030309	AO	TB-00-JE-11003	19	20	03019	03020	1mm²	BK	WH	TB-03-03	09A	09B	03	03	09	CA_03_03	CA_03_04	PCS_AO01
	WS0110030310	AO	TB-00-JE-11003	21	22	03021	03022	1mm²	BK	WH	TB-03-03	10A	10B	03	03	10	CA_03_03	CA_03_04	PCS_AO01
	SPARE	AO	TB-00-JE-11003	23	24	03023	03024	1mm²	BK	WH	TB-03-03	11A	11B	03	03	11	CA_03_03	CA_03_04	PCS_AO01
	25-FY-038	AO	TB-00-JE-11003	25	26	03025	03026	1mm²	BK	WH	TB-03-03	06A	06B	03	03	06	CA_03_03	CA_03_04	PCS_AO01
	25-FY-036	AO	TB-00-JE-11003	27	28	03027	03028	1mm²	BK	WH	TB-03-03	07A	07B	03	03	07	CA_03_03	CA_03_04	PCS_AO01
	25-FY-034	AO	TB-00-JE-11003	29	30	03029	03030	1mm²	BK	WH	TB-03-03	08A	08B	03	03	08	CA_03_03	CA_03_04	PCS_AO01
	25-ZT-031	AI	TB-00-JE-11003	31	32	03031	03032	1mm²	BK	WH	TB-01-03	07A	07B	01	03	07	CA_01_03	CA_01_04	PCS_AI01
	25-ZT-032	AI	TB-00-JE-11003	33	34	03033	03034	1mm²	BK	WH	TB-01-03	08A	08B	01	03	08	CA_01_03	CA_01_04	PCS_AI01
	25-ZT-033	AI	TB-00-JE-11003	35	36	03035	03036	1mm²	BK	WH	TB-01-03	09A	09B	01	03	09	CA_01_03	CA_01_04	PCS_AI01
	25-ZT-034	AI	TB-00-JE-11003	37	38	03037	03038	1mm²	BK	WH	TB-01-03	10A	10B	01	03	10	CA_01_03	CA_01_04	PCS_AI01
	25-ZT-036	AI	TB-00-JE-11003	39	40	03039	03040	1mm²	BK	WH	TB-01-03	11A	11B	01	03	11	CA_01_03	CA_01_04	PCS_AI01
	25-ZT-038	AI	TB-00-JE-11003	41	42	03041	03042	1mm²	BK	WH	TB-01-03	12A	12B	01	03	12	CA_01_03	CA_01_04	PCS_AI01
	25-PT-001	AI	TB-00-JE-11003	43	44	03043	03044	1mm²	BK	WH	TB-01-03	13A	13B	01	03	13	CA_01_03	CA_01_04	PCS_AI01
<2>	SPARE	AO	TB-00-JE-11003	45	46														
<2>	SPARE	AO	TB-00-JE-11003	47	48														
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AS COMMISSIONING
10-05-2024
GUSTAVO DEL MISSIER
NO MARK UP

REV	DATE	PREPARED	CHECKED	APPROVED	DESCRIPTION
2	11.11.2024	A.G.	A.B.	S.C.	ACCEPTED FOR CONSTRUCTION (AFC)
1	13.09.2024	A.G.	A.B.	S.C.	ISSUE FOR REVIEW (IFR)
0	03.07.2024	A.G.	A.B.	S.C.	ISSUE FOR REVIEW (IFR)

YOKOGAWA ◆ PROJECT Nr. E36672C00
DESCRIPTION: E366772C00-PCS_WD

CROSSWIND | ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
PCS CABINETS WIRING DIAGRAMS AND TERMINAL STRIPS
PCS PANEL -TB-00-JE-11003

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

SCALE : 1

A3

DRAWING NO. 1724000594-IN-DG-00020

SHEET 030

REV. 2

TAG NAME	IO TYPE	MARSH T.S. NAME	T.S. + NUM.	T.S. - NUM.	WIRE NUMBER + (A)	WIRE NUMBER - (A)	WIRE SECTION (A)	WIRE COLOUR + (A)	WIRE COLOUR - (A)	T.B. NAME	T.B. IN +	T.B. IN -	NODE	SLOT	CHANNEL	C.A. NAME A	C.A. NAME B	TYPICAL
50-PT-001	AI	TB-00-JE-11004	01	02	03101	03102	1mm²	BK	WH	TB-03-01	03A	03B	03	01	03	CA_03_01	CA_03_02	PCS_AI01
50-PT-002	AI	TB-00-JE-11004	03	04	03103	03104	1mm²	BK	WH	TB-03-01	04A	04B	03	01	04	CA_03_01	CA_03_02	PCS_AI01
50-TT-001	AI	TB-00-JE-11004	05	06	03105	03106	1mm²	BK	WH	TB-03-01	07A	07B	03	01	07	CA_03_01	CA_03_02	PCS_AI01
50-TT-002	AI	TB-00-JE-11004	07	08	03107	03108	1mm²	BK	WH	TB-03-01	08A	08B	03	01	08	CA_03_01	CA_03_02	PCS_AI01
64-PT-031A	AI	TB-00-JE-11004	09	10	03109	03110	1mm²	BK	WH	TB-02-01	06A	06B	02	01	06	CA_02_01	CA_02_02	PCS_AI01
64-PT-031B	AI	TB-00-JE-11004	11	12	03111	03112	1mm²	BK	WH	TB-03-01	05A	05B	03	01	05	CA_03_01	CA_03_02	PCS_AI01
64-PY-031A	AO	TB-00-JE-11004	13	14	03113	03114	1mm²	BK	WH	TB-02-03	02A	02B	02	03	02	CA_02_03	CA_02_04	PCS_AO01
64-PY-031B	AO	TB-00-JE-11004	15	16	03115	03116	1mm²	BK	WH	TB-03-03	02A	02B	03	03	02	CA_03_03	CA_03_04	PCS_AO01
50-PT-014	AI	TB-00-JE-11004	17	18	03117	03118	1mm²	BK	WH	TB-03-01	09A	09B	03	01	09	CA_03_01	CA_03_02	PCS_AI01
WS0110030112	AI	TB-00-JE-11004	19	20	03119	03120	1mm²	BK	WH	TB-03-01	12A	12B	03	01	12	CA_03_01	CA_03_02	PCS_AI01
WS0101030113	AI	TB-00-JE-11004	21	22	03121	03122	1mm²	BK	WH	TB-03-01	13A	13B	03	01	13	CA_03_01	CA_03_02	PCS_AI01
<2> WS0101030114	AI	TB-00-JE-11004	23	24	03123	03124	1mm²	BK	WH	TB-03-01	14A	14B	03	01	14	CA_03_01	CA_03_02	PCS_AI01
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AS COMMISSIONING
20-05-2025
GIANDONATO DE MISSIER
NO MARK UP

REV	DATE	PREPARED	CHECKED	APPROVED	DESCRIPTION
2	11.11.2024	A.G.	A.B.	S.C.	ACCEPTED FOR CONSTRUCTION (AFC)
1	13.09.2024	A.G.	A.B.	S.C.	ISSUE FOR REVIEW (IFR)
0	03.07.2024	A.G.	A.B.	S.C.	ISSUE FOR REVIEW (IFR)

YOKOGAWA ◆ PROJECT Nr. E36672C00
DESCRIPTION: E366772C00-PCS_WD

CROSSWIND | ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
PCS CABINETS WIRING DIAGRAMS AND TERMINAL STRIPS
PCS PANEL -TB-00-JE-11004

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

SCALE : 1

A3

DRAWING NO. 1724000594-IN-DG-00020

SHEET 031

REV. 2

	TAG NAME	IO TYPE	MARSH T.S. NAME	T.S. + NUM.	T.S. - NUM.	WIRE NUMBER + (A)	WIRE NUMBER - (A)	WIRE SECTION (A)	WIRE COLOUR + (A)	WIRE COLOUR - (A)	T.B. NAME	T.B. IN +	T.B. IN -	NODE	SLOT	CHANNEL	C.A. NAME A	C.A. NAME B	TYPICAL
	55-LIT-001	AI	TB-00-JE-11005	01	02	03201	03202	1mm²	BK	WH	TB-03-01	10A	10B	03	01	10	CA_03_01	CA_03_02	PCS_AI01
	64-ZT-031A	AI	TB-00-JE-11005	03	04	03203	03204	1mm²	BK	WH	TB-02-01	07A	07B	02	01	07	CA_02_01	CA_02_02	PCS_AI01
	64-ZT-031B	AI	TB-00-JE-11005	05	06	03205	03206	1mm²	BK	WH	TB-03-01	06A	06B	03	01	06	CA_03_01	CA_03_02	PCS_AI01
<2>	WS0101030111	AI	TB-00-JE-11005	07	08	03207	03208	1mm²	BK	WH	TB-02-01	10A	10B	02	01	10	CA_02_01	CA_02_02	PCS_AI01
<2>	WS0101030112	AI	TB-00-JE-11005	09	10	03209	03210	1mm²	BK	WH	TB-02-01	11A	11B	02	01	11	CA_02_01	CA_02_02	PCS_AI01
<2>	WS0101030112	AI	TB-00-JE-11005	11	12	03211	03212	1mm²	BK	WH	TB-02-01	12A	12B	02	01	12	CA_02_01	CA_02_02	PCS_AI01
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AS COMMISSIONING
10-05-2025
GIANDONATO DE MISSIER
NO MARK UP

REV	DATE	PREPARED	CHECKED	APPROVED	DESCRIPTION
2	11.11.2024	A.G.	A.B.	S.C.	ACCEPTED FOR CONSTRUCTION (AFC)
1	13.09.2024	A.G.	A.B.	S.C.	ISSUE FOR REVIEW (IFR)
0	03.07.2024	A.G.	A.B.	S.C.	ISSUE FOR REVIEW (IFR)

YOKOGAWA ◆ PROJECT Nr. E36672C00
DESCRIPTION: E366772C00-PCS_WD

CROSSWIND | ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
PCS CABINETS WIRING DIAGRAMS AND TERMINAL STRIPS
PCS PANEL -TB-00-JE-11005

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

SCALE : 1

A3

DRAWING NO. 1724000594-IN-DG-00020

SHEET 032

REV. 2

TAG NAME	IO TYPE	MARSH T.S. NAME	T.S. + NUM.	T.S. - NUM.	WIRE NUMBER + (A)	WIRE NUMBER - (A)	WIRE SECTION (A)	WIRE COLOUR + (A)	WIRE COLOUR - (A)	T.B. NAME	T.B. IN +	T.B. IN -	NODE	SLOT	CHANNEL	C.A. NAME A	C.A. NAME B	TYPICAL
25-ZSL-006	DI	TB-00-JE-12001	01	02	03301	03302	1mm²	BK	WH	TB-01-05	01A	01B	01	05	01	CA_01_05	CA_01_06	PCS_DI01
25-ZSH-006	DI	TB-00-JE-12001	03	04	03303	03304	1mm²	BK	WH	TB-01-05	02A	02B	01	05	02	CA_01_05	CA_01_06	PCS_DI01
25-ZSL-009	DI	TB-00-JE-12001	05	06	03305	03306	1mm²	BK	WH	TB-01-05	03A	03B	01	05	03	CA_01_05	CA_01_06	PCS_DI01
25-ZSH-009	DI	TB-00-JE-12001	07	08	03307	03308	1mm²	BK	WH	TB-01-05	04A	04B	01	05	04	CA_01_05	CA_01_06	PCS_DI01
25-ZSL-012	DI	TB-00-JE-12001	09	10	03309	03310	1mm²	BK	WH	TB-01-05	05A	05B	01	05	05	CA_01_05	CA_01_06	PCS_DI01
25-ZSH-012	DI	TB-00-JE-12001	11	12	03311	03312	1mm²	BK	WH	TB-01-05	06A	06B	01	05	06	CA_01_05	CA_01_06	PCS_DI01
25-ZSL-015	DI	TB-00-JE-12001	13	14	03313	03314	1mm²	BK	WH	TB-01-05	07A	07B	01	05	07	CA_01_05	CA_01_06	PCS_DI01
25-ZSH-015	DI	TB-00-JE-12001	15	16	03315	03316	1mm²	BK	WH	TB-01-05	08A	08B	01	05	08	CA_01_05	CA_01_06	PCS_DI01
25-ZSL-018	DI	TB-00-JE-12001	17	18	03317	03318	1mm²	BK	WH	TB-01-05	09A	09B	01	05	09	CA_01_05	CA_01_06	PCS_DI01
25-ZSH-018	DI	TB-00-JE-12001	19	20	03319	03320	1mm²	BK	WH	TB-01-05	10A	10B	01	05	10	CA_01_05	CA_01_06	PCS_DI01
WS0101010525	DI	TB-00-JE-12001	21	22	03321	03322	1mm²	BK	WH	TB-01-05	25A	25B	01	05	25	CA_01_05	CA_01_06	PCS_DI01
WS0101010526	DI	TB-00-JE-12001	23	24	03323	03324	1mm²	BK	WH	TB-01-05	26A	26B	01	05	26	CA_01_05	CA_01_06	PCS_DI01
25-ZSL-021	DI	TB-00-JE-12001	25	26	03325	03326	1mm²	BK	WH	TB-01-05	11A	11B	01	05	11	CA_01_05	CA_01_06	PCS_DI01
25-ZSH-021	DI	TB-00-JE-12001	27	28	03327	03328	1mm²	BK	WH	TB-01-05	12A	12B	01	05	12	CA_01_05	CA_01_06	PCS_DI01
25-ZSL-046	DI	TB-00-JE-12001	29	30	03329	03330	1mm²	BK	WH	TB-01-05	13A	13B	01	05	13	CA_01_05	CA_01_06	PCS_DI01
25-ZSH-046	DI	TB-00-JE-12001	31	32	03331	03332	1mm²	BK	WH	TB-01-05	14A	14B	01	05	14	CA_01_05	CA_01_06	PCS_DI01
25-ZSL-049	DI	TB-00-JE-12001	33	34	03333	03334	1mm²	BK	WH	TB-01-05	15A	15B	01	05	15	CA_01_05	CA_01_06	PCS_DI01
25-ZSH-049	DI	TB-00-JE-12001	35	36	03335	03336	1mm²	BK	WH	TB-01-05	16A	16B	01	05	16	CA_01_05	CA_01_06	PCS_DI01
25-ZSL-040	DI	TB-00-JE-12001	37	38	03337	03338	1mm²	BK	WH	TB-01-05	17A	17B	01	05	17	CA_01_05	CA_01_06	PCS_DI01
25-ZSH-040	DI	TB-00-JE-12001	39	40	03339	03340	1mm²	BK	WH	TB-01-05	18A	18B	01	05	18	CA_01_05	CA_01_06	PCS_DI01
25-ZSL-043	DI	TB-00-JE-12001	41	42	03341	03342	1mm²	BK	WH	TB-01-05	19A	19B	01	05	19	CA_01_05	CA_01_06	PCS_DI01
25-ZSH-043	DI	TB-00-JE-12001	43	44	03343	03344	1mm²	BK	WH	TB-01-05	20A	20B	01	05	20	CA_01_05	CA_01_06	PCS_DI01
WS0101010527	DI	TB-00-JE-12001	45	46	03345	03346	1mm²	BK	WH	TB-01-05	27A	27B	01	05	27	CA_01_05	CA_01_06	PCS_DI01
WS0101010528	DI	TB-00-JE-12001	47	48	03347	03348	1mm²	BK	WH	TB-01-05	28A	28B	01	05	28	CA_01_05	CA_01_06	PCS_DI01
			<2>	<2>														

AS COMMISSIONING
10.05.2025
GIOVANNI DE MISSIER
NO MARK UP

REV	DATE	PREPARED	CHECKED	APPROVED	DESCRIPTION
2	11.11.2024	A.G.	A.B.	S.C.	ACCEPTED FOR CONSTRUCTION (AFC)
1	13.09.2024	A.G.	A.B.	S.C.	ISSUE FOR REVIEW (IFR)
0	03.07.2024	A.G.	A.B.	S.C.	ISSUE FOR REVIEW (IFR)

YOKOGAWA ◆ PROJECT Nr. E36672C00
DESCRIPTION: E366772C00-PCS_WD

CROSSWIND | ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
PCS CABINETS WIRING DIAGRAMS AND TERMINAL STRIPS
PCS PANEL -TB-00-JE-12001

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

SCALE : 1

A3

DRAWING NO. 1724000594-IN-DG-00020

SHEET 033

REV. 2

	TAG NAME	IO TYPE	MARSH T.S. NAME	T.S. + NUM.	T.S. - NUM.	WIRE NUMBER + (A)	WIRE NUMBER - (A)	WIRE SECTION (A)	WIRE COLOUR + (A)	WIRE COLOUR - (A)	T.B. NAME	T.B. IN +	T.B. IN -	NODE	SLOT	CHANNEL	C.A. NAME A	C.A. NAME B	TYPICAL
	25-ZSL-035	DI	TB-00-JE-12002	01	02	03401	03402	1mm²	BK	WH	TB-01-05	21A	21B	01	05	21	CA_01_05	CA_01_06	PCS_DI01
	25-ZSH-035	DI	TB-00-JE-12002	03	04	03403	03404	1mm²	BK	WH	TB-01-05	22A	22B	01	05	22	CA_01_05	CA_01_06	PCS_DI01
	25-ZSL-037	DI	TB-00-JE-12002	05	06	03405	03406	1mm²	BK	WH	TB-01-05	23A	23B	01	05	23	CA_01_05	CA_01_06	PCS_DI01
	25-ZSH-037	DI	TB-00-JE-12002	07	08	03407	03408	1mm²	BK	WH	TB-01-05	24A	24B	01	05	24	CA_01_05	CA_01_06	PCS_DI01
<2>	SPARE	DI	TB-00-JE-12002	09	10														
<2>	SPARE	DI	TB-00-JE-12002	11	12														

AS COMMISSIONING
10-05-2025
GUNDOGATOO DER MISSIER
NO MARK UP

REV	DATE	PREPARED	CHECKED	APPROVED	DESCRIPTION
2	11.11.2024	A.G.	A.B.	S.C.	ACCEPTED FOR CONSTRUCTION (AFC)
1	13.09.2024	A.G.	A.B.	S.C.	ISSUE FOR REVIEW (IFR)
0	03.07.2024	A.G.	A.B.	S.C.	ISSUE FOR REVIEW (IFR)

YOKOGAWA ◆ PROJECT Nr. E36672C00
DESCRIPTION: E366772C00-PCS_WD

CROSSWIND | ROSETTI MARINO

TITLE: BASE LOAD POWER HUB (BLPH)
PCS CABINETS WIRING DIAGRAMS AND TERMINAL STRIPS
PCS PANEL -TB-00-JE-12002

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

SCALE: 1

A3

DRAWING NO. 1724000594-IN-DG-00020

SHEET 034

REV. 2

TAG NAME	IO TYPE	MARSH T.S. NAME	T.S. + NUM.	T.S. - NUM.	WIRE NUMBER + (A)	WIRE NUMBER - (A)	WIRE SECTION (A)	WIRE COLOUR + (A)	WIRE COLOUR - (A)	T.B. NAME	T.B. IN +	T.B. IN -	NODE	SLOT	CHANNEL	C.A. NAME A	C.A. NAME B	TYPICAL
80-ZSL-001	DI	TB-00-JE-12003	01	02	03501	03502	1mm²	BK	WH	TB-02-05	05A	05B	02	05	05	CA_02_05	CA_02_06	PCS_DI01
80-ZSH-001	DI	TB-00-JE-12003	03	04	03503	03504	1mm²	BK	WH	TB-02-05	06A	06B	02	05	06	CA_02_05	CA_02_06	PCS_DI01
25-ZSL-055A	DI	TB-00-JE-12003	05	06	03505	03506	1mm²	BK	WH	TB-02-05	01A	01B	02	05	01	CA_02_05	CA_02_06	PCS_DI01
25-ZSH-055A	DI	TB-00-JE-12003	07	08	03507	03508	1mm²	BK	WH	TB-02-05	02A	02B	02	05	02	CA_02_05	CA_02_06	PCS_DI01
25-ZSL-055B	DI	TB-00-JE-12003	09	10	03509	03510	1mm²	BK	WH	TB-03-05	01A	01B	03	05	01	CA_03_05	CA_03_06	PCS_DI01
25-ZSH-055B	DI	TB-00-JE-12003	11	12	03511	03512	1mm²	BK	WH	TB-03-05	02A	02B	03	05	02	CA_03_05	CA_03_06	PCS_DI01
SPARE	DI	TB-00-JE-12003	13	14														
SPARE	DI	TB-00-JE-12003	15	16														
SPARE	DI	TB-00-JE-12003	17	18														
SPARE	DI	TB-00-JE-12003	19	20														
SPARE	DI	TB-00-JE-12003	21	22														
SPARE	DI	TB-00-JE-12003	23	24														

AS COMMISSIONING
10.05.2025
GIANDOMENICO DE MESSIER
NO MARK UP

REV	DATE	PREPARED	CHECKED	APPROVED	DESCRIPTION
2	11.11.2024	A.G.	A.B.	S.C.	ACCEPTED FOR CONSTRUCTION (AFC)
1	13.09.2024	A.G.	A.B.	S.C.	ISSUE FOR REVIEW (IFR)
0	03.07.2024	A.G.	A.B.	S.C.	ISSUE FOR REVIEW (IFR)

YOKOGAWA ◆ PROJECT Nr. E36672C00 DESCRIPTION: E366772C00-PCS_WD

CROSSWIND | ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
PCS CABINETS WIRING DIAGRAMS AND TERMINAL STRIPS
PCS PANEL -TB-00-JE-12003

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

SCALE : 1

A3

DRAWING NO. 1724000594-IN-DG-00020

SHEET 035

REV. 2

TAG NAME	IO TYPE	MARSH T.S. NAME	T.S. + NUM.	T.S. - NUM.	WIRE NUMBER + (A)	WIRE NUMBER - (A)	WIRE SECTION (A)	WIRE COLOUR + (A)	WIRE COLOUR - (A)	T.B. NAME	T.B. IN +	T.B. IN -	NODE	SLOT	CHANNEL	C.A. NAME A	C.A. NAME B	TYPICAL
25-ZSL-004	DI	TB-00-JE-12004	01	02	03601	03602	1mm²	BK	WH	TB-02-05	07A	07B	02	05	07	CA_02_05	CA_02_06	PCS_DI01
25-ZSH-004	DI	TB-00-JE-12004	03	04	03603	03604	1mm²	BK	WH	TB-02-05	08A	08B	02	05	08	CA_02_05	CA_02_06	PCS_DI01
25-ZSL-008	DI	TB-00-JE-12004	05	06	03605	03606	1mm²	BK	WH	TB-02-05	09A	09B	02	05	09	CA_02_05	CA_02_06	PCS_DI01
25-ZSH-008	DI	TB-00-JE-12004	07	08	03607	03608	1mm²	BK	WH	TB-02-05	10A	10B	02	05	10	CA_02_05	CA_02_06	PCS_DI01
25-ZSL-011	DI	TB-00-JE-12004	09	10	03609	03610	1mm²	BK	WH	TB-02-05	11A	11B	02	05	11	CA_02_05	CA_02_06	PCS_DI01
25-ZSH-011	DI	TB-00-JE-12004	11	12	03611	03612	1mm²	BK	WH	TB-02-05	12A	12B	02	05	12	CA_02_05	CA_02_06	PCS_DI01
25-ZSL-014	DI	TB-00-JE-12004	13	14	03613	03614	1mm²	BK	WH	TB-02-05	13A	13B	02	05	13	CA_02_05	CA_02_06	PCS_DI01
25-ZSH-014	DI	TB-00-JE-12004	15	16	03615	03616	1mm²	BK	WH	TB-02-05	14A	14B	02	05	14	CA_02_05	CA_02_06	PCS_DI01
25-ZSL-017	DI	TB-00-JE-12004	17	18	03617	03618	1mm²	BK	WH	TB-02-05	15A	15B	02	05	15	CA_02_05	CA_02_06	PCS_DI01
25-ZSH-017	DI	TB-00-JE-12004	19	20	03619	03620	1mm²	BK	WH	TB-02-05	16A	16B	02	05	16	CA_02_05	CA_02_06	PCS_DI01
WS0101020527	DI	TB-00-JE-12004	21	22	03621	03622	1mm²	BK	WH	TB-02-05	27A	27B	02	05	27	CA_02_05	CA_02_06	PCS_DI01
WS0101020528	DI	TB-00-JE-12004	23	24	03623	03624	1mm²	BK	WH	TB-02-05	28A	28B	02	05	28	CA_02_05	CA_02_06	PCS_DI01
25-ZSL-020	DI	TB-00-JE-12004	25	26	03625	03626	1mm²	BK	WH	TB-02-05	17A	17B	02	05	17	CA_02_05	CA_02_06	PCS_DI01
25-ZSH-020	DI	TB-00-JE-12004	27	28	03627	03628	1mm²	BK	WH	TB-02-05	18A	18B	02	05	18	CA_02_05	CA_02_06	PCS_DI01
25-ZSL-031	DI	TB-00-JE-12004	29	30	03629	03630	1mm²	BK	WH	TB-02-05	19A	19B	02	05	19	CA_02_05	CA_02_06	PCS_DI01
25-ZSH-031	DI	TB-00-JE-12004	31	32	03631	03632	1mm²	BK	WH	TB-02-05	20A	20B	02	05	20	CA_02_05	CA_02_06	PCS_DI01
25-ZSL-032	DI	TB-00-JE-12004	33	34	03633	03634	1mm²	BK	WH	TB-02-05	21A	21B	02	05	21	CA_02_05	CA_02_06	PCS_DI01
25-ZSH-032	DI	TB-00-JE-12004	35	36	03635	03636	1mm²	BK	WH	TB-02-05	22A	22B	02	05	22	CA_02_05	CA_02_06	PCS_DI01
25-ZSL-033	DI	TB-00-JE-12004	37	38	03637	03638	1mm²	BK	WH	TB-02-05	23A	23B	02	05	23	CA_02_05	CA_02_06	PCS_DI01
25-ZSH-033	DI	TB-00-JE-12004	39	40	03639	03640	1mm²	BK	WH	TB-02-05	24A	24B	02	05	24	CA_02_05	CA_02_06	PCS_DI01
25-ZSL-034	DI	TB-00-JE-12004	41	42	03641	03642	1mm²	BK	WH	TB-02-05	25A	25B	02	05	25	CA_02_05	CA_02_06	PCS_DI01
25-ZSH-034	DI	TB-00-JE-12004	43	44	03643	03644	1mm²	BK	WH	TB-02-05	26A	26B	02	05	26	CA_02_05	CA_02_06	PCS_DI01
WS0110020529	DI	TB-00-JE-12004	45	46	03645	03646	1mm²	BK	WH	TB-02-05	29A	29B	02	05	29	CA_02_05	CA_02_06	PCS_DI01
WS0110020530	DI	TB-00-JE-12004	47	48	03647	03648	1mm²	BK	WH	TB-02-05	30A	30B	02	05	30	CA_02_05	CA_02_06	PCS_DI01

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AS COMMISSIONING
19-05-2025
GIAMPAOLO DE MISSIER
NO MARK UP

REV	DATE	PREPARED	CHECKED	APPROVED	DESCRIPTION
2	11.11.2024	A.G.	A.B.	S.C.	ACCEPTED FOR CONSTRUCTION (AFC)
1	13.09.2024	A.G.	A.B.	S.C.	ISSUE FOR REVIEW (IFR)
0	03.07.2024	A.G.	A.B.	S.C.	ISSUE FOR REVIEW (IFR)

YOKOGAWA ◆ PROJECT Nr. E36672C00
DESCRIPTION: E366772C00-PCS_WD

CROSSWIND | ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
PCS CABINETS WIRING DIAGRAMS AND TERMINAL STRIPS
PCS PANEL -TB-00-JE-12004

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

SCALE : 1

A3

DRAWING NO. 1724000594-IN-DG-00020

SHEET 036

REV. 2

TAG NAME	IO TYPE	MARSH T.S. NAME	T.S. + NUM.	T.S. - NUM.	WIRE NUMBER + (A)	WIRE NUMBER - (A)	WIRE SECTION (A)	WIRE COLOUR + (A)	WIRE COLOUR - (A)	T.B. NAME	T.B. IN +	T.B. IN -	NODE	SLOT	CHANNEL	C.A. NAME A	C.A. NAME B	TYPICAL
25-ZSL-036	DI	TB-00-JE-12005	01	02	03701	03702	1mm²	BK	WH	TB-03-05	05A	05B	03	05	05	CA_03_05	CA_03_06	PCS_DI01
25-ZSH-036	DI	TB-00-JE-12005	03	04	03703	03704	1mm²	BK	WH	TB-03-05	06A	06B	03	05	06	CA_03_05	CA_03_06	PCS_DI01
25-ZSL-038	DI	TB-00-JE-12005	05	06	03705	03706	1mm²	BK	WH	TB-03-05	07A	07B	03	05	07	CA_03_05	CA_03_06	PCS_DI01
25-ZSH-038	DI	TB-00-JE-12005	07	08	03707	03708	1mm²	BK	WH	TB-03-05	08A	08B	03	05	08	CA_03_05	CA_03_06	PCS_DI01
25-ZSL-024	DI	TB-00-JE-12005	09	10	03709	03710	1mm²	BK	WH	TB-03-05	09A	09B	03	05	09	CA_03_05	CA_03_06	PCS_DI01
25-ZSH-024	DI	TB-00-JE-12005	11	12	03711	03712	1mm²	BK	WH	TB-03-05	10A	10B	03	05	10	CA_03_05	CA_03_06	PCS_DI01
WS0101030519	DI	TB-00-JE-12005	13	14	03713	03714	1mm²	BK	WH	TB-03-05	19A	19B	03	05	19	CA_03_05	CA_03_06	PCS_DI01
WS0101030520	DI	TB-00-JE-12005	15	16	03715	03716	1mm²	BK	WH	TB-03-05	20A	20B	03	05	20	CA_03_05	CA_03_06	PCS_DI01
WS0101030521	DI	TB-00-JE-12005	17	18	03717	03718	1mm²	BK	WH	TB-03-05	21A	21B	03	05	21	CA_03_05	CA_03_06	PCS_DI01
WS0101030522	DI	TB-00-JE-12005	19	20	03719	03720	1mm²	BK	WH	TB-03-05	22A	22B	03	05	22	CA_03_05	CA_03_06	PCS_DI01
<2> SPARE	DI	TB-00-JE-12005	21	22														
<2> SPARE	DI	TB-00-JE-12005	23	24														

AS COMMISSIONING
10.05.2025
GIJSBOOMSTRA DE HISSIER
NO MARK UP

REV	DATE	PREPARED	CHECKED	APPROVED	DESCRIPTION
2	11.11.2024	A.G.	A.B.	S.C.	ACCEPTED FOR CONSTRUCTION (AFC)
1	13.09.2024	A.G.	A.B.	S.C.	ISSUE FOR REVIEW (IFR)
0	03.07.2024	A.G.	A.B.	S.C.	ISSUE FOR REVIEW (IFR)

YOKOGAWA ◆ PROJECT Nr. E36672C00
DESCRIPTION: E366772C00-PCS_WD

CROSSWIND | ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
PCS CABINETS WIRING DIAGRAMS AND TERMINAL STRIPS
PCS PANEL -TB-00-JE-12005

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

SCALE : 1

A3

DRAWING NO. 1724000594-IN-DG-00020

SHEET 037

REV. 2

	TAG NAME	IO TYPE	MARSH T.S. NAME	T.S. + NUM.	T.S. - NUM.	WIRE NUMBER + (A)	WIRE NUMBER - (A)	WIRE SECTION (A)	WIRE COLOUR + (A)	WIRE COLOUR - (A)	T.B. NAME	T.B. IN +	T.B. IN -	NODE	SLOT	CHANNEL	C.A. NAME A	C.A. NAME B	TYPICAL
	50-ZSL-001	DI	TB-00-JE-12006	01	02	03801	03802	1mm²	BK	WH	TB-03-05	11A	11B	03	05	11	CA_03_05	CA_03_06	PCS_DI01
	50-ZSH-001	DI	TB-00-JE-12006	03	04	03803	03804	1mm²	BK	WH	TB-03-05	12A	12B	03	05	12	CA_03_05	CA_03_06	PCS_DI01
	50-ZSL-002	DI	TB-00-JE-12006	05	06	03805	03806	1mm²	BK	WH	TB-03-05	13A	13B	03	05	13	CA_03_05	CA_03_06	PCS_DI01
	50-ZSH-002	DI	TB-00-JE-12006	07	08	03807	03808	1mm²	BK	WH	TB-03-05	14A	14B	03	05	14	CA_03_05	CA_03_06	PCS_DI01
	50-ZSL-003	DI	TB-00-JE-12006	09	10	03809	03810	1mm²	BK	WH	TB-03-05	15A	15B	03	05	15	CA_03_05	CA_03_06	PCS_DI01
	50-ZSH-003	DI	TB-00-JE-12006	11	12	03811	03812	1mm²	BK	WH	TB-03-05	16A	16B	03	05	16	CA_03_05	CA_03_06	PCS_DI01
	50-ZSL-004	DI	TB-00-JE-12006	13	14	03813	03814	1mm²	BK	WH	TB-03-05	17A	17B	03	05	17	CA_03_05	CA_03_06	PCS_DI01
	50-ZSH-004	DI	TB-00-JE-12006	15	16	03815	03816	1mm²	BK	WH	TB-03-05	18A	18B	03	05	18	CA_03_05	CA_03_06	PCS_DI01
<2>	50-ZSL-005	DI	TB-00-JE-12006	17	18	03817	03818	1mm²	BK	WH	TB-03-05	25A	25B	03	05	25	CA_03_05	CA_03_06	PCS_DI01
<2>	50-ZSH-005	DI	TB-00-JE-12006	19	20	03819	03820	1mm²	BK	WH	TB-03-05	26A	26B	03	05	26	CA_03_05	CA_03_06	PCS_DI01
	SPARE	DI	TB-00-JE-12006	21	22														
	SPARE	DI	TB-00-JE-12006	23	24														
	64-ZSL-031A	DI	TB-00-JE-12006	25	26	03825	03826	1mm²	BK	WH	TB-02-05	03A	03B	02	05	03	CA_02_05	CA_02_06	PCS_DI01
	64-ZSH-031A	DI	TB-00-JE-12006	27	28	03827	03828	1mm²	BK	WH	TB-02-05	04A	04B	02	05	04	CA_02_05	CA_02_06	PCS_DI01
	64-ZSL-031B	DI	TB-00-JE-12006	29	30	03829	03830	1mm²	BK	WH	TB-03-05	03A	03B	03	05	03	CA_03_05	CA_03_06	PCS_DI01
	64-ZSH-031B	DI	TB-00-JE-12006	31	32	03831	03832	1mm²	BK	WH	TB-03-05	04A	04B	03	05	04	CA_03_05	CA_03_06	PCS_DI01
	SPARE	DI	TB-00-JE-12006	33	34														
	SPARE	DI	TB-00-JE-12006	35	36														
	SPARE	DI	TB-00-JE-12006	37	38														
	SPARE	DI	TB-00-JE-12006	39	40														
	WS0101040513	DI	TB-00-JE-12006	41	42	03841	03842	1mm²	BK	WH	TB-04-05	13A	13B	04	05	13	CA_04_05	CA_04_06	PCS_DI01
	WS0110040514	DI	TB-00-JE-12006	43	44	03843	03844	1mm²	BK	WH	TB-04-05	14A	14B	04	05	14	CA_04_05	CA_04_06	PCS_DI01
	WS0110040515	DI	TB-00-JE-12006	45	46	03845	03846	1mm²	BK	WH	TB-04-05	15A	15B	04	05	15	CA_04_05	CA_04_06	PCS_DI01
	SPARE	DI	TB-00-JE-12006	47	48														

<2> <2>

DS COMMISSIONING
10-05-2025
GLASDONSZO DOZ MISSIER
NO MARK UP

REV	DATE	PREPARED	CHECKED	APPROVED	DESCRIPTION
2	11.11.2024	A.G.	A.B.	S.C.	ACCEPTED FOR CONSTRUCTION (AFC)
1	13.09.2024	A.G.	A.B.	S.C.	ISSUE FOR REVIEW (IFR)
0	03.07.2024	A.G.	A.B.	S.C.	ISSUE FOR REVIEW (IFR)

YOKOGAWA ◆ PROJECT Nr. E36672C00
DESCRIPTION: E366772C00-PCS_WD

CROSSWIND | ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
PCS CABINETS WIRING DIAGRAMS AND TERMINAL STRIPS
PCS PANEL -TB-00-JE-12006

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

SCALE : 1

A3

DRAWING NO. 1724000594-IN-DG-00020

SHEET 038

REV. 2

TAG NAME	IO TYPE	MARSH T.S. NAME	T.S. + NUM.	T.S. - NUM.	WIRE NUMBER + (A)	WIRE NUMBER - (A)	WIRE SECTION (A)	WIRE COLOUR + (A)	WIRE COLOUR - (A)	RELAY	WIRE PS + (B)	WIRE PS - (B)	WIRE NUMBER + (C)	WIRE COLOUR + (B)	WIRE COLOUR - (B)	WIRE SECTION (B)	WIRE COLOUR + (C)	WIRE SECTION (C)	T.B. NAME	T.B. IN +	T.B. IN -	NODE	SLOT	CHANNEL	C.A. NAME A	C.A. NAME B	TYPICAL
25-XY-006	DO	TB-00-JE-13001	01	02	03901	03902	1mm²	BK	WH	R-SOV01	039025	039026	039027	RD	BL	1mm²	BK	1mm²	TB-04-07	01A	01B	04	07	01	CA_04_07	CA_04_08	PCS_DO02
25-XY-009	DO	TB-00-JE-13001	03	04	03903	03904	1mm²	BK	WH	R-SOV02	039028	039029	039030	RD	BL	1mm²	BK	1mm²	TB-04-07	02A	02B	04	07	02	CA_04_07	CA_04_08	PCS_DO02
25-XY-012	DO	TB-00-JE-13001	05	06	03905	03906	1mm²	BK	WH	R-SOV03	039031	039032	039033	RD	BL	1mm²	BK	1mm²	TB-04-07	03A	03B	04	07	03	CA_04_07	CA_04_08	PCS_DO02
25-XY-015	DO	TB-00-JE-13001	07	08	03907	03908	1mm²	BK	WH	R-SOV04	039034	039035	039036	RD	BL	1mm²	BK	1mm²	TB-04-07	04A	04B	04	07	04	CA_04_07	CA_04_08	PCS_DO02
25-XY-018	DO	TB-00-JE-13001	09	10	03909	03910	1mm²	BK	WH	R-SOV05	039037	039038	039039	RD	BL	1mm²	BK	1mm²	TB-04-07	05A	05B	04	07	05	CA_04_07	CA_04_08	PCS_DO02
25-XY-021	DO	TB-00-JE-13001	11	12	03911	03912	1mm²	BK	WH	R-SOV06	039040	039041	039042	RD	BL	1mm²	BK	1mm²	TB-04-07	06A	06B	04	07	06	CA_04_07	CA_04_08	PCS_DO02
80-XY-001	DO	TB-00-JE-13001	13	14	03913	03914	1mm²	BK	WH	R-SOV07	039043	039044	039045	RD	BL	1mm²	BK	1mm²	TB-04-07	18A	18B	04	07	18	CA_04_07	CA_04_08	PCS_DO02
PD 43-FT-001	-	TB-00-JE-13001	15	16	02025	02026	1mm²	RD	BL	-	-	-	-						-	-	-	-	-	-	-	-	-
WS0101040719	DO	TB-00-JE-13001	17	18	03917	03918	1mm²	BK	WH	-	-	-	-						TB-04-07	19A	19B	04	07	19	CA_04_07	CA_04_08	PCS_DO01
WS0101040720	DO	TB-00-JE-13001	19	20	03919	03920	1mm²	BK	WH	-	-	-	-						TB-04-07	20A	20B	04	07	20	CA_04_07	CA_04_08	PCS_DO01
WS0101040721	DO	TB-00-JE-13001	21	22	03921	03922	1mm²	BK	WH	-	-	-	-						TB-04-07	21A	21B	04	07	21	CA_04_07	CA_04_08	PCS_DO01
WS0101040722	DO	TB-00-JE-13001	23	24	03923	03924	1mm²	BK	WH	-	-	-	-						TB-04-07	22A	22B	04	07	22	CA_04_07	CA_04_08	PCS_DO01

<2>

AS COMMISSIONING
10.05.2025
GIANDOMENICO DE MESSIER

REV	DATE	PREPARED	CHECKED	APPROVED	DESCRIPTION
2	11.11.2024	A.G.	A.B.	S.C.	ACCEPTED FOR CONSTRUCTION (AFC)
1	13.09.2024	A.G.	A.B.	S.C.	ISSUE FOR REVIEW (IFR)
0	03.07.2024	A.G.	A.B.	S.C.	ISSUE FOR REVIEW (IFR)

YOKOGAWA ◆ PROJECT Nr. E36672C00
DESCRIPTION: E366772C00-PCS_WD

CROSSWIND | ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
PCS CABINETS WIRING DIAGRAMS AND TERMINAL STRIPS
PCS PANEL -TB-00-JE-13001

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

SCALE : 1

A3

DRAWING NO. 1724000594-IN-DG-00020

SHEET 039

REV. 2

PCS PANEL -TB-00-JE-13002

IO TYPE	MARSH T.S. NAME	T.S. + NUM.	T.S. - NUM.	WIRE NUMBER +(A)	WIRE NUMBER - (A)	WIRE SECTION (A)	WIRE COLOUR +(A)	WIRE COLOUR - (A)	RELAY	WIRE PS +(B)	WIRE PS -(B)	WIRE NUMBER +(C)	WIRE COLOUR +(B)	WIRE COLOUR -(B)	WIRE SECTION (B)	WIRE COLOUR +(C)	WIRE SECTION (C)	T.B. NAME	T.B. IN +	T.B. IN -	NODE	SLOT	CHANNEL	C.A. NAME A	C.A. NAME B	TYPICAL
DO	TB-00-JE-13002	01	02	04001	04002	1mm²	BK	WH	R-SOV08	04015	04016	04017	RD	BL	1mm²	BK	1mm²	TB-04-07	07A	07B	04	07	07	CA_04_07	CA_04_08	PCS_DO02
DO	TB-00-JE-13002	03	04	04003	04004	1mm²	BK	WH	R-SOV09	04018	04019	04020	RD	BL	1mm²	BK	1mm²	TB-04-07	08A	08B	04	07	08	CA_04_07	CA_04_08	PCS_DO02
DO	TB-00-JE-13002	05	06	04005	04006	1mm²	BK	WH	R-SOV10	04021	04022	04023	RD	BL	1mm²	BK	1mm²	TB-04-07	09A	09B	04	07	09	CA_04_07	CA_04_08	PCS_DO02
DO	TB-00-JE-13002	07	08	04007	04008	1mm²	BK	WH	R-SOV11	04024	04025	04026	RD	BL	1mm²	BK	1mm²	TB-04-07	10A	10B	04	07	10	CA_04_07	CA_04_08	PCS_DO02
DO	TB-00-JE-13002	09	10	04009	04010	1mm²	BK	WH	R-SOV12	04027	04028	04029	RD	BL	1mm²	BK	1mm²	TB-04-07	11A	11B	04	07	11	CA_04_07	CA_04_08	PCS_DO02
DO	TB-00-JE-13002	11	12	04011	04012	1mm²	BK	WH	R-SOV13	04030	04031	04032	RD	BL	1mm²	BK	1mm²	TB-04-07	12A	12B	04	07	12	CA_04_07	CA_04_08	PCS_DO02
DO	TB-00-JE-13002	13	14	04013	04014	1mm²	BK	WH	R-SOV14	04033	04034	04035	RD	BL	1mm²	BK	1mm²	TB-04-07	13A	13B	04	07	13	CA_04_07	CA_04_08	PCS_DO02
-	TB-00-JE-13002	15	16	-	-	-	-	-	-	-	-	-						-	-	-	-	-	-	-	-	-
-	TB-00-JE-13002	17	18	-	-	-	-	-	-	-	-	-						-	-	-	-	-	-	-	-	-
-	TB-00-JE-13002	19	20	-	-	-	-	-	-	-	-	-						-	-	-	-	-	-	-	-	-
-	TB-00-JE-13002	21	22	-	-	-	-	-	-	-	-	-						-	-	-	-	-	-	-	-	-
-	TB-00-JE-13002	23	24	-	-	-	-	-	-	-	-	-						-	-	-	-	-	-	-	-	-

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AS COMMISSIONING
10-05-2025
GIANDONATO DEL MISSIER

REV	DATE	PREPARED	CHECKED	APPROVED	DESCRIPTION
2	11.11.2024	A.G.	A.B.	S.C.	ACCEPTED FOR CONSTRUCTION (AFC)
1	13.09.2024	A.G.	A.B.	S.C.	ISSUE FOR REVIEW (IFR)
0	03.07.2024	A.G.	A.B.	S.C.	ISSUE FOR REVIEW (IFR)

YOKOGAWA ◆ PROJECT Nr. E36672C00
DESCRIPTION: E366772C00-PCS_WD

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
PCS CABINETS WIRING DIAGRAMS AND TERMINAL STRIPS
PCS PANEL -TB-00-JE-13002

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

SCALE : 1

A3

DRAWING NO. 1724000594-IN-DG-00020

SHEET 040

REV. 2

PCS PANEL -TB-00-JE-13003

TAG NAME	IO TYPE	MARSH T.S. NAME	T.S. + NUM.	T.S. - NUM.	WIRE NUMBER +(A)	WIRE NUMBER - (A)	WIRE SECTION (A)	WIRE COLOUR +(A)	WIRE COLOUR - (A)	RELAY	WIRE PS +(B)	WIRE PS -(B)	WIRE NUMBER +(C)	WIRE COLOUR +(B)	WIRE COLOUR -(B)	WIRE SECTION (B)	WIRE COLOUR +(C)	WIRE SECTION (C)	T.B. NAME	T.B. IN +	T.B. IN -	NODE	SLOT	CHANNEL	C.A. NAME A	C.A. NAME B	TYPICAL
50-XY-001	DO	TB-00-JE-13003	01	02	04101	04102	1mm²	BK	WH	R-SOV15	04111	04112	04113	RD	BL	1mm²	BK	1mm²	TB-04-07	14A	14B	04	07	14	CA_04_07	CA_04_08	PCS_DO02
50-XY-002	DO	TB-00-JE-13003	03	04	04103	04104	1mm²	BK	WH	R-SOV16	04114	04115	04116	RD	BL	1mm²	BK	1mm²	TB-04-07	15A	15B	04	07	15	CA_04_07	CA_04_08	PCS_DO02
50-XY-003	DO	TB-00-JE-13003	05	06	04105	04106	1mm²	BK	WH	R-SOV17	04117	04118	04119	RD	BL	1mm²	BK	1mm²	TB-04-07	16A	16B	04	07	16	CA_04_07	CA_04_08	PCS_DO02
50-XY-004	DO	TB-00-JE-13003	07	08	04107	04108	1mm²	BK	WH	R-SOV18	04120	04121	04122	RD	BL	1mm²	BK	1mm²	TB-04-07	17A	17B	04	07	17	CA_04_07	CA_04_08	PCS_DO02
50-XY-005	DO	TB-00-JE-13003	09	10	04109	04110	1mm²	BK	WH	R-SOV19	04123	04124	04125	RD	BL	1mm²	BK	1mm²	TB-04-07	29A	29B	04	07	29	CA_04_07	CA_04_08	PCS_DO02

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AS COMMISSIONING
10-05-2025
GIANDOMENICO DE MISSIER

REV	DATE	PREPARED	CHECKED	APPROVED	DESCRIPTION
2	11.11.2024	A.G.	A.B.	S.C.	ACCEPTED FOR CONSTRUCTION (AFC)
1	13.09.2024	A.G.	A.B.	S.C.	ISSUE FOR REVIEW (IFR)
0	03.07.2024	A.G.	A.B.	S.C.	ISSUE FOR REVIEW (IFR)

YOKOGAWA ◆ PROJECT Nr. E36672C00
DESCRIPTION: E366772C00-PCS_WD

CROSSWIND | ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
PCS CABINETS WIRING DIAGRAMS AND TERMINAL STRIPS
PCS PANEL -TB-00-JE-13003

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

SCALE : 1

A3

DRAWING NO. 1724000594-IN-DG-00020

SHEET 041

REV. 2

	TAG NAME	IO TYPE	MARSH T.S. NAME	T.S. + NUM.	T.S. - NUM.	WIRE NUMBER + (A)	WIRE NUMBER - (A)	WIRE SECTION (A)	WIRE COLOUR + (A)	WIRE COLOUR - (A)	T.B. NAME	T.B. IN +	T.B. IN -	NODE	SLOT	CHANNEL	C.A. NAME A	C.A. NAME B	TYPICAL
	B100-TDC-001	DI	TB-00-JE-BX00	01	02	04201	04202	1mm²	BK	WH	TB-04-05	01A	01B	04	05	01	CA_04_05	CA_04_06	PCS_DI01
	B100-TDC-002	DI	TB-00-JE-BX00	03	04	04203	04204	1mm²	BK	WH	TB-04-05	02A	02B	04	05	02	CA_04_05	CA_04_06	PCS_DI01
<2>	B100-TIR-001	DI	TB-00-JE-BX00	05 & 07	06 & 08	04205 / 04207	04206 / 04208	1mm²	BK	WH	TB-04-05	03A	03B	04	05	03	CA_04_05	CA_04_06	PCS_DI01
	B200-TDC-001	DI	TB-00-JE-BX00	09	10	04209	04210	1mm²	BK	WH	TB-04-05	04A	04B	04	05	04	CA_04_05	CA_04_06	PCS_DI01
	B200-TDC-002	DI	TB-00-JE-BX00	11	12	04211	04212	1mm²	BK	WH	TB-04-05	05A	05B	04	05	05	CA_04_05	CA_04_06	PCS_DI01
<2>	B200-TIR-001	DI	TB-00-JE-BX00	13 & 15	14 & 16	04213 / 04215	04214 / 04216	1mm²	BK	WH	TB-04-05	06A	06B	04	05	06	CA_04_05	CA_04_06	PCS_DI01
	B300-TDC-001	DI	TB-00-JE-BX00	17	18	04217	04218	1mm²	BK	WH	TB-04-05	07A	07B	04	05	07	CA_04_05	CA_04_06	PCS_DI01
	B300-TDC-002	DI	TB-00-JE-BX00	19	20	04219	04220	1mm²	BK	WH	TB-04-05	08A	08B	04	05	08	CA_04_05	CA_04_06	PCS_DI01
<2>	B300-TIR-001	DI	TB-00-JE-BX00	21 & 23	22 & 24	04221 / 04223	04222 / 04224	1mm²	BK	WH	TB-04-05	09A	09B	04	05	09	CA_04_05	CA_04_06	PCS_DI01
	B400-TDC-001	DI	TB-00-JE-BX00	25	26	04225	04226	1mm²	BK	WH	TB-04-05	10A	10B	04	05	10	CA_04_05	CA_04_06	PCS_DI01
	B400-TDC-002	DI	TB-00-JE-BX00	27	28	04227	04228	1mm²	BK	WH	TB-04-05	11A	11B	04	05	11	CA_04_05	CA_04_06	PCS_DI01
<2>	B400-TIR-001	DI	TB-00-JE-BX00	29 & 31	30 & 32	04229 / 04231	04230 / 04232	1mm²	BK	WH	TB-04-05	12A	12B	04	05	12	CA_04_05	CA_04_06	PCS_DI01

TERMINALS 07/08/15/16/23/24/31/32 ARE DEDICATED TO 12Vdc POWER SUPPLY TO "TIR" MOTION DETECTORS (COMING FROM SHEET 015) <2>

AS COMMISSIONING
10-05-2025
GIANDONATO Mission
NO MARK UP

REV	DATE	PREPARED	CHECKED	APPROVED	DESCRIPTION
2	11.11.2024	A.G.	A.B.	S.C.	ACCEPTED FOR CONSTRUCTION (AFC)
1	13.09.2024	A.G.	A.B.	S.C.	ISSUE FOR REVIEW (IFR)
0	03.07.2024	A.G.	A.B.	S.C.	ISSUE FOR REVIEW (IFR)

YOKOGAWA ◆ PROJECT Nr. E36672C00
DESCRIPTION: E366772C00-PCS_WD

CROSSWIND | ROSETTI MARINO

TITLE: BASE LOAD POWER HUB (BLPH)
PCS CABINETS WIRING DIAGRAMS AND TERMINAL STRIPS
PCS PANEL -TB-00-JE-BX00

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

SCALE: 1

A3

DRAWING NO. 1724000594-IN-DG-00020

SHEET 042

REV. 2

TAG NAME	IO TYPE	MARSH T.S. NAME	T.S. + NUM.	T.S. - NUM.	WIRE NUMBER + (A)	WIRE NUMBER - (A)	WIRE SECTION (A)	WIRE COLOUR + (A)	WIRE COLOUR - (A)	T.B. NAME	T.B. IN +	T.B. IN -	NODE	SLOT	CHANNEL	C.A. NAME A	C.A. NAME B	TYPICAL
63-PT-003	AI	TB-C-63-PT-003	01	02	04301	04302	1mm²	BK	WH	TB-03-01	11A	11B	03	01	11	CA_03_01	CA_03_02	PCS_AI01

AS COMMISSIONING
10-05-2025
GIANDONATO DE MISSIER
NO MARK UP

REV	DATE	PREPARED	CHECKED	APPROVED	DESCRIPTION
2	11.11.2024	A.G.	A.B.	S.C.	ACCEPTED FOR CONSTRUCTION (AFC)
1	13.09.2024	A.G.	A.B.	S.C.	ISSUE FOR REVIEW (IFR)
0	03.07.2024	A.G.	A.B.	S.C.	ISSUE FOR REVIEW (IFR)

YOKOGAWA ◆ PROJECT Nr. E36672C00
DESCRIPTION: E366772C00-PCS_WD

CROSSWIND | ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
PCS CABINETS WIRING DIAGRAMS AND TERMINAL STRIPS
PCS PANEL -TB-C-63-PT-003

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

SCALE : 1

A3

DRAWING NO. 1724000594-IN-DG-00020

SHEET 043

REV. 2

Section 4.5 Telecommunication functional test sheets index

NOT APPLICABLE

Section 4.6 Telecommunication
“As-Commissioned” I.C.D. / TSLD's

NOT APPLICABLE

Section 5 SITE / OPERATIONAL

Section 5.1 Operational Test Procedure

Section 5.2 Operational Test Certificates

NOT APPLICABLE

Section 6 PIPING AND VESSEL PREPARATION

Section 6.1 Final Mechanical / Vessel Inspection Checks Index

NOT APPLICABLE

Section 6.2 Leak Test / Drying / Inerting Test Sheets Index

NOT APPLICABLE

Section 6.3 Chemical Loading & First Fill records Index

NOT APPLICABLE

Section 6.4 Chemical Cleaning Reports and Records Index

NOT APPLICABLE

Section 6.5 Lubrication Schedule

NOT APPLICABLE

Section 7 VENDOR

Section 7.1 Vendor Package Summary Index

NOT APPLICABLE

Section 7.2 SAT Procedure with associated punch list and reference (Front Page)

NOT APPLICABLE

Section 7.3 Vendor Spares & Special Tools lists references

NOT APPLICABLE

Section 7.4 Vendor Data / Operations / Maintenance Manuals References

CAE EPLAN Electric P8

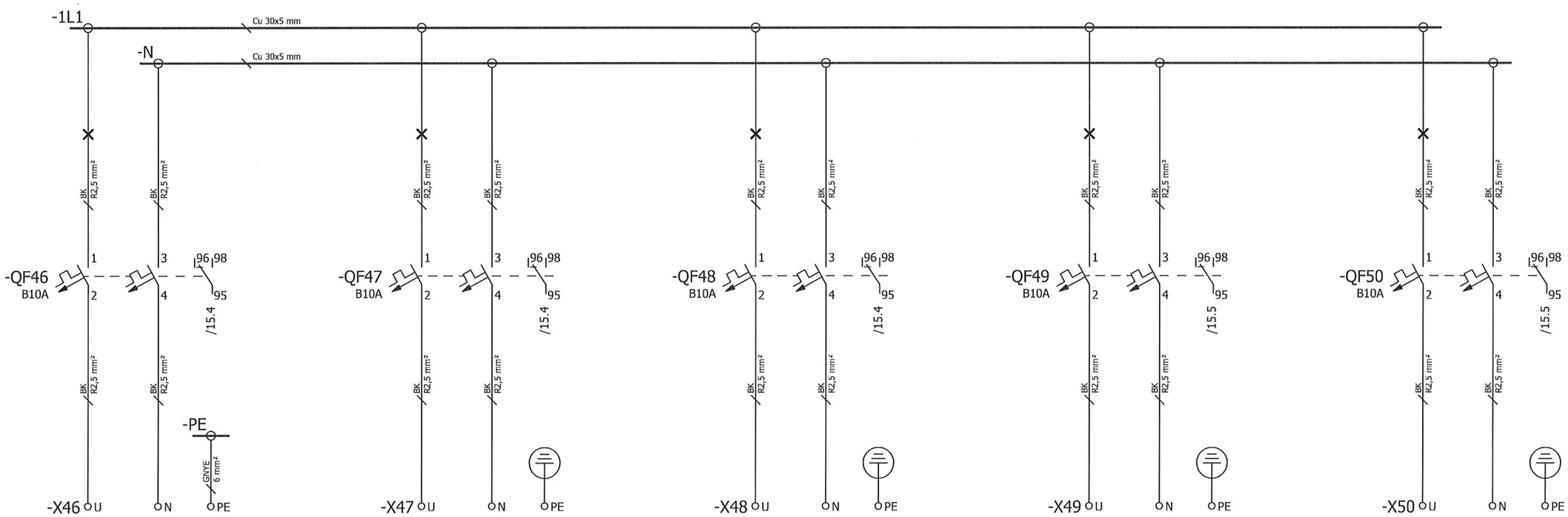
VALID FOR CONSTRUCTION
VENDOR DOCUMENT - FDL DWG:
123A90-FDL-1724000372-EL-DG-00009

REV.:	DATE:	SIGNATURE:
3_A	15/11/24	G.Randi

ROSETTI MARINO SpA

AS-COMMISSIONED
DAVIDE ZUCCONELLI
NO MARK UP
21/03/2025

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Load
230V/N/PE~50Hz

B400-PCS-001
PCS-CONTROLLER AND I/O
CABINET-LINE B - 1.5KW

Load
230V/N/PE~50Hz

B400-EMCS-001
EMCS-CONTROLLER AND I/O
CABINET-LINE A - 1KW

Load
230V/N/PE~50Hz

B400-EMCS-001
EMCS-CONTROLLER AND I/O
CABINET-LINE B - 1KW

Load
230V/N/PE~50Hz

SG-200-N1
LV SWITCHBOARD AUXILIARY
1KW

Load
230V/N/PE~50Hz

SPARE

1000007888_010

				Date	23.05.2024
01	500000002053	13.08.2024	Beckschäfer	Editor	Beckschäfer
02	500000002089	27.08.2024	Beckschäfer	Checked	Ch.Peck
Stat	Alteration	Date	Name	Norm	

ROSETTI MARINO
Hollandse Kust Noord (HKN) wind farm

AEG POWER SOLUTIONS

Load
Bypass transformer cabinet
with manual bypass 40 kVA
Circuit diagram

1000007888.020
10009757

1000007888_010 en

=
+ MBC1
& EFS

A3

sheet 10
sheets 17

CAE EPLAN Electric P8

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VALID FOR CONSTRUCTION
VENDOR DOCUMENT - FDL DWG:
123A90-FDL-1724000372-EL-DG-00009

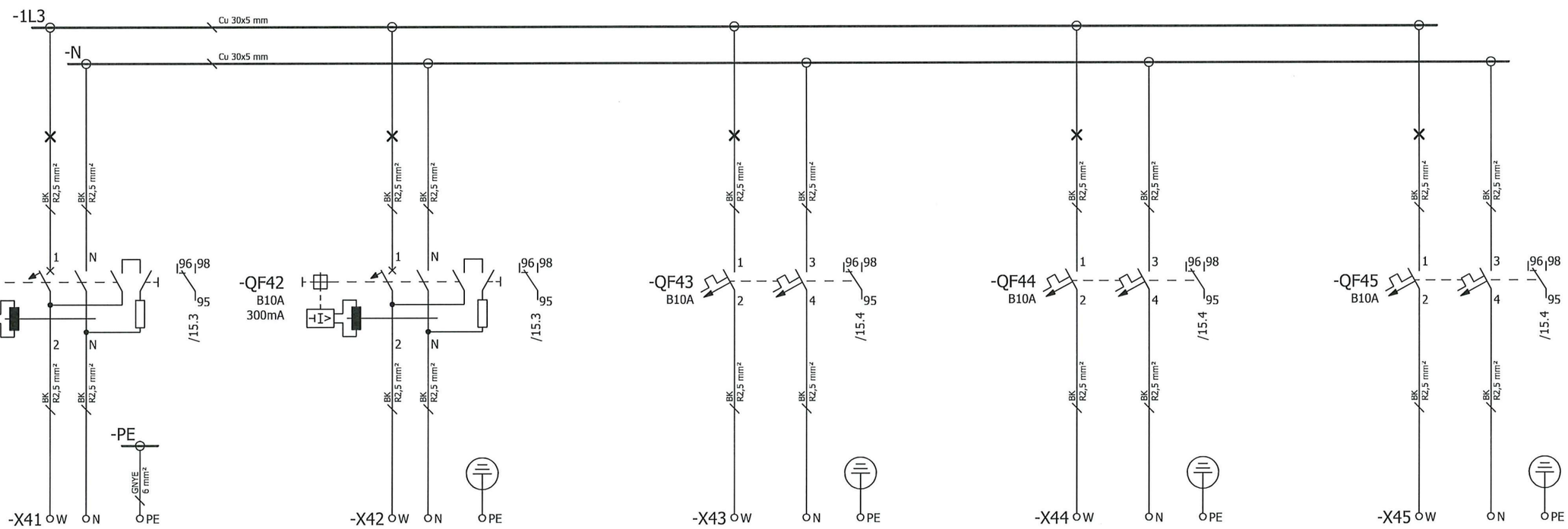
REV.:	DATE:	SIGNATURE:
3_A	15/11/24	G.Randi

ROSETTI MARINO SpA

NO MARK UP

AS COMMISSIONED: MARIA GIROTTI

24/3/25



Load
230V/N/PE~50Hz

B300-HSB-001
UCP-HVAC UPS ROOM
0.5KW

Load
230V/N/PE~50Hz

B300-HSB-001
UCP-HVAC ITER
0.5KW

Load
230V/N/PE~50Hz

B400-SIS-001
SIS-CONTROLLER AND I/O
CABINET-LINE A - 1KW

Load
230V/N/PE~50Hz

B400-SIS-001
SIS-CONTROLLER AND I/O
CABINET-LINE B - 1KW

Load
230V/N/PE~50Hz

B400-PCS-001
PCS-CONTROLLER AND I/O
CABINET-LINE A - 1.5KW

1000007888_010

				Date	23.05.2024
01	500000002053	13.08.2024	Beckschäfer	Editor	Beckschäfer
02	500000002089	27.08.2024	Beckschäfer	Checked	Ch.Peck
Stat	Alteration	Date	Name	Norm	

ROSETTI MARINO
Hollandse Kust Noord (HKN) wind farm

AEG POWER SOLUTIONS

Load
Bypass transformer cabinet
with manual bypass 40 kVA
Circuit diagram

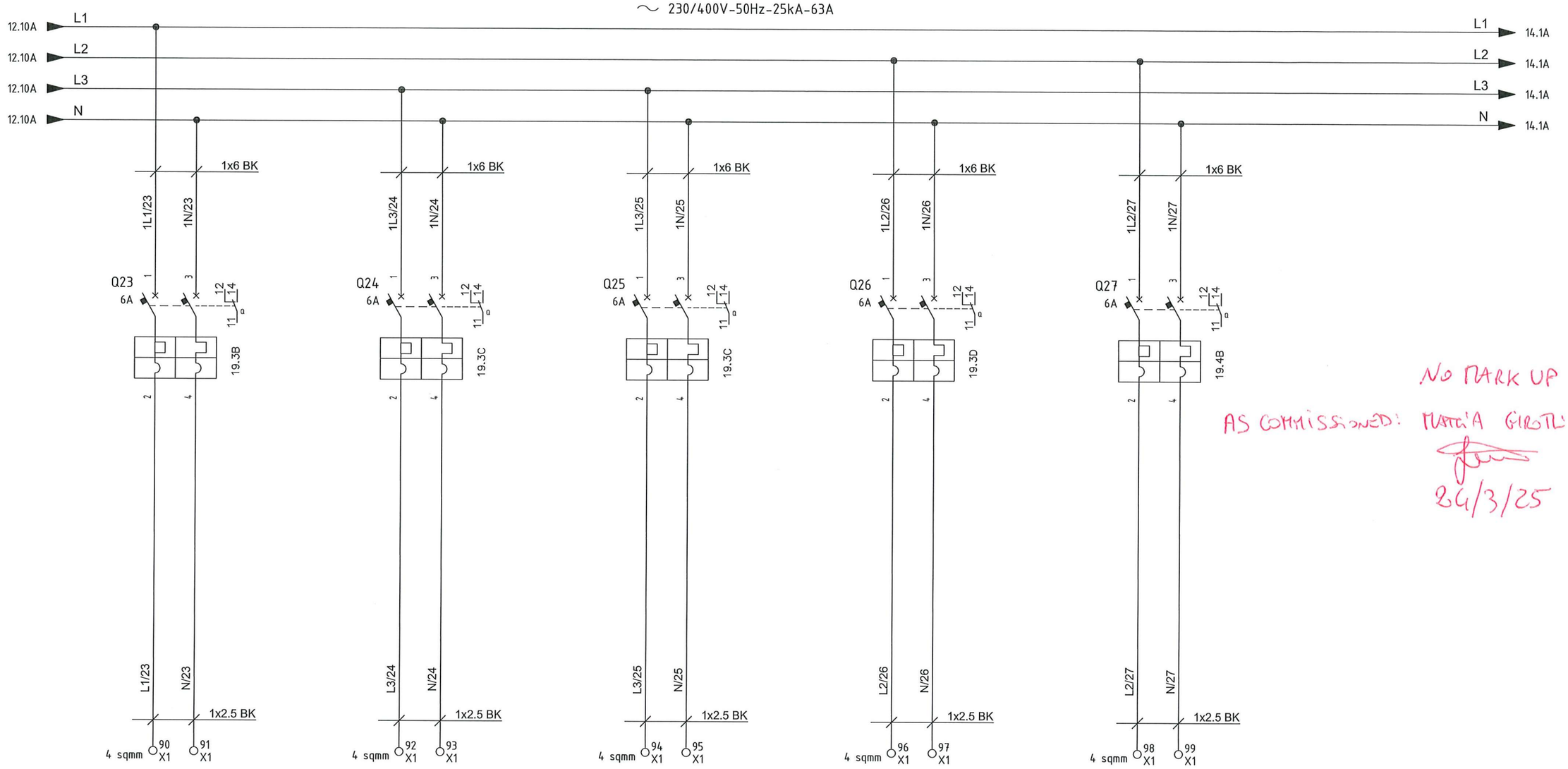
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10009757

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=
+ MBC1
& EFS

A3

sheet 9
sheets 17



B400-SIS-001
SIS - Controller and I/O Cabinet - Auxiliary
(3G2.5 sqmm)

B400-PCS-001
PCS - Controller and I/O Cabinet - Auxiliary
(3G2.5 sqmm)

B400-EMCS-001
EMCS - Controller and I/O Cabinet - Auxiliary
(3G2.5 sqmm)

B400-FGS-001
FGS Fire & Gas Panel - Auxiliary
(3G2.5 sqmm)

B400-NET-001
System Server / Network Cabinet - Auxiliary
(3G2.5 sqmm)

NO MARK UP
AS COMMISSIONED: MATTIA GIROTTI
24/3/25

VALID FOR CONSTRUCTION
VENDOR DOCUMENT - FDL DWG:
123A90-FDL-1724002197-EL-DG-00033
REV.: 3_A | DATE: 18/03/25 | SIGNATURE: G.Randi
ROSETTI MARINO SpA

CROSSWIND

IMESA ELECTRICAL ENGINEERING

ROSETTI MARINO

DWG n° : 231298/SD/33
Item n° : PF1002888/101

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
=					
+					
3	12/03/2025	Santinelli	Flamminio	Sigismondi	Replaced Twiligh Switch TW1
2	19/08/2024	Santinelli	Flamminio	Sigismondi	As Built (ASB)
1	05/07/2024	Santinelli	Flamminio	Sigismondi	Accepted for construction (AFC)
0	29/05/2024	Santinelli	Flamminio	Sigismondi	Issued for review (IFR)

TITLE : "DP-200N1"
LV SWBD FUNCTIONAL DIAGRAMS
Functional Drawing

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

A3 | DRAWING NO. 1723002197-EL-DG-00033 | SHEET 1.3 | REV. 03

F.to UNI A3: 420mmx297mm

File Name : 1723002197-EL-DG-00033 Rev. 03

Section 8 LIST OF MODIFICATIONS

NOT APPLICABLE

Section 8.1 List of changes

NOT APPLICABLE

Section 9 SUPPORTING DOCUMENTS

NOT APPLICABLE