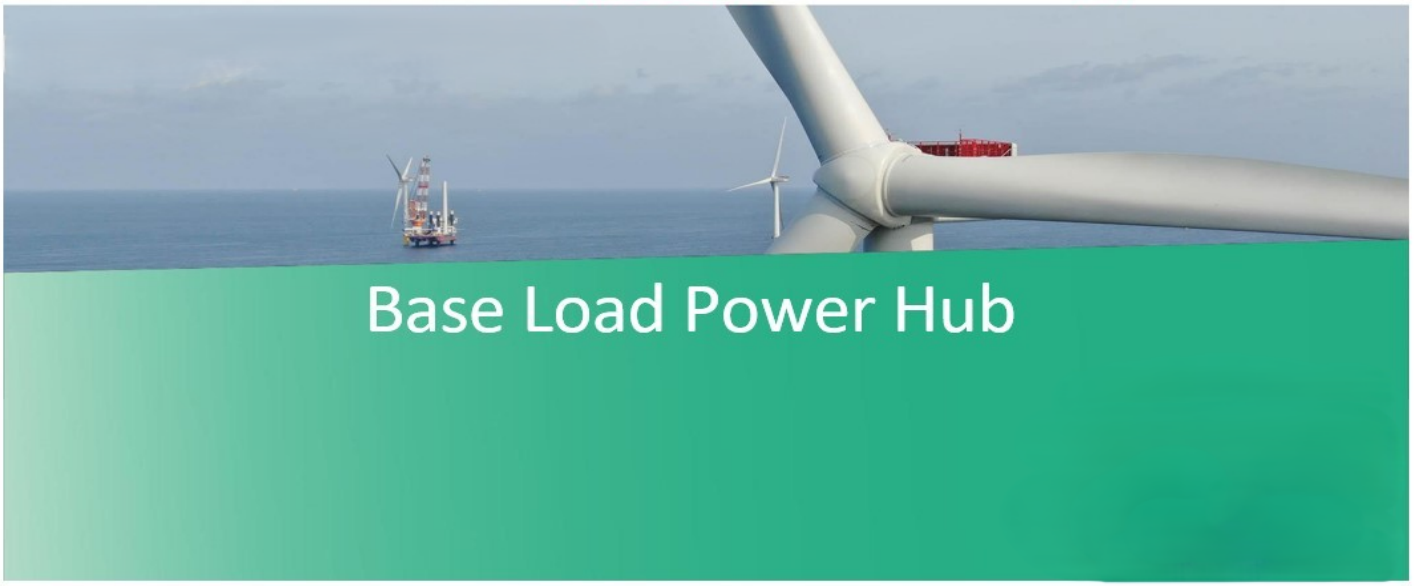
CROSSWIND

ROSETTI MARINO

PROVERUS

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



COMMISSIONING DOSSIER (ONSHORE)

SYSTEM	83 Main Power Distribution Low Voltage 440 V
SUBSYSTEM	83-65 Electrical Heat Tracing

CROSSWIND

123A90 - HOLLANDSE KUST NOORD WIND PARK
BLPH Project

COMMISSIONING DOSSIER INDEX

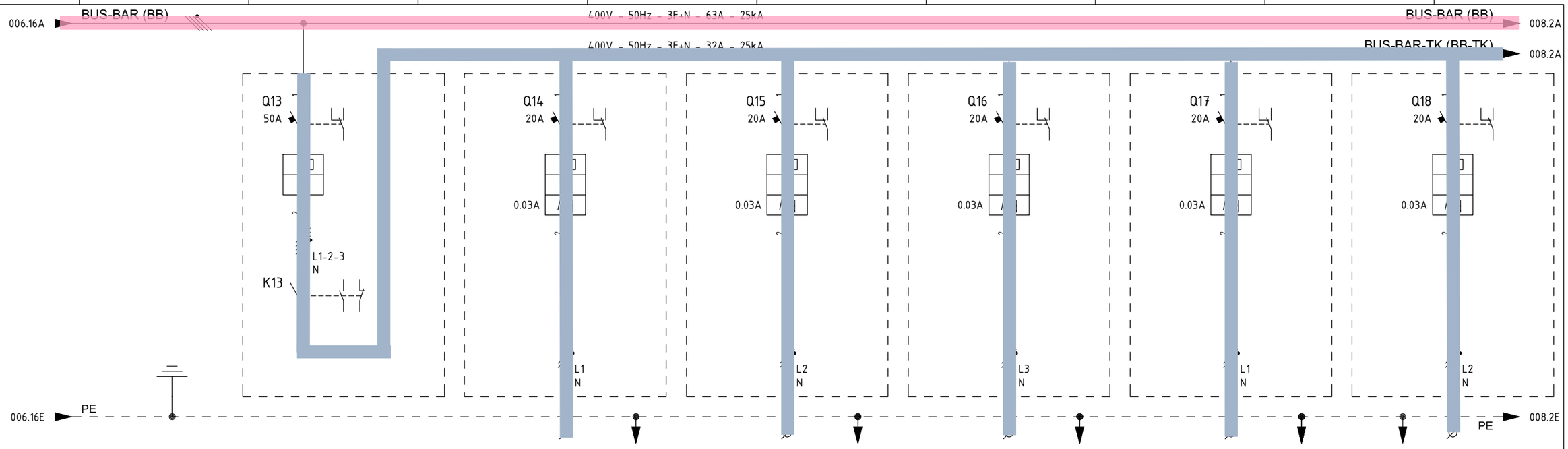
ROSETTI MARINO

Sub System N°:	83-65	**Tick as appropriate**	ONSHORE	OK
Description:	Electrical Heat Tracing		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	Martin Taylor
Date	2025-06-05	2025-06-11
Signature	PROVERLIS Digitaly signed by Anthony Iveson 2025-06-05T14:11:43.454Z	PROVERLIS Digitaly signed by Martin Taylor 2025-06-11T11:26:20.205Z

Section 1 SUB-SYSTEM DEFINITION



ITEM			1	-	ETB-200N1-14-L1-01	ETB-200N1-15-L2-01	ETB-200N1-16-L3-01	ETB-200N1-17-L1-01	ETB-200N1-18-L2-01
UTILITY			2	TRACE HEATING MAIN C.B.	TRACE HEATING - PROCESS LINES - FEEDER 1 (SWS LINES)	TRACE HEATING - PROCESS LINES - FEEDER 2 (CI LINES)	TRACE HEATING - PROCESS LINES - FEEDER 3 (DM LINE)	TRACE HEATING - PROCESS LINES - FEEDER 4 (WW LINES)	TRACE HEATING - PROCESS LINES - FEEDER 5 (VASSEL KO DRUM)
CUBICLE			3	+02	+02	+02	+02	+03	+03
RATED POWER | RATED CURRENT			4/5	34.6 KW | 50 A	3.5 KW | 15.22 A	3.5 KW | 15.22 A	3.5 KW | 15.22 A	3.5 KW | 15.22 A	3.5 KW | 15.22 A
TYPICAL FUNCTIONAL			6	-	-	-	-	-	-
CIRCUIT BREAKER (ABB)	TYPE		7	S804C-C50	S302P-C20 + DDA202 AC-25/0.03	S302P-C20 + DDA202 AC-25/0.03	S302P-C20 + DDA202 AC-25/0.03	S302P-C20 + DDA202 AC-25/0.03	S302P-C20 + DDA202 AC-25/0.03
	VERSION		8	4P / MINIATURE	2P / MINIATURE	2P / MINIATURE	2P / MINIATURE	2P / MINIATURE	2P / MINIATURE
	TRIP UNITS		9	In=50A - curve C	In=20A - Curve C / Id=0.03A Class AC	In=20A - Curve C / Id=0.03A Class AC	In=20A - Curve C / Id=0.03A Class AC	In=20A - Curve C / Id=0.03A Class AC	In=20A - Curve C / Id=0.03A Class AC
	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	SUB SYSTEM 83-65	SUBSYSTEM 83-65	SUBSYSTEM 83-65	SUBSYSTEM 83-65	SUBSYSTEM 83-65	SUBSYSTEM 83-65
INST. SHORT-CIRCUIT	I	Range A	15						
		Range t	16						
EARTH FAULT PROTECTION	G	Range A	17	-	-	-	-	-	-
		Range t	18	-	-	-	-	-	-
CONTACTOR (ABB)			19	ESB63-40N-06; 4x63A AC1; Vaux=230Vdc/ac	-	-	-	-	-
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 / 6	SCREW / 6	SCREW / 6	SCREW / 6	SCREW / 6
POWER CONDUCTOR		mm²	31	-	3G6	3G6	3G6	3G6	3G6

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

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

IMESA ELECTRICAL ENGINEERING

CROSSWIND

ROSETTI MARINO

TITLE : "DP-200N1"

SINGLE LINE DIAGRAM

Single Line Drawing

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

SCALE : NTS

A3

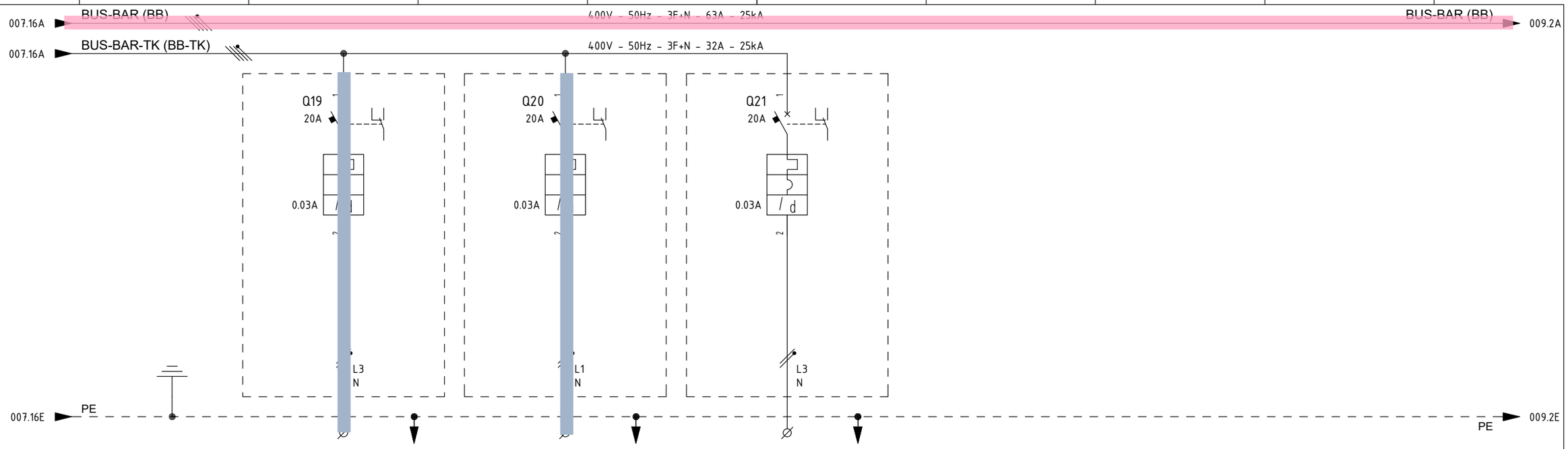
DRAWING NO. 1723002197-EL-DG-00013

SHEET 007

REV. 03

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

F.to UNI A3: 420mmx297mm



ITEM			1	ETB-200N1-19-L3-01		ETB-200N1-20-L1-01		-				
UTILITY			2	TRACE HEATING - PROCESS LINES - FEEDER 6 (H2 VENT)		TRACE HEATING - PROCESS LINES - FEEDER 7 (SEA WATER PUMPS)		TRACE HEATING - SPARE				
CUBICLE			3	+03		+03		+03				
RATED POWER | RATED CURRENT			4/5	2.5 KW	10.87 A	2.5 KW	10.87 A	3.5 KW	15.22 A			
TYPICAL FUNCTIONAL			6	-		-		-				
CIRCUIT BREAKER (ABB)	TYPE		7	S302P-C20 + DDA202 AC-25/0.03		S302P-C20 + DDA202 AC-25/0.03		S302P-C20 + DDA202 AC-25/0.03				
	VERSION		8	2P / MINIATURE		2P / MINIATURE		2P / MINIATURE				
	TRIP UNITS		9	In=20A - Curve C / Id=0.03A Class AC		In=20A - Curve C / Id=0.03A Class AC		In=20A - Curve C / Id=0.03A Class AC				
	Icu	KA	10	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 / 6		SCREW / 6		SCREW / 6				
POWER CONDUCTOR		mm²	31	3G6		3G6		-				

SUBSYSTEM 83-65

SUBSYSTEM 83-65

CROSSWIND

IMESA ELECTRICAL ENGINEERING

ROSETTI MARINO

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)

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 008

REV. 03

F.to UNI A3: 420mmx297mm

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

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:	2025-05-28	
System:	83	/	Main Power Distribution Low Voltage 440 V		
SubSystem:	83-65	/	Electrical Heat Tracing		

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: 2

REMARKS:

	CONTRACTOR Commissioning Manager	**COMPANY** Commissioning Lead
Name	Anthony Iveson	Martin Taylor
Date	2025-05-29	2025-06-05
Signature	PROVERLIS Digitaly signed by Anthony Iveson 2025-05-29T08:57:50.441Z	PROVERLIS Digitaly signed by Martin Taylor 2025-06-05T08:27:18.116Z

CROSSWIND

ROSETTI MARINO

Project CROSSWIND

STATUS INDEX DETAIL

Filtered on subsystem: 83-65 & process: COMM

Electrical	83-65 Electrical Heat Tracing

ITEM		TASK					
Code	Description	Location	Code	Form	Progress	Date	Certificate
DP-200N1-Q13	MAIN BREAKER HEAT TRACING - DP-200N1-Q13	ONSHORE	C10002906	FTR-2	100	2025-04-22	RFO 1
DP-200N1-Q14	HEAT TRACING - SWS LINES - DP-200N1-Q14	ONSHORE	C10002907	FP22	100	2025-04-17	RFO 1
DP-200N1-Q15	HEAT TRACING - CI LINES - DP-200N1-Q15	ONSHORE	C10002908	FP22	100	2025-04-17	RFO 1
DP-200N1-Q16	HEAT TRACING - DM LINES - DP-200N1-Q16	ONSHORE	C10002909	FP22	100	2025-04-17	RFO 1
DP-200N1-Q17	HEAT TRACING - WW LINES - DP-200N1-Q17	ONSHORE	C10002910	FP22	100	2025-04-17	RFO 1
DP-200N1-Q18	HEAT TRACING - VASSEL KO DRUM - DP-200N1-Q18	ONSHORE	C10002911	FTR-2	100	2025-04-25	RFO 1
DP-200N1-Q19	HEAT TRACING - H2 VENT - DP-200N1-Q19	ONSHORE	C10002912	FP22	100	2025-04-17	RFO 1
DP-200N1-Q20	HEAT TRACING - SEA WATER PUMPS - DP-200N1-Q20	ONSHORE	C10002913	FP22	100	2025-04-29	RFO 1
DP-200N1-Q21	HEAT TRACING - SPARE - DP-200N1-Q21	ONSHORE	C10002914	FTR-2	100	2025-04-22	RFO 1

CROSSWIND

ROSETTI MARINO

Project CROSSWIND

PUNCH LIST REPORT

SYSTEM	83	Main Power Distribution Low Voltage 440 V
SUBSYSTEM	83-65	Electrical Heat Tracing

Electrical

CODE	CAT	ITEM	DEFECT DESCRIPTION	CORRECTIVE ACTION	PERFORMED ACTION	ISSUED	CARRIED	CHECKED	APPROVED
C30001147	B	P-EJB-200N1-17-L1-01 C10002057	Missing core identification tags JB side	.		Pschintu 2024-12-03	2025-02-07	Pschintu 2025-02-07	2025-02-07
C30001148	B	P-EJB-200N1-17-L1-01 C10002057	Missing SS cable tags	.		Pschintu 2024-12-03	2025-02-04	Pschintu 2025-02-04	2025-02-04
C30001149	B	P-EJB-200N1-15-L2-01 C10002055	Missing SS cable tag	.		Pschintu 2024-12-03	2025-02-04	Pschintu 2025-02-04	2025-02-04
C30001150	B	P-EJB-200N1-15-L2-01 C10002055	Missing core identification tag JB side	.		Pschintu 2024-12-03	2024-12-11	Pschintu 2024-12-11	2024-12-11
C30001178	B	P-EJB-200N1-14-L1-01 C10002054	missing core identification tag both side	.		Pschintu 2024-12-03			
C30001179	B	P-EJB-200N1-14-L1-01 C10002054	Missing SS tag	.		Pschintu 2024-12-03	2025-02-04	Pschintu 2025-02-04	2025-02-04
C30001932	B	EJB-200N1-14-L1-01 C10002069	present cable gland on spare entry instead of plug	.		AAndreani 2024-12-16	2025-01-30	Gtangianu 2025-01-30	2025-01-30
C30001935	B	EJB-200N1-15-L2-01 C10002070	missing terminal identifiction of terminals	.		AAndreani 2024-12-16	2025-03-07	JKrizanic 2025-03-07	2025-03-07
C30003140	B	P-EAT-200N1-01 C10004656	Missing core identification tags by DP-200N1 side	.		Pschintu 2025-01-21	2025-02-26	Gtangianu 2025-02-26	2025-02-26

CROSSWIND

ROSETTI MARINO

Project CROSSWIND

PUNCH LIST REPORT

SYSTEM	83	Main Power Distribution Low Voltage 440 V
SUBSYSTEM	83-65	Electrical Heat Tracing

Electrical

CODE	CAT	ITEM	DEFECT DESCRIPTION	CORRECTIVE ACTION	PERFORMED ACTION	ISSUED	CARRIED	CHECKED	APPROVED
C30003141	B	P-EAT-200N1-01 C10004656	Missing SS cable tag under JB (EAT-200N1-01)	.		Pschintu 2025-01-21	2025-02-12	APolo 2025-02-12	2025-02-12
C30003142	B	P-EAT-200N1-02 C10004666	Missing cable tag on all routing (inside / outside B-200, on MCT and under JB - EAT-200N1-01)	.		Pschintu 2025-01-21	2025-02-12	APolo 2025-02-12	2025-02-12
C30003143	B	P-EAT-200N1-02 C10004666	Missing core identification tag both side (DP-200N1 / EAT-200N1-01)	.		Pschintu 2025-01-21	2025-02-24	JKrizanic 2025-02-24	2025-02-24
C30003195	B	EAT-200N1-01 C10004598	Missing plug	.		Pschintu 2025-01-24	2025-02-03	GBertuccelli 2025-02-03	2025-02-03
C30003625	B	P-ETB-200N1-17-L1-02 C10002442	Missing identification cable tag SS side the ETB-200N1-17-L1-02.See attached photo.	.		Gtangianu 2025-02-10	2025-02-25	AAndreani 2025-02-25	2025-02-25
C30003630	B	P-ETB-200N1-17-L1-04 C10002367	Missing cable tag SS side -ETB-200N1-17-L1-04.See attached photo.	.		Gtangianu 2025-02-10	2025-03-13	JKrizanic 2025-03-13	2025-03-13
C30003640	B	EJB-200N1-17-L1-01 C10002075	Missing internal identification terminal strip (PE). See attached photo.	.		Gtangianu 2025-02-10			
C30003641	B	P-ETB-200N1-17-L1-01 C10000618	Missing SS cable tag side the (ETB-200N1-17-L1-01)..	.		Gtangianu 2025-02-10	2025-02-25	AAndreani 2025-02-25	2025-02-25
C30003642	B	P-ETB-200N1-17-L1-01 C10000618	Missing earthing lug on the cableglande .Side ETB-200N1-17-L1-01 see doc.123A90-FDL-EL-DD-20090 page 10. See	.		Gtangianu 2025-02-11	2025-02-12	Gtangianu 2025-02-12	2025-02-12

Project CROSSWIND

PUNCH LIST REPORT

SYSTEM 83 Main Power Distribution Low Voltage 440 V

SUBSYSTEM 83-65 Electrical Heat Tracing

Electrical

CODE	CAT	ITEM	DEFECT DESCRIPTION	CORRECTIVE ACTION	PERFORMED ACTION	ISSUED	CARRIED	CHECKED	APPROVED
C30003643	B	P-ETB-200N1-17-L1-04 C10002367	Missing earthing lug on the cableglande .SideETB-200N1-17-L1-04 see doc.123A90-FDL-EL-DD-20090 page 10. See	.		Gtangianu 2025-02-11	2025-02-12	Gtangianu 2025-02-12	2025-02-12
C30003644	B	P-ETB-200N1-17-L1-02 C10002442	Missing earthing lug on the cableglande .Side ETB-200N1-17-L1-02 see doc.123A90-FDL-EL-DD-20090 page 10. See	.		Gtangianu 2025-02-11	2025-02-12	Gtangianu 2025-02-12	2025-02-12
C30004052	B	P-ETB-200N1-17-L1-03 C10002443	Missing SS cable tag on the cable.See attached photo.	.		Gtangianu 2025-02-20	2025-02-28	AAndreani 2025-02-28	2025-02-28
C30004091	B	EJB-200N1-20-L1-01 C10004599	Missing trafolite tag on the JB. see attached photo.	.		Gtangianu 2025-02-24	2025-02-28	AAndreani 2025-02-28	2025-02-28
C30004094	B	P-ETB-200N1-20-L1-01 C10000621	Missing SS tags side the EJB-200N1-20-L1-01. See attached photo.	.		Gtangianu 2025-02-24	2025-02-25	Gtangianu 2025-02-25	2025-02-25
C30004122	B	P-ETB-200N1-16-L3-01 C10000617	Missing SS cable tag both side the cable (MCT to JB).See attached photo.	.		Gtangianu 2025-02-25	2025-03-13	JKrizanic 2025-03-13	2025-03-13
C30004123	B	P-ETB-200N1-16-L3-01 C10000617	The cable is not properly supported side the (ETB-200N1-16-L3-01).See attached photo.	.		Gtangianu 2025-02-25	2025-03-11	Gtangianu 2025-03-11	2025-03-11
C30004124	B	ETB-200N1-16-L3-01 C10004603	Missing the trafolite tag plate on the ETB-200N1-16-L3-01.See attached photo.	.		Gtangianu 2025-02-25	2025-02-27	Gtangianu 2025-02-27	2025-02-27
C30004182	B	ETB-200N1-15-L2-01 C10004601	Missing internal terminals strip (PE/L/N) . See attached photo.	.		Gtangianu 2025-02-28	2025-03-26	Gtangianu 2025-03-26	2025-03-26

Project CROSSWIND

PUNCH LIST REPORT

SYSTEM 83 Main Power Distribution Low Voltage 440 V

SUBSYSTEM 83-65 Electrical Heat Tracing

Electrical

CODE	CAT	ITEM	DEFECT DESCRIPTION	CORRECTIVE ACTION	PERFORMED ACTION	ISSUED	CARRIED	CHECKED	APPROVED
C30004198	B	P-ETB-200N1-19-L3-01 C10000620	Missing calbe tags side (E-MCT-U15) and side the ETB-200N1-19-L3-01. See attached photo.	.		Gtangianu 2025-03-06	2025-04-02	Gtangianu 2025-04-02	2025-04-02
C30004199	B	P-ETB-200N1-15-L2-01 C10000616	Missing cable tag side the ETB-200N1-15-L2-01. See attached photo.	.		Gtangianu 2025-03-06	2025-04-02	Gtangianu 2025-04-02	2025-04-02
C30004200	B	P-ETB-200N1-15-L2-02 C10002056	Missing cable tag side the ETB-200N1-15-L2-02.	.		Gtangianu 2025-03-06	2025-04-02	Gtangianu 2025-04-02	2025-04-02
C30004201	B	P-ETB-200N1-15-L2-02 C10002056	Missing secondary cabletray for protection cable to pass on the middle flanges. See attached photo.	.		Gtangianu 2025-03-06	2025-03-26	Gtangianu 2025-03-26	2025-03-26
C30004202	B	ETB-200N1-15-L2-02 C10004602	Missing trafolite tag on the cover (ETB-200N1-15-L2-02.)	.		Gtangianu 2025-03-06	2025-03-08	Gtangianu 2025-03-08	2025-03-08
C30004214	B	P-ETB-200N1-14-L1-01 C10000615	Missing cable tag side the ETB-200N1-14-L1-01. See attached photo.	.		Gtangianu 2025-03-08	2025-04-14	Gtangianu 2025-04-14	2025-04-14
C30004215	B	P-ETB-200N1-14-L1-01 C10000615	Missing secondary cabletray side the ETB-200N1-14-L1-01.See attached photo.	.		Gtangianu 2025-03-08	2025-04-02	Gtangianu 2025-04-02	2025-04-02
C30004274	B	EHT-1004-A C10004650	Missing warning labels and the END SEAL on the cladding.	.		Gtangianu 2025-03-25	2025-04-02	Gtangianu 2025-04-02	2025-04-02
C30004275	B	EHT-1004-B C10004651	Missing warning labels and the END SEAL on the cladding.	.		Gtangianu 2025-03-25	2025-04-02	Gtangianu 2025-04-02	2025-04-02

CROSSWIND

ROSETTI MARINO

Project CROSSWIND

PUNCH LIST REPORT

SYSTEM	83	Main Power Distribution Low Voltage 440 V
SUBSYSTEM	83-65	Electrical Heat Tracing

Electrical									
CODE	CAT	ITEM	DEFECT DESCRIPTION	CORRECTIVE ACTION	PERFORMED ACTION	ISSUED	CARRIED	CHECKED	APPROVED
C30004276	B	EHT-1005-A C10004652	Missing warning labels and the END SEAL on the cladding.	.		Gtangianu 2025-03-25	2025-04-02	Gtangianu 2025-04-02	2025-04-02
C30004277	B	EHT-2002-A C10004655	Missing warning labels and the END SEAL on the cladding.	.		Gtangianu 2025-03-25	2025-04-02	Gtangianu 2025-04-02	2025-04-02

Section 2.2 Exception Punch Lists (per discipline)

CROSSWIND

ROSETTI MARINO

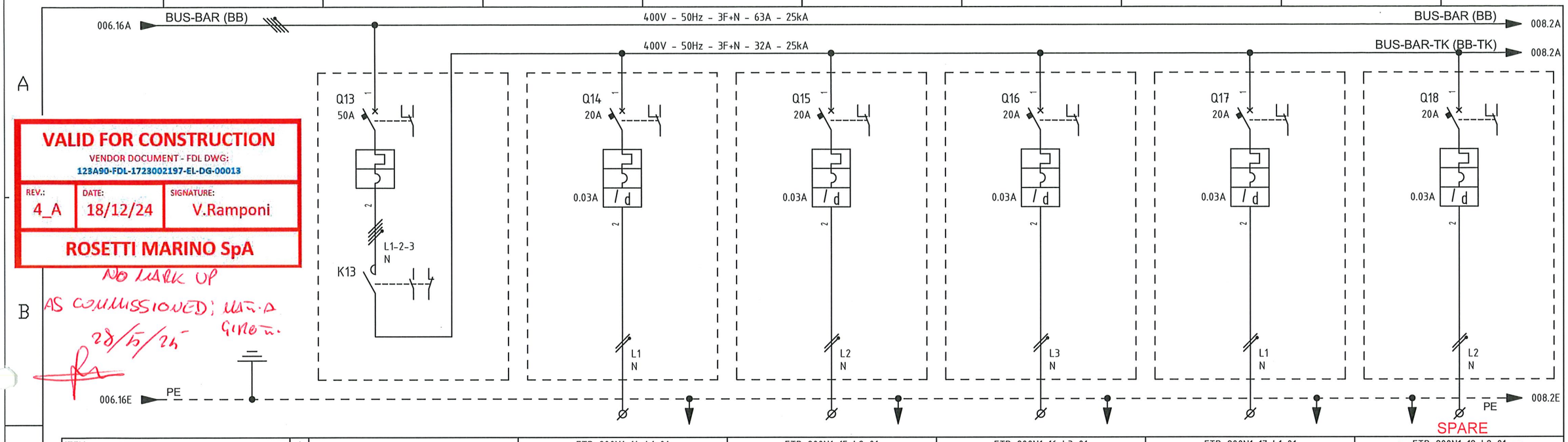
Project CROSSWIND

PUNCH LIST REPORT

SYSTEM	83	Main Power Distribution Low Voltage 440 V
SUBSYSTEM	83-65	Electrical Heat Tracing

Electrical									
CODE	CAT	ITEM	DEFECT DESCRIPTION	CORRECTIVE ACTION	PERFORMED ACTION	ISSUED	CARRIED	CHECKED	APPROVED
C30001178	B	P-EJB-200N1-14-L1-01 C10002054	missing core identification tag both side	.		Pschintu 2024-12-03			
C30003640	B	EJB-200N1-17-L1-01 C10002075	Missing internal identification terminal strip (PE). See attached photo.	.		Gtangianu 2025-02-10			

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; MARIA GIRON.
28/5/24

ITEM			1	-	ETB-200N1-14-L1-01	ETB-200N1-15-L2-01	ETB-200N1-16-L3-01	ETB-200N1-17-L1-01	~~ETB-200N1-18-L2-01~~
UTILITY			2	TRACE HEATING MAIN C.B.	TRACE HEATING - PROCESS LINES - FEEDER 1 (SWS LINES)	TRACE HEATING - PROCESS LINES - FEEDER 2 (CI LINES)	TRACE HEATING - PROCESS LINES - FEEDER 3 (DM LINE)	TRACE HEATING - PROCESS LINES - FEEDER 4 (WW LINES)	~~TRACE HEATING - PROCESS LINES - FEEDER 5 (VASSEL KO DRUM)~~
CUBICLE			3	+02	+02	+02	+02	+03	+03
RATED POWER | RATED CURRENT			4/5	34.6 KW | 50 A	3.5 KW | 15.22 A	3.5 KW | 15.22 A	3.5 KW | 15.22 A	3.5 KW | 15.22 A	3.5 KW | 15.22 A
TYPICAL FUNCTIONAL			6	-	-	-	-	-	-
CIRCUIT BREAKER (ABB)	TYPE		7	S804C-C50	S302P-C20 + DDA202 AC-25/0.03	S302P-C20 + DDA202 AC-25/0.03	S302P-C20 + DDA202 AC-25/0.03	S302P-C20 + DDA202 AC-25/0.03	S302P-C20 + DDA202 AC-25/0.03
	VERSION		8	4P / MINIATURE	2P / MINIATURE	2P / MINIATURE	2P / MINIATURE	2P / MINIATURE	2P / MINIATURE
	TRIP UNITS		9	In=50A - curve C	In=20A - Curve C / Id=0.03A Class AC	In=20A - Curve C / Id=0.03A Class AC	In=20A - Curve C / Id=0.03A Class AC	In=20A - Curve C / Id=0.03A Class AC	In=20A - Curve C / Id=0.03A Class AC
	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	ESB63-40N-06; 4x63A AC1; Vaux=230Vdc/ac	-	-	-	-	-
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 / 6	SCREW / 6	SCREW / 6	SCREW / 6	SCREW / 6
POWER CONDUCTOR		mm²	31	-	3G6	3G6	3G6	3G6	3G6

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

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

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

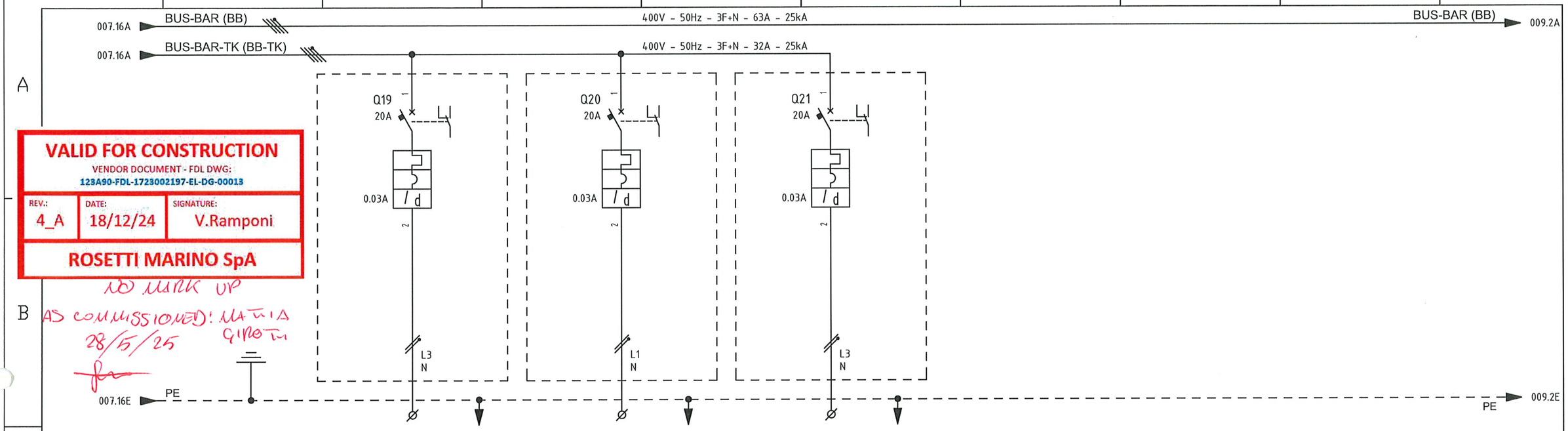
DRAWING NO. 1723002197-EL-DG-00013

SHEET 007

REV. 04

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

F.to UNI A3: 420mmx297mm



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: MATIA GIROTTI 28/5/25

ITEM			1	ETB-200N1-19-L3-01		ETB-200N1-20-L1-01		-	
UTILITY			2	TRACE HEATING - PROCESS LINES - FEEDER 6 (H2 VENT)		TRACE HEATING - PROCESS LINES - FEEDER 7 (SEA WATER PUMPS)		TRACE HEATING - SPARE	
CUBICLE			3	+03		+03		+03	
RATED POWER	RATED CURRENT		4/5	2.5 KW	10.87 A	2.5 KW	10.87 A	3.5 KW	15.22 A
TYPICAL FUNCTIONAL			6	-		-		-	
CIRCUIT BREAKER (ABB)	TYPE		7	S302P-C20 + DDA202 AC-25/0.03		S302P-C20 + DDA202 AC-25/0.03		S302P-C20 + DDA202 AC-25/0.03	
	VERSION		8	2P / MINIATURE		2P / MINIATURE		2P / MINIATURE	
	TRIP UNITS		9	In=20A - Curve C / Id=0.03A Class AC		In=20A - Curve C / Id=0.03A Class AC		In=20A - Curve C / Id=0.03A Class AC	
	Icu	KA	10	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 / 6		SCREW / 6		SCREW / 6	
POWER CONDUCTOR		mm²	31	3G6		3G6		-	

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

DWG n° : 231298/SD/13

Item n° : PF1002888/101

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 008

REV. 04

F.to UNI A3: 420mmx297mm

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

Section 3 CONSOLIDATED PUNCH LISTS

CROSSWIND

ROSETTI MARINO

Project CROSSWIND

PUNCH LIST REPORT

SYSTEM	83	Main Power Distribution Low Voltage 440 V
SUBSYSTEM	83-65	Electrical Heat Tracing

Electrical

CODE	CAT	ITEM	DEFECT DESCRIPTION	CORRECTIVE ACTION	PERFORMED ACTION	ISSUED	CARRIED	CHECKED	APPROVED
C30001147	B	P-EJB-200N1-17-L1-01 C10002057	Missing core identification tags JB side	.		Pschintu 2024-12-03	2025-02-07	Pschintu 2025-02-07	2025-02-07
C30001148	B	P-EJB-200N1-17-L1-01 C10002057	Missing SS cable tags	.		Pschintu 2024-12-03	2025-02-04	Pschintu 2025-02-04	2025-02-04
C30001149	B	P-EJB-200N1-15-L2-01 C10002055	Missing SS cable tag	.		Pschintu 2024-12-03	2025-02-04	Pschintu 2025-02-04	2025-02-04
C30001150	B	P-EJB-200N1-15-L2-01 C10002055	Missing core identification tag JB side	.		Pschintu 2024-12-03	2024-12-11	Pschintu 2024-12-11	2024-12-11
C30001178	B	P-EJB-200N1-14-L1-01 C10002054	missing core identification tag both side	.		Pschintu 2024-12-03	2025-06-16	Ecarotenuto 2025-06-16	2025-06-16
C30001179	B	P-EJB-200N1-14-L1-01 C10002054	Missing SS tag	.		Pschintu 2024-12-03	2025-02-04	Pschintu 2025-02-04	2025-02-04
C30001932	B	EJB-200N1-14-L1-01 C10002069	present cable gland on spare entry instead of plug	.		AAndreani 2024-12-16	2025-01-30	Gtangianu 2025-01-30	2025-01-30
C30001935	B	EJB-200N1-15-L2-01 C10002070	missing terminal identifiction of terminals	.		AAndreani 2024-12-16	2025-03-07	JKrizanic 2025-03-07	2025-03-07
C30003140	B	P-EAT-200N1-01 C10004656	Missing core identification tags by DP-200N1 side	.		Pschintu 2025-01-21	2025-02-26	Gtangianu 2025-02-26	2025-02-26

Project CROSSWIND

PUNCH LIST REPORT

SYSTEM 83 Main Power Distribution Low Voltage 440 V
SUBSYSTEM 83-65 Electrical Heat Tracing

Electrical

CODE	CAT	ITEM	DEFECT DESCRIPTION	CORRECTIVE ACTION	PERFORMED ACTION	ISSUED	CARRIED	CHECKED	APPROVED
C30003141	B	P-EAT-200N1-01 C10004656	Missing SS cable tag under JB (EAT-200N1-01)	.		Pschintu 2025-01-21	2025-02-12	APolo 2025-02-12	2025-02-12
C30003142	B	P-EAT-200N1-02 C10004666	Missing cable tag on all routing (inside / outside B-200, on MCT and under JB - EAT-200N1-01)	.		Pschintu 2025-01-21	2025-02-12	APolo 2025-02-12	2025-02-12
C30003143	B	P-EAT-200N1-02 C10004666	Missing core identification tag both side (DP-200N1 / EAT-200N1-01)	.		Pschintu 2025-01-21	2025-02-24	JKrizanic 2025-02-24	2025-02-24
C30003195	B	EAT-200N1-01 C10004598	Missing plug	.		Pschintu 2025-01-24	2025-02-03	GBertuccelli 2025-02-03	2025-02-03
C30003625	B	P-ETB-200N1-17-L1-02 C10002442	Missing identification cable tag SS side the ETB-200N1-17-L1-02.See attached photo.	.		Gtangianu 2025-02-10	2025-02-25	AAndreani 2025-02-25	2025-02-25
C30003630	B	P-ETB-200N1-17-L1-04 C10002367	Missing cable tag SS side -ETB-200N1-17-L1-04.See attached photo.	.		Gtangianu 2025-02-10	2025-03-13	JKrizanic 2025-03-13	2025-03-13
C30003640	B	EJB-200N1-17-L1-01 C10002075	Missing internal identification terminal strip (PE). See attached photo.	.		Gtangianu 2025-02-10	2025-06-10	Ecarotenuto 2025-06-10	2025-06-10
C30003641	B	P-ETB-200N1-17-L1-01 C10000618	Missing SS cable tag side the (ETB-200N1-17-L1-01)..	.		Gtangianu 2025-02-10	2025-02-25	AAndreani 2025-02-25	2025-02-25
C30003642	B	P-ETB-200N1-17-L1-01 C10000618	Missing earthing lug on the cableglande .Side ETB-200N1-17-L1-01 see doc.123A90-FDL-EL-DD-20090 page 10. See	.		Gtangianu 2025-02-11	2025-02-12	Gtangianu 2025-02-12	2025-02-12

Project CROSSWIND

PUNCH LIST REPORT

SYSTEM	83	Main Power Distribution Low Voltage 440 V
SUBSYSTEM	83-65	Electrical Heat Tracing

Electrical

CODE	CAT	ITEM	DEFECT DESCRIPTION	CORRECTIVE ACTION	PERFORMED ACTION	ISSUED	CARRIED	CHECKED	APPROVED
C30003643	B	P-ETB-200N1-17-L1-04 C10002367	Missing earthing lug on the cableglande .SideETB-200N1-17-L1-04 see doc.123A90-FDL-EL-DD-20090 page 10. See	.		Gtangianu 2025-02-11	2025-02-12	Gtangianu 2025-02-12	2025-02-12
C30003644	B	P-ETB-200N1-17-L1-02 C10002442	Missing earthing lug on the cableglande .Side ETB-200N1-17-L1-02 see doc.123A90-FDL-EL-DD-20090 page 10. See	.		Gtangianu 2025-02-11	2025-02-12	Gtangianu 2025-02-12	2025-02-12
C30004052	B	P-ETB-200N1-17-L1-03 C10002443	Missing SS cable tag on the cable.See attached photo.	.		Gtangianu 2025-02-20	2025-02-28	AAndreani 2025-02-28	2025-02-28
C30004091	B	EJB-200N1-20-L1-01 C10004599	Missing trafolite tag on the JB. see attached photo.	.		Gtangianu 2025-02-24	2025-02-28	AAndreani 2025-02-28	2025-02-28
C30004094	B	P-ETB-200N1-20-L1-01 C10000621	Missing SS tags side the EJB-200N1-20-L1-01. See attached photo.	.		Gtangianu 2025-02-24	2025-02-25	Gtangianu 2025-02-25	2025-02-25
C30004122	B	P-ETB-200N1-16-L3-01 C10000617	Missing SS cable tag both side the cable (MCT to JB).See attached photo.	.		Gtangianu 2025-02-25	2025-03-13	JKrizanic 2025-03-13	2025-03-13
C30004123	B	P-ETB-200N1-16-L3-01 C10000617	The cable is not properly supported side the (ETB-200N1-16-L3-01).See attached photo.	.		Gtangianu 2025-02-25	2025-03-11	Gtangianu 2025-03-11	2025-03-11
C30004124	B	ETB-200N1-16-L3-01 C10004603	Missing the trafolite tag plate on the ETB-200N1-16-L3-01.See attached photo.	.		Gtangianu 2025-02-25	2025-02-27	Gtangianu 2025-02-27	2025-02-27
C30004182	B	ETB-200N1-15-L2-01 C10004601	Missing internal terminals strip (PE/L/N) . See attached photo.	.		Gtangianu 2025-02-28	2025-03-26	Gtangianu 2025-03-26	2025-03-26

Project CROSSWIND

PUNCH LIST REPORT

SYSTEM 83 Main Power Distribution Low Voltage 440 V
SUBSYSTEM 83-65 Electrical Heat Tracing

Electrical

CODE	CAT	ITEM	DEFECT DESCRIPTION	CORRECTIVE ACTION	PERFORMED ACTION	ISSUED	CARRIED	CHECKED	APPROVED
C30004198	B	P-ETB-200N1-19-L3-01 C10000620	Missing calbe tags side (E-MCT-U15) and side the ETB-200N1-19-L3-01. See attached photo.	.		Gtangianu 2025-03-06	2025-04-02	Gtangianu 2025-04-02	2025-04-02
C30004199	B	P-ETB-200N1-15-L2-01 C10000616	Missing cable tag side the ETB-200N1-15-L2-01. See attached photo.	.		Gtangianu 2025-03-06	2025-04-02	Gtangianu 2025-04-02	2025-04-02
C30004200	B	P-ETB-200N1-15-L2-02 C10002056	Missing cable tag side the ETB-200N1-15-L2-02.	.		Gtangianu 2025-03-06	2025-04-02	Gtangianu 2025-04-02	2025-04-02
C30004201	B	P-ETB-200N1-15-L2-02 C10002056	Missing secondary cabletray for protection cable to pass on the middle flanges. See attached photo.	.		Gtangianu 2025-03-06	2025-03-26	Gtangianu 2025-03-26	2025-03-26
C30004202	B	ETB-200N1-15-L2-02 C10004602	Missing trafolite tag on the cover (ETB-200N1-15-L2-02.)	.		Gtangianu 2025-03-06	2025-03-08	Gtangianu 2025-03-08	2025-03-08
C30004214	B	P-ETB-200N1-14-L1-01 C10000615	Missing cable tag side the ETB-200N1-14-L1-01. See attached photo.	.		Gtangianu 2025-03-08	2025-04-14	Gtangianu 2025-04-14	2025-04-14
C30004215	B	P-ETB-200N1-14-L1-01 C10000615	Missing secondary cabletray side the ETB-200N1-14-L1-01.See attached photo.	.		Gtangianu 2025-03-08	2025-04-02	Gtangianu 2025-04-02	2025-04-02
C30004274	B	EHT-1004-A C10004650	Missing warning labels and the END SEAL on the cladding.	.		Gtangianu 2025-03-25	2025-04-02	Gtangianu 2025-04-02	2025-04-02
C30004275	B	EHT-1004-B C10004651	Missing warning labels and the END SEAL on the cladding.	.		Gtangianu 2025-03-25	2025-04-02	Gtangianu 2025-04-02	2025-04-02

Project CROSSWIND

PUNCH LIST REPORT

SYSTEM	83	Main Power Distribution Low Voltage 440 V
SUBSYSTEM	83-65	Electrical Heat Tracing

Electrical

CODE	CAT	ITEM	DEFECT DESCRIPTION	CORRECTIVE ACTION	PERFORMED ACTION	ISSUED	CARRIED	CHECKED	APPROVED
C30004276	B	EHT-1005-A C10004652	Missing warning labels and the END SEAL on the cladding.	.		Gtangianu 2025-03-25	2025-04-02	Gtangianu 2025-04-02	2025-04-02
C30004277	B	EHT-2002-A C10004655	Missing warning labels and the END SEAL on the cladding.	.		Gtangianu 2025-03-25	2025-04-02	Gtangianu 2025-04-02	2025-04-02

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30003642

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10000618	1.4 Discipline	Electrical
1.2 Item	P-ETB-200N1-17-L1-01		Lighting & Small Power DB BoP / Trace Heating - Process Lines - Feeder 4
1.3 Subsystem	83-65		Electrical Heat Tracing

2 - OBSERVATION

Missing earthing lug on the cableglande .Side ETB-200N1-17-L1-01 see doc.123A90-FDL-EL-DD-20090 page 10. See atttached photo.

Name: Giovanni Tangianu
Date: 2025-02-11
Signature:

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	2025-02-11
3.5 Action by	RM_CONSTR RM	Signature	

4 - PERFORMED ACTION

Name:
Date:
Signature:

5 - CLEARANCE CHECK

Installed.

Name: Giovanni Tangianu
Date: 2025-02-11
Signature:

6- CLEARANCE APPROVAL

Name:
Date:
Signature:


23-1-73
FLANGE TAG
23-1-73
FLANGE TESTED

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30003643

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10002367	1.4 Discipline	Electrical
1.2 Item	P-ETB-200N1-17-L1-04		TRACE HEATING - PROCESS LINES - FEEDER 4 (WW LINES & LT) Cold JB / TRACE HEATING - PROCESS LINE (WW 259) JB
1.3 Subsystem	83-65		Electrical Heat Tracing

2 - OBSERVATION

Missing earthing lug on the cableglande .SideETB-200N1-17-L1-04 see doc.123A90-FDL-EL-DD-20090 page 10. See atttached photo.

Name: Giovanni Tangianu
Date: 2025-02-11
Signature:

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	2025-02-11
3.5 Action by	RM_CONSTR RM	Signature	

4 - PERFORMED ACTION

Name:
Date:
Signature:

5 - CLEARANCE CHECK

Installed.

Name: Giovanni Tangianu
Date: 2025-02-11
Signature:

6- CLEARANCE APPROVAL

Name:
Date:
Signature:


ETB-200N1-17-L1-04

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30003644

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10002442	1.4 Discipline	Electrical
1.2 Item	P-ETB-200N1-17-L1-02		TRACE HEATING - INSTRUMENT - 43-LT-003 Hot JB/TRACE HEATING - PROCESS LINES - (WW LINES) Hot JB
1.3 Subsystem	83-65		Electrical Heat Tracing

2 - OBSERVATION

Missing earthing lug on the cableglande .Side ETB-200N1-17-L1-02 see doc.123A90-FDL-EL-DD-20090 page 10. See atttached photo.

Name: Giovanni Tangianu
Date: 2025-02-11
Signature:

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	2025-02-11
3.5 Action by	RM_CONSTR RM	Signature	

4 - PERFORMED ACTION

Name:
Date:
Signature:

5 - CLEARANCE CHECK

Installed.

Name: Giovanni Tangianu
Date: 2025-02-11
Signature:

6- CLEARANCE APPROVAL

Name:
Date:
Signature:


ETB-200N1-17-L1-02

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30004052

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10002443	1.4 Discipline	Electrical
1.2 Item	P-ETB-200N1-17-L1-03		TRACE HEATING - PROCESS LINES - 4 (WW LINES) Hot JB/TRACE HEATING - PROCESS LINES - (WW LINES) Hot JB
1.3 Subsystem	83-65		Electrical Heat Tracing

2 - OBSERVATION

Missing SS cable tag on the cable.See attached photo.

Name: Giovanni Tangianu

Date: 2025-02-20

Signature:

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Giovanni Tangianu
3.4 Activity code	MC Mechanical Completion	Date	2025-02-20
3.5 Action by	RM_CONSTR RM	Signature	

4 - PERFORMED ACTION

Name:

Date:

Signature:

5 - CLEARANCE CHECK

DONE

Name: Andrea Andreani

Date: 2025-02-28

Signature:

6- CLEARANCE APPROVAL

Name:

Date:

Signature:


ETB-200N1-17-L1-03

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30004091

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10004599	1.4 Discipline	Electrical
1.2 Item	EJB-200N1-20-L1-01		HEAT TRACING - PROCESS LINES - FEEDER 7 (SEA WATER PUMPS) Cold JB
1.3 Subsystem	83-65		Electrical Heat Tracing

2 - OBSERVATION

Missing trafolite tag on the JB. see attached photo.

Name: Giovanni Tangianu

Date: 2025-02-24

Signature:

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Giovanni Tangianu
3.4 Activity code	MC Mechanical Completion	Date	2025-02-24
3.5 Action by	RM_CONSTR RM	Signature	

4 - PERFORMED ACTION

Name:

Date:

Signature:

5 - CLEARANCE CHECK

DONE

Name: Andrea Andreani

Date: 2025-02-28

Signature:

6- CLEARANCE APPROVAL

Name:

Date:

Signature:



ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30004094

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10000621	1.4 Discipline	Electrical
1.2 Item	P-ETB-200N1-20-L1-01		Lighting & Small Power DB BoP / Trace Heating - V-43001 Vessel - Feeder 7
1.3 Subsystem	83-65		Electrical Heat Tracing

2 - OBSERVATION

Missing SS tags side the EJB-200N1-20-L1-01. See attached photo.

Name: Giovanni Tangianu

Date: 2025-02-24

Signature:

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Giovanni Tangianu
3.4 Activity code	MC Mechanical Completion	Date	2025-02-24
3.5 Action by	RM_CONSTR RM	Signature	

4 - PERFORMED ACTION

Name:

Date:

Signature:

5 - CLEARANCE CHECK

Installed.

Name: Giovanni Tangianu

Date: 2025-02-25

Signature:

6- CLEARANCE APPROVAL

Name:

Date:

Signature:


P-ETB-20-L1-01
P-ETB-20-L1-02

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30004122

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10000617	1.4 Discipline	Electrical
1.2 Item	P-ETB-200N1-16-L3-01		Lighting & Small Power DB BoP / Trace Heating - Process Lines - Feeder 3
1.3 Subsystem	83-65		Electrical Heat Tracing

2 - OBSERVATION

Missing SS cable tag both side the cable (MCT to JB).See attached photo.

Name: Giovanni Tangianu

Date: 2025-02-25

Signature:

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Giovanni Tangianu
3.4 Activity code	MC Mechanical Completion	Date	2025-02-25
3.5 Action by	RM_CONSTR RM	Signature	

4 - PERFORMED ACTION

Name:

Date: 2025-03-13

Signature:

5 - CLEARANCE CHECK

DONE

Name: Josip Krizanic

Date: 2025-03-13

Signature:

6- CLEARANCE APPROVAL

Name:

Date: 2025-03-13

Signature:


ET · 200 N 2 - 16-23-01

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30004123

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10000617	1.4 Discipline	Electrical
1.2 Item	P-ETB-200N1-16-L3-01		Lighting & Small Power DB BoP / Trace Heating - Process Lines - Feeder 3
1.3 Subsystem	83-65		Electrical Heat Tracing

2 - OBSERVATION

The cable is not properly supported side the (ETB-200N1-16-L3-01).See attached photo.

Name: Giovanni Tangianu

Date: 2025-02-25

Signature:

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Giovanni Tangianu
3.4 Activity code	MC Mechanical Completion	Date	2025-02-25
3.5 Action by	RM_CONSTR RM	Signature	

4 - PERFORMED ACTION

Name:

Date:

Signature:

5 - CLEARANCE CHECK

cabletray is installed.

Name: Giovanni Tangianu

Date: 2025-03-11

Signature:

6- CLEARANCE APPROVAL

Name:

Date:

Signature:


ET · 200 N 2 - 16-23-01

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30004124

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10004603	1.4 Discipline	Electrical
1.2 Item	ETB-200N1-16-L3-01	HEAT TRACING - PROCESS LINES - FEEDER 3 (DM-001)	
1.3 Subsystem	83-65	Electrical Heat Tracing	

2 - OBSERVATION

Missing the trafolite tag plate on the ETB-200N1-16-L3-01.See attached photo.

Name: Giovanni Tangianu

Date: 2025-02-25

Signature:

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Giovanni Tangianu
3.4 Activity code	MC Mechanical Completion	Date	2025-02-25
3.5 Action by	RM_CONSTR RM	Signature	

4 - PERFORMED ACTION

Name:

Date:

Signature:

5 - CLEARANCE CHECK

Installed.

Name: Giovanni Tangianu

Date: 2025-02-27

Signature:

6- CLEARANCE APPROVAL

Name:

Date:

Signature:



nVent | RAYCHEM

JBS-100-E

PTB 20 ATEX 1008 U
II 2 G Ex eb IIC Gb
II 2 D Ex tb IIIC Db

IECEx PTB 20.0014U
Ex eb IIC Gb
Ex tb IIIC Db

Ta -55°C...+56°C IP66
Reg. No. 0598

EAC Ex
Ex e IIC Gb U Ex tb IIIC Db U
Ta -55°C...+56°C IP66
TC RU C-BE.МЮ62.В.00054/18

BAS21UKEX0657U
Reg. No. 1180

CL I ZN 1 AEx eb IIC T* Gb
Ex eb IIC T* Gb
ZN21 AEx tb IIIC T**°C Db
Ex tb IIIC T**°C Db
Ta -55°C...+56°C IP66
CSA02CA1333271X

接线盒 480Vac 原产地 印度
Ex eb IIC Gb
Ex tb IIIC Db
Ta -55°C...+56°C
警告：严禁带电开盖！

IECEx/ATEX ◂ SYSTEM DETAILS ▸ EAC

CE 0598
II 2 G Ex 60079-30-1 eb IIC T* Gb
II 2 D Ex 60079-30-1 tb IIIC T**°C Db
Ex 60079-30-1 eb IIC T* Gb
Ex 60079-30-1 tb IIIC T**°C Db

1Ex e IIC T* Gb X
Ex tb IIIC T**°C Db X

T*/T**- See below

	T code(*)	Temp(**)	ATEX	IECEx	EAC
BTV	T6	80°C	SGS20ATEX0048X	IECEx BAS 20.0011X	TC RU C-BE.МЮ62.В.00054/18
QTVR	T4	130°C	SGS20ATEX0050X	IECEx BAS 20.0013X	TC RU C-BE.МЮ62.В.00054/18
XTV	T*	T*	SGS20ATEX0049X	IECEx BAS 20.0012X	TC RU C-BE.МЮ62.В.00054/18
HTV	T*	T*	PTB21ATEX1003X	IECEx PTB 21.0007X	ЕАЭС RU C-BE.АЖ56.В.01728/21
KTV	T2	226°C	SGS20ATEX0051X	IECEx BAS 20.0014X	TC RU C-BE.МЮ62.В.00054/18
VPL	T*	T*	SGS20ATEX0045X	IECEx BAS 20.0008X	TC RU C-BE.МЮ62.В.00054/18

T* For maximum surface temperature, see heating cable, design documentation or schedule
T* Макс. темп. оболочки см. напр. кабеле, в расчетной документации или каталоге

Do not open while energized.
Nicht unter Spannung öffnen.
Ne pas ouvrir sous tension.
Открывать, отключив от сети.

WARNING – Explosion and Shock Hazard. Do not disconnect while the circuit is live or unless the area is free of ignitible concentrations.
AVERTISSEMENT – Risque d'explosion. Ne pas débrancher pendant que le circuit est sous tension ou à moins que l'emplacement ne soit exempt de concentrations inflammables.

M

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nVent.com/RAYCHEM

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30004182

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10004601	1.4 Discipline	Electrical
1.2 Item	ETB-200N1-15-L2-01		HEAT TRACING - PROCESS LINES - FEEDER 2 (CI LINES) Hot JB
1.3 Subsystem	83-65		Electrical Heat Tracing

2 - OBSERVATION

Missing internal terminals strip (PE/L/N) . See attached photo.

Name: Giovanni Tangianu

Date: 2025-02-28

Signature:

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Giovanni Tangianu
3.4 Activity code	MC Mechanical Completion	Date	2025-02-28
3.5 Action by	RM_CONSTR RM	Signature	

4 - PERFORMED ACTION

Name:

Date:

Signature:

5 - CLEARANCE CHECK

Installed.

Name: Giovanni Tangianu

Date: 2025-03-26

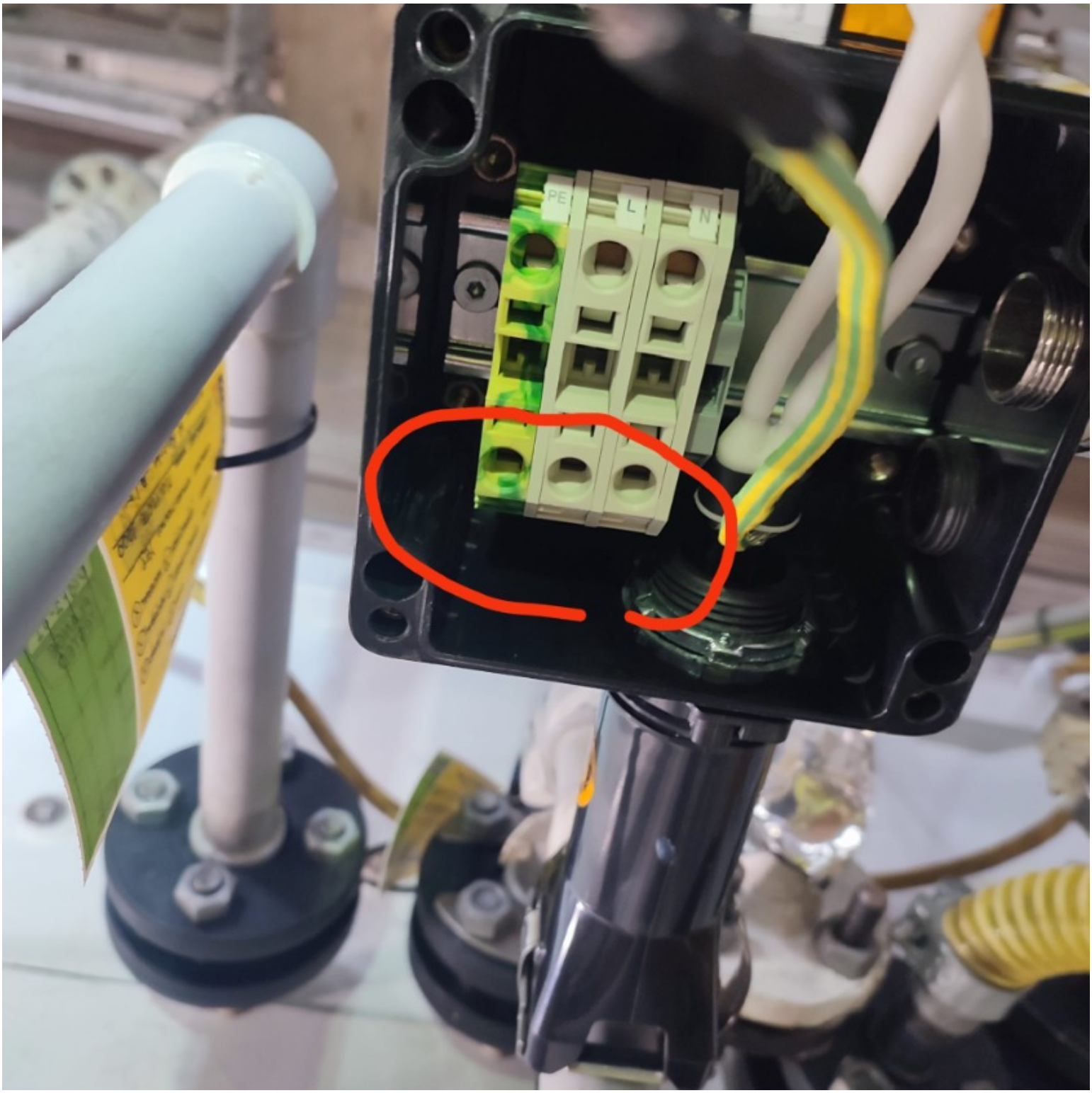
Signature:

6- CLEARANCE APPROVAL

Name:

Date:

Signature:


PE
L
N

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30004198

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10000620	1.4 Discipline	Electrical
1.2 Item	P-ETB-200N1-19-L3-01		Lighting & Small Power DB BoP / Trace Heating - Vent - Feeder 6
1.3 Subsystem	83-65		Electrical Heat Tracing

2 - OBSERVATION

Missing calbe tags side (E-MCT-U15) and side the ETB-200N1-19-L3-01. See attached photo.

Name: Giovanni Tangianu

Date: 2025-03-06

Signature:

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Giovanni Tangianu
3.4 Activity code	MC Mechanical Completion	Date	2025-03-06
3.5 Action by	RM_CONSTR RM	Signature	

4 - PERFORMED ACTION

Name:

Date:

Signature:

5 - CLEARANCE CHECK

Installed

Name: Giovanni Tangianu

Date: 2025-04-02

Signature:

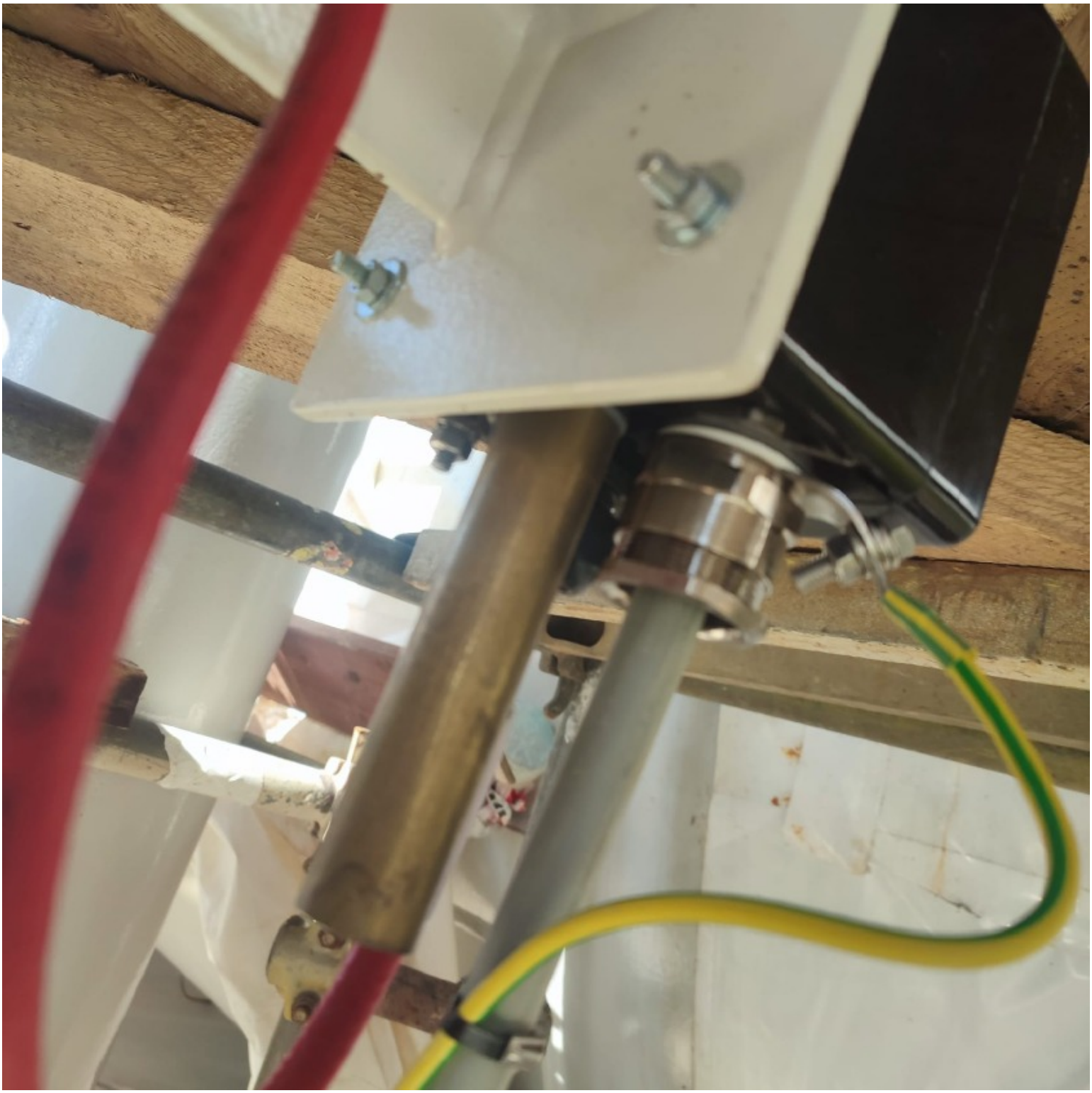
6- CLEARANCE APPROVAL

Name:

Date:

Signature:





ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30004199

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10000616	1.4 Discipline	Electrical
1.2 Item	P-ETB-200N1-15-L2-01		Lighting & Small Power DB BoP / Trace Heating - Process Lines - Feeder 2
1.3 Subsystem	83-65		Electrical Heat Tracing

2 - OBSERVATION

Missing cable tag side the ETB-200N1-15-L2-01. See attached photo.

Name: Giovanni Tangianu

Date: 2025-03-06

Signature:

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Giovanni Tangianu
3.4 Activity code	MC Mechanical Completion	Date	2025-03-06
3.5 Action by	RM_CONSTR RM	Signature	

4 - PERFORMED ACTION

Name:

Date:

Signature:

5 - CLEARANCE CHECK

Installed.

Name: Giovanni Tangianu

Date: 2025-04-02

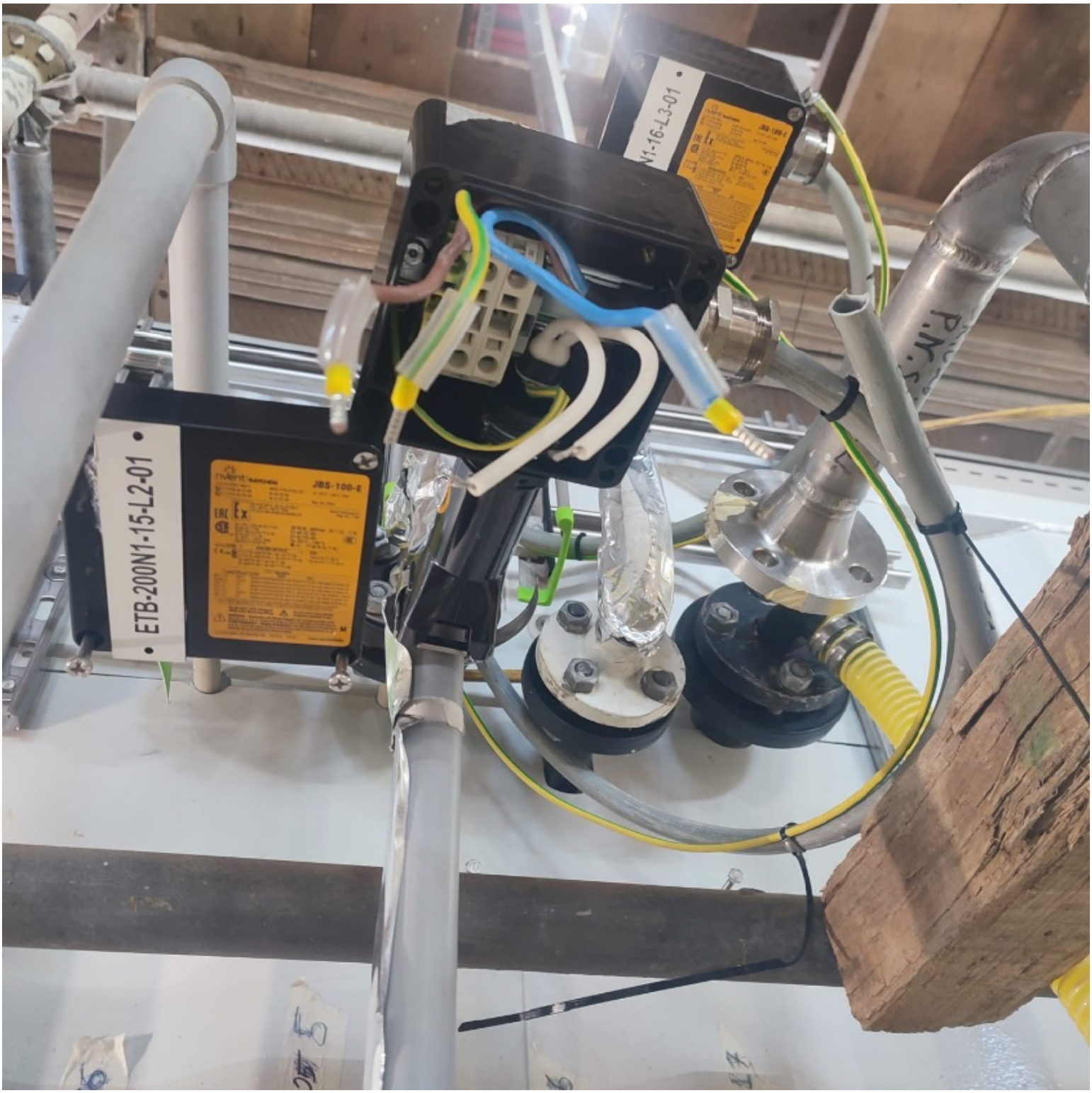
Signature:

6- CLEARANCE APPROVAL

Name:

Date:

Signature:


• ETB-200N1-15-L2-01 •
JBS-100-E
N1-16-L3-01 •

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30004200

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10002056	1.4 Discipline	Electrical
1.2 Item	P-ETB-200N1-15-L2-02		TRACE HEATING - PROCESS LINES - FEEDER 2 (CI LINES) Hot JB/TRACE HEATING - PROCESS LINES - FEEDER 2 (CI LINES) Hot JB
1.3 Subsystem	83-65		Electrical Heat Tracing

2 - OBSERVATION

Missing cable tag side the ETB-200N1-15-L2-02.

Name: Giovanni Tangianu

Date: 2025-03-06

Signature:

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Giovanni Tangianu
3.4 Activity code	MC Mechanical Completion	Date	2025-03-06
3.5 Action by	RM_CONSTR RM	Signature	

4 - PERFORMED ACTION

Name:

Date:

Signature:

5 - CLEARANCE CHECK

Installed.

Name: Giovanni Tangianu

Date: 2025-04-02

Signature:

6- CLEARANCE APPROVAL

Name:

Date:

Signature:

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30004201

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10002056	1.4 Discipline	Electrical
1.2 Item	P-ETB-200N1-15-L2-02		TRACE HEATING - PROCESS LINES - FEEDER 2 (CI LINES) Hot JB/TRACE HEATING - PROCESS LINES - FEEDER 2 (CI LINES) Hot JB
1.3 Subsystem	83-65		Electrical Heat Tracing

2 - OBSERVATION

Missing secondary cabletray for protection cable to pass on the middle flanges. See attached photo.

Name: Giovanni Tangianu

Date: 2025-03-06

Signature:

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Giovanni Tangianu
3.4 Activity code	MC Mechanical Completion	Date	2025-03-06
3.5 Action by	RM_CONSTR RM	Signature	

4 - PERFORMED ACTION

Name:

Date:

Signature:

5 - CLEARANCE CHECK

Installed.

Name: Giovanni Tangianu

Date: 2025-03-26

Signature:

6- CLEARANCE APPROVAL

Name:

Date:

Signature:



ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30004202

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10004602	1.4 Discipline	Electrical
1.2 Item	ETB-200N1-15-L2-02		TRACE HEATING - PROCESS LINES - FEEDER 2 (CI LINES) Hot JB
1.3 Subsystem	83-65		Electrical Heat Tracing

2 - OBSERVATION

Missing trafolite tag on the cover (ETB-200N1-15-L2-02.)

Name: Giovanni Tangianu

Date: 2025-03-06

Signature:

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Giovanni Tangianu
3.4 Activity code	MC Mechanical Completion	Date	2025-03-06
3.5 Action by	RM_CONSTR RM	Signature	

4 - PERFORMED ACTION

Name:

Date:

Signature:

5 - CLEARANCE CHECK

Installed.

Name: Giovanni Tangianu

Date: 2025-03-08

Signature:

6- CLEARANCE APPROVAL

Name:

Date:

Signature:

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30004214

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10000615	1.4 Discipline	Electrical
1.2 Item	P-ETB-200N1-14-L1-01		Lighting & Small Power DB BoP / Trace Heating - Process Lines - Feeder 1
1.3 Subsystem	83-65		Electrical Heat Tracing

2 - OBSERVATION

Missing cable tag side the ETB-200N1-14-L1-01. See attached photo.

Name: Giovanni Tangianu

Date: 2025-03-07

Signature:

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Giovanni Tangianu
3.4 Activity code	MC Mechanical Completion	Date	2025-03-08
3.5 Action by	RM_CONSTR RM	Signature	

4 - PERFORMED ACTION

Name:

Date: 2025-04-14

Signature:

5 - CLEARANCE CHECK

DONE

Name: Giovanni Tangianu

Date: 2025-04-14

Signature:

6- CLEARANCE APPROVAL

Name:

Date: 2025-04-14

Signature:



ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30004215

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10000615	1.4 Discipline	Electrical
1.2 Item	P-ETB-200N1-14-L1-01		Lighting & Small Power DB BoP / Trace Heating - Process Lines - Feeder 1
1.3 Subsystem	83-65		Electrical Heat Tracing

2 - OBSERVATION

Missing secondary cabletray side the ETB-200N1-14-L1-01.See attached photo.

Name: Giovanni Tangianu

Date: 2025-03-07

Signature:

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Giovanni Tangianu
3.4 Activity code	MC Mechanical Completion	Date	2025-03-08
3.5 Action by	RM_CONSTR RM	Signature	

4 - PERFORMED ACTION

Name:

Date:

Signature:

5 - CLEARANCE CHECK

Installed.

Name: Giovanni Tangianu

Date: 2025-04-02

Signature:

6- CLEARANCE APPROVAL

Name:

Date:

Signature:



ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30004274

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10004650	1.4 Discipline	Electrical
1.2 Item	EHT-1004-A	Heat Tracing Tape	
1.3 Subsystem	83-65	Electrical Heat Tracing	

2 - OBSERVATION

Missing warning labels and the END SEAL on the cladding.

Name: Giovanni Tangianu

Date: 2025-03-25

Signature:

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Giovanni Tangianu
3.4 Activity code	MC Mechanical Completion	Date	2025-03-25
3.5 Action by	RM_CONSTR RM	Signature	

4 - PERFORMED ACTION

Name:

Date:

Signature:

5 - CLEARANCE CHECK

Installed.

Name: Giovanni Tangianu

Date: 2025-03-28

Signature:

6- CLEARANCE APPROVAL

Name:

Date:

Signature:

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30004275

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10004651	1.4 Discipline	Electrical
1.2 Item	EHT-1004-B	Heat Tracing Tape	
1.3 Subsystem	83-65	Electrical Heat Tracing	

2 - OBSERVATION

Missing warning labels and the END SEAL on the cladding.

Name: Giovanni Tangianu

Date: 2025-03-25

Signature:

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Giovanni Tangianu
3.4 Activity code	MC Mechanical Completion	Date	2025-03-25
3.5 Action by	RM_CONSTR RM	Signature	

4 - PERFORMED ACTION

Name:

Date:

Signature:

5 - CLEARANCE CHECK

Installed.

Name: Giovanni Tangianu

Date: 2025-03-28

Signature:

6- CLEARANCE APPROVAL

Name:

Date:

Signature:

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30004276

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10004652	1.4 Discipline	Electrical
1.2 Item	EHT-1005-A	Heat Tracing Tape	
1.3 Subsystem	83-65	Electrical Heat Tracing	

2 - OBSERVATION

Missing warning labels and the END SEAL on the cladding.

Name: Giovanni Tangianu

Date: 2025-03-25

Signature:

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Giovanni Tangianu
3.4 Activity code	MC Mechanical Completion	Date	2025-03-25
3.5 Action by	RM_CONSTR RM	Signature	

4 - PERFORMED ACTION

Name:

Date:

Signature:

5 - CLEARANCE CHECK

Installed.

Name: Giovanni Tangianu

Date: 2025-03-28

Signature:

6- CLEARANCE APPROVAL

Name:

Date:

Signature:

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30004277

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10004655	1.4 Discipline	Electrical
1.2 Item	EHT-2002-A	Heat Tracing Tape	
1.3 Subsystem	83-65	Electrical Heat Tracing	

2 - OBSERVATION

Missing warning labels and the END SEAL on the cladding.

Name: Giovanni Tangianu
Date: 2025-03-25
Signature:

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Giovanni Tangianu
3.4 Activity code	MC Mechanical Completion	Date	2025-03-25
3.5 Action by	RM_CONSTR RM	Signature	

4 - PERFORMED ACTION

Name:
Date:
Signature:

5 - CLEARANCE CHECK

Installed.

Name: Giovanni Tangianu
Date: 2025-03-28
Signature:

6- CLEARANCE APPROVAL

Name:
Date:
Signature:

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30001147

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10002057	1.4 Discipline	Electrical
1.2 Item	P-EJB-200N1-17-L1-01		Lighting & Small Power DB BoP / TRACE HEATING - FEEDER 4 (WW LINES) Cold JB
1.3 Subsystem	83-65		Electrical Heat Tracing

2 - OBSERVATION

Missing core identification tags JB side

Name: Paolo Schintu

Date: 2024-12-03

Signature:

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Paolo Schintu
3.4 Activity code	MC Mechanical Completion	Date	2024-12-03
3.5 Action by	RM_CONSTR RM	Signature	

4 - PERFORMED ACTION

Name:

Date:

Signature:

5 - CLEARANCE CHECK

Done.

Name: Paolo Schintu

Date: 2024-12-11

Signature:

6- CLEARANCE APPROVAL

Name:

Date:

Signature:

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30001148

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10002057	1.4 Discipline	Electrical
1.2 Item	P-EJB-200N1-17-L1-01		Lighting & Small Power DB BoP / TRACE HEATING - FEEDER 4 (WW LINES) Cold JB
1.3 Subsystem	83-65		Electrical Heat Tracing

2 - OBSERVATION

Missing SS cable tags

Name: Paolo Schintu

Date: 2024-12-03

Signature:

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Paolo Schintu
3.4 Activity code	MC Mechanical Completion	Date	2024-12-03
3.5 Action by	RM_CONSTR RM	Signature	

4 - PERFORMED ACTION

Name:

Date:

Signature:

5 - CLEARANCE CHECK

DONE

Name: Paolo Schintu

Date: 2025-02-04

Signature:

6- CLEARANCE APPROVAL

Name:

Date:

Signature:

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30001149

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10002055	1.4 Discipline	Electrical
1.2 Item	P-EJB-200N1-15-L2-01		Lighting & Small Power DB BoP / TRACE HEATING - FEEDER 2 (CI LINES) Cold JB
1.3 Subsystem	83-65		Electrical Heat Tracing

2 - OBSERVATION

Missing SS cable tag

Name: Paolo Schintu

Date: 2024-12-03

Signature:

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Paolo Schintu
3.4 Activity code	MC Mechanical Completion	Date	2024-12-03
3.5 Action by	RM_CONSTR RM	Signature	

4 - PERFORMED ACTION

Name:

Date:

Signature:

5 - CLEARANCE CHECK

DONE

Name: Paolo Schintu

Date: 2025-02-04

Signature:

6- CLEARANCE APPROVAL

Name:

Date:

Signature:

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30001150

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10002055	1.4 Discipline	Electrical
1.2 Item	P-EJB-200N1-15-L2-01		Lighting & Small Power DB BoP / TRACE HEATING - FEEDER 2 (CI LINES) Cold JB
1.3 Subsystem	83-65		Electrical Heat Tracing

2 - OBSERVATION

Missing core identification tag JB side

Name: Paolo Schintu

Date: 2024-12-03

Signature:

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Paolo Schintu
3.4 Activity code	MC Mechanical Completion	Date	2024-12-03
3.5 Action by	RM_CONSTR RM	Signature	

4 - PERFORMED ACTION

Name:

Date:

Signature:

5 - CLEARANCE CHECK

Done.

Name: Paolo Schintu

Date: 2024-12-11

Signature:

6- CLEARANCE APPROVAL

Name:

Date:

Signature:

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30001178

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10002054	1.4 Discipline	Electrical
1.2 Item	P-EJB-200N1-14-L1-01		Lighting & Small Power DB BoP / TRACE HEATING - FEEDER 1 (SWS LINES) Cold JB
1.3 Subsystem	83-65		Electrical Heat Tracing

2 - OBSERVATION

missing core identification tag both side

Name: Paolo Schintu

Date: 2024-12-03

Signature:

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Paolo Schintu
3.4 Activity code	MC Mechanical Completion	Date	2024-12-03
3.5 Action by	PRE-COMM	Signature	

4 - PERFORMED ACTION

Name:

Date: 2025-06-16

Signature:

5 - CLEARANCE CHECK

DONE

Name: Eleonora Carotenuto

Date: 2025-06-16

Signature:

6- CLEARANCE APPROVAL

Name:

Date: 2025-06-16

Signature:

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30001179

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10002054	1.4 Discipline	Electrical
1.2 Item	P-EJB-200N1-14-L1-01		Lighting & Small Power DB BoP / TRACE HEATING - FEEDER 1 (SWS LINES) Cold JB
1.3 Subsystem	83-65		Electrical Heat Tracing

2 - OBSERVATION

Missing SS tag

Name: Paolo Schintu

Date: 2024-12-03

Signature:

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Paolo Schintu
3.4 Activity code	MC Mechanical Completion	Date	2024-12-03
3.5 Action by	RM_CONSTR RM	Signature	

4 - PERFORMED ACTION

Name:

Date:

Signature:

5 - CLEARANCE CHECK

DONE

Name: Paolo Schintu

Date: 2025-02-04

Signature:

6- CLEARANCE APPROVAL

Name:

Date:

Signature:

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30001932

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10002069	1.4 Discipline	Electrical
1.2 Item	EJB-200N1-14-L1-01		HEAT TRACING - PROCESS LINES - FEEDER 1 (SWS LINES) Cold JB
1.3 Subsystem	83-65		Electrical Heat Tracing

2 - OBSERVATION

present cable gland on spare entry instead of plug

Name: Andrea Andreani

Date: 2024-12-16

Signature:

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Andrea Andreani
3.4 Activity code	MC Mechanical Completion	Date	2024-12-16
3.5 Action by	RM_CONSTR RM	Signature	

4 - PERFORMED ACTION

Name:

Date:

Signature:

5 - CLEARANCE CHECK

Installed.

Name: Giovanni Tangianu

Date: 2025-01-30

Signature:

6- CLEARANCE APPROVAL

Name:

Date:

Signature:

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30001935

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10002070	1.4 Discipline	Electrical
1.2 Item	EJB-200N1-15-L2-01		HEAT TRACING - PROCESS LINES - FEEDER 2 (CI LINES) Cold JB
1.3 Subsystem	83-65		Electrical Heat Tracing

2 - OBSERVATION

missing terminal identifiction of terminals

Name: Andrea Andreani

Date: 2024-12-16

Signature:

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Andrea Andreani
3.4 Activity code	MC Mechanical Completion	Date	2024-12-16
3.5 Action by	RM_CONSTR RM	Signature	

4 - PERFORMED ACTION

Name:

Date:

Signature:

5 - CLEARANCE CHECK

DONE

Name: Josip Krizanic

Date: 2025-03-07

Signature:

6- CLEARANCE APPROVAL

Name:

Date:

Signature:

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30003140

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10004656	1.4 Discipline	Electrical
1.2 Item	P-EAT-200N1-01		LV 0,4 / 0,23 kV Distribution Switchgear/Trace Heating Remote Ambient Thermostat
1.3 Subsystem	83-65		Electrical Heat Tracing

2 - OBSERVATION

Missing core identification tags by DP-200N1 side

Name: Paolo Schintu

Date: 2025-01-21

Signature:

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Paolo Schintu
3.4 Activity code	MC Mechanical Completion	Date	2025-01-21
3.5 Action by	PRE-COMM	Signature	

4 - PERFORMED ACTION

Name:

Date:

Signature:

5 - CLEARANCE CHECK

Installed.

Name: Giovanni Tangianu

Date: 2025-02-26

Signature:

6- CLEARANCE APPROVAL

Name:

Date:

Signature:

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30003141

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10004656	1.4 Discipline	Electrical
1.2 Item	P-EAT-200N1-01		LV 0,4 / 0,23 kV Distribution Switchgear/Trace Heating Remote Ambient Thermostat
1.3 Subsystem	83-65		Electrical Heat Tracing

2 - OBSERVATION

Missing SS cable tag under JB (EAT-200N1-01)

Name: Paolo Schintu

Date: 2025-01-21

Signature:

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Paolo Schintu
3.4 Activity code	MC Mechanical Completion	Date	2025-01-21
3.5 Action by	RM_CONSTR RM	Signature	

4 - PERFORMED ACTION

Name:

Date:

Signature:

5 - CLEARANCE CHECK

DONE

Name: Alessio Polo

Date: 2025-02-11

Signature:

6- CLEARANCE APPROVAL

Name:

Date:

Signature:

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30003142

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10004666	1.4 Discipline	Electrical
1.2 Item	P-EAT-200N1-02		Trace Heating Remote Ambient Thermostat/LV 0,4 / 0,23 kV Distribution Switchgear
1.3 Subsystem	83-65		Electrical Heat Tracing

2 - OBSERVATION

Missing cable tag on all routing (inside / outside B-200, on MCT and under JB - EAT-200N1-01)

Name: Paolo Schintu

Date: 2025-01-21

Signature:

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Paolo Schintu
3.4 Activity code	MC Mechanical Completion	Date	2025-01-21
3.5 Action by	RM_CONSTR RM	Signature	

4 - PERFORMED ACTION

Name:

Date:

Signature:

5 - CLEARANCE CHECK

DONE

Name: Alessio Polo

Date: 2025-02-11

Signature:

6- CLEARANCE APPROVAL

Name:

Date:

Signature:

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30003143

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10004666	1.4 Discipline	Electrical
1.2 Item	P-EAT-200N1-02		Trace Heating Remote Ambient Thermostat/LV 0,4 / 0,23 kV Distribution Switchgear
1.3 Subsystem	83-65		Electrical Heat Tracing

2 - OBSERVATION

Missing core identification tag both side (DP-200N1 / EAT-200N1-01)

Name: Paolo Schintu

Date: 2025-01-21

Signature:

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Paolo Schintu
3.4 Activity code	MC Mechanical Completion	Date	2025-01-21
3.5 Action by	RM_CONSTR RM	Signature	

4 - PERFORMED ACTION

Name:

Date:

Signature:

5 - CLEARANCE CHECK

DONE

Name: Josip Krizanic

Date: 2025-02-24

Signature:

6- CLEARANCE APPROVAL

Name:

Date:

Signature:

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30003195

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10004598	1.4 Discipline	Electrical
1.2 Item	EAT-200N1-01	Trace Heating Remote Ambient Thermostat	
1.3 Subsystem	83-65	Electrical Heat Tracing	

2 - OBSERVATION

Missing plug

Name: Paolo Schintu

Date: 2025-01-24

Signature:

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Paolo Schintu
3.4 Activity code	MC Mechanical Completion	Date	2025-01-24
3.5 Action by	RM_CONSTR RM	Signature	

4 - PERFORMED ACTION

Name:

Date:

Signature:

5 - CLEARANCE CHECK

Done

Name: Gabriele Bertuccelli

Date: 2025-02-03

Signature:

6- CLEARANCE APPROVAL

Name:

Date:

Signature:

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30003625

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10002442	1.4 Discipline	Electrical
1.2 Item	P-ETB-200N1-17-L1-02		TRACE HEATING - INSTRUMENT - 43-LT-003 Hot JB/TRACE HEATING - PROCESS LINES - (WW LINES) Hot JB
1.3 Subsystem	83-65		Electrical Heat Tracing

2 - OBSERVATION

Missing identification cable tag SS side the ETB-200N1-17-L1-02.See attached photo.

Name: Giovanni Tangianu

Date: 2025-02-10

Signature:

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Giovanni Tangianu
3.4 Activity code	MC Mechanical Completion	Date	2025-02-10
3.5 Action by	RM_CONSTR RM	Signature	

4 - PERFORMED ACTION

Name:

Date:

Signature:

5 - CLEARANCE CHECK

DONE

Name: Andrea Andreani

Date: 2025-02-25

Signature:

6- CLEARANCE APPROVAL

Name:

Date:

Signature:


ETB-200N1-17-L1-02

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30003630

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10002367	1.4 Discipline	Electrical
1.2 Item	P-ETB-200N1-17-L1-04		TRACE HEATING - PROCESS LINES - FEEDER 4 (WW LINES & LT) Cold JB / TRACE HEATING - PROCESS LINE (WW 259) JB
1.3 Subsystem	83-65		Electrical Heat Tracing

2 - OBSERVATION

Missing cable tag SS side -ETB-200N1-17-L1-04.See attached photo.

Name: Giovanni Tangianu

Date: 2025-02-10

Signature:

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Giovanni Tangianu
3.4 Activity code	MC Mechanical Completion	Date	2025-02-10
3.5 Action by	RM_CONSTR RM	Signature	

4 - PERFORMED ACTION

Name:

Date: 2025-03-13

Signature:

5 - CLEARANCE CHECK

DONE

Name: Josip Krizanic

Date: 2025-03-13

Signature:

6- CLEARANCE APPROVAL

Name:

Date: 2025-03-13

Signature:


FLANGE TAG
FLANGE TESTED


• ETB-200N1-17-L1-04 •

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30003640

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10002075	1.4 Discipline	Electrical
1.2 Item	EJB-200N1-17-L1-01		HEAT TRACING - PROCESS LINES (WW LINES & LT) Cold JB
1.3 Subsystem	83-65		Electrical Heat Tracing

2 - OBSERVATION

Missing internal identification terminal strip (PE). See attached photo.

Name: Giovanni Tangianu
Date: 2025-02-10
Signature:

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Giovanni Tangianu
3.4 Activity code	MC Mechanical Completion	Date	2025-02-10
3.5 Action by	PRE-COMM	Signature	

4 - PERFORMED ACTION

-

Name:
Date: 2025-06-10
Signature:

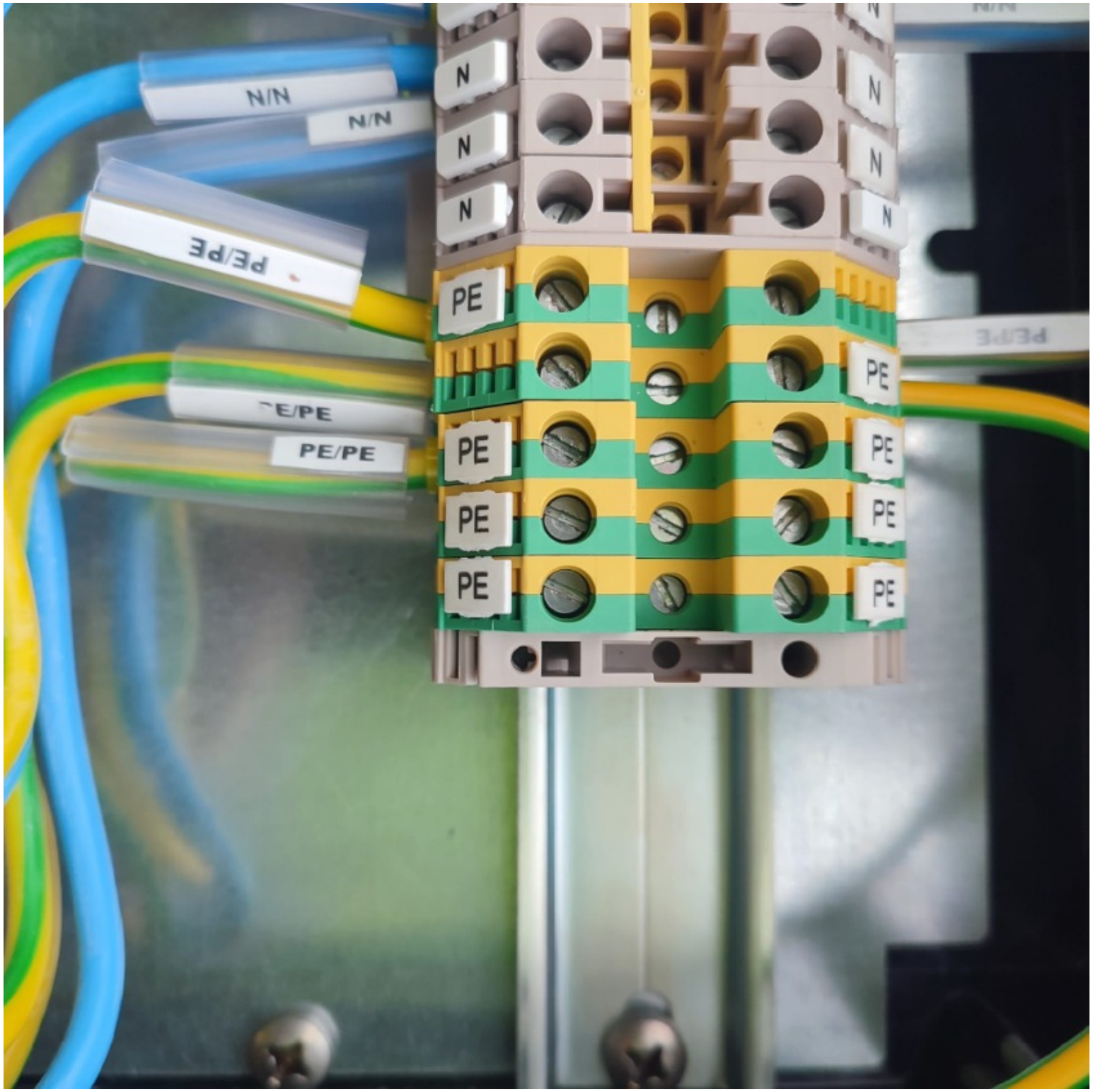
5 - CLEARANCE CHECK

Installed

Name: Eleonora Carotenuto
Date: 2025-06-10
Signature:

6- CLEARANCE APPROVAL

Name:
Date: 2025-06-10
Signature:


N/N
N/N
PE/PE
PE/PE
N
N
N
N
N
N
PE
PE
PE
PE
PE
PE
PE
PE

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30003641

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10000618	1.4 Discipline	Electrical
1.2 Item	P-ETB-200N1-17-L1-01		Lighting & Small Power DB BoP / Trace Heating - Process Lines - Feeder 4
1.3 Subsystem	83-65		Electrical Heat Tracing

2 - OBSERVATION

Missing SS cable tag side the (ETB-200N1-17-L1-01)..

Name: Giovanni Tangianu

Date: 2025-02-10

Signature:

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Giovanni Tangianu
3.4 Activity code	MC Mechanical Completion	Date	2025-02-10
3.5 Action by	RM_CONSTR RM	Signature	

4 - PERFORMED ACTION

Name:

Date:

Signature:

5 - CLEARANCE CHECK

DONE

Name: Andrea Andreani

Date: 2025-02-25

Signature:

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: 83-65 & process: COMM & discipline : E

Electrical	83-65 Electrical Heat Tracing						
ITEM		TASK					
Code	Description	Location	Code	Form	Progress	Date	Certificate
DP-200N1-Q13	MAIN BREAKER HEAT TRACING - DP-200N1-Q13	ONSHORE	C10002906	FTR-2	100	2025-04-22	RFO 1
DP-200N1-Q14	HEAT TRACING - SWS LINES - DP-200N1-Q14	ONSHORE	C10002907	FP22	100	2025-04-17	RFO 1
DP-200N1-Q15	HEAT TRACING - CI LINES - DP-200N1-Q15	ONSHORE	C10002908	FP22	100	2025-04-17	RFO 1
DP-200N1-Q16	HEAT TRACING - DM LINES - DP-200N1-Q16	ONSHORE	C10002909	FP22	100	2025-04-17	RFO 1
DP-200N1-Q17	HEAT TRACING - WW LINES - DP-200N1-Q17	ONSHORE	C10002910	FP22	100	2025-04-17	RFO 1
DP-200N1-Q18	HEAT TRACING - VASSEL KO DRUM - DP-200N1-Q18	ONSHORE	C10002911	FTR-2	100	2025-04-25	RFO 1
DP-200N1-Q19	HEAT TRACING - H2 VENT - DP-200N1-Q19	ONSHORE	C10002912	FP22	100	2025-04-17	RFO 1
DP-200N1-Q20	HEAT TRACING - SEA WATER PUMPS - DP-200N1-Q20	ONSHORE	C10002913	FP22	100	2025-04-29	RFO 1
DP-200N1-Q21	HEAT TRACING - SPARE - DP-200N1-Q21	ONSHORE	C10002914	FTR-2	100	2025-04-22	RFO 1

ITEM	Tag	DP-200N1-Q13	: MAIN BREAKER HEAT TRACING - DP-200N1-Q13			Dwg	1723002197-EL-DG-00013
	S/Sys	83-65	: Electrical Heat Tracing			Module	
TASK	code	C10002906		Location	Onshore Activities	User	Rosetti Marino Quality Control
FORM	Process	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: NA
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	Time delay Trip value
I	50A	NA	NA	FIXED	NA

Testing & measurement instruments used

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

Comments:

Page 1/1	Performed by	● WITNESS ☐ REVIEW	● WITNESS ☐ REVIEW
Company	RM COMM	RM	CW
Name	Davide Zucconelli	Kristian Castellani	David Musgrove
Date	2025-04-15	2025-04-15	2025-04-22
Signature	PROVERLIS Digitaly signed by Davide Zucconelli 2025-04-15T12:23:21.057Z	PROVERLIS Digitaly signed by Kristian Castellani 2025-04-15T12:43:47.965Z	PROVERLIS Digitaly signed by David Musgrove 2025-04-22T15:17:11.195Z

ROSETTI MARINO | CROSSWIND

ITEM	Tag	DP-200N1-Q14	: HEAT TRACING - SWS LINES - DP-200N1-Q14			Dwg	1723002197-EL-DG-00013
	S/Sys	83-65	: Electrical Heat Tracing			Module	
TASK	code	C10002907		Location	Onshore Activities	User	Rosetti Marino Quality Control
FORM	Process	COMM	Activity FTS	Discipline	Electrical	Form	FP22 Heat Tracing

DATA

Distribution board: DP-200N1 Circuit ref: Q14 MCB rating (A): 20A

FUNCTION TEST REQUIREMENT

1	Check pre-commissioning activities have been carried out.					OK
2	Check equipments for cleaness.					OK
3	Measure Insulation resistance value of circuit and feeder cable at 500V (Min 10 Mohm)			>500	MΩ	OK
4	Energise.					OK
5	Measure initial current according to vendor procedures (INRUSH).			11.8	A	OK
6	Measure ambient temperature according to vendor procedures			13	°C	OK
7	Misure current after 1 minute			3.4	A	OK
8	Misure current after 30 minutes			2.1	A	OK
9	Test earth leakage protection operation.	59.1	mS	18	mA	OK

Testing & measurement instruments used

Type	Serial n°	Calibration certificate	Validity
FLUKE 1663	5380144	7727/24	10/07/2025
FLUKE 376	A1711003	7710/24	10/07/2025
FLUKE 62 MAX+	53172376WS	7716/24	10/07/2025

Comments:

	Performed by	● WITNESS ☐ REVIEW	● WITNESS ☐ REVIEW
Company	RM COMM	RM COMM	CW
Name	Davide Zucconelli	Kristian Castellani	David Musgrove
Date	2025-04-15	2025-04-15	2025-04-17
Signature	Digitaly signed by Davide Zucconelli 2025-04-15T11:37:14.146Z	Digitaly signed by Kristian Castellani 2025-04-15T12:44:45.631Z	Digitaly signed by David Musgrove 2025-04-17T11:05:38.064Z

ROSETTI MARINO — CROSSWIND

ITEM	Tag	DP-200N1-Q15	: HEAT TRACING - CI LINES - DP-200N1-Q15			Dwg	1723002197-EL-DG-00013
	S/Sys	83-65	: Electrical Heat Tracing			Module	
TASK	code	C10002908		Location	Onshore Activities	User	Rosetti Marino Quality Control
FORM	Process	COMM	Activity FTS	Discipline	Electrical	Form	FP22 — Heat Tracing

DATA

Distribution board: DP-200N1 Circuit ref: Q15 MCB rating (A): 20A

FUNCTION TEST REQUIREMENT

1	Check pre-commissioning activities have been carried out.					OK
2	Check equipments for cleaness.					OK
3	Measure Insulation resistance value of circuit and feeder cable at 500V (Min 10 Mohm)			>500	MΩ	OK
4	Energise.					OK
5	Measure initial current according to vendor procedures (INRUSH).			10.4	A	OK
6	Measure ambient temperature according to vendor procedures			13	°C	OK
7	Misure current after 1 minute			2.8	A	OK
8	Misure current after 30 minutes			1.1	A	OK
9	Test earth leakage protection operation.	48.7	mS	24	mA	OK

Testing & measurement instruments used

Type	Serial n°	Calibration certificate	Validity
FLUKE 1663	5380144	7727/24	10/07/2025
FLUKE 376	A1711003	7710/24	10/07/2025
FLUKE 62 MAX+	53172376WS	7716/24	10/07/2025

Comments:

	Performed by	● WITNESS ☐ REVIEW	● WITNESS ☐ REVIEW
Company	RM COMM	RM COMM	CW
Name	Davide Zucconelli	Kristian Castellani	David Musgrove
Date	2025-04-15	2025-04-15	2025-04-17
Signature	PROVERLIS Digitaly signed by Davide Zucconelli 2025-04-15T11:37:31.191Z	PROVERLIS Digitaly signed by Kristian Castellani 2025-04-15T12:45:36.573Z	PROVERLIS Digitaly signed by David Musgrove 2025-04-17T11:03:20.962Z

ROSETTI MARINO | PROVERLIS | CROSSWIND

ITEM	Tag	DP-200N1-Q16	: HEAT TRACING - DM LINES - DP-200N1-Q16		Dwg	1723002197-EL-DG-00013	
	S/Sys	83-65	: Electrical Heat Tracing		Module		
TASK	code	C10002909	Location	Onshore Activities	User	Rosetti Marino Quality Control	
FORM	Process	COMM	Activity FTS	Discipline Electrical	Form	FP22	Heat Tracing

DATA

Distribution board: DP-200N1 Circuit ref: Q16 MCB rating (A): 20A

FUNCTION TEST REQUIREMENT

1	Check pre-commissioning activities have been carried out.					OK
2	Check equipments for cleaness.					OK
3	Measure Insulation resistance value of circuit and feeder cable at 500V (Min 10 Mohm)			>500	MΩ	OK
4	Energise.					OK
5	Measure initial current according to vendor procedures (INRUSH).			3.9	A	OK
6	Measure ambient temperature according to vendor procedures			13	°C	OK
7	Misure current after 1 minute			1.2	A	OK
8	Misure current after 30 minutes			1.2	A	OK
9	Test earth leakage protection operation.	48.9	mS	21	mA	OK

Testing & measurement instruments used

Type	Serial n°	Calibration certificate	Validity
FLUKE 1663	5380144	7727/24	10/07/2025
FLUKE 376	A1711003	7710/24	10/07/2025
FLUKE 62 MAX+	53172376WS	7716/24	10/07/2025

Comments:

	Performed by	● WITNESS ☐ REVIEW	● WITNESS ☐ REVIEW
Company	RM COMM	RM COMM	CW
Name	Davide Zucconelli	Kristian Castellani	David Musgrove
Date	2025-04-15	2025-04-15	2025-04-17
Signature	PROVERLIS Digitaly signed by Davide Zucconelli 2025-04-15T11:37:55.497Z	PROVERLIS Digitaly signed by Kristian Castellani 2025-04-15T12:46:11.580Z	PROVERLIS Digitaly signed by David Musgrove 2025-04-17T10:52:46.172Z

ROSETTI MARINO — CROSSWIND

ITEM	Tag	DP-200N1-Q17	: HEAT TRACING - WW LINES - DP-200N1-Q17		Dwg	1723002197-EL-DG-00013	
	S/Sys	83-65	: Electrical Heat Tracing		Module		
TASK	code	C10002910	Location	Onshore Activities	User	Rosetti Marino Quality Control	
FORM	Process	COMM	Activity FTS	Discipline Electrical	Form	FP22	Heat Tracing

DATA

Distribution board: DP-200N1 Circuit ref: Q17 MCB rating (A): 20A

FUNCTION TEST REQUIREMENT

1	Check pre-commissioning activities have been carried out.					OK
2	Check equipments for cleaness.					OK
3	Measure Insulation resistance value of circuit and feeder cable at 500V (Min 10 Mohm)			>500	MΩ	OK
4	Energise.					OK
5	Measure initial current according to vendor procedures (INRUSH).			8.4	A	OK
6	Measure ambient temperature according to vendor procedures			13	°C	OK
7	Misure current after 1 minute			2.1	A	OK
8	Misure current after 30 minutes			1.8	A	OK
9	Test earth leakage protection operation.	69.5	mS	21	mA	OK

Testing & measurement instruments used

Type	Serial n°	Calibration certificate	Validity
FLUKE 1663	5380144	7727/24	10/07/2025
FLUKE 376	A1711003	7710/24	10/07/2025
FLUKE 62 MAX+	53172376WS	7716/24	10/07/2025

Comments:

	Performed by	☐ WITNESS ☉ REVIEW	☉ WITNESS ☐ REVIEW
Company	RM COMM	RM COMM	CW
Name	Davide Zucconelli	Kristian Castellani	David Musgrove
Date	2025-04-15	2025-04-15	2025-04-17
Signature	Digitaly signed by Davide Zucconelli 2025-04-15T11:38:21.288Z	Digitaly signed by Kristian Castellani 2025-04-15T12:46:54.796Z	Digitaly signed by David Musgrove 2025-04-17T10:51:43.854Z

ITEM	Tag	DP-200N1-Q18	: HEAT TRACING - VASSEL KO DRUM - DP-200N1-Q18			Dwg	1723002197-EL-DG-00013
	S/Sys	83-65	: Electrical Heat Tracing			Module	
TASK	code	C10002911		Location	Onshore Activities	User	Rosetti Marino Quality Control
FORM	Process	COMM	Activity FTS	Discipline	Electrical	Form	FTR-2 Protection Relay

FTR2 - Protection relay
Record sheet

RELAY DATA

Manufacturer: ABB	Serial N°: NA	Relay type: A TYPE
Auxiliary supply: NA	Location: B200	Cubicle: Q18
Switchboard: DP-200N1		

Current transformers

Tag	Number of	Ratio	Location

Voltage transformers

Tag	Number of	Ratio	Location

Test result (refer to manufacturer's procedure)

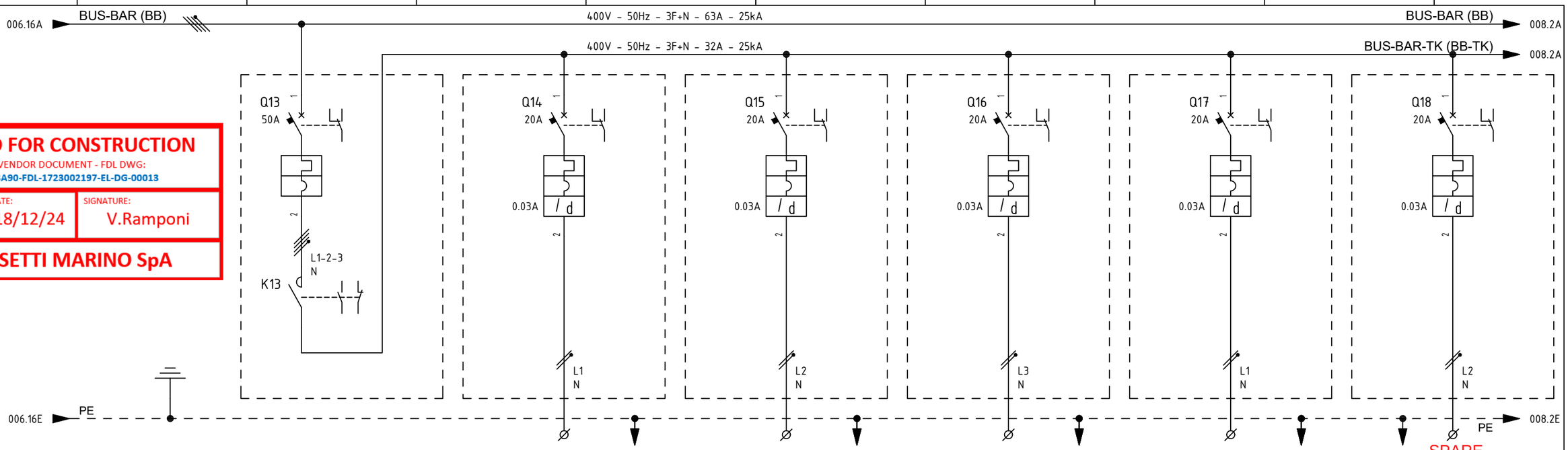
ANSI function	Setting	Injection	Trip value	Time delay Setting	Time delay Trip value
64	30mA	30mA	24mA	FIXED	58.5mS

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	CW
Name	Davide Zucconelli	Kristian Castellani	David Musgrove
Date	2025-04-15	2025-04-15	2025-04-25
Signature	Digitaly signed by Davide Zucconelli 2025-04-15T12:31:54.517Z	Digitaly signed by Kristian Castellani 2025-04-15T12:47:36.878Z	Digitaly signed by David Musgrove 2025-04-25T14:15:07.532Z



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

ITEM			1	-	ETB-200N1-14-L1-01	ETB-200N1-15-L2-01	ETB-200N1-16-L3-01	ETB-200N1-17-L1-01	~~ETB-200N1-18-L2-01~~ SPARE
UTILITY			2	TRACE HEATING MAIN C.B.	TRACE HEATING - PROCESS LINES - FEEDER 1 (SWS LINES)	TRACE HEATING - PROCESS LINES - FEEDER 2 (CI LINES)	TRACE HEATING - PROCESS LINES - FEEDER 3 (DM LINE)	TRACE HEATING - PROCESS LINES - FEEDER 4 (WW LINES)	~~TRACE HEATING - PROCESS LINES - FEEDER 5 (VASSEL KO DRUM)~~
CUBICLE			3	+02	+02	+02	+02	+03	+03
RATED POWER | RATED CURRENT			4/5	34.6 KW | 50 A	3.5 KW | 15.22 A	3.5 KW | 15.22 A	3.5 KW | 15.22 A	3.5 KW | 15.22 A	3.5 KW | 15.22 A
TYPICAL FUNCTIONAL			6	-	-	-	-	-	-
CIRCUIT BREAKER (ABB)	TYPE		7	S804C-C50	S302P-C20 + DDA202 AC-25/0.03	S302P-C20 + DDA202 AC-25/0.03	S302P-C20 + DDA202 AC-25/0.03	S302P-C20 + DDA202 AC-25/0.03	S302P-C20 + DDA202 AC-25/0.03
	VERSION		8	4P / MINIATURE	2P / MINIATURE	2P / MINIATURE	2P / MINIATURE	2P / MINIATURE	2P / MINIATURE
	TRIP UNITS		9	In=50A - curve C	In=20A - Curve C / Id=0.03A Class AC	In=20A - Curve C / Id=0.03A Class AC	In=20A - Curve C / Id=0.03A Class AC	In=20A - Curve C / Id=0.03A Class AC	In=20A - Curve C / Id=0.03A Class AC
	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	ESB63-40N-06; 4x63A AC1; Vaux=230Vdc/ac	-	-	-	-	-
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 / 6	SCREW / 6	SCREW / 6	SCREW / 6	SCREW / 6
POWER CONDUCTOR		mm²	31	-	3G6	3G6	3G6	3G6	3G6

CROSSWIND

IMESA ELECTRICAL ENGINEERING

ROSETTI MARINO

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 007

REV. 04

F.to UNI A3: 420mmx297mm

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

ROSETTI MARINO | CROSSWIND

ITEM	Tag	DP-200N1-Q19	: HEAT TRACING - H2 VENT - DP-200N1-Q19			Dwg	1723002197-EL-DG-00013
	S/Sys	83-65	: Electrical Heat Tracing			Module	
TASK	code	C10002912		Location	Onshore Activities	User	Rosetti Marino Quality Control
FORM	Process	COMM	Activity FTS	Discipline	Electrical	Form	FP22 Heat Tracing

DATA

Distribution board: DP-200N1 Circuit ref: Q19 MCB rating (A): 20A

FUNCTION TEST REQUIREMENT

1	Check pre-commissioning activities have been carried out.					OK
2	Check equipments for cleaness.					OK
3	Measure Insulation resistance value of circuit and feeder cable at 500V (Min 10 Mohm)			>500	MΩ	OK
4	Energise.					OK
5	Measure initial current according to vendor procedures (INRUSH).			18.8	A	OK
6	Measure ambient temperature according to vendor procedures			13	°C	OK
7	Misure current after 1 minute			9.6	A	OK
8	Misure current after 30 minutes			6.8	A	OK
9	Test earth leakage protection operation.	48.9	mS	21	mA	OK

Testing & measurement instruments used

Type	Serial n°	Calibration certificate	Validity
FLUKE 1663	5380144	7727/24	10/07/2025
FLUKE 376	A1711003	7710/24	10/07/2025
FLUKE 62 MAX+	53172376WS	7716/24	10/07/2025

Comments:

	Performed by	☉ WITNESS ☐ REVIEW	☉ WITNESS ☐ REVIEW
Company	RM COMM	RM COMM	CW
Name	Davide Zucconelli	Kristian Castellani	David Musgrove
Date	2025-04-15	2025-04-15	2025-04-17
Signature	Digitaly signed by Davide Zucconelli 2025-04-15T11:38:41.681Z	Digitaly signed by Kristian Castellani 2025-04-15T12:48:23.342Z	Digitaly signed by David Musgrove 2025-04-17T10:49:51.570Z

ROSETTI MARINO — CROSSWIND

ITEM	Tag	DP-200N1-Q20	: HEAT TRACING - SEA WATER PUMPS - DP-200N1-Q20			Dwg	1723002197-EL-DG-00013
	S/Sys	83-65	: Electrical Heat Tracing			Module	
TASK	code	C10002913		Location	Onshore Activities	User	Rosetti Marino Quality Control
FORM	Process	COMM	Activity FTS	Discipline	Electrical	Form	FP22 Heat Tracing

DATA

Distribution board: DP-200N1 Circuit ref: Q20 MCB rating (A): 20A

FUNCTION TEST REQUIREMENT

1	Check pre-commissioning activities have been carried out.					OK
2	Check equipments for cleaness.					OK
3	Measure Insulation resistance value of circuit and feeder cable at 500V (Min 10 Mohm)			>500	MΩ	OK
4	Energise.					OK
5	Measure initial current according to vendor procedures (INRUSH).			7.1	A	OK
6	Measure ambient temperature according to vendor procedures			21	°C	OK
7	Misure current after 1 minute			4.8	A	OK
8	Misure current after 30 minutes			2.3	A	OK
9	Test earth leakage protection operation.	50.4	mS	21	mA	OK

Testing & measurement instruments used

Type	Serial n°	Calibration certificate	Validity
FLUKE 1663	5380144	7727/24	10/07/2025
FLUKE 376	A1711003	7710/24	10/07/2025
FLUKE 62 MAX+	53172376WS	7716/24	10/07/2025

Comments:

	Performed by	☐ WITNESS ☉ REVIEW	☐ WITNESS ☉ REVIEW
Company	RM COMM	RM COMM	CW
Name	Davide Zucconelli	Kristian Castellani	David Musgrove
Date	2025-04-29	2025-04-29	2025-04-29
Signature	PROVERLIS Digitaly signed by Davide Zucconelli 2025-04-29T07:36:57.620Z	PROVERLIS Digitaly signed by Kristian Castellani 2025-04-29T14:05:10.535Z	PROVERLIS Digitaly signed by David Musgrove 2025-04-29T14:26:02.245Z

ITEM	Tag	DP-200N1-Q21	: HEAT TRACING - SPARE - DP-200N1-Q21		Dwg	1723002197-EL-DG-00013	
	S/Sys	83-65	: Electrical Heat Tracing		Module		
TASK	code	C10002914	Location	Onshore Activities	User	Rosetti Marino Quality Control	
FORM	Process	COMM	Activity FTS	Discipline Electrical	Form	FTR-2	Protection Relay

FTR2 - Protection relay
Record sheet

RELAY DATA

Manufacturer: ABB	Serial N°: NA	Relay type: A TYPE
Auxiliary supply: NA	Location: B200	Cubicle: Q21
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	Time delay Trip value
64	30mA	30mA	24mA	FIXED	48.3mS

Testing & measurement instruments used

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

Comments:

	Performed by	● WITNESS ☐ REVIEW	● WITNESS ☐ REVIEW
Company	RM COMM	RM COMM	CW
Name	Davide Zucconelli	Kristian Castellani	David Musgrove
Date	2025-04-15	2025-04-15	2025-04-22
Signature	PROVERLIS Digitaly signed by Davide Zucconelli 2025-04-15T12:31:32.360Z	PROVERLIS Digitaly signed by Kristian Castellani 2025-04-15T12:49:05.325Z	PROVERLIS Digitaly signed by David Musgrove 2025-04-22T15:19:12.028Z

Section 4.2 Electrical
“As-Commissioned” interconnection diagrams

FROM	TO

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

CUBICLE/CB: +03/Q19

-X1

L3/19	60	BN
N/19	61	BU
		Y/G
		PE

P.E. BUS BAR

NO MARK UP
AS COMMISSIONED: MA-MA
GIROT.
28/5/25

P-ETB-200N1-19-L3-01
3G6 mm²

DESCRIPTION: TRACE HEATING - PROCESS LINES - FEEDER 6 (H2 VENT)
TAG NUMBER: ETB-200N1-19-L3-01

HOT JB

BN	L
	L
BU	N
	N
Y/G	PE
	PE

NOTE:
JB SUPPLIED BY
VENDOR OF PACKAGE

CUBICLE/CB: +03/Q20

-X1

L1/20	62	BN
N/20	63	BU
		Y/G
		PE

P.E. BUS BAR

NO MARK UP
AS COMMISSIONED: MA-MA
GIROT.
28/5/25

P-ETB-200N1-20-L1-01
~~P-EJB-200N1-20-L1-01~~
3G6 mm²

DESCRIPTION: TRACE HEATING - PROCESS LINES
- FEEDER 7 (SEA WATER PUMPS)
TAG NUMBER: EJB-200N1-20-L1-01

BN	L	BN	BN
	L		
	L		
BU	N	BU	BU
	N		
	N		
Y/G	PE	Y/G	Y/G
	PE		
	PE		

P-ETB-200N1-20-L1-02
~~P-ETB-200N1-20-L1-01A~~
3G6 mm²

P-ETB-200N1-20-L1-03
~~P-ETB-200N1-20-L1-01B~~
3G6 mm²

NOTE:
HOT JB SUPPLIED BY
VENDOR OF PACKAGE

TAG NUMBER: ETB-200N1-20-L1-01A

HOT JB

BN	L
	L
BU	N
	N
Y/G	PE
	PE

TAG NUMBER: ETB-200N1-20-L1-01B

HOT JB

BN	L
	L
BU	N
	N
Y/G	PE
	PE

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

REV.:	DATE:	SIGNATURE:
2_L	13/03/25	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
TRACE HEATING PROCESS LINES

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 051

REV. 02

F.to UNI A3: 420mmx297mm

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

FROM	TO

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

CUBICLE/CB: +03/Q17

-X1

L1/17 — 56 — BN
N/17 — 57 — BU
Y/G
PE
P.E. BUS BAR

P-EJB-200N1-17-L1-01
3G6 mm²

NO MARK UP
AS COMMISSIONED: MATRIA GIROTTI
28/5/25

DESCRIPTION: TRACE HEATING - PROCESS LINES - FEEDER 4 (WW LINES & LT)
TAG NUMBER: EJB-200N1-17-L1-01

COLD JB

BN — L — BN
BU — N — BU
Y/G — PE — Y/G

P-ETB-200N1-17-L1-01
3G6 mm²

DESCRIPTION: TRACE HEATING INSTRUMENT - 43-LT-003
TAG NUMBER: ETB-200N1-17-L1-01

HOT JB

BN — L — BN
BU — N — BU
Y/G — PE — Y/G

P-ETB-200N1-17-L1-02
3G6 mm²

DESCRIPTION: TRACE HEATING PROCESS LINE (WW 202) ##
TAG NUMBER: ETB-200N1-17-L1-02

HOT JB

BN — L — BN
BU — N — BU
Y/G — PE — Y/G

P-ETB-200N1-17-L1-03
3G6 mm²

DESCRIPTION: TRACE HEATING PROCESS LINE (WW 260)
TAG NUMBER: ETB-200N1-17-L1-03

HOT JB

BN — L — BN
BU — N — BU
Y/G — PE — Y/G

DESCRIPTION: TRACE HEATING PROCESS LINE (WW 259) (V-43001 / 43-LT-001)
TAG NUMBER: ETB-200N1-17-L1-04

P-ETB-200N1-17-L1-04
3G6 mm²

HOT JB

BN — L — BN
BU — N — BU
Y/G — PE — Y/G

- PIPE LINE WW-202 TRACED FROM NOZZLE N3 UPTO SWAN NECK

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
TRACE HEATING PROCESS LINES

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

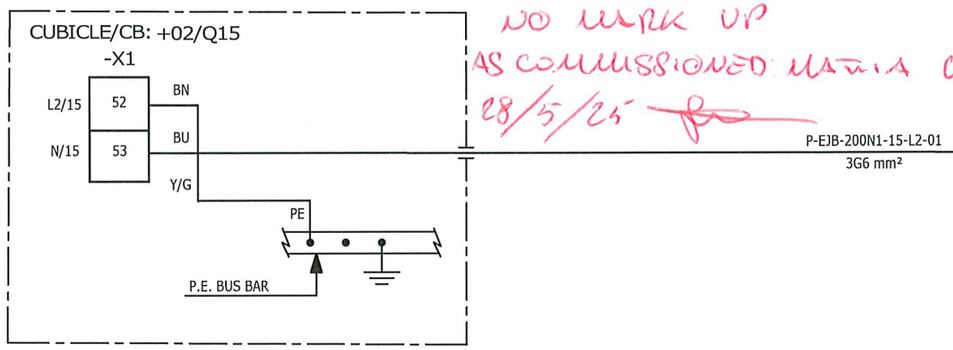
A3 | DRAWING NO. 123A90-DDL-EL-DG-20149 | SHEET 050 | REV. 02

F.to UNI A3: 420mmx297mm

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

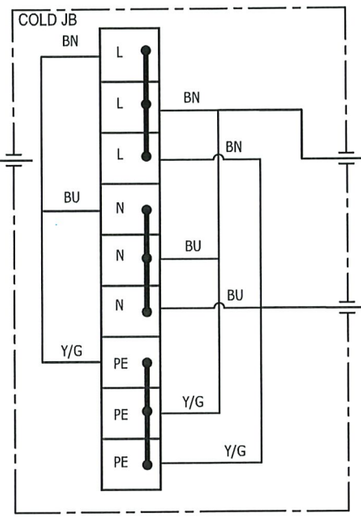
FROM	TO

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



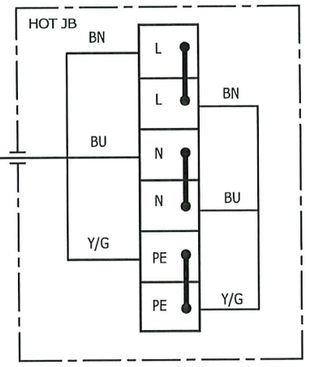
NO MARK UP
AS COMMISSIONED: MATRIX GIROTTI
28/5/25

DESCRIPTION: TRACE HEATING - PROCESS LINES
- FEEDER 2 (CI LINES)
TAG NUMBER: EJB-200N1-15-L2-01



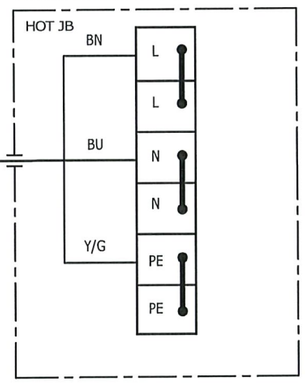
P-ETB-200N1-15-L2-01
3G6 mm²

TAG NUMBER: ETB-200N1-15-L2-01
FOR PIPE LINE: CI-029

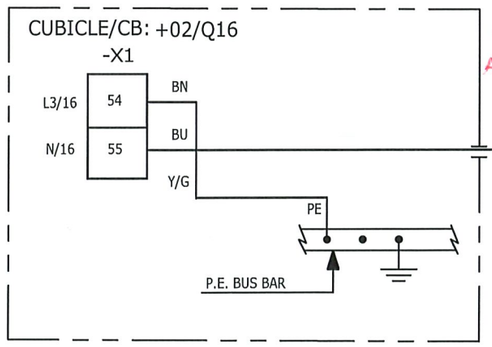


TAG NUMBER: ETB-200N1-15-L2-02
FOR PIPE LINE: CI-043

P-ETB-200N1-15-L2-02
3G6 mm²

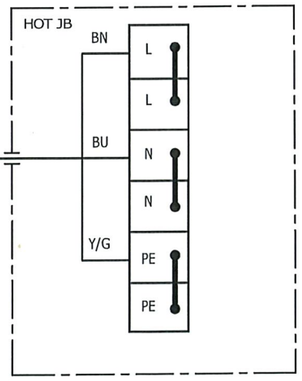


DESCRIPTION: LIGHTING & SMALL POWER DB BOP
TAG NUMBER: DP-200N1



NO MARK UP
AS COMMISSIONED: MATRIX GIROTTI
28/5/25

DESCRIPTION: TRACE HEATING
PROCESS LINES - FEEDER 3 (DM 001)
TAG NUMBER: ETB-200N1-16-L3-01



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
TRACE HEATING PROCESS LINES

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 049

REV. 02

F.to UNI A3: 420mmx297mm

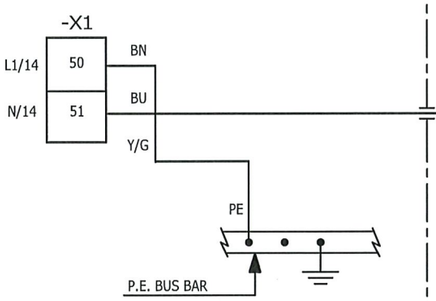
File Name : 123A90-DDL-EL-DG-20149 Rev. 02

FROM	TO

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

CUBICLE/CB: +02/Q14

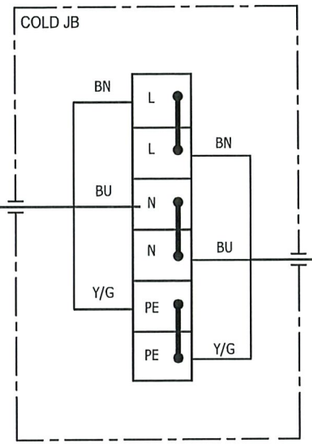
NO MARK UP
AS COMMISSIONED: MS MS GIROTTI
28/5/25



P-EJB-200N1-14-L1-01
3G6 mm²

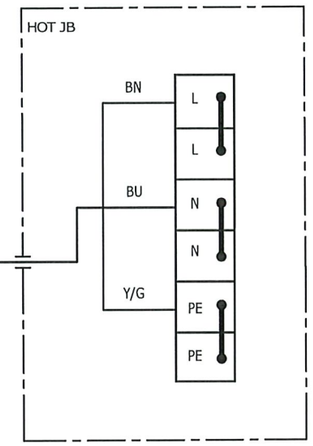
DESCRIPTION: TRACE HEATING - PROCESS LINES
- FEEDER 1 (SWS LINES)

TAG NUMBER: EJB-200N1-14-L1-01



P-ETB-200N1-14-L1-01
3G6 mm²

TAG NUMBER: ETB-200N1-14-L1-01
FOR PIPE LINE: SWS-35



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
TRACE HEATING PROCESS LINES

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

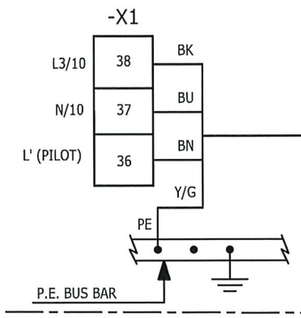
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	123A90-DDL-EL-DG-20149	048	02

F.to UNI A3: 420mmx297mm

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

FROM	TO

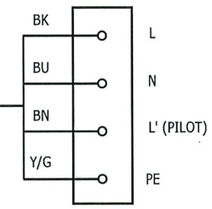
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TAG NUMBER: DP-200N1
CUBICLE/CB: +01/Q10



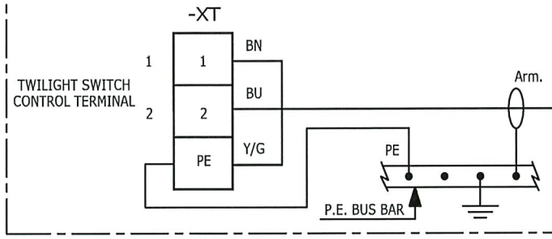
NO MARK UP
AS COMMISSIONED: MARIA GIROTTI
28/5/25

P-EJB-200N1-10-L3-01
4G4_E mm²

DESCRIPTION: EMERGENCY LIGHTING STAIRS
TAG NUMBER: EJB-200N1-10-L3-01



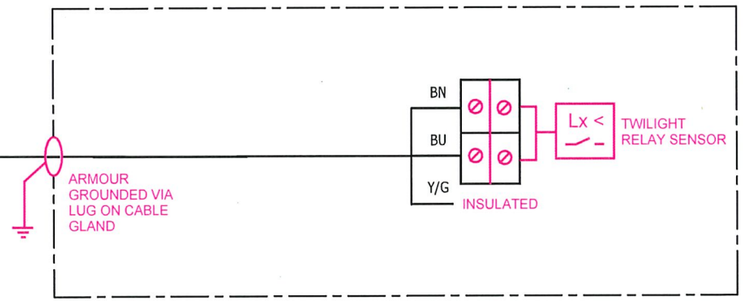
DESCRIPTION: LIGHTING & SMALL POWER DB BOP
TAG NUMBER: DP-200N1
CUBICLE/CB: +01/Q2



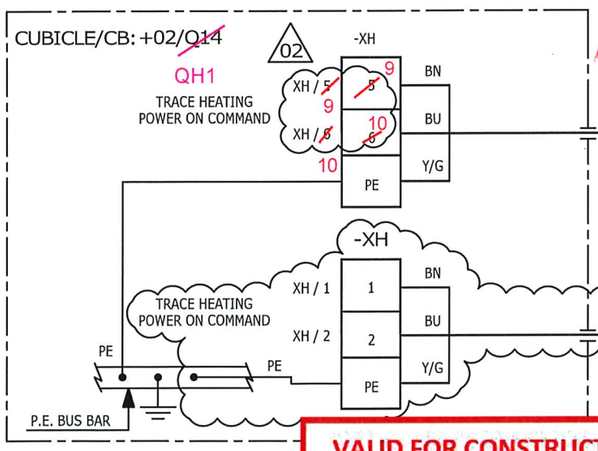
NO MARK UP
AS COMMISSIONED: MARIA GIROTTI
28/5/25

P-EPH-200N1-01
3G4 mm²

DESCRIPTION: TWILIGHT RELAY SENSOR
TAG NUMBER: EPH-200N1-01



DESCRIPTION: LIGHTING & SMALL POWER DB BOP
TAG NUMBER: DP-200N1
CUBICLE/CB: +02/~~Q14~~



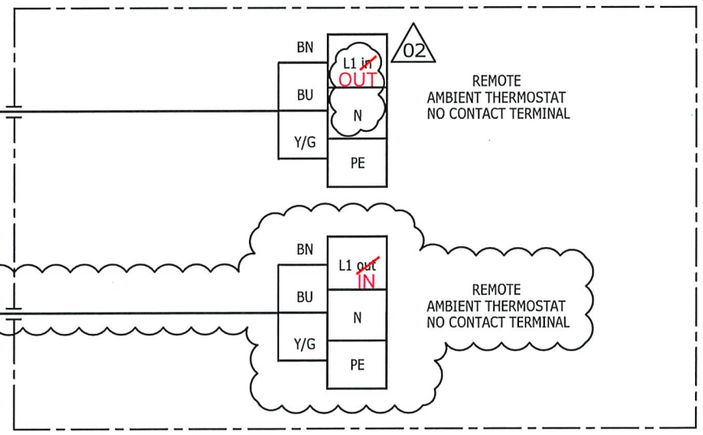
NO MARK UP
AS COMMISSIONED: MARIA GIROTTI
28/5/25

P-EAT-200N1-01
3G2.5 mm²

02

P-EAT-200N1-02
3G2.5 mm²

DESCRIPTION: REMOTE AMBIENT THERMOSTAT
TAG NUMBER: EAT-200N1-01



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

REV.:	DATE:	SIGNATURE:
2_L	13/03/25	G.Randi

ROSETTI MARINO SpA

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

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL INTERCONNECTING WIRING DIAGRAM
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 047 | 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

NOT APPLICABLE

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

ROSETTI MARINO

SPARE PARTS LIST

CROSSWIND

Document Title	Commissioning and 2 years spare parts list				
The document relates to	HOLLANDSE KUST NOORD WIND PARK Project - Base Load Power Hub (BLPH)			Contract CW-I-WP4-2023-05	
Project ID	123A90	Doc. n°	1724001647-COM-LIS-00015	Rev. 04 / Rev. Date 29-Jan-25	Status AFC / Class 2

The equipment consists of the

| | | | |

Section 7.4 Vendor Data / Operations / Maintenance Manuals References

1	2	3	4	5	6	7	8	9	10

A

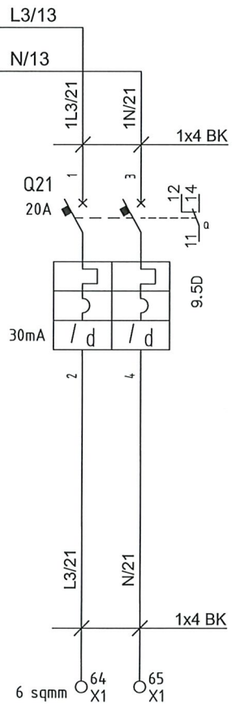
~ 230/400V-50Hz-25kA-63A

10.10A L1 → L1 12.1A
10.10A L2 → L2 12.1A
10.10A L3 → L3 12.1A
10.10A N → N 12.1A

B

~ 230/400V-50Hz-25kA-50A

10.10B L3/13
10.10B N/13



Spare
Trace Heating -
SPARE

NO MARK UP
AS COMMISSIONED: MATCH GIRO
28/5/25

C

D

E

VALID FOR CONSTRUCTION
VENDOR DOCUMENT - FDL DWG:
123A90-FDL-1724002197-EL-DG-00033

REV.:	DATE:	SIGNATURE:
3_A	18/03/25	G.Randi

ROSETTI MARINO SpA

CROSSWIND

IMESA ELECTRICAL ENGINEERING

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

ROSETTI MARINO

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 1.1 | REV. 03

F.to UNI A3: 420mmx297mm

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

~ 230/400V-50Hz-25kA-63A

9.10A L1 → L1 11.1A
9.10A L2 → L2 11.1A
9.10A L3 → L3 11.1A
9.10A N → N 11.1A

NO MARK UP AS COMMISSIONED: MATIA GIROTTI 28/5/25

~ 230/400V-50Hz-25kA-50A

9.10B L1/13
9.10B L2/13
9.10B L3/13 → L3/13 11.1B
9.10B N/13 → N/13 11.1B

	Q15	Q16	Q17	Q18	Q19	Q20
	1L2/15	1L3/16	1L1/17	1L2/18	1L3/19	1L1/20
	1N/15	1N/16	1N/17	1N/18	1N/19	1N/20
	1x4 BK	1x4 BK	1x4 BK	1x4 BK	1x4 BK	1x4 BK
	20A	20A	20A	20A	20A	20A
	9.4C	9.5C	9.5C	9.6C	9.4D	9.5D
	30mA	30mA	30mA	30mA	30mA	30mA
	L2/15	L3/16	L1/17	L2/18	L3/19	L1/20
	N/15	N/16	N/17	N/18	N/19	N/20
	1x4 BK	1x4 BK	1x4 BK	1x4 BK	1x4 BK	1x4 BK
	6 sqmm 52 X1 / 53 X1	6 sqmm 54 X1 / 55 X1	6 sqmm 56 X1 / 57 X1	6 sqmm 58 X1 / 59 X1	6 sqmm 60 X1 / 61 X1	6 sqmm 62 X1 / 63 X1
	ETB-200N1-15-L2-01 Trace Heating - Process Lines - Feeeder 2 (CI Lines) (3G6 sqmm)	ETB-200N1-16-L3-01 Trace Heating - Process Lines - Feeeder 3 (DM Line) (3G6 sqmm)	ETB-200N1-17-L1-01 Trace Heating - Process Lines - Feeeder 4 (WW Lines) (3G6 sqmm)	~~ETB-200N1-18-L2-01 Trace Heating - Process Lines - Feeeder 5 (Vassel Ko Drum) (3G6 sqmm)~~ SPARE	ETB-200N1-19-L3-01 Trace Heating - Process Lines - Feeeder 6 (H2 Vent) (3G6 sqmm)	ETB-200N1-20-L1-01 Trace Heating - Process - Lines - Feeeder 7 (Sea Water Pumps) (3G6 sqmm)

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

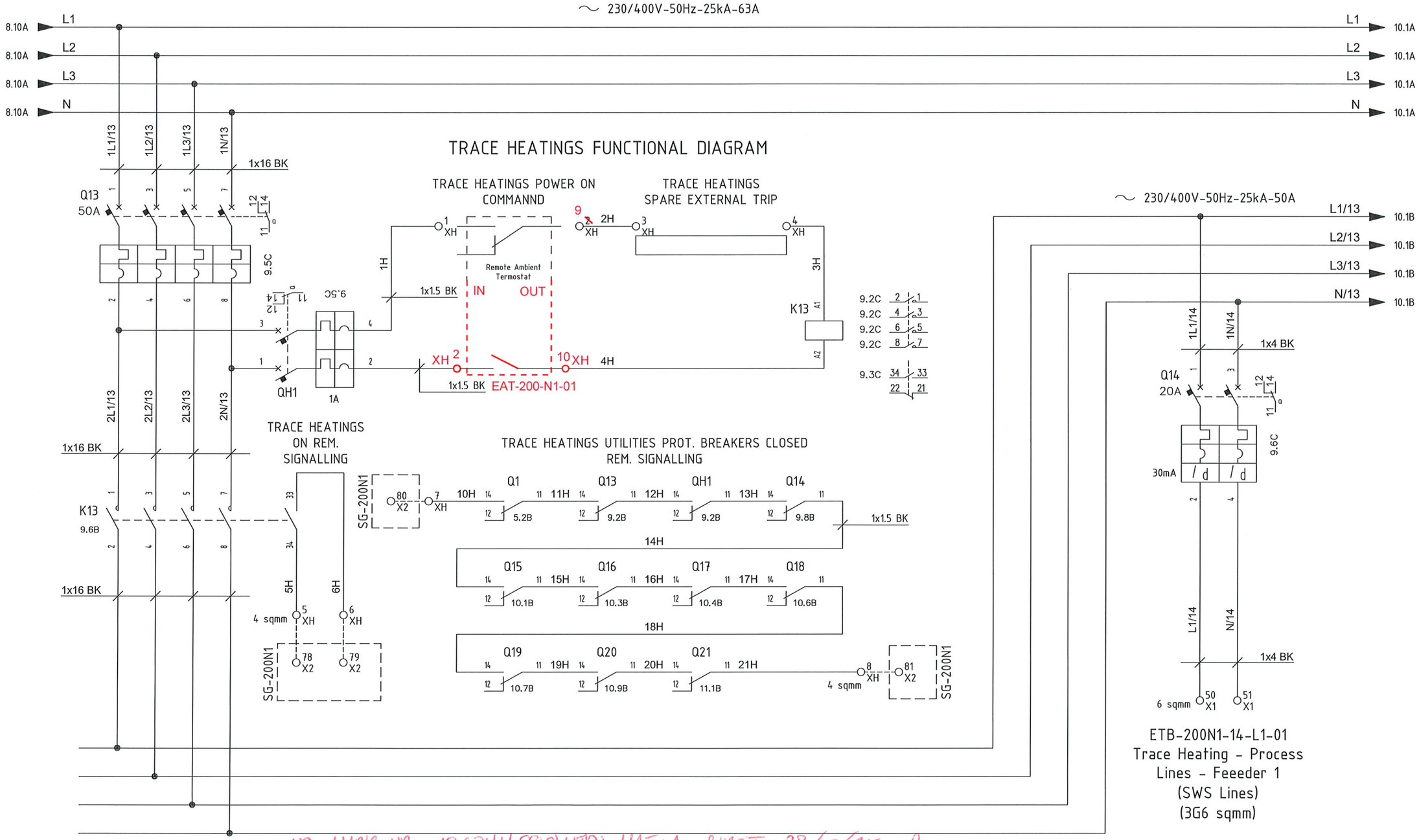
CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK | SCALE : NTS

A3 | DRAWING NO. 1723002197-EL-DG-00033 | SHEET 1.0 | REV. 03

F.to UNI A3: 420mmx297mm

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

TRACE HEATINGS FUNCTIONAL DIAGRAM



AS MARK UP AS COMMISSIONED: M. A. Gizzi 28/5/25

VALID FOR CONSTRUCTION

VENDOR DOCUMENT - FDL DWG: 123A90-FDL-1724002197-EL-DG-00033

REV.:	DATE:	SIGNATURE:
3_A	18/03/25	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)
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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 9

REV. 03

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

F.to UNI A3: 420mmx297mm

Section 8 LIST OF MODIFICATIONS

NOT APPLICABLE

Section 8.1 List of changes

NOT APPLICABLE

Section 9 SUPPORTING DOCUMENTS

NOT APPLICABLE